THE EXTRA PHARMACOPIEIA

SUPPLEMENT 1961

THE EXTRA PHARMACOPŒIA

MARTINDALE

SUPPLEMENT 1961

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VOLUME II TWENTY-THIRD EDITION 1955

AND

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PREFACE

It has been the practice in the past to publish new editions of the two volumes of the Extra Pharmacopoeta every four or five years, usually with an interval of two to three years between the publication of the first and second volumes of each new edition Volume II of the twenty third edition was published in 1955 and Volume I of the twenty fourth edition in 1958 and if the established peactice had been followed the second volume of the twenty fourth edition would have appeared this year It has become desirable however, to modify this procedure due to the increasing rate at which new medicinal substances are being intro duced Since the publication of the twenty fourth edition of Volume I for example, some 200 new drugs and 800 proprietary medicines have been introduced in Great Britain The chief need of the majority of users of the Extra Pharmaconena is for information on the composition. general properties actions and uses, dosage and toxic effects of the drugs and medicinal preparations in current use and it is this infor mation with which Volume I is almost entirely concerned that is subject to the most rapid change and is in more constant need of revision and augmentation than the ancillary information that is provided by Volume 11 It was decided therefore that rather than produce at this time a completely revised edition of Volume II the needs of most users of the Extra Pharmacopæia would best be served by the publication of a smaller volume providing supplementar, information on those sections of Volume II that are most in need of revision together with information on the composition, dosage therapeutic applications, and toxic effects of the new drugs and proprietary medicines that have been introduced since the publication of the twenty fourth edition of Volume I. This Supplement is the outcome of that decision and it is honed that it will prove an invaluable adjunct to the main volumes

The parts of Volume II that are more unneed of modification are those concerned with pharmacetural and biochemical analysis basternology, stenisation and disinfection, and the formulas of proprietary meditiones. Not that the existing text, apart from the formulas of proprietary medicines: requires substantial amendment, but it is in meed of expansion to cover the developments that have occurred in these aspects of the works since its publication in 1955 and it is to meet this need that the relevant sections of the Supplement have been designed.

The section on Analytical Addenda records information on the standards for the substances and preparations that have been added to the Brush Pharmacopera in the Brush Pharmaceunial Codex, and the Brush Vetennary Codex sume the publication of the twenty third edition of the Extra Pharmacopera Volume 11 and summarise in a secter of abstracts from scientific journals the recent developments in drug analysis and to a lesser extern in biochecural analysis

The supplementary Bacterological and Clinical Notes review recent developments in the diagnosis control, prevention, and treatment of the diseases discussed in the corresponding section of Volume II The sections on Sterikation and Dismafricing training the descriptions ince 1955 in the technogroup of strainiaston of pharmaceutoral produces and surgical maternals and in the use of dumifectants "duscriment have been added on the sterihaston of plastics, on hospital iterilisation equipment and organisation, and on the disinfection of blankets and bedding

A section on Blood Transfusion was included in Volume I of the twenty second and twenty third editions but was omitted from the twenty-fourth edition due to lack of space The publication of this Supplement has afforded an opportunity of repairing this omission. The section has been rewritten and enlarged It gives a concise account of the clinical uses of blood transfusion, the various blood grouns and their determination, compatibility tests, blood collection and preservation, the storage and handling of blood, blood transfusion practice and transfusion reactions The extension in the use of blood transfusion the oreat expansion in the knowledge of its various aspects and the development of new techniques during the last ten years have greatly complicated the task of confining the section within the limits set by the Extra Pharmacopona Inevitably, some aspects of the aubject have received no more than brief or passing mention but in its present form the section should provide adequate information to meet the needs of the pharmacist and the general medical practitioner. The list of references at the end of the section will guide the reader to austable sources of further and more detailed information

Changes in formula, the introduction of many new products, and the discontinuance of others since the publication of Volume 11 have necesstated the complete revision and expansion of the section on *Pormula* of *Proprintary Alidanes*: The section now gives the formula for over 1000 'counter' proprietaines: that is propriety medicatines of the type that are adverside to the publication and are usually surplied over the teomate on demand. The formula are given in the form in which they appear on the labels of the products or as supplied by their manufactures and it should be noted that in this form they do not necessarily sauly the labels of the interface of the type of the products by their manufactures as these clams are often not supported by the known themeques effects of the inpredents

The section on New Drugs and Proprietary Medicines is supplementary to the twenty-fourth edition of Volume I and provides information on the new drugs and 'ethical proprietances that have been introduced since its publication in 1958 In presenting this information on new drugs it has not been possible to describe them in the detail characteristic of the main volume or to follow its traditional arrangement A concise account is given of the therapeutic sonlications, toxicity, contra indiestions, and dosage of the new drugs, m so far as such information is at present available Abstracts from medical journals have been restricted to a minimum but references to important papers on the clinical applications of the drugs are incorporated within the relevant portions of the text The information is presented in the form of a single alphabetical list of drugs and proprietary medicines, the drugs being distinguished from the proprietary products by the use of larger type The insertion of the Addenda to this section (pages 275-7) after the main text went to press has permitted the inclusion of products introduced as recently as April 1961

PREFACE

Especial thanks are due to Dr R I Drummond for preparing the section on Blood Transfusion to Dr H J Parish and Dr D A Cannon for reading the proofs of the Bacteriological and Clinical Notes, to Dr G R Boyes for his advice on the section on New Drugs and Proprietary Medicines to Mr P H Woodnoth for checking the information relating to the Poisons Rules, and to Mr Leshe D Smith of Sangers I imited and Mr J D Clark of Boots Pure Drug Company Lamited for their courtesy and co-operation in providing facilities for checking much of the information included in the section on Formulæ of Proprietary Medicines The help of the many manufacturers who have co-operated in providing information on their products is gratefully acknowledged. Tribute must also be paid to the valuable assistance of the late Mr S L Ward who was closely associated with the preparation of every edition of the Extra Pharmacopera that has been published since 1923 and who after his retirement in 1958 until his death in November 1960 continued to contribute to the work of revision

At the beginning of 1960 the task of reviving the Extra Pharmacopcus including the preparation of this Supplement was assigned to an editorial section of the Department headed by R G Todd The following members of the editorial staff heave assisted in the preparation of the Supplement Edith J Condon Helen S Cranston F C Highfield, L A J McGreal and Magorie L Pieter The Analysical Addenda were prepared by G R Brown with the advice of S C Jolly Assistant Director of the Department

K R CAPPER

Department of Pharmaceutical Sciences The Pharmaceutical Society of Great Britain May 1961

ABBREVIATIONS

The titles of journals are abbreviated according to the style of the 'World List of Scientific Periodicals' 3rd Edn 1952 or of 'World Medical Periodicals', 2nd Edn 1957 An exception is the Journal of Pharmace and Pharmacelogy for which the abbreviation J Pharm Pharmacel is preferred.

A B P I -The Association of the British Pharmaceutical Industry A H G -anti human globuhn. an-ana 'of each' aq -aqua 'water' ATCC -- American Type Culture Collection, Washington USA E H P-British Homoropathic Pharmacoporta 1882 b p -- boiling point B.P -- Entrish Pharmaconces All B P references are to the 1958 edition unless otherwise designated in the text P Add -Addendum 1960 to the British Pharmacopers 1958 BPC-British Pharmaceutical Codex All B.PC references are to the 1959 edition unless otherwise designated in the text. H S -British Standard B Vet C — Entish Veterinary Codex 1953 B Vet C Supp — Supplement 1959 to the British Veterinary Codex 1933 Bele --- Belgian c mm -cubic millanetre Canad -- Canaduan cm -centimetre [D]—See Substances Subject to Restrictions Extra Ilarmacopera Vol I 24th Edn p xx Dan —Danish dr-drachm E S R --ervthrocyte ardimentation rate Edn-Edition et al -et alu 'and others used when there are three or more co authors or co workers FDA-United States Food and Drug Administration fl dr -- fluid drachm a oz -fluid ounce Fr-French g -gramme Ger-German u.-international unit. Ital -Italian. Ir-Junior kg-kilogram, 1-litre 1b -pound. M-molar concentration. M R.C -Medical Research Council max --- maximum

ABBREVIATIONS,

mEq -millequisalent mg ----milligram ml --- millibtre mu-millimicron ii-inicron ng -microgram N--normal concentration NND -- New and Nonofficial Drugs-an annual publication of the Council on Pharmacy and Chemistry of the American Medical Association All NND references are to the 1960 edition unless otherwise designated in the text. Ned-Dutch Nor --- Norwegian oz ---ounce p(p) ~page(s) [Pi] [P2]-See Substances Subject to Restrictions Extra Pharmacopicia Vol I 24th Edn p xx p p m -parts per nullion pH-hydrogen ion concentration PPD-Punfied Protein Derivative a s-quantum sufficient a sufficient quantity q v -quod vide which see [B]-See Substances Subject to Restrictions Exits Pharmacopetia Vol 1 24th Edn, p xx r p m -revolutions per minute [81]-See Substances Subject to Restrictions Extra Pharmacopicia Vol I 24th Edn, p sx [\$4A]-Substances subject to restrictions in accordance with the regulations summarised under [14] in Vol 1 24th Edn p xx except that the total amount to be supplied need not be stated on the prescription in the case of a pre-paration contained in the British National Formulary [\$4B]-Substances which may only be obtained by the public on the prescription of a doctor dentist or veterinary surgeon or practitioner. The presemption must be in writing and dated and agned by the preseriber. If it is to be repeated the prescription must include a direction that it may be d spensed a stated number of times or at stated intervals [\$7]-See Substances Subject to Restrictions Extra Pharmacopteis Vol 1 24th Edn p xx Scand --- Scandinavian Span --- Spanish spp -species, Swed -Swedish T.A B - Typhoid Paratyphoid A and B U.S.A -United States of America USNF-United States National Formulary All USNF references are to the eleventh educed 1960 unless otherwise designated in the text US.P—United States Pharmacopeus All US.P references are to the six texth results of US.P XXI, 1960 unless otherwise designated in the text v/v-volume in volume v/w-volume in weight. vol ---volume w/v-weight in volume w/w-weight in weight we per ml-weight per millihtre

Unless otherwise indicated in the text temperatures are expressed in the Centigrade thermometric scale

CORRIGENDUM

p 253 Ristocetin 'The final sentence of the first paragraph should be amended to read

It may be administered by intravenous infusion over a period of 35 to 45 minutes as a 0.2% solution in isotonic saline or dextrose, or by direct intravenous injection over a period of not less than 5 minutes at a concentration not exceeding 1 g m 40 ml⁴.

ANALYTICAL ADDENDA

Fxtra Pharmacopœia Vol II 23rd Edn pp 1-146

This section includes information on substances added to the British Pharmacopena the British Pharmaceuteal Codex and the British Veterinary Codex since the publication of the Wienty third ed iton of the Exiter Pharmacope a Volume 11 Biref extracts of scientific papers are given as a guide to recern therature. The subsections on habiturizes and subphonamides have been revised to take account of the new methods of assay included in the British Pharmacopeus 1958

In appropriate instances abstracts of papers on the determination of drugs and their metabolites in body fluids and tissues are included supplementing to a limited extent the information in the section on Climical Biochemistry (Vol 11 23rd Edn p 1099)

ACETAZOLAMIDE

Acetazolamide (BP) C₁H₂O₃N₄S₂=222 3 It contains at least 99 0 per cent of scetazolamide calculated with reference to the dired substance determined spectrophotometrically the loss on drying at 105' is not more than 0 5 per cent

DETERMINATION Accessolamude may be determined by prec p tation with aiver nutrate in ammoniacal solution and back thration of the excess of aiver nutrate after filtration This method can be appled to tablets —P M Parkh and S P Mikhenj Indian J Pharm 1958 20 179 per Analyi Abitr 1959 6 1911

Tablets of Acetazolamide (BP) Each tablet contains 92 5 to 107 5 per cent of the stated amount of acetazolamide determined by a method similar to that of the BP for acetazolamide

ACINITRAZOLE

Accusitrazole (B Ver C Supp.) C₂H₂O₂N₅=187.2 It contains 98 to the eguwalent of 1010 per cent of a samitrazole calculated with reference to the dried substance based on its nutrogen coulent deter musel by the Kyddahi method he loss on drying at 105° is not more than 10 per cent A 1 cm layer of a 0 001 per cent w/w solution in alcohol (95 per cent) exhibit a characteristic lapkit absorption having maxima at about 235 mµ and 341 mµ and a musimum at about 275 mµ the ex tinction of the solution at 3441 mµ as about 0 59

DETERMINATION Folsrographic determinations may be performed in a solution of potassium chlor de in aqueous slochol with the add t on of gelstin at concentrations down to about 10 M—A Danek and M Eckstein Acta polon pharm 1959 16 13

ADRENALINE

Extra Pharmacopena Vol 11 23td Edn p 13

Injection of Noradrenaline (BPC) The solution contans 0.18 to 0.21 per cent w/v of noradrenaline acid tartrate (monohydrate) determined spectrophotometrically

AMINOMETRADINE

Aminometradine (B.P.C.) $C_{s}H_{13}O_{4}N_{8}=1952$ It contains 980 to the equivalent of 1020 per cent of aminometradine based on its nitrogen content dietermined by the Kyeldahl method

AMINOSALICYLATES

Extra Pharmacopæra Vol II, 23rd Edn p 39

Cachets of Sodium Aminosalicylate (B P C) Each cachet contains 90 0 to 110 0 per cent of the stated amount of sodium aminosalicylate (calculated as dihydrate) determined bromometrically

AMIPHENAZOLE

Amiphenazole Hydrochloride (BPC) C₄H₁₈N₃SCl=227 7 It contains 99 0 to the equivalent of 101 0 per cent of amiphenazole hydrochloride, based on its nitrogen content determined by the Kjeldahl method

STABILITY OF SOLUTIONS In squeous solution between pH 3 and 6 smiphens role undergors hydrolys a with the formation of 2 smino-hydroxy 3 phenyl thazede and a mamonium sult A spectrophotometric method for determinat on of the decomposit on products is described —J H Sorensen Dank Tulsky Form 1939 30 61

DETERMINATION Anuphenazole may be determined by precipitation with ammonium reincikate the precipitate being dissolved in scetone and the extinction of the solution being measured at 525 mµ -P Lundgren J Phorm Pharmacol 1936 8 185

ANTAZOLINE and Other Substituted Jminazolines Extra Pharmacongra Vol II 23rd Edn p 43

Antazoline Methanesulphonate (B P C) $C_{13}H_{10}O_{15}N_{5} = 361 5$ if contains st least 98 0 per cent of antazoline methanesulphonate calculated with reference to the dred substance determined acid metnesuly on the extracted base the loss on dryng *m* tarue over phosblorus pentovade is not more than 2.5 per cent

DETERMINATION Antazol ne may be precipitated with bismuth potassium tod de at pH 12 to 15 and the excess of regent determined complexometrically - B Budešinský and E Vaničková Cil Farm 1956 5 77 per Analyt Abirr 1958 5 225

Antazoline hydrochloride may be determined colorimetrically (at 565 ma) after treatment with an alkaline solution of sod urn n tropruss de -5 C. Slack and W J Mider J Amer pharm Ass Sar Edn 1957 467 742

Naphazoline Hydrochloride (B P Add) (Vol. 11 23rd Fdn p. 43) $C_{14}H_{11}N_{Cl}$ 2467 11 contains at least 98 5 per cent of naphazol ne hydrochloride calculated with reference to the dried substance de termined acdimetrically on the extracted base the loss on drying at 105° is not more than 0.5 per cent

DETERMINATION Naphazoline and its hydrolytic degradation products may be determined apectrophotometrically after chromatograph e separation—VI A Schwartz et al. J Amer phane Ass Sec Edin 1956 45 814 A mond festion of the elution procedure is described—M J Stern Drug Stand 1958 26 158

ANTIMONY

Extra Pharmacopana Vol II, 23rd Edn, p 43

Sodium Antimonylgluconate (BP) It contains 33 0 to 38 0 per cent of total antimony, of which at least 95 0 per cent consists of trivalent antimony Total antimony is determined isodometrically and trivalent antimony is determined polarographically

BACITRACIN

Bacitracin (B P) One or more of the antimicrobial polypepides produced by certain strains of Bacollis lichenforms and by B subility var Trays and yielding on hydrolysis the annin-exist i-cystene, b glutamic acid, t-histidine, t-isoleucine, t-leucine, t lysine, D omithine, o phenylalismic, and DL-asparite acid It contains at least 50 units per mg, determined by the BP method for the assay of antibiotics, the limits of error (Per-95) are 50 to 125 per cent

DETERMINATION. Slaphylococcus subflarus (ATCC 7468) may be substituted for Microtoccus florus (ATCC 10240) in the cup plate assay to improve precision. The same organism is used in a more sensitive method applicable to biological fluids - J Winer et al. Annibot and Chemother, 1957, 7 542

Mixtures of bactiteau, and neowycin can be assayed after separation with alcohol, which dissolver bactereau but not neowycin sulphate The alcoholobible and alcohol insoluble fractions are sasayed microbiologically —J Lingnau and G Nitchel Sci pharm (Wen) 1955, 25 234 Brana of Microsocur factous and Sacrana later ersistant to dihydrostrepto

Sirana of Microsoccus flows and Soccan latter resistant to dihydrostrepto mycan have been developed for the determination of bactracia in the presence of dihydrostreptomycin in preparations and body fluids --S Friedman and A. Kirahbaum Antibiot and Chemother, 1954 4 2126

A method of determining basimens and other antibiotics in milk, based on their ability to inhibit reduction of nurrate to mitrite by Staphylosoccus surreus is described -L. R. Mattick, Dessert Abstr., 1955, J5, 1, per Analyt Abstr., 1955 2, 2223

BARBITONE

Extra Pharmacoperia Vol II, 23rd Edn, p 55

The BP 1958 describes under Amylobarbitone a method of assay for birbituric acid derivatives by titration with lithium methoxide in dimethylformanide

Detection and Identification of Barbituric Acid Derivatives

See also under inditidual barbiturates

COLOUR REACTION: The use of alcoholic pyridme under ultravolet radiation in a spot test for the detection of barbatric acid and A-thobarbatrurs acid is described—II Frystag, Z and Chen 1954, 142, 12, per Analyt Abtr 1954 1, 2215 Identification of many Barbatrurs acid determines by acidour reactions with Parlia, Pharm. Acta Bitlet, 1, 1954, 29, 200 Detection of Barbatrurs to the obmarts in alcoholet acid the state of the state of the state of the state Acidou reaction. A state of the state of the state of the state of the state Acidou reaction with sodium hydroxade, dimethylgroxime and those acidous a state of the state of the state of the state of the state reactions with worling and adaptive and is described—M. A Robler, Pharm for the state of the reactions with worling and adaptive and is described—M. A Robler, Pharm is detection of the real-barbatrue and those the state of the state is described—If M. Roman, Read is described—M. A. Robler, Pharm is detection of the real-barbatrue and those the state of the state is described—If M. Roman, Starm Reads (1977, 92, 397 Methods for the detection of molecular the real-barbatrue and those the state of the state of the real-field and the real-barbatrue and those the state of the state of the real-field and the real-barbatrue and those the state of the state of the real-field and the real-barbatrue and theorem and pharm. See Moone Market Mines and Market Yenemias and Jacone See Moone

Invite ADM METHODS Absorption spectra of harbuture, acid dervatives and their copper-provides complexes are used for identification purposes.— Leve and C. E. Hubley, Analy Chem. 1956, 24, 1991 Simularly, infar aci appears of a nutrolearyl dervatives may be used.— I. C. Chatter and L. Leve, Appl Methaneopy, 1953, 14, 177, per Analy Abre, 1998, 5, 1130 Holyand C. Chem & Analy 1993, 461

X-avy Dirraction Mirricola Dan for alloburbinors and f ally Larity. burbance and are given — Hits and B. Jeriely, Davit Judie Form 1933, 25, 11 Data for 5-allyl 5 ethylkarbiane and sprohubital, burbanen and cyclobarbine are given — E J Hansen and B Jerniev, Davit Tuduk Form, 1954 28, 220 Data for several barburnits are given.—W. G Penprate and J A Blas J Amer pharm And: Soc Edin, 1955, 47, 583 tud, 1953, 47, 232 Diffraction patterni for 20 55 disuburbant barbanes and a set given — William Analy Chem, 2907, 31, 140 Daticiton far for patholena J M Manson, Appl Spectroscopy, 1959, 13, 34, per Analy Abur, 1959, 6, 1942

Chronoutron there is a general for phenolashione, builbartstone sanylobarbuone pernbarbuone and quantilabritone in a paper chromitographa method uning 05 Mi softum carbonates at the tationary soli ari ethylare dialonate il control and and analysis and and and and and and the software in the software of the software of the software in the software is and and and and and and and and and method of identifying brothumes in some a chromately and and units from unne and their identification as chromately and tracks in a paper chromatographic system, unserver, blar tracks in a spare chromatographic system, unserver, blar blorostom, and ammonia solution -R. Denmarer, Annual Michael and Statistica 5, 472 A paper chromatographic system, unserver, and and 5, 473 A paper chromatographic system. - Annual Michael and Intertion 1985, 353, per André Jahor 1955, 3, 1148 A colour restor for the term in Statistica and the sources of the software in forther software in a software 1986, 353, per André Jahor 1955, 3, 1148 A colour restor for the detection of \$ bromallylbarbiturates on paper chromatograms is described --A S Curry, Acta pharm tax, Kbh, 1957, 13, 357 A method for the separation of barbiturates from benzoic acid and some phenolic compounds by paper chrometography is described —M Schmall et al., Analy Chem, 1937, 29, 791 A rapid paper chromatographic method for detection of 10 to 25 µg of a barbiturate is described —P Rebyeld Pharm Werkbl, 1957, 92, 621 Toxicological analysis of urine by extraction and paper chromatography is described -- I Baumler, Mitt Lebensm Hyr. Bern. 1957, 48, 135, pet Analyt Abstr. 1958. 5. 969 Barbiturates are separated on paper impregnated with potassium hitrate, using a pyridine water-animonia solvent system the harbiturate being intrate, using a pyrionic water-annound Solvent system the baroinizate being detected by addition of chlorine to the anode group -G. Rentsch, Naturns: renchoften, 1958, 45, 314, per Analyt. Abur, 1959, 6, 2315 A method of detecting barbitrates on chromatograms is described 1-alkyl dervatives do not reset in thu test $-V_{\perp}$ Jok and E Jametková, Cúl Farm, 1958, 7, 39, per Analyt Abstr. 1959 6 2314 Solvent systems for the senaration of harbiturates. thiobarbiturstes, phenytoin, and bromacylureasare suggested -Hisao Tsukamoto and Minoru Yoshimura J pharm Soc Japan, 1958, 78, 23 A method suitable for detection of barbiturates in material extracted from viscera is described ---Swarup Narain Tewari and Dharam Narain Tripathi, Z anal, Chem., 1959, 168 86, per Analyi Abstr., 1960, 7–719 Rg values are given for 18 barbiturates using butanol saturated with SN squeous summonia solution — R. Hilf et al., J. Lab chn. Med., 1959–54, 320 Barbiturates and their unsary metabolites gnay be detected and characterized by paper chromatography using a butanolchloroform-squeous ammonia solvent system -H H Frey et al , Arzneimittel-Forsch , 1959, 9, 294

Determination of Barbituric Acid Derivatives See also under individual barbiturates

Vocturerne Mernicos, An scienciente method is described by W Poethie and D Horn, Arch Pharm, Berl 1984, 237 437, est Analy J Asir, 1955, 2, 1980 Non aqueous utraticos are described in the following papers. Inhum meth-Berl 1984, 45, 658, sodium methods and bearten-methyl felocil for pentobarbitone allokarbitones and anyloberitones—Takanobu lits and Takuma Dis. Bull not Hig. Lob. Topic 1995, 137 per Analyl Abir. 1957, 4, 2085, and NE Fors, J Amer pharm Au, Sen Edv. 1955, 46, 2085, 550, per Analyl Abir. J 1978, 5, 218, pottssum kydroxide and chloroform methanol — L. G. Germandes—en J Vacek and J. Iskisnar, Cl. Herrer, 1955, 6, 500, per Analyl Abir, 1978, 5, 218, pottssum kydroxide and chloroform methanol — L. G. Germandes—en J W Goldman and D F Dodgen, Darg Sandar 1959, 49, 2185, sodum bydroxide, after tratment wha bater intrate in pyridine—J A Gentier et al., Am Apart Franz, 1985, 16, 625 testabutylaminomium hydroxide, and herrer ford, 1985, 18, 237 herrer and H I Blake. Amer J Marin Art, S. E. Edw. 1959, 45, 359 An andiam monochloride method studiels for herristioned on exchange)—a. C. Yancent and H I Blake. Amer pharm Art, Six Edw. 1955, 6, 321 senteme the and H I Blake. J Amer pharm Art, Six Edw. 1958, 54, 359 An andiam monochloride method studiels for heristionistic and the 1955 Amer and H I Blake. J Amer pharm Art, Six Edw. 1955, 6, 321 per Amerika. Albert and H I Blake J. Amer pharm Art, Six Edw. 1955, 6, 321 per Amerika. New Marin, 1957, 12, 415, per Analyl. Abirt. 1958, 56 Compound constraints on all the restormand the science of the science of the Amerika. New Marin, 1957, 12, 415, per Analyl. Abirt. 1958, 56 Compound constraints on a Marm. 1956, 11, 466, per Analyl. Abirt. 1957, 4, 165 per Analyl. Abirt. 1957, 4, 165 per Analyl. Abirt. 1957, 6, 321 per Analyl. Abirt. 1957, 6, 321 per Analyl. Abirt. 1956, 11, 466, per Analyl. Abirt. 1957, 4, 165 per Analyl. Abirt. 1958, 56 127 per Analyl. Abirt. 1957, 6, 321 per Analyl. Abirt. 1958, 56 127 per Analyl. Abirt. 1957, 6, 165 per Analyl. Abirt. 1958, 56 12

COLONVERTEC METRODE The coholisingume reaction has been investigated – H Nuppenau, Daniek Tadaka, 1954, 25, 194 The barbiturate is precipitated with mercury and the mera, semical colonmetically with dubtions – E. Piel and H J Goldbach, Hoppenau C, 1955, 201, 263, a semilar method is described – C O Björing et al. Acta chem scami, 1958, 151, 1169 and J Pharm Pharmacel, 1959, 11, 297.

SPECTROPHOTOVATIUE MArginess A compound present in here interfaces in the ultraviolet petterphotometeric determination, its detection and elimination in determent of the petterphotometer is detection and elimination matter reto-recording spectrophotometer is detection and williams and 1950, 53, 156 per dauly 1 db, 1791, A Williams et al., J Leb day May, 1959, 53, 156 per dauly 1 db, 1791, A Williams et al., J Leb day May, 1959, 53, 156 per dauly 1 db, 1791, A Williams et al., J Leb day May, 1959, 53, 156 per dauly 1 db, 1791, A Williams et al., J Leb day May, 1959, 53, 156 per dauly 1 db, 1791, A Williams et al., J Leb day May, 1959, 53, 156 per dauly 1 db, 4793, 1794, A Williams et al., J Leb day May, 1959, 53, 156 per dauly 1 db, 1958, 1959, 1

POLAROGRAPHIC METHOD Polarographic determination of theobarbiturates is discussed — P Zuman, Chem Letty, 1954, 48, 1006 and 1020, per Analyi Abir, 1955, 4, 2212 and 2849

Toy Excitives MERIODS: Barbanases were quantitatively adverbed from alcohola solutions on Amberian REA400 and Lewith NIN and duted with 0.2M sectus and -A junks and F Balks. Cit Form, 1937, 6, 148, per AdaM, 1937, 1938, 1937, A method wung Amberlage RI:101 to described -E B ungs non exchange and spectrophonometry described with the sector of the

ELECTROPHORESIS Cyclohexenyl and cycloheptenyl derivatives can be separated from other derivatives of barburne seid - A Calo' et al, RC Int rap Santi, 1957, 20, 811, per Analyr Abtr, 1959, 6, 4144.

Warman, Marianas, Mikao Jaway, Jawa, Taya, Wai Yu, Yu compared - Takanoba Univergi. Teromanely, and Universe here necessary recompared - Taknoba Univergi. Teromanely, and Universe Las. Tokyo 1955, 131, per Asaly Abir, 1957, 4 2065 Gravmenne, volumetre, and apercophotometers methods are desenbed – F. A. Rotondaro, J. Ar. off ograc Chem., Wark, 1955, 38, 809 Volumetric methods for the determination of hadriturate in platmic curical mentures are desenbed – G. A. Vasimia and L. J. Rupport. J. M. Mon. 1954, 3, J. Vanous methods are reneed – JI te al. Ann. Platm. Forst, 1956, J. J. Stand, arXiv, 53, 266, and C. Samuer et al. Ann. Platm. Forst, 1956, J. J. Stand, arXiv, 1957, 54, 2006. Compared to Samuer

Derzmy variov in Thisto, are Biological. Filing Barburatte are separated by paper chromotography and determed by oxillopolarizethy, the error being \pm 10 per characteristic 3003 Barburattes are identical anticetaristic and the set of the set

Barbitone (B P C) (Vol II 23rd Edn, p 55) $C_{s}H_{1s}O_{s}N_{s}=184$ 2 It contains 98 0 to the equivalent of 101 0 per cent of barbitone, determined by a method similar to that of the B P for barbitume seid den vatures (see above p 3)

DETERMINATION Potentiamentia intration with solver nutrate is described The error is less than ± 1.2 per cent -3.4 M. Perel nam, *Linur anal Khmu* 1936 11 241 per Analys Akur 1956 3 3752 Ultravolet absorption spectra of decomposition products were musetigated. The interference in the determination of barbitone at 260 ma is negligible —G R Jackson Jr et al, Analys Chem 193-4 26 1661

Mixtures with athidopyrme may be analysed by the Kofler micro refracto inetric method — A Sekera and J Pokorný Mikrod un Acta 1957 103 per Analyt Abitr 1957 A 3107

DETERMINATION IN SERUM A method of extraction and spectrophotometric determination is described. Recoveries of 80 to 110 per cent are reported — R Askevold and F Loken Scand J clin Lab Intest 1956 δ 1

Allobarbitone (B P C) (Vol 11, 23rd Edn p 58) $C_{10}H_{11}O_8N_{2}=$ 208 2 It contains 93 0 to the equivalent of 101 0 per cent of allobarbitone, determined by a method similar to that of the B P for barbituric acid derivatives (see above p 3)

DETERMINATION Mixtures with smidopyrine may be analysed by the Koffer mucro refractometric method -A Sekera and J Pokorný Mikrochim Acta, 1957 103 per Analyt Abir 1957 4 3107

Amylobarbitone (B P) (Vol 11 23rd Edn, p 58) $C_{11}H_{16}O_4N_4 =$ 226 3 It contains 98 5 to the equivalent of 101 0 per cent of amylobar binone, exclusited with reference to the draved substance, determined by the B P method for barbiture and derivatives (see above p 3) the loss on drying at 105° is not more than 1 0 per cent.

IDENTIFICATION The melting points general properties and reactions of amylobarbione and other naccours are given —] Baumler Milt Lobring Ng Bern 1955 46 431 per Analyr Abitri 1935 3 1636 Separation of amylobarbione from pentobarbione and subsequent identification is de scribed —E. C. Brocher Analyr 1957 82 443

DETERMINATION 14 THE PRESENCE OF QUTNALBARBITONE Total barbiturate is determined spectrophotometrically and quinalbarbitone bromometrically Recovenes of 95 7 to 109 3 per cent are reported --G E Keppel J Ass off agric Chem Wash 1953 36 725

Amytobarbione Sodium (B P Add) (Vol II, 22rd Edn p S8) $C_{\rm H}H_{\rm O}N_{\rm N}n = 248$ 31 ic contants 98 5 to the equivalent of 101 0 per cent of amylobarbione sodium calculated with reference to the dred substance, determined by the B P nethod for barbione sodium, each g of residue is equivalent to 1097 g of $C_{\rm H}H_{\rm H}O_{\rm s}N_{\rm s}N_{\rm s}$ the loss on dying at 130° is not more than 50 per cent

Capsules of Amylobarbutone Sodium (BP Add) Each capsule contains 92 5 to 107 5 per cent of the stated amount of amylobarbutone sodium, determined by the BP method for Tablets of Barbitone Sodium

Injection of Amylobarbitone (B P Add) In the scaled container is dry powder containing 98 5 to 101 0 per cent of the stated amount of amylobarbitone sodium calculated with reference to the dired substance, distimuted by size D.P. Anothed for amylobarbitone sodium

Tablets of Amylobarbitone Sodium (BP Add) Each tablet contains 92 5 to 107 5 per cent of the stated amount of amylobarbitone sodium, determined by the B.P method for Tablets of Barbitone Sodium

Butobarbitone (BP) (Vol II 23rd Edn p 58) C10H14O1N2=212 3 It contains 98 5 to the equivalent of 101 0 per cent of butobarh tone calculated with reference to the dried substance determined by the RP method for barbituric ac d derivat ves (see above p 3) the loss on drying at 105° is not more than 1 0 per cent

Cyclobarbitone (B P) (Vol II 23rd Edn p 58) C12H14O4N2=236 3 It contains 98 5 to the equi alent of 101 0 per cent of cyclobarbitone calculated with reference to the dried substance determined by the B P method for barb turne ac d derivatives (see above p 3) the loss on drying at 105° is not more than 0 5 per cent

Hexobarbitone (BPC) (Vol II 23rd Edn p 59) C11H101 -236 3 It contains 98 0 to the equivalent of 101 0 per cent of herobarbitone determined by a method similar to that of the BP for bar b turic acid derivatives (see above n 3)

DETER. INATION Hexobarb tone may be determ ned by argent metric t tration with careful control of cond nons such as pH-G Vastagh and E Szabolcs Argneimittel Forsch 1958 8 355

Methylphenobarbitone (BPC) (Vol II 23rd Edn p 59) C18H14O2N2=246 3 It contains 98 0 to the equivalent of 101 0 per cent of methylphenobarbitone determined by a method similar to that of the B.P for barbituric acid derivatives (see above p 3)

IDENTIFICATION The detection of methylphenobarb tone in adm sture with hexobarb tone by X ray analys s descr bed — E. J. Hansen and B. Jerslev Dank Tude ke Farm 1953 27 265

Identification with cobalt accust and ammon a is descr bed --H M Rom n Pharm II eehbl 1959 94 102

DETERS INATION Methylohenobarb tone alone or in admixture with pheno barb tone can be determined by prec p tat on with sod um cobalun tr te-M Kranjčev č Croat Chrm Acta 1958 30 53 per Analyt Abstr 1958 5 3506

Phenobarbstone (B P) (Vol II 23rd Edn p 60) C1.H1.O.N.=2322 It contains 98 5 to the equivalent of 101 0 per cent of phenobarb tone calculated with reference to the dried substance determined by the B.P method for barb turse ac d derivatives (see above p 3) the loss on drying at 105° is not more than 1 0 per cent

METABOLITES Detection of a uninary metabol te of phenobarb tone is deteribed -A S Curry J Pharm Pharmacol 1955 7 604

DETERMINATION A potent ometric 1 ira on a chloroform with sod um tnethox de is recommended for the analys of solutions conta ann macrogel 400 -] Aut an and B F Allen Drug Stand 1954 2? 164

A notentrometric titration with a lyer n rate a described The n ethod may As purcounserve sustains while here n rate is described. The nethod may be appled to solutions elixs is tablets and capable and it a socurite to with ± 0.3 per cent-J I Bod n J Amer pharm In: Ser Edn 1956 dJ 185 A spectrophormetic method apple cable to tablet, el lins and capable with ephedrine subplate is described - L. N. Litton J Amer pharm A Ser Edn 194 J 22.

By Lan 1757 40 44 By the use of the rad out e so ope ⁸⁸³ Hg 12 5 µ, may le determ ned w han 7 per cent or 1 µg w th n 25 per cent — V P koll and J F Clr stian J 4mer pharm 4 r Ser Edn 1956 J5 673

A colorn erric e hod us ng cobal n trate with is applicable to the analyse of ayrups po viders and p H is described — N is ameno a and J Atracheva Anach Trid I VII Sofia 1558 5 133 per dinalit A br I_1 1690 7 2434.

A rap d nephelometric method us ng mercure perchlorate is described A quant ty of 0 1 to 0 35 mg of phenobarb tone may be detern ned with an

error not greater than ± 4 per cent — K kalmowski and H Baran, Acia polon pharm 19-8 15 327 per Analyt Abtr 19-9 6 2316 Viastures with amudopynne may be analysed by the Koller nucro refracto metric method — A Sekera and J Pokomy Mikrocham Acta 1957 103 per Analyt Abtri 1957 4 3107

Phenobarbitone may be determined by argentimetric t tration with careful control of condit one such as pH-G Vastagh and E Szabolcs Argneimittel Fortch 1938 8 355

SEPARATION FROM PHENYTOIN A paper chromatographic method is described --A S Curry Analyst 1955 80 902. A method of separation and ultraviolet spectrophotometric determination appl cable to blood samples is described --G L Plas and C H H ne J Lab chn Med 1956 47 649 A chromatographic separation and spectrophotometric determination is described. The mean recovery of phenobarbitone from capsules was 106 7 per cent - 1 L Lach et al J Amer pharm Asr Sci Edn 1958 47 48

Tablets of Belladonna and Phenobarbitons (B.P.C.) Each tablet contains 0 045 to 0 052 g of phenobarbitone determined by extracting an acidified solution containing sodium chloride with ether and weighing the dried extracted phenobarbitone

BEMEGRIDE

Bemegride (BP Add) C.H.O.N=1552 It contains at least 99 0 per cent of bemegride based on its nitrogen content determined by the Kieldahl method

DETERMINATION A sample is dissolved in sodium hydroxide solution d luted and titrated with alver nitrate -- E Szabolca and G Vastach Pharm Zentralh 1959 98 410

DETERMINATION IN BLOOD Bemegrade may be extracted by shaking hepari nised blood with chloroform. The determ nation is completed by extracting the chloroform with 0.04% sodium hydroxide solution at 0° and measuring the extinction at 230 mµ -b. W Anderson J Pharm Pharmacol 1958 10 242

Injection of Bernesride (BP Add) This solution contains 0 48 to 0.52 per cent of bemegride determined by the BP method for bemegnide

Bemegride Sodium (B Vet C Supp) C.H.O.NNa=177 2 It contains at least 99 0 per cent of bemegride sodium based on its nitrogen content determined by the Kieldahl method A 50 per cent w/v solution in carbon dioxide free water is clear and colourless or almost colourless and has a pH of 11 0 to 12 0

Injection of Bemegride Sodium (B Vet C Supp) In the sealed container is dry powder containing 94 0 to 105 0 per cent of the stated amount of bemegride sodium determined by the B Vet C method for bemerride sodium

BENACTYZINE

Benactyzine Hydrochloride (BPC) CinHaO, NCl=363 9 It contains 99 0 to the equivalent of 102 0 per cent of benactyzine hydro chloride determined by triration with perchloric acid in glacial acetic acid

ITESTIFICATION ANI DIFFERMINATION Benactyz ne hydrochloride i iav be ide i field by its ultraviolet al sorption spectrum and determ ned by hydrolysing vith sodium hydrox de fill ved by stea dist flat on and titration filhe result ing d ethylam n sethanol w th a id Benactyz ne hydrocl londe in powder or in tablets may be determined spectrophot metrically at 258 5 mu after extracting to remove free benz lic ac d and other sources of irrelevant absorption --]] Jellines and [] Thill ps J Plarm Plarmarol 1956 8 907

BEPHENIUM

Bephenium Embonate (B Vet C Supp) C₅₇H₃₅O₈N₂ H₃O=917 1 It contains at least 98 0 per cent of bephenium embonate monohydrate determined by the following method

Add about 1 g to 50 ml of glacual acette acid Without waiting for complete solution titrate with N/10 perchlores acette acid using 0 2 ml of 0 5 per cent w/v solution of crystal violet in glacual acette acid as indicator. Each ml of N/10 perchlore acette acid is equivalent to 0 04553 g of behavium embonate

The melting point is 152° to 156° The base may be identified by preparation of the picrate (melting point about [34° with decomposition) When examined in filtered ultraviolet radiation, beptenum emboarts exhibits a yellow fluorescence, distinguishing this compound from beptenium hydrozynaphtholate which gives a green fluorescence.

BISMUTH

Extra Pharmacopæta Vol II, 23rd Edn, p 73

Bismuth Glycollylarsanitiste (B P C) (Vol II, 2]rd Edn p 73) C,H;Q:NShi =4991 It contains 960 to the equivalent of 1030 per cent of bismuth glycollylarsaniste, 14 0 to 15 0 per cent of strenne, Ag and 38 0 to 425 per cent of bismuth, Br al clacklast dwith reference in the drade aubstance, the loss on drying at 105° is not more than 30 per cent Biumuth glycollylarsaniste is determined turnetreneally with sodium nitities after a preliminary refluxing with hydrochlorie seid, arsens is determined usonetricolly after preliminary digestion to destroy organic matter and bismuth is determined gravineticnelly is the bhombate sitter preliminary digestion with interna acid

BUSULPHAN

Busulphan (BP Add) $C_sH_1O_sS_s=246$ 3 It contains at least 98 5 per cent of busulphan calculated with reference to the dried aubstance, determined utimetrically with N/10 sodum hydroxide after refluxing with water, the loss on drying at 60° under reduced pressure is not more than 20 per cent.

Tablets of Busidphan (BP Add) Each tablet contains 90 0 to 110 0 per cent of the stated amount of busulphan, based on the sulphur content, determined by extraction with acctone and wet combustion with nitre acid

CALCINED MAGNESITE

Calcined Magnesite (B Vet C Supp) It contains at least 85 0 per cent of magnesium oxide (MgO=40 32) determined by the following method

To about 0.5 g add 25 ml of blune hydrothance and, bud until a clear solution is obtained continue to bud for a further 3 minutes cool and dilute to 250 ml with water To 25 ml add 10 ml of announs buffer solution (an monum chloride 13 5 g attrong solution of annous 116 ml water to 200 ml?) and turnate with M/20 sodium edetate using 0.5 ml of solution of Solochrome Black as indicator. From the quantity of M/20 sodium edetate used subtract one quarter of the volume used in the determination of calcium each ml of M/20sodium edetate is equivalent to 0.002016g of M_QO

It contains not more than 2.5 per cent of calcium (calculated as CaO), determined by the following method

Neutralise 100 ml of the dubted solution in hydrochlorie acid prepared in the away for magnetium ortide (shove) with N/1 potassium hydroxide using litmus paper as indicator add 15 ml of distrivitamine 50 ml of water and 03 ml of calcon indicator solution and thrate with M/20 solution edetate. Each ml of M/20 solution relates as equivalent to 0.002204 g of CaO

It contains not more than 50 p p m of lead and not more than 250 p p m of fluoride. The loss on ignition is not more than 8.0 per cent

DEFERMINATION FOr material containing alice a sample is heated with perchlore acid and the sities filtered off and weighed Calcium and magnesium are determined in the filtrate by methods sumfare to those of the B Vet C Supp (above) --F Hobson and W H Stephenson Analysi 1959 84 520 Sities is removed and calcium determined with adquim detoire at pH 12 by

Siles is removed and calcum determined with sodium edente at pH 12 by using morecade as indicator and titrating to blue nodet. Magnessum is deter mined by titration with sodium edetate to the blue colour of knochrome Black T indicator —K. Izáková Chem Zeesti 1957 11 205 per Analys Abitr 1938 5 2127

CAPSICUM

Extra Pharmacopæia Vol II, 23rd Edn p 97

DETENSIONATION OF THE CAPARICHI CONTENT CAPAUGIN IS EXTERCIS from Capatium and Lis pharmaceutani preparationa scher charonatographically or thy an other alkels partition extraction procedure and the determination is completed spectrophotometrically or colorametrically with disablementivilyhous keid The most consisted results were reported when using a spectrophotometric difference method — Report of the John Committe of the Pharma of Crude Druty Ausjar 1959 84 603 The following method for the assay of Crude Druty Ausjar 1959 84 603 The following method for the assay

Reduce a sufficient quantity of capsicum to No 30 powder and mix thake about 15 g with 80 mi of alcohol (95 per cent) for 6 hours and allow to stand for 18 hours Filter through a sintered glass filter (grade 1) washing the residue with 20 ml of alcohol (95 per cent) and delute the mixed filtrate and washings to 100 ml. To 10 ml add 15 ml of alcohol (95 per cent) 15 ml of water 2 g of sodium chloride and 5 ml of N/10 sodium hydroxide max and extract with 3 successive portions each of 10 ml of light petroleum (b p 80°-100°) Run off the light petroleum extracts into a second separator containing 10 ml of alcohol (60 per cent) shake allow to separate and reject the light petroleum I dier the mixed alcoholic extract and washings through cotton wool washing the filter with 10 ml of alcohol (60 per cent) evaporate off the alcohol on a water bath dilute to about 50 ml with water and adjust to pH 7 S with N/10 hydrochloric acid using phenol red solution as indicator Extract with 6 successive portions each of 20 ml of anarsthetic ether wash the mixed extracts with 10 ml of water and reject the washings add 20 ml of dehydrated methyl alcohol evaporate almost to dryness on a water bath in a fume cupboard dilute to 100 ml with dehydrated methyl alcohol add 0 1 g of decolorising charcoal to too ministri derivates include accord add of go of accounting charcos stake and filter through a hardened line grade filter appet rejecting the first 20 ml of filtrate To 20 ml of this solution add exactly S ml of N/10 solution hydroxide and diute to 25 ml with defrydrated methyl actobel to 25 ml with defry-drated methyl alcohol Messare the exametion of the allotine solution against the acid solution at the maxima at about 248 ma and calculate the percentage of capsuin from the data E (1 per cent 1 cm) 248 ma = 308 and E (1 per cent 1 cm) 294 ma = 116 1f the two results so obtained differ by less than 10 per cent the assay is valid and the result is calculated from the extinction at the maximum at about 294 ma.

CARBIMAZOLE

Carbimazole (BP) C₁H₂₈O₄N₃S-186 2 It contains 98 0 to the equivalent of 102 0 per cent of cirbimazole determined spectrophotometrically

DETERMINATION A colorimetric procedure using 2.6 dichloroquinonechlora nune is described — R. A. McAllister J. Pharma Pharmacol, 1955. 7, 135

Tablets of Carbimazole (BP) Each tablet contains 900 to 1100 per cent of the stated amount of carbimazole determined by the BP method for carbimazole

CELLULOSE

Extra Pharmacopona Vol II, 23rd Edn, p 104

Methylce Ilulose 20 (*B.P.C*) It contains 27 0 to 29 0 per cent of CH₂O₂ calculated with reference to the drad substance, determined by the *B.P* method for the determination of methors) or a should 00 Sg of methylcellulose 20 and with a 25 per cent solution of sodium sectate in the scrubber, the loss on drying at 105's is 8 0 to 10 0 per cent The viscosity determined in a 2 0 per cent aqueous solution at 20°, is 17 0 to 23 0 centilote

CHILORAL HYDRATE

Extra Pharmacopena Vol II, 23rd Edn, p 106

DISTRIBUTION OF CLUCKEL HIPPART IS MIRTURES AND STREET, A method univoluting reductions with mix and a treatminute intersion of the followed produced based on the method of P AW. Soil (*Pharm J* 10)(1007) (F) initiations and the set of the strength of t

Mixture of Chloral (BPC) It contains 8 60 to 9 60 per cent w/s of chloral hydrate determined by the amended BPC method for Syrup of Chloral (see above)

CHLORAMPHENICOL

Extra Pharmacoperts Vol 11, 23rd Fdn, p 107

DETERMINATION A colorimetric method based on reaction of the hitro-group with tetracthylammonium hydroxide in danethylformismile actione solution is described — F M Freetain Analyti 1956 81 209

12

An indirect method is based on hydrolysis to (--).frire-2-anno-1-p-nurophenyipropan-1.3-doi and subsequent outdation with periodste Periodier outdaton and a spectrophotometrie method can be used for the detection of the biologically insteine hydrolysis, product in chlotromyhermol---A. Valerti and also been determined by hydrolysis followed by nationetry ---Masstoabi Xagawa and hidrox bindo J horns Sa Japon 1950, 75 99

Chloramphenicol may be determined by hydrolysis followed by removal of dichloraetie acid and hydrochlorae acid and ittration with perchlorae acid and attrate acid A slight modification as required when applying the method to chloramphenicol palmitste —B Salvesen, Medd nork farm Selik, 1938, 20 65

Chloramphenicol in aqueous solution (2 to 50 µg peeml) may be determined by boiling with a 40 per cent solution of addum hydroxide and measuring the intensity of the yellow colour produced —W Doll, Arznemittel Forsch, 1955, 5, 97

Chloramphenicol is reduced with zinc and dilute aulphuric acid and the resulting chloride is determined argentimetrically -G A. Vaisman and M D Kislaya, Apt Delo, 1556, 4, 19

Chloremphenicol may be determined by reduction of the nitro-group followed by reaction with bromme and isodometric titration of the excess of reagent Alternatively chloremphenicol may be bouled with titrations ichloride and the excess titrated with ferric armonium subplate --W Awe and H Stohlmann, Arsementiel Forsch, 1957, 7, 495

Low concentrations of chloramphenicol in blood may be determined colorimetrically after disconsition and coupling --Motohiro Maruyama, Ann Rep Takamine Lab, 1955 7, 158 per Analyt Abtri, 1957, 4, 2297

Data for the separation of chiloramphenicol and its decomposition product Jeannol-Jean introphenylpropane-1,3 diol from pharmaceutical preparations by counter-current technique are given —A Brunzell, J Phorm Pharmacol, 1956, 8 329.

A polarographic technique suitable for estimating chloramphenicol in blood and urine at a concentration of 0 00 mg per ml is described Some decomposition products of chloramphenicol can also be determined polarographically — E Knobloch and E Svitek Coll Czech chem Commun, 1955, 20, 1113

A colorimetric method based on reaction with hydroxylamine and ferric chloride is described - Tautou Athara et al. J pharm Soc Japan 1957, 77, 1318

Interfering substances are removed by paper electrophoresia, and chloramphenicol is determined by messurement of ultraviolet absorption at 278 mm – Tsutou Aubars and Kazio Sato, J Pharm Soc Japan, 1957, 77, 1322

Ear-drops of Chloramphenicol (BPC.) Contain 900 to 1100 per cent of the stated amount of chloramphenicol, determined spectrophotometrically.

DETERMINATION A spectrophotometric method is described for the determination of chloramphenicol in the presence of benzoesine and propylene glycol-Just Yoneda, Ann Rep Takamine Lab., 1957, 9, 87, per Analyt Abit, 1958, 5, 4283

A method for the determination of chlorsimphenicol in the presence of subphonimulas and propriete glycal involving exparition by ion exchange followed by spectrophotometric determination, is deterabed.--G Thomas et al., Pharm Weekkl, 1955, 90 241

Paint of Chloramphenicol and Crystal Violet (B. Vet. C. Supp.) It contains 9.0 to 11.0 per cent w/w of chloramphenicol determined by the following method

Prepare a 0.25 per cent v/v solution of the paint in water, mix a suitable volume with an equal volume of buffer solution pil 4.0 perared by muting 00 mi of N/S section ard with 20 ml of N/S solution accente add 0.1 go f powdered thymol, transfer a quantity to a polyrograph cell which has a mercury pool anode, and bubble oxyrem free autograph, which has previously been passed through water through the solution manufamed at 25°, torul decorporated record a policogram to about - 11 vote corrections the diffusion correct for the result current Prepare a solution by d solving 0 Dg of chloramphen on minut of a choir 00° per certal and dubting with exiting quantices of the buffer the conditions described above, and efficience are record the policy the conditions described above, and efficience are record to the solution in the sample by comparing the diffusion currence of the solution of the sample by comparing the diffusion currence of the solution of the solu

It contains 9.5 to 11.5 per cent w/v of total solids determined by the BP method for total solids

Chloramphenicol Cinnamate (BPC) It contains 98 0 to the equivalent of 102 0 per cent of chloramphenicol cinnamate, determined spectrophotometrically

Chloramphenicol Palmitate (B.P.C) It contains 97 0 to the equivalent of 103 0 per cent of chloramphenicol palmitate determined spectrophotometrically

CHLORHEXIDINE

Chlarhexidine Gluconate Solution (B P Add) 1t contains 19 0 to 21 0 per cent w/v of chlorhexidine gluconate, $C_{14}H_{44}O_{14}N_{16}Cl_{1} \rightarrow 897 8$ determined by titration with perchlone and in glacial acctic acid after evaporating to dryness and dissolving in glacial acctic acid

Chlorheridine Hydrochloride (B P Add) C₁₁H₂₁N₁₅Cl₄=578 4 Is contants at least 97 5 per cent of chlorheridine hydrochloride cal cultated with reference to the dred substance determined by titration with perchlore such an glacul acetic soid, the loss on drying at 130° is not more than 20 per cent

DETERMINATION OF SMALL QUANTITIES IN PHARMACIUTICAL PREPARATIONS Chlorbevidine as freed from esc pients and determ ned colorimetrically with alkaline addium hypohornie the preven takino of base builting prevented by the addition of a surface active agent (cetrumade) —A. Holbrook J Pharm Plarm areo 1958 10 370

Cream of Chlorhexidine (B Vet C Supp) It contains 0.90 to 1 10 per cent of chlorhexidine gluconate determined by the following method

Transfer about 3 g to a separator using 20 ml of water add 10 ml of N-11 hydrachion cashed extract with three successive potentions atch of 23 ml of chlaro form maxing the chloroform extincts an a second separator wash the mixed to the scale daya of the separator of exceed the chloroform extracts and dilute the mixed acid layer and usakings to 100 ml with water Transfer 5 ml of this solution to a 100 ml flask dilute to about 0 ml with water Transfer 5 ml of this solution to a 100 ml flask or 100 ml with water Transfer 5 ml of this solution to a 100 ml flask or 20 ml with water Transfer 5 ml of dilute to a 100 ml flask or 100 ml with water Transfer 5 ml of dilute to a 100 ml flask or 100 ml with water Transfer 5 ml of dilute to a 100 ml flask or 100 ml with water Transfer 5 ml of dilute to a 100 ml flask or 100 ml with water Transfer 5 ml of dilute to a 100 ml flask or 100 ml with water Transfer 5 ml of dilution to the transport that the the dilute to a the solution data the start of the transfer that seached equilibrium add 2 ml of a liabline solution of solution hydro erasely with the maximum and a mm dately measure the ext notion of a 1 cm layer at 450 me stranst water. Repeat when the sample as included and reliabilite the presention flash that but ned when the sample as included and reliabilite the transfer for the chart of the chart water of 24 for chortendume glacomaster.

Pessaries of Chlorherudine (B Let C Supp) Each pessary contains 950 to 1050 per cent of the stated amount of chlorherudine hydrochloride determined by the following method

14

Dissole as completely as possible a quantry of powder equivalent to about 0.2 g of chloritoxime hydroxidored, as 30 ml of water and 10 ml of solution of solution hydroxide extract with three successive portions, each of 50 ml, of chloritoxim, with the combined chloritowine extracts with 10 ml of water and 10 ml of glacal acette acid, and trater with N10 perclikent-scate acid using 1 ml of solution of the difference hereave between the two intributions represents the amount of perclikent to 0.0146 g of $C_{\rm part}/p_{\rm hy}/p_{\rm c}/Q$. Calculate the weight of chloritoxime between the two intributions represents the amount of perclikent to 0.01446 g of $C_{\rm part}/p_{\rm hy}/p_{\rm c}/Q$. Calculate the weight of chloribexidine hydro-chlored external sequelates to 0.01446 g of $C_{\rm part}/p_{\rm hy}/p_{\rm c}/Q$. Calculate the weight of chloribexidine hydro-chlored external sequelates the other of the start of th

The pessaries comply with the following test for disintegration

Take a sample of 5 pessaraes and carry out the following test Drop a pessary into 300 ml of water at 37" contained are a 500-ml ind-on-excel hottle, exsaide, with occasional swrhing and note the time for complete disingeration, the pessary distingerates within 15 munutes All 5 pessaraes should comply with the test if one pessary fails to comply, the test may be repeated using a further 5 pessarae, all of which must comply with the test

CHLORMERODRIN

Chlormerodrin (BPC) C₁H₄Q₁N₂CH₂=357.2 It contains 90 to the equivalent of 102 0 per cent of chlormerodrin, calculated with reference to the drad substance, based on the mercury content determined humanitum thickpants effect preluminary reduction with zinc and dissolution in nitric acid, the loss on drying at 105° is not more than 10 per cent

DETERMINATION IN TABLETS Reduction with sine and intration with am monum thiocyanate is satisfactory for the pure substance but grees low recoverents for tablets constanting a large proportion of excipients Reduction in the presence of free brownie is satisfactory —A Berggren and W Kirsten, J Pharm Pharmacol, 1955, 7, 183

CHLOROTHIAZIDE

Chlorothiazide (BP Add) C₁H₁O₄N₅,Cl=2957 It contains at less 98 0 per cent of chlorothiazide, calculated with reference to the direct substance, determined by turtation with lithum metholde un dimethylformanude, the loss on drying at 105° is not more than 1 0 per cent

DETERMINATION A sample may be dissolved in ethylenediamone and tittated with potassium hydroxide in isopropyl alcohol uning o antroanline as indicator. The standard error is ± 0.4 per cent for the substance and ± 0.47 per cent for tables —Shu-Lang Chang. Alto pharm since, 1959, 7, 295

CHLOROTRIANISENE

Chlorottianisene (BP.C), $C_{12}H_{12}O_4Cl=380$ 9 It contains 98 0 to the equivalent of 103 0 per cent of chlorotranisene, calculated with reference to the dred substance, based on the chlorine content determined by the Stepanow method, the loss on drying at 80° is not more than 10 per cent

CHLORPROMAZINE

Chlorpromazine Hydrochloride (BP) C11H15N1SC11=355 3 It contains 99 0 to the equivalent of 101 0 per cent of chlorpromazine hydrochlonde, calculated with reference to the dried substance, deter mined acidimetrically on the extracted base, the loss on drying at 105" is not more than 1.0 ner cent

Determination

VOLUMETRIC METHODS Determination in pharmaceutical preparations by means of non aqueous titration with perchloric acid is described —J B Milne and L G Chatten J Phorm Pharmacal, 1937, 9, 686

Chlorpromazine may be titrated with ceric aulphate or potassium bromate A red intermediate compound is formed, which is decolorised when oxidation is completed The end point may be determined visually, potentiometrically or by the dead-stop method —G Dusnaký and O Likková chem Zetit 1958 12 213 per Analyt Abirt, 1959, 6 10079 G Dušinský, Pharmazie 1958 13, 478, per Analys Abstr , 1959, 6 2319

Chlorpromazine is precipitated as the insoluble reineckate, which is hydrolysed, and the resulting thiocyanate is converted into the free acid by passing through cation exchange resm (Wafaint F) in the H+ form, and tutrated with alkalı -K Howorka Pharm Zentralh 1958, 97, 374

Chlorpromazine may be precipitated using an excess of standard solution of eadmium iodide in the presence of potassium iodide or hydriodic acid and the excess of cadmium todide in the filtrate determined complexometrically using xylenol orange as indicator -L Przyborowski and L Krówczyński, Chem Anal li arsaw 1959, 4, 59, per Analyt Abstr , 1959, 6, 4951

GRAVINETRIC METHOD A gravimetric determination with tungstosilicie acid is described - I Blažek and Z Steiskal Cul Farm, 1955 4, 246 per Analyt Abstr , 1956, 3 530

COLORIMETRIC METHODS Chlorpromazine may be determined by reaction with phosphoric acid and sodic acid and measurement of the red colour (absorption maximum 526 ma) Barbiturates and rauvolfia alkaloids do not interfere, but phenothuszine derivatives such as promethazine should first be septere, but phenotinatine derivatives such as promitinatine incoula inft be kep-arated by electrophoresis – A Calo et al R C lit sup Samit, 1957, 20, 802 per Analyt Abitr, 1959 6,4152 A colorumetric method using tungstophosphore acid is described—9 Farkas Magyar Kem Felj 1958 64 209, per Analyt Abitr, 1959, 6 1510

A colorimetric method based on reaction with pallsdium chloride is described A modification of this method permits the determination of chlorpromizine in the presence of promazine -L Cavatorta J Pharm Pharmacol, 1959 11 49

POLAROGRAPHIC METHOD A polarographic determination based on precipitation with tungstosilicic acid is described -J Blažek Cil Farm 1956, 5 210 per Analyt Abstr. 1958 5. 252

VARIOUS METHODS The acctone soluble violet complex formed with potassium chromithiocyanate is used in a spectrophotometrie method and a poten-tiometrie titration with silver nitrate Gravimetrie methody using ammonium remeckate are also described -P Space et al, Acad R P R Stud Cercet Chim 1958 6 573 per Analyt Abstr. 1959 6 4576

DETERMINATION IN URINE The difficulty that arises with certain speciment of sulphuric scid (Vol 11, 23rd Edn, p 1322) may be avoided by adding to the sulphuric acid 50 mg of potassium metabisulphite per litre or 2 per cent of alcohol -P Dubost and S Pascall Ann pharm frane, 1955, 13 56

DETERMINATION IN BLOOD CEREMONSPIRAL FLUD AND URANE. Modifications to the method of Dubost and Pascall (Vol II 23rd Edn pp 1204 and 1322) are described - C Citterio and F Matter Law pickat 1957, 20, 189 per Analys Abstr 1958 5 3826

DETERMINATION IN BLOOD AND URINE (Vol 11 23rd Edn pp (204 and 1321) A colorimetric method using ferric nitrate and sulphuric acid is described --11 Leach and W R C Crimman J clas Path, 1956 9, 164, per Analyt Abstr 1956, 3 3139

CHOLINE THEOPHYLLINATE

Cholune Theophyllinate (B.P.C) $C_{12}H_{22}O_2N_4 = 283$ 3 It contains at least 98 5 per cent of cholune theophyllinate, determined by titration with perchloric acid in dioxan

CROTAMITON

Crotamiton (B PC) C₁₃H₁₂ON=203 3 It contains at least 95 0 per cent w/w of crotamiton based on the nitrogen content determined by the Kieldah method

CYCLIZINE

Cyclizine Hydrochloride (BPC) $C_1(H_{12}N_1Cl=302.9)$ It contains at least 980 per cent of cyclizine hydrochloride, calculated with reference to the dired substance, determined by intration with perchlorizen and in glacial acetic acid in beloss on drying at 130° is not more than 10 per cent.

DERRIS

Extra Pharmacopera Vol II 23rd Fdn, p 139

DETERMINATION OF ROTENONE IN LOVCHOCASULE AND DERNIS The following method of assay for rotenone is based on the report of the Lonchocarpus and Derns Panel of the Joint Commutee of the Pharmaceutical Society and the Society for Analytical Chemistry on Methods of Assay of Crude Drugs (Analyti 1939 & 4740)

Reduce a sufficient quantity to No 30 powder and mix shake about 30 g with 300 ml of chloroform for 5 hours allow to stand for 16 hours shake for 30 minutes and filter Evaporate 200 ml of the filtrate to dryness dissolve the residue in 100 ml of a mixture of equal volumes of benzene and solvent ether and transfer to a separator with the aid of 20 ml of the solvent mixture The following extraction procedure must be carried out with care to avoid the formation of intractable emulsions the tendency to emulsify being particularly marked in the earlier stages The operation down to the words 'Immediately add 50 ml of water must be completed within 30 minutes. Cautiously add so mi of a 2 per cent w/v solution of potassium hydroxide in water pouring the solution down the side of the separator mix by gentle rotation and as abon as the liquids have almost completely separated run off the clear part of the aqueous layer into a second separator containing 40 ml of the benzene solvent ether mixture Reneat the extraction using two successive portions each of 50 ml. of a 5 per cent w/v potassium hydroxide solution mixing gently with the first portion and shaking vigorously with the second and transfer each of the aqueous extracts to the second separator Immediately add 50 ml of water to the first separator and shake gently Gently shake the second separator allow to separate discard the aqueous layer and transfer the benzene solvent ether solution to the first separator Add dropwise N/1 hy drochloric acid shaking after each addition until the solution is just said to himus paper reject the sourous layer with the benzene solvent ether solution with three successive portions each of 25 ml of water and dry with 15 g of anhydrous sodium suphate filter wash the separator and residue with 30 ml of the benzene solvent ethet mixture and evaporate the combined filtrate and washings under reduced pressure with the aid of gentle heat Dissolve the residue in 15 ml of hot carbon tetrachloride evaporate to dryness under reduced pressure again dissolve the residue in 15 ml of hot carbon tetrachloride evaporate to dryness under reduced pressure and dry the residue under reduced pressure for 10 minutes. Add 25 ml of a sat urated solution at 0° of rotenone in carbon terrachloride heat on a water bath under a reflux condenser until solution is complete cool in ice await of the first to induce crystall sation and allow to stand in use for 16 hours filter through a ho 3 suitered glass crucible previously cooled to 0° work the tes due

rapidly with three successive portions each of S mi, of the rotenone-carbon tetrachloride solution at 0° , maintain succion for S munutes and dry for one hour at 40° , and weigh. Determine the optical rotenome at 20° , in a 1-determine tube of a 4 0 per cent w/s solution of the residue in benzene. The percentage of rotenome is given by the formula

where W is the weight of sample, W, the weight of residue and α the optical rotation

DEXTRAN

PHYSICO CHEMICAL CHARACTERISTICS The viscosity extrapolated to zero concentration is a function of molecular weight and attructure The application of viscosity data is discussed —K Zakrzenski et al., Frzem chem 1954 10, 209 per Analy Abit 1956, 3, 536

209 per Analyt Abir 1956, 3, 536 Tractional precipitation with methanol, light scattering photometry, and viscometry, for the evaluation of elinical destran are reviewed and compared -J. Riddick et al., Analyt Chem. 1954, 26, 1149

J A. Ruddick et al. Analyt Chem, 1954, 26, 1149 Determination of easily hydrolysable fructose units is described --C S Wise et al. Analyt Chem, 1955, 27, 33

Determination of mean molecular weight isdometrically is described.-L. Lacko and J Milek Chem Lists, 1957, 51 47 per Analyt Abir, 1958, 5 127 Determination of the [] 3 and] 4 lackages by periodate outsition and isotope

Determination of the 13 and 14 indegets by periodate cardition and isotope dilution is described.—J D Moyer and H S libell Analyt Chem, 1957, 29, 1862 The rate of change of refractive index with concentration was determined at

The rate of change of refractive index with concentration was determined at 436 mµ, 546 mµ and 578 mµ.-M Zebec et al., Croat Chem Acta 1938 30, 231, per Analyt Abstr., 1939, 6, 4460

DETERMINATION A colorimetric method using anthrone is described -T A. Scott Jr and E H Melvin, Analyt Chem, 1953, 23, 1656

DETERMINATION IN BLOOD (Vol II, 23rd Edn p 1206) The Hint-Thorsen method (Acta chem ucand, 1947, 1, 803) when slightly modified is sumplet and gives more consistent results than the anthrone method—H Szafranova et al. Acta polon pharm, 1959, 16, 33, per Analyt Abirt, 1959, 6, 3556

DETERMENTION OF ISOPROFIL ALCONOL IN DETERMIN SOLUTIONS IMPORPHI alcohol is outdowed to acctone and distilled unto hypotodite with which is react to produce todoform The access of reagent is determined by astiditying and iterating the liberated iodime with sodium throughate —G J Frisone Analy! Chem 1954, 26 924

Injection of Dextran (B_*P) It contains 55 to 65 per cent w/v of dextrans, based on the optical rotation

Veterinary Injection of Dextran (B Vet C Supp.) The standards are the same as those for Injection of Dextran BP, except that in test B for molecular size, the upper limit of infinisic viscosity is 0.53

DEXTRAN SULPHATE

Dextran Sulphate (B P) It has a potency of at least 10 unus per me, determined by the BP method for the biological assis of dextran sulphate, and at least 14 0 per cent of sulphur, determined alkalimetrically after precipitation with bernadine, both calculated with reference to the dired substance, the loss on drying at 500 under reduced pressure is not more than 50 per cent The limits of error (P=0.95) of the biological assist are 80 to 125 per cent

Injection of Dextran Sulphate (BP) The potency determined by the BP method for the biological assay of dextran sulphate is 90 to 111 per cent of the stated potency the limits of error ($P \approx 0.95$) are 80 to 125 per cent

DEXTROMETHORPHAN

Destromethorphan Hydrobromude $(B PC) C_{11}H_{10}ONBrH_0O = 370.3$ If contains at least 99 0 per cert of anlydroux destromethorphan hydrobromude calculated with reference to the dried substance determined by titration of the extracted base with perchloric acid an doxan the loss on drying at 80° under reduced pressure is 40 to 55 per cent

DIFFERENTIATION OF OFFICAL ISOMERS Tests for distinguishing between raceme destrorotatory and leavorolatory isomers of 3 methory N methyl morphunan are described -E G C Clarke J Pharm Pharmacol 1958 10 642

SEPARATION FROM OTHER ORGANIC BASES A chromatographic technique using filter paper buffered in zones of decreasing pH is described — M Schmall et al Analyt Chem 1956 28 1373

DICOUMAROL

Extra Pharmacopœia Vol 11 23rd Edn p 148

Cyclocournarol (BPC) CteHisO4-322 4 It contains 95 0 to the equivalent of 105 0 per cent of cyclocournarol determined spectro photometrically

DICYCLOMINE

Disyclomine Hydrochloride (BPC) C₁₁H_{st}O₁NCl=3460 It contains 99 0 to the equivalent of 102 0 per cent of dicyclomine hydrochlonde calculated with reference to the dred subtained determined by tirrition with perchloric acid in glastal acetie acid the loss on drying at 105° is not more than 10 per cent

DIELDRIN

Dielderin (B Vet C Supp) C₂H₂OCL₄=380 9 It contains 54 0 to 58 0 per cent of C1 calculated with reference to the anitydrous substrace determined by the B Vet C method for chlorine in Benzen Hexachloride but with the period of boiling under a reflux condenser after the addition of sodum increased to 2 hours The content of water determined by the Karl Fischer method, is not more than 0 3 per cent The setting points in 115° to 120°

DETERMINATION OF DIELDRIN RESIDCES IN OLIVE OIL. 10 p pm. of dieldrin may be determined colonimetineally on material derived from 10 g of oil and 0 1 p pm can be detected using a 50 g sample of 0 1—L. Bomforti and M Doretti R.C. Iti sub Sont 1959 22 189 per Asalyt Abstr 1960 7 792

DIETHYLTHIAMBUTENE

Diethyltbiambutene Hydrochloride (B Vet C Supp) Ci₁₄H₃₅NS₂Cl =327 9 It contains at least 98 5 per cent of diethylthiambutene hydro chloride determined by the following method

Dissolve about 0.7 g in 20 ml of glasmi acenes sted add 14 ml of solution of mercuric acetate and utrate with N/10 perchlore acete acid using as ind cator s 0.1 per cent w/s solution of qualid me red an glasmi acet acid Repeat the operation on muting the sample The difference between the two intrations represents the amount of perchloric scele acid required by the sample each ml of N/10 perchloric acetic acid is equivalent to 0.03279 g of Caling Ng.L

The melting point is 151° to 154°

DIMENHYDRINATE

Dimension of the two processing the two processing

DETENTIVATION by Non AQUEONS TITERATION Dependiplasmuse is determined by intra-new high periodic scale and pictual access and or choiced access and or choiced access and or choiced by attention with the scale and accessification accessed or choiced on the standard in gradient dimensioned or choiced on the standard by attention with the scale in a scale of the scale

DIMETHICONE

Dimetricone 20 (BPC) No says u described but it has reference match at 0.07 of 140 to 140, s viscosity at 20° of 19 0 to 25 0 entit stokes and a vt per ml at 20° of 0 900 g to 0 955 g, 15 g dissolved in a maxture of 15 ml of tokene and 15 ml of privil alcohol requires not more than 0 1 ml of N/20 alcoholic potsssum hydrovide for neutralisation to homophenel blue

IDENTIFICATION OF ORGANOSILICON COMPOENDS Infra red spectroscopy and other spectroscopic techniques are reviewed —A L. Smith and J A McHard Analyt Chem, 1959 31 1174

DETECTION OF STALEONES IN TEXTILES The textile is heated with sulphuric acid and if on shaking the acid runs off the ade of the tube sulecone is present if the acid wets the tube evenly sulicone is absent.—G von Finck Meditind Textiller Eng Edn 1959 40 32 per Analyt Abstr 1959 6 4054

Cream of Dimethicone (B.P.C.) No assay is described for this preparation

DETERMINATION OF SELECONS IN OPERATIVES The 0 attnent is heated under reflux with trachloroethylene the solution being eraporated and faits removed by saponification. The residue is heated with subplume and mitro acids and weighted as a licen dioxide—R Springer and R Herringer Arch Plarm Berl 1954 227 204 per Ariabit Abstr 1955 2 734

Suspension of Silica in Dimethicane (B I et C Supp.) It contains 60 to 80 per cent w/w of free silica and 790 to 830 per cent w/w of total silica determined by the following methods

For free shots Mix about 5 g with 40 and of tokene and centrifuce decent the clear superstant logical and a wash the renduce with four successing the data of 20 ral of tokene centrologing and decenting the clear supermitted index and verging the superstant logicals for the decentromation of the 4 of and grave the rendul superstant downs as a water bash dry at 130° and grave the residue of share to constant weight For total silica Ignute gently about 02 g with 2 ml of furning sulphuric scid and 0 5 ml of furning nitric scid until = dry residue is obtained and ignute the residue of silica io constant weight.

Emulsion of Dimethicane (B Vet C Supp) 1t contains 0.85 to 1.05 per cent w/v of Suspension of Silica in Dimethicane determined by the following method

Mus 50 ml with 60 ml of benzene and distil on a suitable apparatus (such as the apparatus deembed in the BP for the determination of volatile oil in drugp) until all the water has been removed. Dulate the logud remaining after distil lation to 50 ml with benzene filter transfer 15 ml is a platimum retuchle and 0.5 ml of furning mine avid and warm gendy and how the filter of the furning nutre avid and warm gendy and how the dual of b ml of furning nutre avid and warm gendy and how the funce are evolved. Cool due to the filter of the dual of b ml of a splatimum and a splatic static and warm gendy until no more white funce are evolved cool and splatin avid and by form the subface function of the application of application of the splatic static static static static application of application of the splatic static static static static static of Supperson of Splatin Dimensione.

DIPIPANONE

Duppanone Hydrochlorde (BPC) $C_{1,H_{2}}ONCI H_{1}O=4040$ It contaurs at least 980 0 per cent of anhydrous duppanone hydrochlorde calculated with reference to the anhydrous substrance determined by titration with perchlore acid in glacal acetic acid The water content determined by the hard Fuscher method is not more than 50 per cent

DUSTING POWDER, ABSORBABLE

Absorbable Dusting Powder (BP) No essay is described, but the pH of a 10 per cent w/s supernoson in water as 9 5 to 10.8 the east insoluble sah is not more than 0.3 per cent, the sah not more than 3.5 per cent, and the loss on dryng at 10.3° motions that 2.0 per cent for complice with a sedurentiation test and limit tests for chloride aulphate formaldehyde, and magnesum oxide

ERGOT

Extra Pharmacopera Vol 1I 23rd Edn, p 159

Methylergometrine Maleate (B P) $C_nH_1, O_N = 455 5$ it contians 950 to the equivalent of 1050 per text of methylergometrine maleate calculated with reference to the drad substance determined by the B P method for tergometrine maleate, the loss on drying at 100° under reduced pressure is not more than 20 per cent. Each ml of ergo metrics maleate solution is equivalent to 0 to 04127 mg of $C_{2,H_1,O,N}$.

Injection of Methylergometrine (BP) It contains 90 0 to 110 0 per cent of the stared amount of methylergometrine maleate determined by the BP method for methylergometrine maleate

ERYTHROMYCIN

Erythromycin (BP) it contains at least 900 units per mg deter mined by the BP method for the biological assay of antibiotics, the limits of error (P=0.95) are 80 to 125 per cent Tables of Erythromycen (B.P) The potency determined by the B P method for the biological assay of antibotics is at least 90 per cent of the stated potency, the binus of error (P = 0.95) are 80 to 125 per cent. (For purposes of assay and calculation the potency of erythromycen is taken to be 1000 units per mg)

ETHYLENEDIAMINE

Ethylenediamine Hydrate (B P) C₂H₄N₂ H₄O=78 12 1t contains 97 S to the equivalent of 101 5 per cent of ethylenediamine hydrate, determined acidimetrically

FURAZOLIDONE

Furazolidane (B Vet C Supp) C₁H₁O₁N₂=225 2 It contains 97 0 to the equivalent of 1000 per cent of furazolidane determined by the following method

Dissolve about 0.02 g in 50 ml of glacist acetic and and 22 ml of pyridine and diute to 250 ml with nater diduce 10 ml of this solution to 100 ml, with water and measure the extinction of a 1-cm layer at the maximum at about 367 ms. The percentage of fursionlocone spices by the formula

E(1 per cent 1 cm) × 0 134

DETERMINATION IV FEEDING STUFFS Furgeoludone is extracted with 6 methyl formamide separated chromatographically and determined colorimetrically after the addition of alcohol e potassium hydroxide —H F Beckman J Agric Food Chem 1958 6 130 per Analyt Abare 1958 5 3933

GENTIAN

Extra Pharmacopœia Vol 11 23rd Edn p 172

Alkaline Mixture of Gentian with Phenobarbitone (BPC) It contains 4 30 to 4 84 per cent w/v of sodium bicarbonate, determined by the BPC method for Alkaline Muture of Gentian

Mixture of Gentian with Rhubarb (B.P.C.) It contains 4.30 to 4.84 per cent w/r of softum bicarbonate determined by the B.P.C. method for Alkaline Mixture of Gentian.

22

GLYCERYL TRINITRATE

Extra Pharmacopæia Vol II, 23rd Edn, p 177

Deluted Pentaerythritol Tetranitrate (BPC) It contains 185 to 215 per cent of pentaerythritol tetranitrate ($C_{2}H_{4}O_{12}N_{4}$ =3162), determined by extraction with acetone and weighing

DETERMINATION Nitric acid esters may be determined by potentiometric redox titration with ferrous iron Pharmaceutical preparations may be assayed colorimetrically with phenoldsulphonic acid —P Frauch and A Burgin Pharm Acia Helter 1958 33 527

Titration in isobutyl methyl ketone is described -- R D Sarson Analy! Chem 1958 30 932

In methods depending on direct reduction to ammonis high results are avoided by a preliminary extraction of the ester with chloroform from a dilute solution in 20 per cent soduum chloride solution -- J Büchi and R. Alther Pharm Acta Helest 1956 31 121

Determination of peritarrythnitol tetranstrate in the presence of hexahydro 135 finnitro s traame by selective reduction with ferrous chloride is de scribed —J Stanks and J Vacek Chem Prumysl, 1958 8 361 per Analyt Abitr 1959 6 1846

HALOTHANE

Halothane (B P Add) C.HF.CBr=197 4 No assay is described for this preparation but it has a b p of 49° to 51° 95 per cent v/v distilling within a range of 1° as where rnl at 20° of 1869 to 1874 g and a refractive index as 20° of 13695 to 13705 It contains 001 per cent w/w of thymolia a preservative

DETERMINATION IN BLOOD A1 ghi petroleum extract of blood is heated under pressure with sodium smylozide and the bromide formed is estimated nephelo metrically as after bromide —R R Goodall Bnt J Pharmacol 1936 11 409

AMESTHETIC GAS ANALYSER Haloshane or chloroform (0 to 4 pee cent in sit or oxygen) is measured by comparing the velocity of aound in the mixture before and after removal of the anexthetic with activated charooil A soutable transistorised circuit is described —L. Molyneux J sci Instrum, 1959 36 118 per Analyt Abir 1959 6 5016

HEXACHLOROPHANE

Hexachlorophane (BPC) C₁₄H₄O₅Cl₄=406 9 1t contains at least 98 0 per cent of hexachlorophane calculated with reference to the dried substance determined by alkalimetric titration to pH 9 0, the loss on drying for 4 hours at 105° is note more than 10 per cent

DETENSIONATION IN SOLDA AND LAQUED SOLDY EMILISTONS AND DEUTING FONDERS A PRETCONDUCTION FONDERS A PRETCONDUCTION OF THE ADDRESS AND A PRETCONDUCTION OF THE ADDRESS AND A PRETCONDUCTION AND A PRETC

HOMIDIUM BROMIDE

Homidium Bromide (B Vet C Supp) $C_{\tau_1}H_{10}N_3B_{\tau}$ =394 3 1t contains 96 0 to the equivalent of 102 0 per cent of homidium bromide calculated with reference to the dried substante, based on the nitrogen content determined by the following method

Transfer about 0.3 g to a long-metical fluid of about 300.ml superty, add 1 g of salivity, and and 30 ml of mategore firse subplutes and, and for about thirty mmutes with becassonal alking add 5 g of solution through and add 9 g of anhydrous solutions added, bud gently for thrity mmutes, cool, and add 9 g of anhydrous solutions and 1 g of powdered copper subplute literum of the solutions as clear and manutan at its as state of great clear through the solutions and the solution and 1 g of a solution through a solutions and 1 g of anhydrous solutions and 1 g of a solution and with water to about 300 ml, make alfalines with a 40 ml room apparates, ablue with water to about 300 ml, make alfalines with a 40 ml room apparates, ablue with water to about 300 ml, make alfalines with a 40 ml room and 1 of N/10 subplume kerd, and itstate with N/10 solution hydroxide using solution of intriby rod as indicator Repeat the operation omiting the simple. The ditration and the interview intercomes represents the and required to neutralize the ammonies in the mid-N/10 solutions represents the solution of 10314 g of CupHayNB⁺.

The loss on drying at 130° is not more than 6.0 per cent.

HYALURONIDASE

Hyaluronidase (BP) It contains not less than 300 units per mg, and not less than 6000 units per mg of tyrosine present. The potency is determined turbidimetrically, and the tyrosine content is determined colormetrically

DETERMINATION Methods of paper electrophoresis and paper chromatography with possible application to the analysis of hyaluronidate preparations are described — M Bachner and H -Ch Gabsch, *Pharm Zernabi*, 1935, 97, 3 A spectrophotometric method for the determination of betternal hyaluronidate is described — H Greiling Hoppe Sci J 2, 1957, 309, 2167,

HYDROCHLORIC ACID

Extra Pharmacopæta Vol II, 23rd Edn, p 188

Solution of Sodium Chloride (B.P.C.) It contains 0.85 to 0.95 per cent w/v of sodium chloride, determined argenumetrically.

HYDROGEN PEROXIDE

Extra Pharmacopæia Vol 11, 23rd Edn, p 194

Strong Solution of Hydrogen Peroxide (BP) It contains 26 0 to 28 0 per cent w/w of hydrogen peroxide, determined turnmetrically with potassium permananate

DETENTIATION OF HUMBORY PROTTING AND ALTFANT CALE IN MIXTURE The and a cut be determined polargephacily when the thit of the other stand determined polargephacily when the thit of the cuterting determined for forms, each cate and the determined for the orable cut is present in large excess it is neutralised with polarsound hydroxide borne carrying out a polargephace determination of perroid-= 18 Raski and B 1. Dynkanové, Bull Inst nucl Sci, Belgmede, 1957, 7, 59, pet Analyi, Abtr. 1938. 5, 1780

HYDROXYCHLOROQUINE

Hydroxychloroquine Sulphate (B.P. Add.) C., H₁, O, N, SCI-941 6 11 contains at least 98 0 per cent of hydroxychloroquine sulphate, miculated and the substance, determined gravitational cally after extracting with chloroform from a solution made alkalue with duite ammonia solution, the loss on drying at 105° is not more than 2 0 per cent DETERMINATION A study of the induced fluorescence method of Brodie et al (J bail Chem 1947 168 319) for determany 4-animoquinoline animaliarials is described with special reference to the determination of hydroxychloroquine in bolog cal meterals -- E W McChesney et al J Amer pharm Ass Sci Edn 1956 45 640

Tablets of Hydroxychloroquine $(DP \ Add)$ Each tablet contains 92.5 to 107.5 per cent of the stated amount of hydroxychloroquine sulphate determined by the BP Addendum method for hydroxychloro quine sulphate

INSULIN

Extra Pharmacopæta Vol II 23rd Edn p 200

Insulin Zinc Suspension (BP) The potency is 90 to 111 per cent of the stated potency (40 or 80 units per mf) determined biologically siter breaking down the complex with hydrochlorns each the limits of error (P 0 95) are 80 to 125 per cent 1t complies with the BP test for prolongation of insulin effect

Insulin Zinc Suspension (Amorphous) (B P) The potency is 90 to 111 per cent of the stated potency (40 or 80 units per ml) deter mixed as for Insulin Zinc Suspension I is shows little or no retardation or prolongation of insulin effect when compared with the standard prepara tion by the B P method

Insulin Zinc Suspension (Crystalline) (BP) The potency is 90 to 111 per cent of the stated potency (40 or 80 units per ml.) determined as for Insulin Zinc Suspension It complies with the BP test for pro longitum of insulin effect

IODINE

AND COMPOUNDS OF JODINE

Extra Pharmacopœia Vol II 23rd Edn p 201

Acefrizono Acuí (B PC) C.H.Q.NI₈=556 9 it contains at least 98 0 per cent of acetrizono acid calculated with reference to the dred substance determined by the B P method for todoxyl each ml of M/20 potassum todate is equivalent to 001855 g of C.J1₄O₂NI₈. The loss on drying at 105' is not more than 1 0 per cent

Injection of Sodium Acetrizoste (BPC) It contains 950 to 1050 per cent of the stated amount of sodium scetrizoste determined by the BP method for isoloxyl

Sodum Diatrizoate (B,PC): $C_{1}H_{2}O_{1}N_{1}J_{1}N_{n}=635.9$ It contains 98 to the equivalent of 102 0 per cent of adoum distribute calculated with reference to the anhydrous substance determined by the B Pmethod for loadway! each mil of M/20 potessium nodate are equivalent to 0.02120 g of $C_{1}H_{2}O_{1}N_{1}$. The water content determined by the Karl Fusher method in 7.0110 per cent

IPECACUANIIA

Extra Pharmacopera Vol II 23rd I do p 205

Mixture of Ipecacuanha and Ammonia for Infants (B P C) in contants 0.85 to 0.96 per cent w/s of samponium bicarbonate and 3.44 to 3.88 per cent w/s of sodium bicarbonate determined by the B P Cmethods for Alkaline Mixture of Ipecacuanha

IRON

Extra Pharmacopera Vol II, 23rd Edn, p 207

Mixture of Ferrous Sulphate (BPC) It contains 2 10 to 2 50 per cent w/v of ferrous sulphate, calculated as FeSO₄.7H₂O, determined by the BPC, method for iron in Compound Ferrous Phonhate Symp

Mixture of Ferrous Sulphate for Infants (B.P.C.) It contains 1 70 to 2 00 per cent w/v of ferrous aulphate, calculated as FeSO₄₇/II₁O, determined by the B P C method for iron in Compound Ferrous Photphate Syrup

ISOPROPYL MYRISTATE

Isopropyl Myristate (BPC) $C_{45}H_{41}O_4 = 2705$ It contains at least 99 0 per cent w/w of isopropyl myristate, determined by the BP method for the determination of esters, each m1 of N/2 slobholic potassium hydrowide is equivalent to 0 1352 g of $C_{11}H_{11}O_2$

LEVALLORPHAN

Levallorphan Tartrate (BPC) C23H2107N=4335 It contains at least 980 per cent of levallorphan tartrate, determined by turstion of the extracted base with perchloroc acid in glacal scette acid

LEVORPHANOL

Leverghanol Tartrate (BPC) $C_{pt}h_{1}O_{r}N_{2}^{2}h_{0}O_{r}A^{2}h_{1}O_{r}N_{2}^{2}h_{0}O_{r}A^{2}h_{2}O$

DEFERENTIATION OF OPTICAL ISOMEDS Tests for distinguishing between racenic, destrotostory and laworotatory isomers of 3 hydroxy-h-methylmorphinan are desenbed —E~G~C Clarke, J Pharm Pharmarol, 1938 10 642

Interpretation was Derrassivation. The complet formed with eldorophations and mells at 233' to 233's, with decomposition and it may be estimated quantitatively by iteration with alcohole addum hydroxide in a mature of water and account che ord point being detected potentionetrically. Infer red absorption spectra for levorphanol and its chlorophannic complex are given — Levor et al., Bull Noroot, 1355, 7, 43

DETERMINATION IN UNINE Leverphanol may be extracted from urine and determined colorimetrically with p niroaniline and sodium mente ---11 hairer and H Jon Arch Pharm, Berl, 1954, 287, 224 and 253, per Analyt Abitr. 1955 2, 732

SEPARATION FROM OTHER ORGANIC BASES A chromatographic technique using filter paper buffered in zones of decreasing pII is described — M Schmall et al., Analist Chem., 1956, 28, 1373

MACROGOL

POLYETHYLENE GLYCOL

Extra Pharmacopæia Vol II, 23rd Edn, p 233

Macrogol, Hard (B PC) No assay is described, but it has a freezing point of 53° to 56° and a viscosity at 100° of 75 to 85 centistokes Macrogol, Liquid (BPC) No assay is described but it has a refractive index at 20° of 1 462 to 1 456 a viscosity at 25° of 59 to 73 centistokes and a wiper rml at 20° of 61 120 g

DETENSIVATION A method is described in which the macrogol is allowed to react yith potassium ferrocyan de and the excess of rengent is determined colorimetrically --D Coppins and R Cameroni Boll chim form 1953 92 363 per Analyi Abit 1954 1 1963

Macropol is precapatived with tangetophosphoric acid and converted into an insoluble complex with barum chloride in the presence of hydrochlore ed The loss in weight on again on represents the quark ty of ethylene oxide in the sample --H Et enne Parfumer Caemet Savonr 1957 No 137 J3 per Analyt Abir 1959 6 1731

A sample is a solved in dunethylformsmide and benzene and the quantity of water required to induce turb dity is determined --L. P. Weeks et al. J. Amer DI Chem. Soc. 1958. 35.149 per Analyt Abitr 1959 6 644

MAGNESIUM TRISILICATE

Extra Pharmacoparia Vol II 23rd Edn p 237

DEFERMINATION Magnes um is determined by titration with sod um edetste after removal of sil ca —F Hobson and W H Stephenson Analyst 1959 84 520

Maxture of Magnesium Trisilicate and Belladonna (BPC). It contains 4 30 to 4 84 per cent w/r of sod um bicarbonate determined by the addition of hydrochloric acid and back turat on with sodium hydrox ide after filtration in the presence of about 50 per cent of alcohol

Compound Tablets of Magnessism Trisilicate (BPC) Each tablet contains 0 056 to 0084 g of aluminum oxide and 0 050 to 0 072 g of magnessium oxide determined itermetrically with sodium edetate

MANNITOL

Mannitol (B P) $C_1H_1O_1=182$ It contain 99.0 to 102.0 per cent of mannical calculated with reference to the dried substance determined by exidising with sodium periodise in and solution converting the transming periodise to iodure by addition of potassium iodule and utrating with thiosulphate the loss on drying at 105° is not more than 0.5 per cent.

MECAMYLAMINE

Mecamylamıne Hydrochlorude (HPC) $C_{11}H_{12}NCl=203$ 8 lt conta ns 95 0 to the equivalent of 102 0 per cent of mecamylamine hydrochlorude calculated with reference to the dried tubbance determined by extracting the base with chloroform adding sulphure acid evaporating off the chloroform and back turtaing with sol with hydroxide the loss on drying for 1 hour at 100° under reduced pressure is not more than 1 0 per cent

MECLOZINE

Meclozine Hydrochloride $(BPC) = C_{11}H_{12}N_1Cl_2=463.9$ fr contains at least 98.0 per cent of meclozine hydrochloride calculated with reference to the anhydrous substance based on the introgen content determined by the Kyldahl method. The water content determined by the hard Facher method is not more than 5.0 per cent.

METHOXAMINE

Methoxamine Hydrochloride (BPC) Ct1H1.0, NCI=247 7 It contains at least 98 5 per cent of methovamine hydrochloride, deter mined by titration with perchloric acid in glacial acetic acid

METHYLPENTYNOL

Methylpentynol (BPC) CaHmO=98 15 It contains not less than 98 0 per cent w/w of methylpentynol determined by titrating the acid liberated from silver nitrate with alkali,

NEOMVCIN

Neomycin Sulphate (BP) It contains at least 600 units per mg calculated with reference to the dried substance, determined by the BP method for the biological assay of antibiotics, the limits of error (P-0 95) are 80 to 125 per cent the loss on drying under reduced pressure at 60° is not more than 8 0 per cent

DETERMINATION A statistical atudy indicated that in one type of assay at a level of 20 µg per mi the standard error was 13 per cent with Bacillus subtilit A turbulanetine method with 29 per cent for Albendia prominian - E R Garrett and G M Savage Anthoir and Chemother 195, 5 273 A turbulametric method with Eschericha coh (ATCC 10536) is described -D M Wintermere et al Ant bot and Chemother 195, 7 189

DETERMINATION OF NEOMYCINS B AND C IN NEOMYCIN SULPHATE, Methods suggested make use of (1) the difference in optical rotation of neomycins B and C and the production of furfuraldebyde on acid treatment (2) variation of ont cal and the provestion of the time and a point of each of the termine (4) viriation of opt (3) rotation with temperature and (3) optical rotation and neutraliantion equivalent —A A. Brooks et al. Analyt Chem. 1956 28 1788 Separation of acetylated neomycans B and C by paper chromatography is described —S C Pan and J D Dutber Analyt Chem. 1956 28 836

DETERMINATION IN MIXTURES WITH BACITRACIN The components are separated by extracting the bacitracin with alcohol (in which neomycin sulphate is insoluble) and each antibaotie is then determined microbiologically -- J Lingnau and G Machek Sci pharm (Wien) 1955 23 234 per Analyt Abitr 1957 4 1014

DETERMINATION IN MITTURES WITH DEHYDROSTREPTOMYCTN Dihydrostrep tomycin is mactisated with barum hydroxide and neomycin determined by the cup plate method — J Levine et al Ant bot and Chemother, 1934 4 266 Neomycia may be determined by the cup plate assay using a sulture of the test organism which has been rendered resistant to dihydrostreptomysin — J C DeNunzio et al Antibiot and Chemather 1954 4 300

NICARBAZIN

Nicarbazin (B Vet C Supp) $C_{10}H_{10}O_8N_8=4264$ It contains 96 0 to the equivalent of 103 0 per cent of nicarbazin, calculated with reference to the dried substance, determined by the following method

Dissolve with the aid of heat about 0 03 g on 70 ml of d methylformamide cool and dilute to 100 ml with d methylformamide dilute 10 ml of the solution to 100 ml, with d methylformamiade them d lute 5 ml of this solution to 100 ml with aldehyde free alcohol (95 per cent) and measure the extinction of a 1 cm. layer at the maximum at about 345 ms The percentage of CialingOa Va is given by the formula E (1 per cent 1 cm) × 0 113

The loss on drying at 100° under reduced pressure is not more than 1 0 per cent

NITROFURAZONE

Extra Pharmacopera Vol II 23rd Edn, p 260

Nutrofurazone (B P C) C₄H₅O₄N₄=198 I It contains 98 0 to the equivalent of 102 0 per cent of nitrofurazone determined spectrophoto metrically

DETERMINATION A polarographic method is described the accuracy claimed is ± 2 per cent for the pure material and ± 4 per cent for preparations—H Marcinzewski Chem Anal Wariau 1959 4 577 per Analyt Abstr 1960 7 2951

Nitrofurazone, Veterinary Nitrofurazone B Vet C is now known as Veterinary Nitrofurazone

DETERMINATION IN FEEDING-STUFFS. Nitrofurazone is extracted with dimethyl formamide separated chromatographically eluted with alcohol and determined colorimetrically after the addition of alcoholic potassium hydroxide —H F Beckinan J agric Food Chem. 1958 6 130 per Analyt. Abstr. 1958 5 3333

NOVORIOCIN

Novobaccin Calcium (B. P. Add) $(C_n,H_{s,1}O_nN_s)_s(2-2H_sO=1299 + 11 contains at least 850 units per mg. calculated with reference to the drucd substance determined by the B.P. method for the biological assay of anthibotics the limits of error (P--0 89) are 80 to 125 per cent the loss on drying at 60° under reduced pressure is not more than 5 0 per cent$

Novobiocin Sodium $(BP - Add) \subset_{n+1}O_{12}N_5Na 6346$ If contains at least 850 units per mg calculated with reference to the dred abstance determined by the BP method for the biological assay of antibiotics, the limits of error (P=0.95) are 80 to 125 per cent the loss on drying at 60° under reduced pressure is not more than 50 per cent

The sensitivity of 72 strains of micro-organisms to novobiocin both in retiro and in erro is described together with development of resistance and cross resistance -1 R Williams et al Amboi and Chemother 1955 6 149

Physico-crazatics1. Prozestrus5 A comprehensive survey of the physico chemical properties of novobourn and us safe to give in industing behaviour in counter-current distribution analysis ultravolet absorption spectra at d fifternt physics of physical rotations 7 were creatillographic analysis at and paper choose absorption in four principating with the methoding points and infar red Analysis and Chemother 1395 of 133.

DETERMINATION BY CHEMICAL METHODS A mod field Kjeldahl method of determination is described which gives good agreement with macrobiological assay -- F A Bacher et al Analys Chem, 1958 30 1993

DETERMINATION BY MICROBIOLOGICAL METHODS A simple settal dilution method which can be made sensitive to $0.5 \, {\rm gg}$ per ml in biological material, is described with Staphyleorecus averas as the test organism —R M Taylor et al. Ant biot and Chemisther 1936 6 157

A plate assay procedure with Staphylococcus aureu is described for the determination of norob corn an body fluids. Good agreement with the colori metric method of Boxer (Anibiat and Clemother 1956 6 589) is obtained — B M Frost and M E valant Ambiot and Chemother 1956 6 6 48

A plut easy procedure for moviment as phenometrical experimenwhich is studied for a concentration of 10 egg per ml is described with Stophylococcus appropriates is the test organism. A turbatimetric method with Stophylococcus and rules is a turble Setum concentrations of 15 to 80 ag per ml can be determ not by a place assay with Sarona lates —A Kirahbaum st al Ant hole and Chemother 1956 6 509 DETENJIVATION IN THE PRESENCE OF ISONOVOBIOCIN Novobioc n and isonovobiocin on acid hydrolysis produce 3 O-carbamoginovous and 2 O carbamoginovose respectively The former may be determined by penodate oxidation without interference from the latter —A A Forst et al Asoly Chem 1959 31 100

DETERMINATION OF NOVORBOCIN AND DISYDRONOVOBIOCIN IN MIXTURES. These can be determined by differential spectropholometric measurement of their acid hydrolys a products at 250 mg and 330 nm Beer Law being followed over a concentration range of 2 to 12 sg per ml --P Sense et al Analyt Chem 1957 29 1611

Tablets of Novobractin (B.P. Add) The tablets contain novobiocin calcium or novobiocin asdmin 'The potency, determined by the B.P method for the biological assay of antibotics is at least S5 per cent of the stated potency (For purposes of assay and calculation the potency of novobiocin is taken to be blood unuss per mg)

NUX VOMICA

Extra Pharmacopusa Vol II 23rd Edn p 261

Eltrr of Nux Vornica (BPC) No assay is described but it has a wt per ml at 20° of 1 14 to 1 16 g and the sloohol content is 10 to 12 per cent 1/v

Masture of Strychnine and Iron (B PC) It contains 0 0105 to 0 0145 per cent w/v of strychnie hydrochlonde determined spettrophotometrically on a solution of the extracted base in sulphune red and 0 56 to 0 69 per cent w/v of ferric chloride determined isdametri cally

OILS

Extra Pharmacoporta Vol II, 23rd Edn p 275

Spearmint Oil (BPC) (Vol II 23rd Edn p 290) It contans at least 55 0 per cent w/w of carone determined by the BP method It has an optical rotation at 20° of -45° to -60° , a refractive index at 20° of 1 485 to 1 491 and a wt per ml at 20° of 0 917 to 0 934 g

DETERMINATION OF CANVOKE CONTENT A spectrophotometric method stated to be accurate within 1 per cent is desembed -R. II. Reusema and W. E. Faas J. Amer pharm An. Soc. Edn. 1957. 45. 381.

Spearmint Water, Concentrated (B.P.C) No assay is described for this preparation but it has a wt per mI at 20° of 0 912 to 0 920 g and an alcohol content of 52 to 56 per cent v/v

OPIUM

Extrs Pharmacopera Vol II 23rd Edn p 306

Microsop or Assay roug Orgina, Vanous methods of dieminang the organ of spunn amples have been carmed an the United Vanous Approximate on Optime Research. The programme is outland in Bull Annual 1988 [0, 17] and reports are published in United Nations detaurnest ST[30/31/51 K]. A number of these reports ancholds information and Annual 1988 [0, 17] BERLS(0) 1979, per Andrey Astern 1988 § 1666 C Nadoux et al. (Annual tography 1958 1 327 per Andrey Astern 1989 § 1666 C Nadoux et al. (Annual 1970) 1958 1 327 per Andrey Astern 1989 § 1666 C Nadoux et al. (Annual 1970) 1958 1 327 per Andrey Astern 1989 § 1687 and V J Likkre et al. (Pharm Plarmacel 1997 II 234 Compound Camphorated Mixture of Optium (BPC) It contains 1 14 to 1 37 per cent w/v of animonia NH, determined by the BPC method for Mixture of Ammonia and Ipecacuanha

Papaverine Sulphate (BPC) (See Papaverine Vol 11 23rd Edn p. 316) C₂₄H₄O₁N₅S 5H₄O₋₆₈₅₇ 01 te contains at least 98 0 per cent of anhydrous papaverine sulphate calculated with reference to the dried substance determined by extracting the bases from an sikaline solution with carbon tetrachloride drying and weighing the loss on drying at 105's 17.5 to 11.0 per cent

DETERMINATION A colorimetric method with formaldehyde bromine and ammonia is described -O N Soboleva Apt Delo 1955 4 37

Ion-exchange separation and spectrophotometric determination of papa verme codeme and aodium benzoate in syrups etc are described ---G Thomas et al Plazm Weekbl 1955 90 241

Papaverine is precipitated quantitatively with flavianic acid -H Wachsmuth, J Pharm Belg 1953 8 76

A photometric determination at 253 7 mm is described ---H Thies et al Naturquisenschaften 1955 42 605 per Analyt Abstr 1956 3 1844 A polarographic method is described ---W Součková and J Zýka Cil Farm

A polarographic method is described --M Součková and J Zýka Csl Farm 1955 4 181 per Analyt Abstr 1956 3 498

DETERMINATION OF PARATERINE AND NOSCAPINE The total amount of all kalond is determined by infrashon with perchlores acid in glacissi acctic acid and noscapine is determined by infra red spectrophotometry —L. Kum Tatt et al. J. Phorm Pharmacol 1958 10 621

SEPARATION FROM NOSCAPINE. Choice of solvenit for separation of papa verme and noncapine by paper chromatography is discussed —II Three and F W Reuther Naturanisenschaften 1955 42 462 per Analyt Abitr 1956 3 1122

PARAFFIN

Extra Pharmacopona Vol II 23rd Edn p 321

Emulsion of Liquid Paraffin with Cascara (BPC) It contains $42.0 \text{ to } 52.0 \text{ per cent v/v of liquid paraffin determined by extraction with ether and weighing after preliminary extraction with alcohol (70 per cent)$

PARAMETHADIDNE

Paramethadione (B P) $C_{7}H_{12}O_{3}N$ =157 2 It contains at least 98 0 per cent of paramethadione determined by a modified Kjeldahl method

PENICILLIN

Extra Pharmacoports Vol II 23rd Edn p 322

Solution-tablets of Penicilian, Buffered (B P C) Each solution tablet contains not less than 12 750 units determined by the B P method for the biological assay of antibiotics the limits of error (P=0.95) are 80 to 125 per cent

Benethamine Penucillun (B.P.C.) C₄₄H₄,Q,N₅=545.7 It contains 35 to 390 per cent of A benzyhienerthyimme (C₄,H₄)-N deter maned acidmetrically after extraction of the base with other and at least 1008 mins of penucilian per mg, determined by the B P method for the assay of antibiotics the limits of error (P=0.95) are 80 to 125 per cent Benzathine Penciellin (B_{P}) $C_{n}H_{n,Q}$, $N_{rS} = 909.2$ it contamposed solutions material determined by extincting a solution containing solution clouds with effert and binary discussion of the extinct of base with perchlore acid in glaculated each and attent gf-binary discussion of the extinct of base with reference to the anhydroxis material determined by the H^{2} method for the assay of antibuotics after prelummary dissolution in dimethylformanide the lumits of errors (F=0.95) and S=0 to 125 per cent. The water content determined by the Karl Fischer method is 50 to 80

IDENTIFICATION The base can be identified by Liebermann s nitroso-reaction and the preparation of an iodo derivative --R Surfaces An Fac Form Odont Univ S Paula 1955 13 85 per Amaly f Abir 1958 5 964

DETERMINATION An iodometric method is described -- G Parker and L. Donegan J Plarm Pharmacol 1954 6 167

Benzathine penic flin may be t trated with perchloric scid in glac al acet c acid containing 2 per cent of acet c subpdride with crystal violet as ind cator ---C kin ght and W H Stephenson J Pharm Plarmacol 1954 6 1002

The pencies of the stepheneous of Pharm Prarmacol 1950 1002 The pencies of the stepheneous of the pharmacol 1950 1002 with addum hydroxide solution and the pharmacol statistic and by heating with addum hydroxide solution and the pharmacol statistic and by heating with addum hydroxide solution and the pharmacol statistic addition that the pharmacol statistic addition of the statistic addition of the Winght Antibiot and Chemather 1951 4 1196

The base may be determined by decomposing the sale with and um hydroxide extracting the base and utrating with hydrochloric and -R. Sunder An Fac Farm Odont Univ S Faulo 1955 13 85 per Anal t Abir 1958 5 964

Tablets of Benzathune Pennculiun (BP) Each tablet contains at least 90 per cent of the stated number of units of pennculiun determined by the BP method for the biological assay of antibiotics after prel m inary dissolution in dimethylformanude the limits of error (P=0 93) are \$0 to 123 per cent

Phenoxymethylpenicillin Calcium (B P Add 1 (c₁,1)₁,0,N₅)₅), Co 21(4,0 774 9 1: contains at least 870 per cent of total benicillins determined iodometrically and at least 830 per cent of phenoxymethyl penicillin determined spectrophonometrically both cilculated with reference io the drad substance the loss on drying at 105° is not less than 1 5 per cent

Decrementations: These constraintly benefitian may be usuaded cohorestendily. The solution equivalent is determined as not as blank prepared with a portion of the sample unactivated with situal or pencultanes: A method for the determination of phenosymethyl process. If a situation we get a situation of the sample in a situation of the sample in the sample in the situation of the sample in the sample in the situation of the sample in the situation of the sample in the sam

A colorimetric method involving different al extraction may be used to estimate phenoxymethylpericill in and phenoxymete c acid in samples from pencillin fermentations — J Birner Analyt China 1959 31 271

Phenorymethylpencellin Polassuum (B P Adl) C₁₁1₁,0N/S51 368 51 ferontami at least 870 per cent of total pencillania deter manda lodometrically and at least 830 per cent of phenoxymethyl pencillin determined spectrophotometrically both calculated with reference to the drad substance the loss on drying at 105° is not less than 1.5 per cent Capsules of Phenoxymethylpencillun (BP Add.) Each capsule contains phenoxymethylpencillun or phenoxymethylpencillun potassium equivalent to 92 5 to 107 5 per cent of the stated amount of phenoxymethylpencillin determined by the BP method for total pencillins in phenoxymethylpencillun

Tablets of Phenozymethylpenicillin (BP Add) Each tablet contains phenozymethylpenicillin phenozymethylpenicillin calcum or phenozymethylpenicillin poissuum equivalent to 92 5 to 107 5 per cent of the stated amount of phenozymethylpenicillin determined by the BP method for total peneidlins in phenozymethylpenicillin

PENTOLINIUM

Pentolimum Tartrate (B P) $C_{23}H_{41}O_{13}N_4-538$ 6 It contains 99 0 to the equivalent of 101 0 per cent of pentolimum tartrate calculated with reference to the dreid substance determined by titration with perchloric acid in dioxan the loss on drying at 105° is not more than 20 per cent

DETERMINATION A gravimetric method using ammon um reneckate is described -- R Okken Pharm Rechbl 1956 91 503

Injection of Pentolinium (BP) It contains 95 0 to 105 0 per cent of the stated amount of pentolinium tartrate determined gravimetrically by prec pitation with ammonium reineckate

Tablets of Pentolinium (BP) Each tablet contains 92 5 to 107 5 per cent of the stated amount of pentolinium taritate determined by the BP method for injection of pentolinium after preliminary extraction and filtration

PHENMETRAZINE

Phenmetrazune Hydrochlorde $(BPC) C_{11}H_{10}ONCI=213.7$ li contann 98 D to the equivalent of 101 0 per cent of phenmetrazune hydrochlorde calculated with reference to the drue aubstance datermined by titration with perchlore and in glacul acetic acid the loss on drying at 105° is not more than 1 0 per cent

PHENOL

Extra Pharmacopæia Vol JI 23rd Edn p 333

Oily Injection of Phenol (BPC) 1t contains 4 70 to 5 25 per cent w/v of phenol determined by extraction treatment with bromine addition of potassium iod de and titration of the liberated iodime with sodium throsulphate

PHOLCODINE

Pholoodine (B P C) $C_{ep}H_{ep}O_4N_F H_pO=416.5$ It contains at least 98 0 per cent of anhydrous pholodine calculated with reference to the dired substance determined by dissolving us in hydrokilonic calculated kitraturg with sodium hydrokinzide the loss on drying at 105⁴ is 4.1 to 4.7 per cent

Pholocdime Tartrate (BPC), $C_{st}H_{st}O_{ic}$, $3H_{s}O=752$ 7 It contains at least 98 0 per cent of anhydrous pholocdime tartrate calculated with reference to the dr ed substance determined by extracting the base

with chloroform dissolving in hydrochlone acid and back turating with sodium hydroxide the loss on drying at 80° under reduced pressure is 6 5 to 8 0 per cent

DETERMINATION The base may be extracted dissolved in N/10 sulphune acid and determined by back thration to pH4.8 Alternatively a spectrophotometric method based on the light absorption at 283 mµ may be used.--F S Stern and D R Wood J Phore Phoremacel, 1959 11 140

SEPARATION FROM MORPHIVE, CODEINE AND ETHYLMORPHINE. A chromatographic method is described—F Sabon and R Monnet, Bull Soc Plarm Bordeaux 1955 94 41

PIPERAZINE

IDENTIFICATION A micro precipital on reaction with bismuth potassium iod de is mutable for characteria ing pipersane and distanguishing it from 2 S-dimethyl p persaine —B Bensso Mikrochun Acta 1957 296 per Analyt Abstr 1958 5 1276

DITERMINATION Precipitation with tetraphenylboron sail followed by argeotimetric utration or precipitation as reinectate followed by hydrolysis and Volhard thration may be used — VI Hadeke Pharm Zentralh 1958 97 365

A turbidimetric determination with Nessler a reagent is described -- R P Chakravarti and N K. Dey J Inst Chem (India) 1959 31 53 per Analyt Abirt 1960 7 1555

Piperazine is treated with acetic anhydride and the diacetate extracted and determined gravimetrically or spectrophotometrically at 1000 µ Results on standard samples agree within 1 per ceot.-W R Maynard Jr J Att off agric Chem Bash 1959 42 610

Piperazine may be determined in the presence of ethylenediamane by precipistion with copper sulphate in the presence of dethylenetriamine potent ometric turstion or a two-indicator turstion can be used -L. Nebbia and B Pagan Chim e Industr 1959 41 870

Paperanne is precipitated with mercuric chloride and the excess of respent determined complexometrically with sod um edetate -] Erben Cil Farm 1959 8 18 per Analyt Abirt 1959 6 4953

DETERMENTATION IN MIXTORES, Certain maximum of p perse or with solal codence phosphate quantum hydrochlonde papavernie hydrochlonde heatmine and urea may be analyted by the Noffer numeri refractionments method -1 Selects and J Pokorný Mikrechum Acta 1957 103 per Analyt Abitr 1957 4 3107

DETERMINATION IN FIEDS AND CONCENTRATES A method involving chromato graphic separation and graymetric determination as dip crate is described — M L Leng J Ait off agric Chem Wash 1957 40 1059

Piperazine Adipate (B.P) $C_{19}H_{12}O_{4}N_{1}=232$ 3 It contains at least 98 5 per cent of piperazine ad pate calculated with reference to the dred substance based on the n trogen content determined by the Kieldahl method the loss on dryng at 105° is not more than 0.5 per cent

DETERMINATION A formal strat on method is described -- R Sumanovici et al. Rev. Chim. Bucharett 1959 10 105 per Analyt. Abstr. 1959 6 4154

Tablets of Piperazine Adipate (BP) Each tablet contains 92 5 to 107 5 per cent of the stated amount of piperazine adipate based on the nitrogen content determined by the Kyeldah method

36

Picadex (B Vet C Supp) $C_3H_{16}N_5S_2=162.3$ it contains at least 980 per cent of picadex, determined by decomposing the complex with sulphuric acid, converting the carbon disulphide to potassium ranthate, and titrating with sodime

Transfer about 0.4 g to a finks forted with a reflux condenser, a stoppered nucle ann, and a nar lesk rescharge situatos to beotomo of the finks, kield 30 mi of water and connect the condenser to an absorption trans constitute of 50 ml of solution of particle of 50 ml of varies allowing 100 g, of poissuum hydroxide in 100 ml of water allowing the by dissibuting to the solution present of the solution poisson of the solution of the solution present of a solution of the solution present of the solution of the solution present of a solution of a solution. Repeat the solution to 0 for solution to 0 for solution to 0 solution to 0 solution of a starb as onlicitors. The solution of the solution

Piperazine Citrate (BP Add) $C_{zy}H_4O_4N_4 = 642.7$ It contains at least 95 5 per cont of piperazine citrate, calculated with reference to the anydrous substance, based on the nitrogen content determined by the Kjeldahl method. The water content, determined by the Kast Fischer method, is 100 to 14.0 per cent

Elizir of Piperazine Citrate (BPC) It contains 14 3 to 17 1 per cent w/v of piperazine citrate, based on the nitrogen content determined by the Kjeldahi method

Tablets of Piperazine Citrate (B Vet C Supp.) Each tablet contains 79 5 to 95 0 per cent of the stated amount of piperazine citrate (calculated as anhydrous), determined gravimetrically as piperazine dipierate

Piperazine Hydrate (BPC) $C_4H_{16}N_3$, $6H_1O=1942$ It contains at least 98 0 per cent of piperazine hydrate, determined gravimetrically as piperazine diplorate

Paperazine Phosphate $(B P) C_4H_{14}O_4N_4P, H_4O=202 2 It contains$ at least 98 5 per cent of anihydrous paperazine phosphate, calculated withreference to the anihydrous substance based on the introgen contentdetermined by the Kipldahl method The water content, determined bythe Karl Fischer method, is not more than 9 0 per cent

Tablets of Piperazine Phosphate (BP) Each tablet contains 92 5 to 107 5 per cent of the stated amount of piperazine phosphate, based on the nitrogen content determined by the Rjeldahl method

PIPRADROL

Pipradrol Hydrochlorde (BPC) $C_{1}H_{10}$ OVCl=303 8 It contains 98 0 to 102 0 per cent of papradrol hydrochloride, calculated with reference to the dired substance determined by titration with perchloric acid in glacial acetic acid the loss on drying at 105° is not more than 10 per cent

DETERMINATION The separation of the base by ion exchange is described -B Grefsgård Medd north farm Selsk, 1959 21 25

POLYMYXIN

Polymyxun B sulphate (B,P) It contains at least 6000 units per mg, calculated with reference to the dred substance determined by the BP method for the biological assay of antibiotics, the limits of error $(P \ 0.93)$ are S0 to 125 per cent, the loss on drying t if Oa at pressure not exceeding 5 mm of mercury for 3 bours is not more than 8 0 per cent

DETENDINGTORY The effect of neorement as the plate assay for polymyran B with Bordetile boostnespice (ATCC 4617) has been studied. A noncorrant as provided for correcting the results when using samples of known neoryper outside of the Denomified Methods and Denomified 1934 the content of the presence of neuron-order of the data plane plane tails. See Lin 1955 44 211

A plate diffusion method with Bordetilla branchizpites is described together with modifications for only solutions and onitiments of polymyrin II with bactracin A gravimetric determination based on the precedition of polymetride as tungstophicaphates is described it may be modified for the stays of tablets and set drops - R E A Drey et al J Phane Plannacol 1955 7, 706

ear drops - R E A Drey et al J Phase Planmeel 1955 7,705 Modifications which increase the sent twity of the FDA plate assay with Bordetella bonchrepica are desembed - B Arret and A Kirshbaum Antibiot and Chromother 1955 6 95

A general method using Exchence is coli (ATCC 10536) applicable to poly myx n is described -D M Wintermere et al Antibiot and Clemother 1957 7 189

A colonmetrie determination based on reaction with copper sulphate in the presence of slkal is desembed --V D harteevs and B P Bruns Zhur and Khm 1959 I4 638 per Avolst Abstr 1960 7 2936

SEPARATION FROM OTHER POLYMYRINS Paper chromatographic methods are described -- R E A. Drey J Phorm Plannacol 1955 7 706 and A. G Mistretta Anthola and Chemother 1955 6 196

POLYRICINATE

Polyrrecnate (B) Vet C Supp.) No assay is described for this preparation but it has a known the vacousity at 20° of 300 to 500 constrakted, determined by the BP method for hourd parafin the acid value is not more than 2 and the sponsification value is 130 to 140 The water content determined by the Karl Fischer method is not more than 0 2 per cent with

POTASSIUM PERCHLORATE

Potassum Perchlorate (BP Add) KClO₄=138 6 It contains at least 99 0 per cent of potassum perchlorate determined by titration with silver natrate solution after fusion with ammonium chlorade

Tablets of Potassium Perchlorate (B.P. Add.) Each tablet contains 92 5 to 107 5 per cent of the stated amount of potassium perchlorate, determined by the B.P. Addendum method for potassium perchlorate

PRIMAQUINE

Primaquine Phosphate (B P) $C_{18}II_{77}O_{18}N_{2}P_{4}=4554$ it contains at least 97 5 per cent of primaquine phosphate calculated with reference to the dried substance determined by thration with sodium nitrite, it e loss on drying at 105° is not more than 0 5 per cent Tablets of Primaguine (BP) Each tablet contains 90 0 to 1100 per cent of the stated amount of primaguine phosphate determined by tiration with sodium intrite

PRIMIDONE

Primidone (BP) C₁₂H₁₆O₂N₄=218 3 It contains at least 98 5 per cent of primidone based on the nitrogen content determined by the N₂eldahl method

Tablets of Primidone (BP) Each tablet contains 950 to 1050 per cent of the stated amount of primudone, based on the nitrogen content determined by the k-jeddahl method

PROBENECID

Probenecid (BP Add) $C_{12}H_{14}O_4NS=2854$ It contains at least 980 per cent of probenecid calculated with reference to the dried sub stance determined in alcoholic solution by utration with sodium hydrox ide solution the loss on drying at 105⁵ is not more than 0.5 per cent

Tablets of Probenecid (BP Add) Each tablet contains 950 to 1050 per cent of the stated amount of probenecid determined spec trophotometrically after extraction with alcohol

DETEMPIATION IN BOOF FLUIDS. Probeneral may be determined after extraction into chloroform either expectipobouentinally by rectrinsticut with siluli and messurement of the optical density of the alkeli layer at 242 mu or colormetrically at 53 m by more assurement of the entent by of the colour formed in the colour formed is non-balance with methylene blue solutions at p17. The and methodized is the silvest of the solution at p11. The and metholices -E. It follows of all //2 assures (1934) 12.85

PROCYCLIDINE

Procycludine Hydrochloride (B P) $C_{19}H_{10}$ /Cl=3239 It contains it least 90 per cent of procycludine hydrochloride calculated with reference to the dried subtance determined by extracting the base with ether dissolving in hydrochloric aced and back triztaing with sodium hydroxide the loss on drying at 105° is not more than 0 5 per cent

ULTRAVIOLET SPECTROPHOTOMETRY The importance of using narrow slits in the BP test for 1 ght absorption is demonstrated —A R Rogers J Pharm Pharmacol 1959 11 201

Tablets of Procyclidine Hydrochloride (BP) Each tablet con tains 90 0 to 110 0 per cent of the stated amount of procyclidine hydro chloride determined by extracting the base with ether dissolving in hydrochloric acid and back turrating with sodium hydroxide

PROMETHAZINE

Extra Pharmacopera Vol II 23rd Fdn p 352

DETERMINATION I romethaz ne may be t trated polarograph cally with tungstosil cic acid -- J Blažek Cal Farm 1956 5 210

Grainmethe potentionethers and columnetize nurve methods based on the precipitation of promethat ne as respectate are described ~P Spacu and E. Antonescu Acod R P R Stud Certet Chun 1959 7 247 per Analyt Abtr 1960 7 1551

Promethazine may be determined colonimetrically with palladium chloride The method may be modified for the determination of promethazine in the presence of chlorpromazine and promazine —L Cavatoria J Pharm Pharmacol 1939, 11 49

The method of G Duäinsky and O Liškova may be used for promethazine (See abstract under Chlorpromazine p 16)

Promethazme Theoclate (BPC) $C_{11}I_{17}O_{15}SCI=4991$ It contains 55 to 57 5 per cent of promethazme $(C_{17}H_{15}V_{15})$, determined acdimetrically on the extracted base, and 42 0 to 44 0 per cent of theoclac acid $(C_{21}H_{10}V_{15}C)$, determined by precipitation with silver initrate, filtration, and had intration with animonium thicematrixe, filtration, and had intration with animonium thicerates.

PROPANTHELINE

Propantheline Bromide $(B P) C_{11}H_{19}O_3NBr=448 4$ It contains 98 0 to the equivalent of 102 0 per cent of propantheline bromde, calculated with reference to the dird substance, based on the nutrogen content determined by the Kyeldshi method, the loss on drying at 105° is not more than 2 0 per cent

DETUNITION Programble broade may be assayed by polarographic dirtation or envolventrally with uncetooldic call. The average error reported was ± 1 per cent for the pure subtaince, ± 2 per cent for tablets by polarography and ± 3 per cent and ± 3 per cent into the programble state of the programble of the pro

Tablets of Propantheline (BP) Each tablet contains 925 to 1075 per cent of the stated amount of propantheline bromide, determined by the Volhard method

PROPYLHEXEDRINE

Propylhexedrine (B,PC) $C_{10}H_{11}N=155$ 3 It contains 9% 0 to the equivalent of 101 0 per cent w/w of propylhexedrine, determined by dissolving in sulpharine acid and back turating with sodium hydroxide

PROTAMINE SULPHATE

Injection of Protamine Sulphate (B,PC) It contains 900 to 1100 per cent of the stated amount of protamine sulphate determined by a method based on neutralisation of the anticoagulant property of heparm and nitrogen equivalent to 210 to 25 per cent of the stated amount of protamine sulphate, determined by the kyeldahl method

PYRIDOSTIGMINE

Pyridostigmine Bromide (BP Add) $C_1H_1O_1N_1Br=2611$ 11 contains at least 95 5 per cent of pyridostigmine bromide, calculated with reference to the dired substance determined by turation with perchloric acid in dioxan, the loss on driving at 105° is not more than 20 per cent

Injection of Pyridostigmane (BP Add) it contains 95 0 to 105 0 per cent of the stated amount of pyridostigmune bromide, determined spectrophotometrically

Tablets of Pyridostignine (BP Add) Each tablet contains 92 5 to 107 5 per cent of the stated amount of pyridostignine brounde, determined spectrophotometrically

40

RAUWOLFIA

Extra Pharmacoptens Vol 11 23rd Edn, p 361

Rauwolfia Serpentina (USNF) It contains not less than 0 15 per cent of the reserpine resumamme group of alkaloids, calculated as reserpine when assayed by a method almost identical with that described below

DETERMINATION The following method for the determination of reservine like alkaloids is based on the report of the Rauwolfis Panel of the Joint Commutee of the Pharmaceuteal Scorety and the Society for Analytical Chemistry on Methods of Assay of Crude Drugs (*Analysi* 1960 85, 755)

Accurately weigh a suitable quantity (2.5 g of Rauvallia serienting or R complete root or 1 g of R complete root back in No 60 non-der) and triturate with 10 ml of acetic acid solution (5 per cent viv in alcohol 95 per cent) Allon to arend stirring occasionally and extract with alcohol (95 per cent) for 4 hours to many number of the second second second second (35 per cent) for a non-in a Saxhier apparatus protecting the appartus from light, cool the extract and dlue to 100 ml with alcohal (35 per cent). Transfer 20 ml of this extract to a separator containing 200 ml of 0 SN subphane and extract with three successive quantities each of 25 ml of inchlopoethane washing each of the trichloroethane solutions with the same 50 ml of 0 5N sulphune acid contained in a second separator and discard the trichloroethane solutions Extract the msin sulphuric acid solution with successive quantities of 20 15 15 15 15 and 15 ml of chloroform washing each chloroform extract with the sulphurie seid contained in a second separator Filter the chloroform extracts through cotton wool and dilute to 100 ml with chloroform Place 20 ml of this solution in a boiling tube evaporate to dryness on a water bath in a current of warm air protecting the tube from light add 10 ml of alcohol (95 per cent) and 2 ml of 0 3% sulphure acid warm to dissolve the residue and add 2 ml of a 0 3 per cent w/s aqueous solution of solution mittets Warm in a water bath at 55 for 30 minutes protecting the solution from light cool add 1 ml of a 5 per cent w/v equeous solution of sulphamic acid transfer the contents of the tube to a 20 ml fisk, and dilute to 20 ml with alcohol (23 per cent) Determine the estinction of a 1-cm layer of this solution at 390 mm spainst a control solution prepared by similarly treating 20 ml of the chloroform solution but omitting prepared by annuary treating 20 mil of the chieotoorn solution but omitting the sodium initial. For many purposes results may be calculated from an E(1 per cent 1 cm) value of 400 for reserptine. A standard curve may be pre-pared using standard solutions containing 100 200 and 300 μg of reservice in 10 ml of stoched (95 per cent)

Information on assays based on extraction of the skalads followed by grave metric or volumentic determination is given in the following papers. Lifeloament metric of volumentic determination of 1954 237 75 per Amblit Abir 1954 [1340 P F Pillay et al.] Inde an J Phane 1953 17 93 F. Nouveld and W. Lores Arch Pharm Berl 1956 239 236 per Amblit Abir 1957 4123 B Bose J Init Chem (Inde) 1957 29 166 per Amblit Abir 1953 5 1331 B K. Nora J Init Chem (Inde) 1958 20 113 per Amblit Abir 1953 6 700

Information on colommetric methods using mitter is given in the following papers D Banes et al J Janes pharm Ai S are Edit 1956 63, 708 D Banes Drug Stand 1957 25 61 D Banes et al J Amer pharm Air, Sci Edit 1958 47 615 A colometric method using minimonium reineckate is given by 11 Wunderich Plarm Zentralh. 1957 96 68. The following, methods of stars 11 is glus hear reported chromatography.

The following, methods of sites J is a slow here reported chromotography between the spectra ph tometric determination of the 1 between term the between and transition preservations and the spectra of the start of A is off agric (1 or m 10 and 1055 33 86 J Carol et al J Amer pharm Ans Ser Lin (966 4) 200 electroph tests and thus unneity or gravinety -h. A line red and V M Uskhul hadres J Pharm 1955 8 100 determination of total abloadus (ree from reservate by change in bload pressure in hypotensize dog--R B. Arous and V N. Bhargue radie a J Pharm 1956 (8 203 paper chromatography and fluorametry — B P. Korzun et al J Amer pharm Ass Sci Edn 1957 46 720 extraction of reserp ne by counter-current d strr but on and spectrophotometric determination — D A A kidd and P G W Scott J Plarm Pharmacol 1957 9 176

INFRA RED SPECTRA Differences in the infra red apectra of rescripine and rescripine conta n ng 20 per cent of descriptione are described and illustrated — W C Evans Phorm J i [1958 129

Reservance $(BP) \subset_{0,1}H_{20}Q_{10}-608.7$ it contains 98.5 to the equivalent of 101.5 per cent of reservance calculated with reference to the dried substance determined by turation with perchlore acid in glacal acetic acid the loss on drying for 2 hours at 60° under reduced pressure is not more than 1.0 per cent

847 DETEMINATION Information on colorimetric or fluorimetric methods as given — R. C dA dc C Boans New Area beyon argent 1955 22 239 D Banes J Amer Pharm Alv Sin Cale 1953 44 058 R C Booth lube 1956 d5 86 R D Detchen wold 39 276 66 N Stocki, Cul Form Water J Amer Pharm Alv Sin Cale 1956 C N Stocki, Cul Form Water J Amer Pharm Alv Sin Cale 1956 A 50 20 N Almanell and M G Allmark Drug Sined 1956 24 6 J June Cil Farm 1957 6 299 nev Analy Advir 1958 5 1964 D Banes J Amer John M Stocki Alv Sin Mannell and M G Allmark Drug Sined 1956 24 6 J June Cil Farm 1957 6 299 nev Analy Advir 1958 5 1964 D Banes J Amer J John Sin K 1956 1957 46 601 K G kaebs and N Further 1958 47 357 E and N Kishin and pharm jung 1958 16 756 G L Stender Arch Pharm Birl 1958 291 151 per Analyt Advir 1959 6 1007 C A De Fel ce Experiments 1958, 11 39 per Analyt Ameril Advir 1959 6 4133 A W M Indemant Information on spectrophetometric methods (with chronatographet exp

Plane in Reds 1959 39 1 parametrics methods (with chromatograph e sepantion where appointed) is grown — B H Sabai and E J Merriell J Amerpharm Aut. So Ear 1954 43 709 D Banes et al. to 1955 43 660 Wi Harelt and E F Hamilow J Amer pherri Am. So Eds 1955 43 640 Wi Harelt and E F Hamilow J Amer pherri Am. So Eds 1955 43 640 Wi We Niversed J-J Am off agree Chron Kash 1958 44 666 A L Hayden et al. J Amer Pherri Am So Eds 1957 47

ctor a same parm ass per can 150 at 151 Chromotograph a separation of reserve ne from related compounds is de serbed—R J Boscott and A B Kac Noture Lond 1955 176, 1077 F Machovicová Cil Farm 1957 6 300 pec Analyt Abitr 1958 5 1965

A spectrophotofluormetric method for the determinat on of reservine in admixture with resonance is described. The error is less than + 3 per cent -R P Haycock et al. J Amer pharm Asis Ser Edn 1959 48 479 A spectrophotometric method is described. It may be applied to the deter

A spectrophotometric method is described it may be applied to the determination of reserve ner in tablets and crode root extracts with an error of about ± 4 per cent —B C. Bose and R. Upsyvargiya J. Pharm. Pharmacol. 1959. If 456

DETERMINATION IN TISSUE AND PLASMA, A fluorumetric method using sele nous acid is described -S M Hesa et al J Pharmacol 1956 118 84 Tablets of Reservine (BP) Each tablet contains 90 0 to 115 0 per cent of the stated amount of reservine determined spectrophotometrically

SALICYLIC ACID

Extra Pharmacongna Vol II 23rd Edn p 364

Application of Salicylic Acid and Sulphur (BPC) it con tains 19 to 23 per cent of sulcylic acid determined bromometrically and 19 to 23 per cent of sulphur, determined by the BP method for sulphur ontiment

SODIUM CALCIUMEDETATE

Sodium Calciumedetate (BPC) $C_{12}H_{12}O_{13}N_{2}CaNa_{3}=374.3$ It contains 97.0 to 103.0 per cent of sodium calciumedetate calculated with reference to the dired substance determined by titration with ferme chloride the loss on drying at 130° is 8.0 to 11.0 per cent

Dermanization, Calcium in determined by senting dissolving in hydrochore as an and triarang with d sodium celester with Encohrome Black T ind cator. Calcium plus sod um is determined by geniting dissolving in perchlore as if an propense schröftede and triarbang with sprichne propensions and to the yellow green end point of malachite green --C Hernart and E Merlin Chan and 1936 40 345 per Andri Adair 1939 6 2217

DETENSIVATION OF EDETIC ACID IN URINE AND SERIAR The quantity of nicked which combines with desire acid in the sample 13 determined ecolormetrically with dimethylolyoxime —D C Smith and S C Tompsett J clin Path 1953 11 365

Injection of Sodium Calciumedetate ($B \ t \ et \ C \ Supp$) It contains 22 5 to 27 3 per cent w/v of sodium calciumedetate determined by itration with lead nutrate

SODIUM RADIO IODIDE

Sodium Radio sodice (^{m}I) Injection (BP) It contains 95 0 to 105 0 per cent of the stated amount of sodine 131 (as sodide) at the stated time determined by comparison with a standardised sodine-131 solution using a suitable Gener Müller counter

Sodium Radio iodide (¹¹I) Solution (BP) It contains 950 to 1050 per cent of the stated smount of iodine 131 (as iodide) at the stated time determined by comparison with a standardised iodine 131 solution using a suitable Gener Muller counter

DETERMINATION Methods of assessing the radioactivity by absolute measure ments and by comparison with standard preparations are described -J J lina) on and J E Christian J Amer pharm Ais Set Edn 1955 44 631

DETERMINATION OF IODINE 131 IN THTEOD GLANDS A method of extraction and determination of β act vity is described in the United Kingdom Atomic Energy Report IGO ANJ/N 114 (1958)

Detrainstructure of lower 131 per Senuer AND PLANIS Paper chromoto graphic methods are derive here -R J Block et al. Artic Bachern Blochyn-1938 73.9 per Andyl Abur 1958 5.3432 Samples of block in which cells are labelled with chrom um 51 and playma as habelled with one 131 may be assysted by determining the y setty terd due to the two informations with a two chromosystem. An advance and 14.2 key setty and the setty of the two pulse-beg that malyser -R Advance at all -R and R 55 \$2.754

DEFERMINATION OF IODINE 131 IN URINE. A method of extraction and β counting is described Recovering of 751 to 82 per cent are reported -J T Marriet Marinet 1959 84 33

SODIUM RADIOPHOSPHATE

Sodium Radiophosphate ("P) Injection (BP) It contains 95 0 to 105 0 per cent of the stated amount of phosphorus 32 (as phosphate), at the stated tume, determined by comparison with a standardised phosphorus-32 solution using a suitable Geiger-Müller counter

Solium Radiophosphate (**P) Solution (B P) It contains 95 0 to 105 0 per cent of the stated amount of phosphorus-32 (as phosphate), at the stated time, determined by companion with a standardised phosphorus-32 solution using a suitable Geiger-Müller counter

SULPHONAMIDES

Extra Pharmacopten Vol II, 23rd Edn. p 389

In the BP 1958 method for the assay of subhonamides the endpoint is determined electrometrically instead of using starth-iodide paper as external inducator, and the directions to adjust the temperature to 15° and tittate slowly, which appeared in the previous edition, have been comitted

Isolation and Identification

See also under individual sulphonamides

COLOUR REACTIONS AND PRIFICATIONS OF DESIVENTING Colour reactions unit optic activity as described—A Guadoward, Phann Wirkel, 1937, 22, 913 Miling points and equivalent weights are given for N^{1} -energy derivatives of 12 unphonamides and meling points are given for N^{1} -energy derivatives of 12 milino and the second strain and the second strain and the second strain rather Farm, 1957, 31, 31 The preparation of Schift is have with Schemer, 3 definitions and suphonsimides—Takeo Taskimons and Kennekle Jula, J phone and J Achelone Takeo Taskimons and Kennekle Jula, J phone and J Achelone Takeo Taskimons and Kennekle Jula, J phone and J Achelone Taskimon and Kennekle Jula, J phone and Josef 20, 21, 70

ELECTROPHORESIS Separation of a number of commercial sulphanamides in described -- A. Októ and V. Joki Cal Farm, 1955, J. 219 per Analst. Abir. 1956 3, 535 Paper chromatography and electrophoresis are used for the separation of sulphaniamide, sulphagumdine, sulpharmethizole sulphainiarrole. sulphasolucin and sulphasimidine —M Commerstal. Ann pharm from 1957 15 156 The separation and identification of sulphamilanude sulphasumatine sulphasianuse sulphameranus esilphasimizatione philaiphisiphishasale secton inde and phemeetin, are described.—Jshyos kinosluts et al. Japan Analyst, 1957, 6 219 per Analyz Abir 1958 5 692

Determination

See also under individual sulphonomides

VOLUMETRIC METHODS Bromometric and mitrite titration methods are compared -P L de Reeder Analyt chum acta 1953 9 314 per Analyt Abstr 1954 I 570 Non soucous titration with sodium methoxide in benzene-methanol or pyridine gives results in agreement with the nature titration method for auf phathuazole sulphadiazine sulphamerazine sulphadimidine and auccinvi platinistics application is subplating the subplating of the second state of the subplating of the second state of the subplating of the s amine with andium methozide p-nitrophenylazoresorcinol being used as indicator Some sulphonamides can be determined argentimetrically -P L indiction Some suppromitmees can be determined argenimetrality — 1 de Reeder Analyt chim acta 1954 I 0413 per Analyt Abir 1954 I 1960. A rutromstric deterministico is desembed — Masshsriu Yamagishi and Makoto Yakoo J phorm, Sac Japan 1954 74 961 N¹ 3 4-dimethylbenzovisulphanil snude sulphafurazole and sulphadimidine mity be titrated with sodium meth oxide in pyridine or benzene methanol the standard deviation of the mean is about ± 0.3 per cent—toshuo Tajuka and Makoto Aikawa J pharm Soc Japan 1954 74 1125 Conductmentic utration of sufphonamides dissolved in alcohol or scetone against sodium hydroxide iodic scid and silver nitrate is described --C G Macarorici Rev Chim Buchariti 1936 7 79 par Analyt Abitr 1937 4 1965 A modified Vas Silyte method suitable for sulphomanudes is described -Daizo Shimoe Japan Analyst 1956 5 617 per Analyst Abstr 1957 4 3019 The end point of the nitrite titration of sulphonamides may be a suitable internal indicator in titrations of sulphonamides with nitrite -Tao Duenn Acta pharm muca 1957, 5 97 An acetylation method for the deter Mutation of algebon mind is in powders tables and include to the better K. N. Gaud and D. P. Punn Ind on J. Pharm 1957 19 279 Volumetric and gravingtic methods using aiver nutrities are described —Lee Kum Tati Analyst 1957 82 185 Under suitable conditions dead stop titration of sul phanilamide with nitrite may be carried out with an error of about 1 per cent.-Takehisa Enoki and hatsuaki Morizaka J pharm. Soc Japan 1958 78 432 Determination of sulphonamides with perchloric and in glacial acetic acid by back intration is described.-J Meulenhoff Pharm Weekbl 1958 93 262

Sulphacetamide (BPC) (Vol II 23rd Edn, p 391) C₃H₁₈O₃N₃S =214.3 It contains at least 98.5 per cent of sulphacetamide deter mined ultrimetrically with sodium nitrite as in the BP method for sulphonamides (see above p 44)

DETERMINATION Sulplacetsamide sulphanitylures sulphafurazole and phthalysulphathuszole may be determined with an average error less than ± 0.3 per cent by intration with sodium methozide in pyridine—J Vacck and J britemat Cil Form 1956 5 80 per Ansfyr Abstr 1958 5 218

Subpacetamide Sodium (BP) C₂H₂O₁N₂SN₃ H₂O=254.2 It contains 90 to the equivalent of 1010 per cent of anhydrous subpacetamide sodium calculated with reference to the dried substance, determined turmetrically with sodium nutrite by the BP method for subpanamides (see above p 44), the loss on drying at 150° is 6.0 to 8.0 per cent

DETERMINATION Sulphacetamide sodium sulphanilamide and procaine may be determined colorimetrically to within ±5 per cent by reaction with sodium nitrite and 8 hydroxyquinoline --- N I Krikova Med Prom SSSR 1956 41 per Analyi Abur 1957 4 2783

DIFFUSION FROM ONTMENTS A cylinder plate method is described -- E M Plein and J B Plein J Aner pharm Ass Sci Edn 1957 46 716

Eye Omtiment of Sulphacetamude (B, P) (Voi 11 23rd Edn p 391) It contains 94 to 1060 oper cent of the stated amount of sulphacetamude sodium (monohydrate) determined utrimetrically into the solution mattee by the BP method for sulphonamude (esc above n self) luminary extraction with dute hydrochlore and from a solution of the ontment in light petroleum and solvent ether

Sulphadiazine (B P) (Vol II, 23rd Edn p 391) $C_{19}H_{19}O_8N_8S=$ 250 3 It contains at least 99 0 per cent of sulphadratine calculated with reference to the dred substance determined titimetrically with sodum nitrice by the B P method for solphonamides (see above p 44) the loss on drying at 105° s not more than 0 5 per cent

IDENTIFICATION The characteristic crystal form and intense fluorescence of the Schiff a bases with anishdehyde or ρ hydroxybenzaldehyde may be used for the identification of sulphaduszine —1 Tachudi Steiner Pharm Acta Helizet 1988 33 105

DETERMINATION Sulphsdiazane sulphapyridine and sulphasomidine may be determined by anodic polarography with a seproducib lity of about ± 2 per cent In the presence of blood or unne the method is unsatisfactory -J D Voorhes and R N Adam Andly Chem 1955 30 346

Tablets of Sulphadiazine (B P) (Vol II, 23rd Edn p 392) Esch tablet contains 95 0 to 105 0 per cent of the stated amount of sulphadiazine determined titmetrically with sodium nitrite by the B P method for sulphonamides (see above p 44)

Sulphadiazine Sodium (BPC) C₁:H₄O₃N₄SNa=272 3 It con tains at least 98 5 per cent of sulphadiazine sodium determined ittri metrically with sodium nitrite by the *BP* method for sulphonamides (see above p 44)

Sulphadimidine (B P) (Vol II, 23rd Edn p 393) $C_{11}H_{14}O_{14}N_{5} = 278$ 3 1: contains at least 99 0 per cent of sulphadimid ne calculated with reference to the dned substance determined turnerically with sodium nitrite by the B P method for sulphonamides (see above, p 44) the loss on driving at 105° is not more than 0 5 per cent

IDENTIFICATION The characteristic crystal form and intense fluorescence of the Schiff's have with p dimethylamunobenzatidehyde may be used for the ident fication of subphasmud ne —I Tachudi Steiner Pharm Acta Heltet, 1958 33 105

Dermainserton Sulphad midme may be determined within ±2 per cent by heating with an alcoholic solution of alskyldshyldsheat and measuring the colour produced -C G Budre and P H B Ingle J Warm Pharmacel 1954 6 OG Sulphadmide is converted base and the converted or practice theory of the solution of the solution and the converted or practice in boronasion in actets and solution and distance and the extent of boronasion in actets and solution and distance and the extent of boronasion in actets and solution and distance and the extent of boronasion in actets and solution and distance and the extent of boronasion in actets and solution and distance and the extent of boronasion. The solution and distance and an algobard and it Thooras. Power discus 1951 J 705 Balandiumdine uphathasole and phalaphalphalphalphalphalphad may be determ near in tables by arcritication for any of the solution and distance and the solution of the formation of the solution of Mixture of Sulphadimidine for Infants (BPC) It contains 128 to 145 per cent w/v of sulphadimidme, determined by the following method

Dissolve 5 g by warming gently in 75 ml of water and 10 ml of hydrochlonic seid, cool and utrate with M/10 sodium mitnite determining the end point electrometrically each ml of M/10 sodium nitrite is equivalent to 0.02783 g of C₁H₁O₁N₂S. Determine the weight per ml and calculate the proportion of C₁H₁O₂N₂S weight in volume

Tablets of Sulphadiumidine (B P) (Vol II, 23rd Edn, p. 393) Each tablet contains 95 0 to 105 0 per cent of the stated amount of sulphadiumidine, determined turumetrically with sodium nutrite by the B P method for sulphonamides (see above, p. 44)

Sulphadimidine Sodium (BP) (Vol III, 23rd Edn, p. 393) ($C_{1}H_{10}O_{1}SNs=300$ 31 to contain 98 0 to the equivalent of 101 0 per cent of sulphadimidine sodium, calculated with reference to the dried substance, determined turnerically with sodium initiae by the B_{LP} method for sulphanamides (see above, p. 44), the loss on drying at 105° is not more than 2 0 per cent

Injection of Sulphadimidine (B.P) It contains 94 0 to 105 0 per cent of the stated amount of sulphadimidine sodium, determined ititimetrically with sodium nitrite by the B P method for sulphonamides (see above, p. 44)

Sulphafurazole (B.P.C) (Vol II, 23rd Edn, p 393) C₁₃H₃O₃N₃S =267 3 It contains 98 5 to the equivalent of 101 0 per cent of sul phafurazole, determined by utration with lithium methoxide in dimethyl formamide

DETERMINATION Sulphifurizole may be determined by intration with silver nutrate in the presence of sodium borate. The method may be applied to tablets and solutions for injection and is stated to be accurate to within ± 1.6 per cent -7 Blatck and Z Stejskal Cil Farm 1956, 5 27 per Analyt Abir, 1956, 3 2557

Sulphaluratole may be acetylated with acetue anhydrode un pyndine and the precipitated acetylaulphaluratole dissolved in acetone and titrated with sodium intitle Direct intration of sulphaluratole with sodium intrites not satisfactory — Toyozo Uno et al., J pharm Soc Japan 1959 79, 113 See size abstract under Sulphacetanude

DETERMINATION IN BLOOD AND PLASMA The method of Bratton and Marshall (J had Chem 1939 123, 537, see also Vol 11, 23rd Edn p 1224-5) is applied to tricliforaceuts acid extracts of blood and serum and a correction factor applied to allow for loss by adsorption —H L. Rosenthal and L. Jud J Lab Lin Med. 1939, 54 461

Tablets of Sulphafurazole (B Vet C Supp.) Each tablet contains 95 0 to 105 0 per cent of the stated amount of sulphafurazole, determined by titration with lithuum methoxide in dimethylformamide with thymoi blue as indicator

Subphaguanidanc (B P) (Vol II, 23rd Edn, p 393) C.H., O.N.S, H, O=232 3 It contains at least 99 0 per cent of anhydrous subpha guandune, calculated with reference to the drued substance, determined terminetically with sodium nume by the B P method for subphanamoles (see above, p 44), the loss on drying at 105° is 5 0 to 8 0 per cent

DETERMINATION See abstract under Sulphadunadine p 46

Tablets of Sulphaguanidine (BP) Fach tablet contains 95 0 to 105 0 per cent of the stated amount of sulphaguanidine (monohydrate). determined titrimetrically with sodium mitrite by the $B P_r$ method for sulphonamides (see above, p 44)

Sulphamerazune (B P) (Vol 11, 23rd Fdn, p. 394) C₁₁H₁₂O₁V₅S = 264 3 lt contains 99 0 to 101 0 per cent of sulphamerazune, calculated with reference to the dired substance, determined ittrimetically, with sodium antirite by the B P method for sulphonamides (see above, p. 44), the loss on drying at 105°s is not more than 0.5 mer cent

Tablets of Sulphamerazine (B P) (Vol II, 23rd Edn, p 394) Each tablet contains 95 0 to 105 0 per cent of the atated amount of sulphamerazine, determined titrimetrically with sodium nitrite by the B P method for sulphonamides (see above, p = 44)

Sulphanilamide (BPC) (Vol II, 23rd Edn, p 389) C₃H₁O₃N₃S= 172 2 It contains at least 98 5 per cent of sulphanilamide, determined utmetrically with sodium nitrite by the BP method for sulphonamides (see above, p 44)

DETERMINATION Tetration in pyridine may be used --R h. Maurmeyer et al, Alikrochim Acta, 1959 177, per Analyt Abirr, 1959 64464 See also abstrate under Sulphacetamide Sodium, p 45, and Sulphadimudine p 45

DETERMINATION IN BLOOD SERVE An ultra nucro method besed on diazonsation and coupling with N-1-naphthylethylenediamine is described --R P MacDonald and J Ploompuu Mikrochim Acta 1958 147 per Analyt Abirr, 1958 5, 3439

Sulphapyridine (B P C) (Vol II, 23rd Edn, p. 394) $C_{11}H_{11}O_{1}N_{1}S =$ 249 3 It contains 98 5 to the equivalent of 1010 per cent of sulphapyridine, determined infimientically with sodium nitrite by the B P method for sulphonamides (see above, p. 44)

IDENTIFICATION See abstract under Sulphamerazine

DETERMINATION See abstract under Sulphudiazine p 46

Tablets of Sulphapyridine (BPC) Each tablet contains 950 to 1050 per cent of the stated amount of sulphapyridine, determined terminetrically with sodium nitrite by the BP method for sulphanimules (see above, p = 44)

Sulphasomidune (B PC) (Vol 11, 23rd Edn. p. 395) $C_{14}II_{14}O_{1}N_{15}S$ =278 3 It contains 99 0 to the equivalent of 101 0 per cent of sulphisomidine, determined titimmetincally with sodium mitrite by the B P method for sulphonamides (see above, p. 44)

IDENTIFICATION The characteristic crystal form and interuse fluorescence of the Schiff's base with p hydroxybenzaldchyde may be used for the identification of sulphasomidine --I Tschudi-Steiner, Pharm Acta Hieter 1958 31 105

DETERMINATION See abstract under Sulphadiazine, p 46

Sulphathiazote (B P C) (Vol II, 23rd Edn, p 395) C,11,Q,N,S,= 255 3 It contains 95 5 to the equivalent of 101 0 per cent of sulphathiazole, determined turmetrically with sodium nature by the B P method for sulphonamides (see above, p 44)

IDENTIFICATION An X ray powder-diffraction pattern for the sodium salt is given -D H Lennov, Analyt Chem., 1957, 29, 1433

48

DETERMINATION A modified Dumes nitrogen determination is described heuchtro Hozumi and Shigeo Kinoshita J pharm Soc Japan 1956 76 1167

Determination of sulphathiazole during the manufacturing process in the presence of chlorides and sulphanlie acid may be estried out by extraction followed by intration with subscratestare. A Miss and S Inacu Acid R P R Stud Cercet Chim 1959 7 125 per Analyt Abstr 1960 7 1164

See also abstracts under Sulphadmudine p 46

Tablets of Sulphathiazole (BPC) Each tablet contains 950 to 1050 per cent of sulphathiazole, determined intrimetrically with sodium nitrite by the B P method for sulphonamides (see above, p 44)

Trisulphonamide Tablets (BPC) Each tablet contains 0 47 to 0 53 g of sulphonamides calculated as sulphathiazole, determined itrimetri cally with sodium nitrite by the BP method for sulphonamides (see above, p. 44)

DETERMINATION OF MIXTURES OF SULPHONAMIDES Calculation of the composition of a mixture from the results of elementary analysis is discussed -P L de Reeder Analyt churg acta 1953 9 140 per Analyt Abitr 1954 1 139

Destructs A analyt chain acta 1953 9 140 per Analyt Abstr 1954 1 159 Essimations of suphonamdes alone and in markures by bromometric and nitrite utration methods are compared -P L. dc Reeder Analyt chim acta 1953 9, 314 per Analyt Abstr 1954 1 570

Phthalylsulphathazole (B P) (Vol II 23rd Edn, p. 397) G.p.Hi.p.(Ny,S)=403 4. It contains 98 5 to the equivalent of 102 3 per cent of phthalylsulphathazole calculated with reference to the dared substance, determined itymmetrically with sodium nitstrice by the B Pmethod for nulphonamides (see above, p. 44) the loss on drying at 105° is not more than 2 0 per cent

DETERMINATION See abstracts under Sulphacetamade p 45 and Sulphadimi dine p 46

Tablets of Phthalylsulphathiazole (BP) Each tablet contains 95 0 to 105 0 per cent of the stated amount of phthalylsulphathiazole determined intrimetrically with sodium nutrite by the BP method for sulphonamides (see above p 44)

SuccentryIsulphathIazole (B P) (Vol II, 23rd Edn p 397) $C_1A_{13}O_1N_3A_1B_1O=3734$ It contains 99 0 to the equivalent of 101 0 per cent of anhydroxis succentrySulphathnizole calculated with reference to the dried substance determined titmiterically with sodium nitrite by the B P method for sulphonamides (see above, p 44) after prelimitary reflixing with didute hydrochloric acid the loss on drying at 105° is 4 for 5 5 per cent

Mixture of Succenylsulphathnazole for Infants (BPC) It con tauns 12 2 to 140 per cent w/v of anhydrous succenylsulphathnazole determined by the following amended method

Distorts 5g in 10 million of assignment by the set of the set of

Tablets of Succentrylsulphathtarole (BP) (Vol II, 23rd Edn p 397) Fach tablet contaus 95 0to 105 0 per cent of the stated amount of sulphatharole (monohydrate) determined turmetrically with sodium nitrite by the BP method for sulphonarmides (see above p 44) after prelimmary heating with sodium hydraxide solution

SUPRARENAL CORTEX

AND CORTICOSTEROIDS

Extra Pharmacopæia Vol II 23rd Edn p 401

Corticotrophin (B P Add) The potency is 80 to 125 per cent of the stated potency, determined biologically on hypophysicitomised rats by one of the DP Addendum methods the lumits of error (P = 0.95) are 64 to 156 per cent By the intracemous method it contains at least 8 units per rms (or material) or at least 15 units per rms (or material) By the subculanceus method it contains at least 24 units per rms (or material).

Injection of Corticotrophin (BP Add) The potency is 80 to 125 per cent of the stated potency determined by the BP Addendum sub cutaneous method for corticotrophin the limits of error (P-0 95) are 64 to 156 per cent

Injection of Corticotrophin Gelatin (BP Add) The potency is 80 to 125 per cent of the stated potency determined by the B.P Addendum subcutaneous method for corticotrophin the limits of error $(P \ 0\ 93)$ are 64 to 155 per cent

Injection of Corticotrophin Zine Hydroxide (B.P. Add) The potency is 80 to 125 per cent of the stated potency determined by the BP Addendum subcutaneous method for corticotrophin the limits of error (P. 05) are 64 to 156 per cent

Fludrocortisone Acetate $(B P C) C_{23}H_{31}O_4F$ 422 5 It contains 4 1 to 4 9 per cent of $F_{calculated}$ with reference to the dried substance determined by combustion and hitration with M/400 horizon intratithe loss on drying at 100° under reduced pressure for 2 hours is not more than 3 0 per cent

Hydrocortisone (BP) $C_{zy}H_{zy}O_z=362.5$ It contains 96.0 to the equivalent of 104.0 per cent of hydrocortisone calculated with reference to the dried substance determined spectrophotometrically, the loss on drying at 105° is not more than 1.0 per cent

The use of paper chromstography in conjunct on with spectrophotometry etc. is described.-H J Pazders et al. Analyt Chem. 1957 29 1649

A colormetric method based on reaction with 26 dat but J person in lakal ne solution is described—E P Schulz and J D Neuss Analyt Chem 1957 29 1662

DETERMINATION IN URINE The bisimuthate oxidation technique is 441 6 factory for the determination of the total 17 oxogenic stero dicontent of urine — H Schreifers and W horus, Hoppe-Seyl Z 1958 313 5°D per Analyt Abir 1959 6 4115

SEPARATION FROM OTHER CORTICOSTEROIDS A chromatograph c technique employing a double reversed phase system is described --T Di Perti et al Boll. Soc tual Bud sper 1959 35 570 per Analyt Abir 1960 7 717

Eye Ountment of Hydrocortisone (BPC) It contains 90 0 to 110 0 per cent of the stated amount of hydrocortisone acetate determined by the BP method for hydrocortisone acetate ountment.

Injection of Hydrocartisane (BP) This solution contains 0.45 to 0.55 per cent of w/v of hydrocartisane determined by the BP method for hydrocartisane Omment of Hydrocortisone (BP) It contains 92.5 to 107.5 per cent of the stated amount of hydrocortisone determined colori metrically after treatment with triphenyltetrazolium chloride and tetramethylammonium hydroxide

Hydrocortisone Acetate (BP) $C_{ri}\Pi_{ii}O_{i} = 404.5$ it contains 96 0 to 104 0 per cent of hydrocortisone acetate calculated with reference to the dried substance determined spectrophotometrically the loss on drving at 105° is not more than 10 per cent

DETERMINATION A colonimetric method based on reaction with hydroxyl similer and ferric perchlorate may be applied to several steroid esters. Resction conditions for hydrocortisone acetate and cyclopentylpropionate see indicated — A Foriest and S Theel J Amer pharm Ass. Sci. Edn. 1958 47 520

Injection of Hydrocortisone Acetate (BP) It contains 90 0 to 110 0 per cent of the stated amount of hydrocortisone acetate determined spectrophotometrically

Outiment of Hydrocortisone Acetate (BP) lt contains 925 to 1075 per cent of hydrocortisone acetate determined by the BPmethod for hydrocortisone ontment

Hydrocortisone Hydrogen Succinate $(BP Add) C_{ri}H_{ij}O_{i}$ =462 5 It contains 960 to the equivalent of 1040 per cent of hydrocortisone hydrogen succinate calculated with reference to the dired substance determined spectrophotometrically the loss on drying at 100° under reduced pressure is not more than 50 per cent.

Hydrocortisone Sodium Succinate $(BP \ Add)$ $C_{11}H_{11}O_4V_A$ =484 S It contains 96 0 to the equivalent of 104 0 per cent of hydro cortisone sodium succinate calculated with reference to the dired sub stance, determined spectrophotometrically the loss on drying at 100° under reduced pressure is not more than 3 0 per cent

Injection of Hydrocortisone Sodium Succinate (BP Add) In the sealed container is dry powder containing 92 5 to 107 5 per cent of the stated amount of hydrocortisone sodium succinate determined spectrophotometrically

Prednisolone (BP) $C_{ri}H_{e}O_s \approx 360$ 5 It contains 96 0 to 104 0 per cent of prednisolone calculated with reference to the dried substance, determined spectrophotometrically the loss on drying at 105^s is not more than 1 0 per cent

DETERMINATION Prednisolone and prednisone may be assayed spectro photometrically at 292 mp after reaction with semicarbazide -- J B Jensen Dank Tutkir Farm 1936 30 293

A method of extraction chromatographic separation and spectrophonometric determination is described. Interference by tablet excipients and degredat on products is almost completely eliminated but the method is too ted ous for rotuine use —P D Menter et al J Amer pharm. An Sci Lun 1935 47 570. Tablets may be sussived colorimeticatify using 2,35 triphenyletrizod um

chloride A preliminary extraction with chloroform is necessary, -- J G Wagner et al J Amer pharm Ass Sci Edn 1958 47 580

et al J Amer pharm All Sci Lan 1958 47 500 Predinsione may be determined by minfa red spectrophotometry using the potats um bromude disk technique The usual grinding technique does not yield su table spectra but hesting the dask at 100 for 5 minutes yields saus factory retuits - J B Jensen Danik Zudahr Form 1958 33 205 and 221

Prednisolone Acetate (BP) CasHaeO,=402 5 1t contains 96.0 to 104 0 per cent of predrusolone acetate, calculated with reference to the dried substance, determined spectrophotometrically, the loss on drying at 105° is not more than 0 5 per cent

Unit cell dimensions and X ray powder data are given -R A Pasternak, Analyt Chem 1959 31 959

DETERMINATION A colorimetric method using hydroxylamine and ferric perchlorate is described - A A Forist and S Theal J Amer pharm dis Set Edn 1958 47, 520

Tablets of Prednisolone (BP) Each tablet contains prednisolone or predrusolone acetate equivalent to 90 0 to 110 0 per cent of the stated amount of prednisolone determined spectrophotometrically

Prednisone (BP) CarHarOa=358 4 It contains 96 0 to the equi valent of 104 0 per cent of prednesone, calculated with reference to the dried substance, determined spectrophotometrically, the loss on drying at 105° is not more than 1 0 per cent

DETERMINATION A polarographic method which may be used to assay single 5 mg tablets with an accuracy of ±1 per cent is described -H P Deys and J A C van Pinxteren Pharm Werkbi 1958 93 760

Predaisone Acetate (BP) C12HatO4=400 5 It contains 960 to the equivalent of 104 0 per cent of prednisone scenate, calculated with reference to the dried substance, determined spectrophotometrically, the loss on drying at 105° is not more than 1 0 per cent.

Tablets of Prednisone (B P) Each tablet contains prednisone or prednisone acetate equivalent to 900 to 1100 per cent of the stated smount of prednisone, determined spectrophotometrically

TETRACYCLINES

Extra Pharmacopena Vol 11 23rd Edn, p 406

Chloritetracycline Hydrochloride (BP) Cashar O.N.C. HCl =515 4 Aureomycin Hydrochloride (Vol 11 23rd Edn. p 406)

Determination

Volumersio Mirmos de margina any be disolved in nitromethane formue and and benene and determined by non-queous litrition with perchloric acid a doxant The method may be applied to tablet carolice or suppositions -F lockyrams and L. G Chatten J Amer pharm Att Sci Edn 1958 475 548

COLORIMETRIC METHODS A colorimetric deterministion with ammon um molybdate is described -- Kucharo Kalemi J pharm Soc Japan 1955 75 192

Two colonmetric methods based on the chelstion of guadrivalent thorium ions are described -Takeichi Sakaguchi and Kiyomi Taguchi Pharm Bull Japan 1955 3 166

A colonimetric method with boric seid and sulphune acid is described ----Takeichi Sakaguchi Plarm Bull. Japan 1955, 3 170 Determination of chlortetracycline in urine may be completed by this method after a prel minary separation using ion exchange team (Amberl te IR 112) — Taketchi Sakaguch and Akırı Hanaka J pharm Soc Japan 1936 76 172 A colorimetric method with melybioghosphonec and which can be applied

to tablets capsules and other pharmaceutical products is described -1. J Ravin and A E James J Amer pharm Au Sei Edn 1955 44 215

A unpulaneous determination of chlorettencycline and tetracycline is based on the different raise of nativation of the two commounds with 0.2 M transdume phosphate the amount termining after 30 munutes being determined color metrically after treatment with hydrochlone said—J Dokobić Cit Farm 1956 5 21 per Analyt Abir 1957 4027 A motivation is described -A 5 1510 for the C. Ama Bocharet 1958 9 and 30 per Analyt Abir 1957

A colour reaction with zine chloride may he used to d stinguish between chloritracycline oxytetracycline and tetracycline --A Fouchet Ann pharm frang 1956 14 281 The same reaction has been applied to the quantitative determination of the tetracyclines --A. Fouchet Ann pharm frang 1956 14 53

¹⁷In Alkaine solution chlorettraychne shows a blue fluoretence which may be used for assay purposes. Small quantites of tetrasycline give rate to a yello colour which provides a means of quantitative determination of this compound if present –¹ S. Chickerafte *et al. J Amer pharm Ant.* Sr. *Eds.* 1956 45 418 A fluorimetic method based on digradation of elbetretraycline to un-1071 interprint to discussed – D. H. Fedhanos *et al.* Analy *Cham.* 1957, 20 1971

A method based on colour development with annihopyrine sodium hydroude and potasium ferricyanide ean be used in the presence of up to 20 per cent of oxytetracycline or tetracycline — Kuehiro Kakemu et al J pharm Soc Japan 1936 76 '90'

Chloretracycluse resets with sodium bulph is and hydrochloric and under certain conditions to form a soluter solution of anhydrochloric and under other conditions to form solutertracycline. These reactions are used to prepare coloured folutions and blanks for the colorimetric determ nation of chloretracycline in feed supplements weternary medicines and food preser yearsmither to Eucocarelli et al commer chloretracymine and food preser yearsmither Soluciarelli et al commer chloretracymine and term the transcription pharmeterule i opparations —F S Chiccarelli J Amer Jan Sol

A colorimetric determination with hydrochloric acid is described - L B Senyayins and B P Bruns Zhur anal Khim 1958 13 613 per Analyt Abir 1959 6 1502

A colorimetric determination with p dimethylaminobenzaldehyde is de acribed --E Hannig and H Heyroth Straube Köglet Pharm Zentralh 1959 98 383

SPECTROPHOTOMETRIC METHOD A spectrophotometric method for the a multaneous determination of retracycline oxytetracycline and chloretera cycline is described.—R Intonti and F Cotta Ramusino Ann Chim Roma 1934 44 437 per Analy Aburt 1935 2 451

MICROBIOLOGICAL METHODS A cylinder plate method for the quantitative determ nation of diffusion of chlorietracycline from a nitrients is described --F W Plein and J B Plein J Amer Pharm Aut Sa Edn 1957 46 716

determ nation of dimutato of churchas clube com b infrientials described - V VI Flein and J B Plein J Amer pharm An Soc Edm 1937 46 716 A turbid metric assay appl eable to chloriettacycline and iome other anti b otics with Fisherich a col (ATCC 19536) is described --D M Wintermere et al Ant bot and Chrimither 1957 7 189

The incubation period in cup plate assays with Barillus subilis (FDA 6633) may be shortened by adding bit aspartic acid follo acid indol 3 ylacet c acid and lactore to the med um to stimulate growth of the organism -> 1.4x2/6 Nature Lond 1938 131 648

For the assay of chlorietracycl ne in commercual an inal feeds a 3 level cylinder plate test with Bacallus micoudes (AI CC 9534) is recommended —A L. Tanguay et al. Ant b at and Chemother 1959 9 167 DETERMINATION IN MILK A method of determining chloritetracycline and some other antibiotics based on unhibition of the reduct on of nitrate to nitrate by *Staphylococcus aureus* is described —L. R. Mattick *Distert, Abstr.* 1955 15 1

STRANTON FOM TERROREDES Separation of chlorititzcycline from oxy tetracyl in by counter current databatana and poer characterization described – R. J. Hickey and W. P. Phillips *Auglet Chem* 1954 20 http: *A perer characterization applicable to medicated (esta in described –* A V. Suffkey and W. L. Williams *J As of gene Chem* 1943 1055 33 870 . Separation of tetracycline and chloretraseptine from culture funda may

Separation of tetracycline and chloretrasycline from culture fluids may be effected by chromatography on paper buffered to pH 2.53 and by using as noivent a mixture of butanol aceue acid and water -- I Belousoya and L A Popova Antibatha 1958 3 24 per Analy Abtr 1959 6 2312.

Separation of chloricitasycl for oxylensychus and terasychus by a counter current distubution methods in described-A G Mutteria and P P Munieri. Ant Mod and Clemether 1956 6 13 A paper chromatograph o procedure is described - II Fabbach and I Leven Anthone and Chemether popular or to fermentiation layous is described-ur applicable to the pure components or to fermentiation layous is describedable to a for the sensitivity of 250 methods. C F Such Authorit and Chemether 1954 4 750 methods.

Vetermary Pouder of Chlortetracycline (B Yet C Supp) The potency determined by the B P method for the biological issay of antibiotics is at least 85 per cent of the stated potency, the limits of error (P=0 95) are 80 to 125 per cent (For purposes of assay and calculation the potency of chlortetracycline hydrochloride is taken to be 1000 units per rmg)

Veterinary Tables of Chlorietracycline (B Vet C Supp) The potency determined by the B P method for biological assay of antibiotics is at least 85 per cent of the stated potency the limits of error (P=0 95) are 80 to 125 per cent (For purposes of assay and calculation the potency chlorietracycline hydrochloride is taken to be 1000 units per mg)

Oxyletracycline Dubydrate (B P) C₁₂H₁₀O₁N₂ 2H₃O = 4965 J II contains at least 94 0 per cent of oxyletracycline dibydrate determined spectrophotometrically and at least 870 units per mg determined by the B P method for the biological arsay of antibiotics, the limits of error (P=0.95) are 20 to 125 per cent

IDENTIFICATION A method is described by A Fouchet (see under Chlor tetracycline p 53) Other methods of distinguishing between tetracyclines are given -- O N Valendag Amer J Pharm 1955 127 356

DETERMINATION A polarographic method is described --- T Noto and G Matsuoka Jopan Analysi 1955 4 30 per Analyt Abitr 1955 2 2331 A solution of oxytetracycl ne is builed with Fehl ng a solution and the pre-

A solution of oxytetracycl ne is build with Fehling a solution and the precipitated cuprous oxide is determined by dissolution in ferrie aulphate and sulphoric acid and titration with potassium permanganate — 1 E Indeceders O Atta Chere Verseuel 1956 7 64 per Analyt Abtr 1957 4 1650

A modification of one of the colonimetric methods proposed by Sakaguchi and Taguchi for chloretracycline (see p 52) is described — Takeichi Sakaguchi et al. Jaoun Analysi 1957 6 782.

A turbidimetric method is described -- D M Wintermere et al (see under Chloreteracycline p 53)

A mod fied cup plate assay is described -- N László (see under Chlor tetracycline p 53)

Ovycteracycline may be determined by high frequency t tration with per chlone acid in glacial acet c acid — F Ochme Z Acturf 1958 13b 462 pe Analit Abitr 1939 6 4139

54

Ferric chloride is added to form a complex and the excess of ferric ions is determined complexometrically with edetic acid $\rightarrow \lambda_{*}$. Hochmann and 1 Bayer Z anal Chem 1959 166 88 per Analyt Abistr 1959 6 4141

DETERMINATION IN MILK A method is described -- L. R. Matick (see under Chlortetracyclure p 54)

SEPARATION FROM CHLORGETRACYCLINE See under Chlorietracycline p 54

Capsules of Oxytetracycline (B Vet C Supp) Each capsule con tains at least 90 0 per cent of the stated smount of oxytetracycline hydrochloride determined by the following method

Dilute a quantity of the filtrate obtained in the test for potency with 49 times its volume of solution of standard pH 20 and measure the estimation of a 1 cm layer at 353 mµ. For purposes of calculation use an $\mathbb{E}(1 \text{ per cent } 1 \text{ cm})$ value of 284 for oxytetracycline hydrochloride

The potency determined by the B P method for the biological assay of antihotics after preluminary extraction with diuted hydrochiorie acid and filtration is at least 90 per cent of the stated potency: the limits of error (P = 0 95) are 80 to 125 per cent. (For purpose of assay and calculation the potency of oxytetracyline hydrochioride is taken to be 927 units per mg.)

Tables of Oxyletracycline (BP) Each tables contains at least 90 0 per cent of the stated amount of oxyletracycline dhydrate determined spectrophotometrically The potency is not less than 90 per cent of the stated potency, determined by the BP method for the biological assay of antibuotics the limits of error (P=0 55) are 80 to 125 per cent (For purposes of assay and calculation the potency of orytetracycline dhydrate is taken to be 927 units per rag)

Veterinary Tablets of Oxytetracycline (B Vet C Supp) Each tablet contains at least 90 per cent of the stated amount of oxytetracycline hydrochloride and the potency is at least 90 per cent of the stated potency, determined by the B Vet C Supp method for Capsules of Oxytetracycline the limits of error (P=0.95) see 80 to 125 per cent

Tetracycline Hydrochloride $(BP) C_{rt}H_{tt}O_tN_tCl = 480.9$ It contains at least 900 units per mg, determined by the BP method for the biological assay of antibiotics the limits of error (P=0.95) are 80 to 125 per cent

DETENTIATION A colonmette method with armonoum molybdate may be appled in the presence of orystrategicale and hole colonnetic method with solum tungstate and hydrogra percutale may be used in the presence of chlorettarycline. The error is studed to be less than 2 per cent — huchon kakern et al 1 pharm Soc Japan 1935 75 700 and 973 A colonnetic method whaten may be used for the determination of tetra

A colorimetric method which may be used for the determination of tetra vertiline in the presence of up to 20 per cent of chloritetracychne is deterbed — XI fi Woolford Jr and F S Chiccarelli J Amer pharm Att Sci Fán 1956 45 400

A rolocowine wethod with hence and an sulphune and is described. The coefficient of variation is not more than ±5 per cent — Leiji Sekiguchi J pharm See Japan 1958 78 965.

A spectrophotometric method for the determination of tetracycline in cultures is described --Shigehara Inoue et al. J agric chem Soc Japan 1956 30 591 per Analyt Abirt 1957 4, 2361

Some other abstracts relevant to tetracycline appear under Chlortetracyel ne pp 52-4

DETERMINATION IN BODY LLEDS Tetracycl ne in serum urine cerebiospinal flud etc is determined by measurement of zones of inhubition in a spore suspens on of Bacillus mycodes 'The method can also be used for chlorietra cycline and oxytetracycline — T Drumling Arane mittle Forch 1927 7 684

Capsules of Tetracycline (BP) The potency is at least 85 per cent of the stated potency determined by the BP method for the biological assay of antibiotics the limits of error (P-05) size 80 to 125 per cent (For purposes of assay and calculation the potency of tetra cycline hydrochlonde is taken to be 1000 units per mg

Tablets of Tetracycline (B P) The potency is at least 85 per cent of the stated potency determined by the B P method for the biological assay of antibutics the limits of error (P 055) are 80 to 125 per cent (For purposes of assay and calculation the potency of tetracycline hydrochlonde is taken to be 1000 units per mg)

TETRAETHYLAMMONIUM SALTS

and the Quaternary Ammonium Detergents

Extra Pharmacopœra Vol II 23rd Edn p 407

Solution of Bervalkonium Bromide (BPC) It contains 43 5 to 51 5 per cent w/v of alkylbenzyldimethylammonium bromdes calculated as $C_{23}H_{48}$ Nir determined by the BPC method for are flavine each ml of M/10 potssisum ferricyanide is equivalent to 01195 g of $C_{41}H_{42}$ NBr

Paper electrophoretic separation of benzalkonium and benzethon um chloridet is described --Hanitada Negoro and Setsuya Seno Ann Rep Takamine Lab 1956 8 119 per Analyt Abirt 1958 8 4219

Chromatographic separation of benzallomum chloride and other quaternary ammonium compounds with a solvent containing pyrid he benzene acet c ac d and water is described —] Gareta and J Couerbe Ch m anal 1956 38 432 per Anglist Abir 1957 4 2368

Cetrimide Emulsifying Omtment (B PC) It contains 2.5 to 3.3 per cent of cetrumide calculated as $C_{12}H_{12}(CH_{12})$. Dr determined by the B PC method for Cetrumide Emulsifying Wax

Cetrimide Emulsifying IVaz (BPC) It contains 88 to 105 per cent of cetrimide calculated as C₁₄H₂₄CH₃)₃NBr determined by reaction with sodium lauryl sulphate and back tration with M 1000 cetri mide bromophenol blue being used as indicator

Dequalinium Chloride $(BPC) \subseteq C_{pH} I_{ab} C_{b} - 527.6$ it contributions at least 95.0 per cent of dequalinium chloride calculated with reference to the anhydrous substance determined by tration with perchlor c acid in dioxan. The water content determ ned by the karl fuscher method is not more than 5.0 per cent.

THYROID

Extra Pharmacopona Vol II, 23rd Edn, p 412

Liothyropine Sodium (BP Add) C., H., O.N. Na~673.0 It contains 95.0 to the equivalent of 101.0 per cent of hothyronine sodium calculated with reference in the dried substance. determined by the B P method for chimofon sodium each ml of N/10 sodium thiosulphate is equivalent to 0 003739 g of C11H11O4NI2Na the loss on drying at 105° is not more than 5.0 per cent

Tablets of Liothyronine (BP Add) Each tablet contains 850 to 115.0 per cent of the stated amount of hothyronine sodium deter mined by a method similar to that of the B P for chituofon sodium

TOLSITAMIDE

Tolbutamide (BP Add) C12H18O2N2S=2704 It contains 990 to the equivalent of 1010 per cent of tolbutamide calculated with reference to the dried substance based on the nitrogen content deter mined by the Kieldahl method the loss on drying at 105° is not more than 10 per cent

DETERMINATION Tolbutamide is titrated with sodium methoxide in anhydrous Dermativation I coolumnice is transce with socium methodate in snaprotosis actions or princine with phenolphthale in as indicator or in benzene and methyl alcohol with thymol blue as indicator The average error is ±] per cent for the pute substance and ±2 per cent for fablets -]. Kristinarova and J ArtRame Cal Farm 1958 7 566 per Analys Asiri 1959 6 2766 A surgita method with pyridine as adjourned, so dur methodus as threat and phyrol blue as indicator is described. The error is less than ± 1 per ent -1 B Dave and J L. Patel Indust J Pharm 1959 21 226 Tolbutanide may be dissolved in sectore and started with solution bydroxide with created with created real scalar by the solution of th ternatively it may be hydrolysed by heating with ethylene plycol and hydro enhouse set and the resulting smule day lief from site and so that a standard and the resulting smule day lief from site and the termined by stration The maximum error is ± 1 per cent —R Simionovici and I Conu. Rev. Chim. Bucharett 1959 10 107 per Analyt. Abir. 1959 5 4149

Tolbutamide may be determined by treating with an excess of silver mitrate filtering and determining the excess by titrating with ammonium thiocvanite --P M Parkh and S P Mukherst Indian J Pharm 1959 21 110

DETERMINATION IN SERUM A spectrophotometric method is descr bed -

H Spingler and F Kauser Araremittel Forsch 1996 6 760 A colorimetric method with 1 fluoro-24 distributions is described --H Spingler Klim Hischr 1927 35 532 per Analy I Abitr 1957 4 3729

A spectrophotometric method including a chromatographic separation is described Recoveries of 103 ±5 per cent from serum are reported -E. Bladh and A Nordén Acta pharm tox Kbh 1958 14 188

A spectrophotometric method giving a recovery of 100 4 +5 2 per cent from plasma is described -T Chulski J Lab el a Afed 1959 53 490

Tablets of Tolbutamide (BP Add) Each tablet contains 92.5 to 107 5 per cent of the stated amount of tolbutamide, determined by the R P Addend on method for folloutamide

TRIMETAPHAN

Trimetaphan Camphorsulphonate (BPC) C11110, N.S1=596 8 It contains 98.5 to the equivalent of 101.0 per cent of trimetanhan camphorsulphonate determined gravimetrically as the micrate

DETERMINATION A polarographic titration with picric acid is described The mean error under the conditions described is ±1 per cent —J Kráčmar, Cil Form, 1936, 5, 578, per Analyt Abir, 1937, 4 4112

TRIPELENNAMINE

Tripelennamme Hydrochlorde (B P Add) C₁₄H₁₄N₁Cl=291 8 lt contans at least 980 per cent of tripelennamme hydrochlorde, calculated with reference to the drud substance, determined by turiston with perchlorce acid an glacal acetic acid, the loss on drying at 105° is not more than 10 per cent

TRIPROLIDINE

Triprolidine. Hydrochloride (B P C) $C_{13}H_{13}N_{13}Cl,H_{10}O=332$ 9 It contains at least 98 0 per cent of anhydrous triprolidine hydrochlorde, calculated with reference to the anhydrous substance, determined by titration with perchloric and in glacul acetic acid. The water content, determined by the Karl Fischer method, is not more than 6 0 per cent

TUBOCURARINE

Extra Pharmacopœia Vol II, 23rd Edn, p 417

Suxamethonium Bronnde (B P) $C_1, H_{10}O_N, B_{f_1}, 2H_4O$ =486 3 It contains 99 O to the equivalent of 101 O per cent of anhydrous suramethonium bronnde, calculated with reference to the dired substance, determined by titration with perchloric acid in dioxun, the loss on drying at 105° is 5 O to 8 O per cent

Injection of Suzamethonium Bromide (B P.) In the sealed container is dry power containing 99 0 to the equivalent of 101 0 per cent of anhydrous suzamethonium bromide, calculated with reference to the dried substance, determined by the B P method for suzamethonium bromide

VITAMINS

and Related Substances

Extra Pharmacopera Vol II, 23rd Edn, p 424

Compound Tablets of Aneurine (BPC) Each tablet contains 0 9 to 1 1 mg of aneurine hydrochlotide, determined fluorimeticnelly, 0 9 to 1 1 ng of riboflavine, determined spectrophotemetrically, and 13 5 to 16 5 mg of nicotinamide, determined by the BP, method for nicotinamide

Strong Compound Tablets of Ameurne (BPC). Each tablet combine 5 to 5 mg of aneurne hydrochloride, determined fluorimetinolity, 18 to 22 mg of nikoflavme, determined apetropholometinolity, 18 to 22 mg of norotaminde, determined to pred EP method for motinamide, and 18 to 22 mg of pyridoxine hydrochloride, determined microbiologically

Menaphthone Sodium Bisulphite (BP) $C_{11}H_{2}O_{5}Na 3H_{2}O=$ 330 3 1 contains at least 94 0 per cent of menaphthone sodium biul phite, calculated with reference to the dired substance, determined by the BP method for menaphthone after preliminary treatment with

58

aikali, and extraction, the loss on drying for 3 hours at 100° under reduced pressure is 11 0 to 15 5 per cent

DETERMINATION Polarographic determination is described -- Lutaka Asahi J pharm Soc Japan 1956 76 365

A colorimetric method based on a reaction with ethyl cyanoacetate and ammonia is described. It may be applied to the assay of injections and tablets ---Yuan Yau Chou and Ju Cheng Hau. Acta pharm strice 1957 5 29

Injection of Menaphthone Sodium Bisulphile (BP) It contains 90 0 to 110 0 per cent of the stated quantity of menaphthone sodium bisulphite determined by the BP method for menaphthone sodium bisulphite

Pbytomenatione (B P Add) $C_{s1}H_{14}O_{s}=4507$ It contains 970 to the equivalent of 1020 per cent w/w of phytomenatione, determined spectrophotometrically after chromatographic purification

DETERMINATION A colorimetric method is described and also a preliminary chromatographic separation which is necessary when analysing tamples of plant material --- K. Schuling and H Dam. Acta chem seand 1958 12 347 and 348

Capsules of Phytomenatione (B P Add) Each capsule contains 90 0 to 120 0 per cent of the stated amount of phytomenatione deter mined by the BP Addendum method for phytomenatione

Injection of Phytomenations (B P Add) It contains 900 to 1150 per cent of the stated amount of phytomenadions determined by the B P Addendum method for phytomenadione

Vitamin A

DETERMINATION Methods of determining vitamin A in cod liver oil are reviewed -- S Erbe Pharm Zentrath 1957 96 611

Constructive Mitricops A colonimetric method using nationary irrelationed on the obsorbarr with accept laborator is described -40. Cavina R C.218 np. Sami 1957 20 33 per disality share 1959 6 417 Causics of error 1957 164 333 per disality disality in 1957 d 2430 Vatanah A may be determined in unapone findle matter from finh o Is foods and vatarum concentrative by treating with a callest to compare the vitamin to anisyldowinama, and menumum the colour inducement of the red colour formed by reaction with transition phosphare and and sectic subyrdnet is described -1 V [Jakov]yers. Hours Without 1955 297 385 The use of various childrighten is colonimetric determ nation in 5352

SPECTROPULTOVETRIE METHODS . Nonograms are provided for calculating the Morton Stubbs correction in the spectrophotometric determination of to the Morton Stubbs correction in the spectrophotometric determination of uon in determined —G Panetrazio and V Dave, Amalyi 1938 54 579 Losses occurring in the spectrophotometric determination of vitamin A in uols may be presented by the use of dark glass and in atmosphere of introgen during 1959 26 44 per Analyi Advin 1959 5 4 579 Universe Torontal Bonduras 1959 26 44 per Analyi Advin 1959 5 4 579

CREANATOCANTURE WATTHON The loss of waterns A during character, apply on alumna is reduced to about 2 per cent by the use of 200 µg of y of 8 too pheroia per 1000 units of vitamin A $\sim G$ is indertain and O.R. Brackian Acta den rates of 1958 IZ 300 A partition methods is described which is claumed to give acceptable recovery and reproducibility in the assay of vitamin A labets ~ 1 B Wilke et al I 4 in off game Chem 18 tool 1959 42 422 SUPLANTION OF FEEL ALCOND. AND EXTERS A chromatographic technique is described The percenting errors in 9 in 50 for al cohol 96 tor actate and 79 to 82 for palameter - G. Bunds Int Z. Visamaforch 193. 23 191 per Analyt Abtr 1958 5 4322 · 20 and K-11 at technicalvitamin A from its esters and from visamins D. E. Michael at technical-Visas and U. Giosz Hopk Soy 2. Z 1953 210. 20 and K-11 at described --O

Vitamin D

DETERMINATION A chromatographic method for purification of vitamin D. and D, and removal of vitamin A and tachysterol is described --- E. Bruch mann Branniwennerstschaft 1954 76 184 per Analyt Abstr 1955 2 3501 A colorimetric determination using antimony trichloride and acetsl chloride in ethylene d chloride is recommended for the astay of solution of calciferel B P Solutions containing 2000 to 4500 units per g in playe or arachis oil are deter mined within ±3 per cent A similar colorimetric method is recommended for tableta of calciferol -- A R Rogers J Pharm Pharmatol 1954 6 780 ibid 1955 7 731 Methods of assay with antimony trichloride acetyl chloride are described which are claimed to give good agreement with results of biological assavs for tablets and solutions of calciferol B P For low potency oily solutions asseys to entry chromatographic stap is necessary to remove phytostrologi-PS Stross and L. Brealey J Pharm Pharmarol 1953 7 739 Extraction procedures for various pharmaceutical products animal feed auppements foods, and milks are described and percentage recoveries of vitamin D are reported -L. Friedman and G M Shue J Ass off agric Chem Wash 1955 38 165 Chromatographic separation of calciferol from its oxidation products and from vitamin A is described -Katsutoshi Miwa Vitamins Japan 1956 11 202, per Analyt Abstr 1959 6 362 Vitamins D, and D, may be determined in write and products by aponificat on extraction removal of tachysterol by maleic anhy dride add tion removal of interfering ateroids by digitonin precipitation colori metry with antimony tr chloride reagent and correct on for readual colour -F J Mulder et al Rec Trav chim Pays Bas 1957 76 733 In the colorimetric determination of visam n D in pharmaceutical preparations the concentration of acritical chloride in the animony trichloride-chloroform respent should be 2 5 to 3 0 per cent, and extinction readings should be taken at 30-second intervals for any minutes -P N Luthra and J N Tayal J Pharm Pharmacol 1957 9 784 A method for the assay of pharmaceutical products with a repro-1957 9 /84 A method for the sasty of pharmaceutical products with a repro-ducibility of about ±2 per cent for syntyps and ±10 per cent for capriles is described The method involves extraction chromatography and colorametric determinations with antimony tinchloride activil chloride ethylene dichloride reagent -1 B Wilke et al J Amer pharm An Sci Edn 1958 47 385 Separation of vitamin D from multivitamin mixtures by partition chromatomaphy is described. The coefficient of variation reported in triplicate analyses of multivitamin tablets with minerals was +16 per cent -J G Theivagi and D I Campbell Analyt Chem 1959 31 1375

Other Vitamins and Mixtures

DETENSIVE To Instrume containing avoides and and in other scale scores end is determined adometrically and will see at transferrates of a new particular sector of the sector of the sector of the sector of the particular sector of the sector of the sector of the sector of the neutron sector of the sector sector of the sector of the sector of the sector of the sector sector of the metric method for the three restored of the sector of the metric method for the three restored of the sector of the sector

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ZINC

Extra Pharmacopera Vol II, 23rd Eda, p 442

Dusting powder of Zinc, Starch and Tale (BPC) It contains 23 6 to 26 6 per cent of zinc oxide, determined gravimetrically after extraction with hydrochloric acid precipitation with sodium carbonate, and ignition

DETERMINATION OF ZINC An isotope-dilution method giving an accuracy of ±1 per cent in the assay of dusting powders and onitments is described --Tologressy et al Ctl. Form 1959 8 565 per Analyt Abir 1960 7 2958

with Reference to Special Diseases

The following notes are supplementary to those of the relevant section of the Extra Pharmacopera Volume II, 23rd Edition

Anthrax

Extra Pharmacopcena Vol II, 23rd Edn, p 802

Numerous cases of human anthrax due to hone meal or other hone products have been reported and have received mention in the Reports of the Ministry of Health (1949 and 1952) and in the Reports of the Chief Inspector of Factories (1950-3) Davies and Harrey (Lanet, 1/1953, 880) recorded the occurrence of 14 cases of human anthray arising in a chemical factory using imported crushed bones as raw material, and in a second paper (Lancet, n/1955, 86) they recorded the isolation of Bacillus anthrans from S of 41 cargoes of imported crushed bone The organism has also been tsolated from sacks previously containing bones and such sacks have been incriminated in the spread of anthrax According to Lamb (Lancet, u/1958, 151) bone meal fertiliser is a well known source of anthrax infection in animals and occasionally in man, and he describes four cases of cutaneous anthrax occurring among workers in a bone meal factory Four further cases of anthrax attributable to handling bone meal fertiliser 3 in farm workers and 1 in a seedsman, are reported by Green and Jamieson (Lancet, n/1958, 153) Unfortunately the heat treatment of crushed bones is insufficient to destroy anthras spores and, spart from this such treatment is incompatible with the use of bones as the raw material for gelatin manufacture (Harvey, Brit med J. 11/1958 1040)

Anthrax infection in dock-workers due to the handling of imported hides is relatively rare seconding to Semple and Hobday (Lancet, 11/1959). 507) At the port of Liverpool, which over a 10 year period imported a yearly average of 289,000 cwt of dry hudes, there were only 7 cases during the years 1954-8, and in spite of the fact that samples taken from over 1000 hides showed about 1 in 4 of the hides had the anthrax organism on it To explain this low incidence of the disease in relatively unprotected workers they suggest that the natural human resistance to anthrax must be greater than is generally supposed and that under normal conditions the anthrax bacillus is unable to attack human tissue successfully. If the occasional case of anthrax is due to a failure of resistance in a particular individual or to an unusual virulence in the attacking bacteria better results may perhaps be obtained by raising the immunity of the workers rather than by the extension of physical precautions Darlow et al (Lancet 11/1956, 476) showed that antibodies neutralising anthrax toxin can be demonstrated in the blood of persons immunised by anthrax inocu lation and that reactions to immunisation (including booster dotes) are never severe enough to cause absence from work Semple and Hobday (loc cit) suggest that this form of protection might well be offered to all who normally work with hides and other material known to be a source of anthrax

The Report of the Committee of Inquiry on Anthrax (Nov. 1959, H.M. Stationery Office, Cried 846) makes a number of recommendations designed to retain or tighten control on imports II recommends that dockers should be warned of any anthrax risk and carry a prescribed anthrax card 11 makes recommendatons regarding general prescutions in factories and special arrangements in industry for early detection and ireatment it advises that anthrax should be inside a notifiable detesses under the Public Health Acts for eases occurring outside the scope of the Factories Acts.

Chagas' Disease

Extra Pharmacopeta Vol II, 23rd Edn p 810

Although Chagas disease is known to exist throughout the Americas except in Canada and probably Caba ignorance of the magnitude of the problem is the main obstacle in the way of organising and justifying suitable control programmers in countries where mortality and morbidity from other diseases are apparently greater. The World Health Orgenesation's Study Group on Chagas Disease has roughly semiated [*World Hith Org techn Rep Ser* 1966, No 202) that is least 55 million point on the summation of the summation of an energy infection rate of 20 per cent at least 7 million people are infected (*World* Hith Org Chem 1960 14 469)

Diagnosis An improved method for carrying out the complement fixation test for the diagnosis of Chargin diress in described by Children et al. (Amer J trop Midd Kyg 1956 5.763) The fluid overlays of calliures of Typenoisma by repeated exerctingation at each a subseq of subsect and the acdimeters the final trypanosomes consuming sediment being force and derivdrated The finalide antigen was prepared by extracting the drift trypanosomes with anhydrons either at -15° continuous the drift trypanosomes with anhydrons either at -15° to -18° continuing the extraction in an alkaline buffer estimating antigeneous the subsect of subsection the analysis of any force of the subsection of the subsection the subsection any force of the subsection of the subsection the subsection any force of the subsection of the subsection the subsection any force of the subsection of the subsection of the subsection any force of the subsection the subsection of the

Cholera

Extra Pharmacopena Vol II, 23rd Edn p 813

Diagnosis Numerous fluid media have been devised for ensichment purposes in the isolation of the cholera vibrio from stools especially when the specimen is taken a week or more after the anset of symptoms or when the spectroms the base of the form a person showing no symptoms of the diverse Arong the more successful of there is the potsusant-tillunte medium described by Gardran and Mildaws (U Eggs and dn_s , 1962, D_s , D_s , D_s , D_s) is prepared for the symptomic diverse of the symptomic diverse of the transmission of the symptomic diverse of the symptomic

Another fluid medium which has green good results according to Felnstell et al. (*P* last, 1951, 62, 173), an alkalant scienter E brith, prepared by Kalang enough 10 per cent squeent soduum citchenite solution prepared by Kalang to bring the pH of the fluid to the desired slikalisatory ($e_{\rm E}$ pH 6 to 7 1, 74 to 7 6, or 7 8 to 8 0). The scients - Floridh (PD agnostic Foredure and Resternit). Amer Publi H1M Ass, 1943) are prepared by dissolving periods 2e, a larget 4 g analyzious soduum phosphete 10 g, and soduum acid scientie 4 g, in 1 litter of water

Comparison before the showed that the modified burnuls subject medium of Wilson and Kelly (H_{BS} , C.mol) 1940, d_0 , d_3 ; gave results for below those obtained by carrelyness in any of the show-mentioned media Athe same time the effects of the bismuth subject medium for the selective rancement of Vilno chainse under schull conditions has been amfel demonlikentary of the follower, and the follower has been amfel demonlikentary one of Poilters, AM if World Hibb Org 1950 [47, 65].

If any of these preliminary enrichment methods in fluid media are used it is doubtful whether it is necessary to use in addition the highly selective solid media which are now available for subcultivation and the use of plain alkaline agar plates is therefore still continued

Prophylacus Deslang with the endemology of choirs Regent (Int. and J., 1995), 1997 (Heren startonto to the eranatable hill in the destin interest pictures in the start of the is wan 005. This fall, he considers, could be diss only to the cumularus effect of the computery and choires accoultance attended out during the pendamounting to appearantely 200 million. All the indicionent to to suggest that arrows and a compellory mechanism effect on the start of the start energist skopping of compellory mechanism effects.

Coccidioidomycosis

Extra Pharmacoporta Vol II, 23rd Edn, p 814

Durgments. The role of infection through inhibition of the sporte of Core diodes month, i.e. which handling cultures of this lingues may be revolved by the following technique described by Huppert (I Lab tim Mori, 1957, 50, 183). The culture means constantiated in a score expect culture back the three sectors and the sector of the sector sector culture for the secence resultance of the sector of the sector sector of the sector displayment spectra of the sector sector of the sector of the potentiate of the sector of the sector of the sector of the secperation of the sector of the sector of the sector of the sector is withdrawn, care being taken to keep the needle point correct on the sector tens of the syntage are injected into make in 0.5 and done for demonstration. The culture is nonlidering through the displayment of the sector of the syntage reset with the sector. The sprate for the sector of the sector of the sector of the syntage reset is the sector of formal device through the displayment and the results used in Sector sector of formal device the more sector and the sector of the sector of the syntage reset in the sector of formal device the more sector of the sector of the

Glandular Fever

Fxtra Pharmacopera Vol II, 23rd Edn p 837

I vidence of widespread visceral disease an glandulity for a fus accumulated in recent years. Hepsite existing, or heurological programma predominate Jaundice is a well known development in proved cases and it has been shown by serial liver boguese that non viscera hepsitis is present in most cases. Remne and Wroblewski (*New Engl J Med*, 1957) 57 5477 (Jound that alterations in seturing Blutacease appeared to coincide the subjective symptoms of the disease appeared in coincide subjective symptoms of the discuss and wrantoons in the symptoms of the discussions and wrantoons in the symptoms of the discussions.

Diagnosis Card and Holt (Brit med J 1/1938 83) suggest that the enambern of glandula fever may prove helpful hold singnosis. The characteristic examilier is a politid empirical politic Card and Hold conduct that finding upstream of the soft and the hard politic Card and Hold conduct that finding futures is strong classic under soft and half of the soft of the soft and futures is strong classic underso of glandular form if mobile are be enduded if the pretchase are for the ages as suggestion only.

A slide test for the diagnosis of glandular fever is described by Loves (Lonet 1/1961 142)

Influenza

Extra Pharmacopæia Vol II, 23rd Edn. p. 841

Antisenic Variations The influenza epidemic of 1957, which became known as 'Asian 'flu , originated in China in February 1957, its causative organism was identified as a new variant of influenza virus A The epidemic reached Great Britain during the summer months reached its peak in October and had virtually disappeared by the end of November It is estimated that 12 million people were attacked in Britain and that the epidemic was directly or indirectly responsible for about 16 000 deaths two thirds of the fatalities being in persons over the are of 55 The incidence of pulmonary complications principally pneumonis was low (3 5 to 5 0 per cent) A survey by the Public Health Laboratory Ser vice of 477 fatal cases of pneumonia during this period (Brit med J t/1958, 915)-in a majority of which influenza virus was demonstrated when looked for-showed that staphylococci were present in the lung and sputum of 62 per cent of all cases with a high percentage among children of school age and a much lower percentage in old persons A fulminating course, leading to death within 2 days of admission was commonest in children under 5 and least common after the age of 45 It would appear that secondary staphylococcal infection was the most dangerous complication in this epidemic In 148 virologically confirmed fatal cases of Asian influenza in the Netherlands (Hers et al. Lancet, u/1958, 1141) Staphyloccus aureus was found to be the most common secondary invader occurring in about 60 per cent of cases

Leprosy

Extra Pharmacopena Vol. II. 23rd Edn. p. 848

Diagnosis To prevent loss of mycobacterna from the surface of d agnost c films a surface cost of 5 per cent scrum is first appled to the slide and dried on this its smear is made. After drying the hilde is placed on a bot plate over bouling water for 30 seconds and earbhd inclusing applied for 30 to 60 seconds in the side is then mated gently in water. The preparation is differentiated for 30 to 60 seconds with subplance and 4 pare reat constanting methylene blue 0.2 per cent (final concentration) and mated gently in water. Subplaure and was found preferable to acid alcohol for differentiation showing more exist fast found in lepsony smears in the proportion of 70 100 (Harks Amer Rev. Tuberc 1955 77 579).

Lepromin Test. The lepromum in common use is made by granding 1 g of suitoclaved bacteriologically positive instar in 20 ml of isotonic salare. The intradermal injection of 0 1 ml is followed in most non lepromations subjects by a tuberculin like response in 24 to 48 hours. This rapidly subsides and is succeeded by a nodular infiltration area on the skin reaching a maximum in 3 to 4 weeks (the late Mitsuda reaction) This late reaction is more reliable than the early response and is used in classification and prognosis In general those with a weak response (infiltration of less than 5 mm in diameter) develop the more serious and infectious lesions while the strong reactors (infiltration of 5 mm or n ore) develop the milder self healing ones. The present lepromin test cannot be widely used because the supply of antigen is insufficient. It also has the disadvantage that the strongest reactors (i e the ones least at risk) develop indolent ulcers at the sus of injection. A modification of the test using a 1/100 depot lepromin and employing the Heaf multi puncture apparatus instead of intradermal injection is described by Kinnear Brown and Stone (Lancet 1/1939 1260) The depot medium consists of 1 part anhydrous landin and 8 parts of light liquid paraffin to which is added 20 per cent of isotoinc saline solution. In Jepromin positive pat ents when this 1/100 depot lepromin was used by multi puncture the normal sequel was the formation of a ring of 6 small papules (one at the site of each puncture) which reached their maximum at the end of the third week A reaction with fewer than 6 papules was usually the result of uneven pressure of the end plate of the apparatus on the skin. The reactions were definite and unmistakable but amaller than with tuberculin. The scale of coronarison adopted was as follows. Grade 1-4 or more papules and d screte papules Grade II-4 or more prominent and discrete papules Grade 111-4 or more prominent papules with par point vesiculation of 4 or more papules tending to coalesce The reactions to the 1/100 depot lepromin were if anything more emphatic than those to 1/100 normal lepromin It was found possible to get 25 multi puncture tests from 0.1 ml of 1/100 depot lepromin Thus 1 g of sutoclayed tissue would provide enough depot lepromin of this strength for more than 20 000 tests compared with 200 by the intradermal injection-a great economy where discovery of the weak reactor is the main objective Moreover the test produced neither ulceration scars nor any other unpleasant sequel e It was shown that depot lepronum remained in the skin long enough to indicate convers on after subsequent BCG vaccination

Plague

Extra Pharmacopera Vol 11, 23rd Edn, p 856

Staining According to Baltazard et al (Bull World Hith Org 1956 14 457) the following are particularly suitable for ataming plague amears and are recommended for field work

Phenol Thionin Add 10 ml of a saturated solution of thionin in sloohol (50 per cent) to 100 ml of a 2 per cent solution of phenol in d stilled water apply for 1 minute snd wash off

Wayson s Stain (1) Divide fuchsin 0.2 g and methylene blue 0.75 geach in 10 ml smouths of delvidthed alcohol (2) add the combined solutions to 200 ml of a 5 per cent solution of phenol in distilled water Apply for a few seconds and wash thoroughly with water

Poliomyelitia

Extra Pharmacopera Vol II, 23rd Edn. n. 861

Formolised Vacennes. As the result of extensive field trials carried out over recent years, especially in America and in Great Britain, it is now generally agreed that a full course of formolised vaccine alfords substantial but not complete protection against paralytic polomyelins.

A review of the results of poliomvelitis vaccination in England and Wales from its introduction in 1956 until August 1958 was undertaken by Geffen and Spicer (Lancet, 11/1960, 87) By August 1958 almost half the eligible population had had one or mote doses of vaccine (out of 10,740,000 children, 4,980,000 had had two or more doses, and a further 360,000 had had one dose) During the year there were among the 15year-old population 232 cases of polyomyelitis in the vaccinated population and 1155 cases in the unvaccinated, respective incidence rates of 43 and 21 4 per 100,000 Thurty five children under 15 died from scute poliomyelius during the year, 3 had had vaccine and 32 had not had vaccine The figures also showed that while the proportion of paralytic to non-paralytic cases was similar in the unvaccinated and in those who had had only a single dose of vaccine, it was about half as great in those who had had two or more doses This difference gave further support for the efficacy of the vaccine provided that two or more doies are given Further evidence in favour of the protective action of the vaccime has been provided in a comparison by Geffen (Mon Bull Mnust Hilth Lab Serv. 1960, 19, 196) between the ingedence of policmyelitis in vaccinated and unvaccinated individuals under 15 years old, based on provisional information about the cases in the United Kingdom in 1959 He reports that the incidence rates were 2.3 per 100,000 in individuals who had received two or more doses of vaccine compared with 17 1 per 100,000 in the unvaccinated or, for psralytic cases only, 1 4 per 100,000 compared with 12 4 per 100,000

With regard to the persustence of antbodies, it has been shown (Rendall et al., Bett med J., 1996, 1653, Longan et al., bids, 1652) that, while there are notable differences between induviduals, the average ful in ture is about fivefold in two years following is booster does Kendall et al conclude that titres of at least 1/100 are required after a third does a booster does. With the vaccues at present available, a fourth does a recommended two years fail owned is a santifactory repronse to a booster does. With the vaccues at present available, a fourth does a groups (such as young adults going overress). The value of a fourness we also emphasized by 0.5 A submitted to the 52h latention Poleomyelins. Conference (1960) In general, the vaccue appeared to give about 30 per cent protection methods given three does and 90 per cent after four doses, protection being better in young than in older children.

On the other hand it is not yet known how long unmunity to polomylink lasts in those gives a full course of killed vaccine constains of two or three primary doses and a booster dose while antibodies to the primary course persist. Moreover, it appears that formolised vaccine offers little protection against non paralytic polomyelius. Studies in *Americas above thes Sals* vaccine smay produce inits if any munity to alumentary infection. Not only are vaccinated people as liable to infection as unvaccinated but the duration of exerction and the quartity of rura in the stools appear to be unmodified so that, however extensive the programme using formolised vaccine, its unlikely to reduce the reservor of variant varus in the community A further disadvantage of formolised vaccine is that because it must be given an three or more widely spaced doese to be fully effective, it is only of limited use as an emergency measure in epidemic control

Persistence of Immunity For a discussion on the persistence of immunity siter the administration of formalian treated pohovirus vaccine see Salk Lancet 1/1960 715

Live Oral Vaccines Research into the production of a safe and effective living attenuated vaccine is proceeding intensively in many quarters The advantages of such vaccines over formolised vaccines are that they are easier and cheaper to make and easier to administer and that they give a broader type of immunity which will prevent or modify subsequent infection of the alimentary tract with poliovirus (Dick and Dane, Brit med J, 11/1958, 1184) The vaccine viruses given orally multiply in the alimentary tract like natural polioviruses and the vaccinated subjects develop an immunity probably similar to that following an infection with one of the naturally invasive, naturally occurring strains. There is reason to think that the vaccine virus can do this very soon after its ingestion so that widespread use of such a vaccine might interfere with the epidemic spread of virulent strains and ultimately displace such strains from the community. The possible danger is to contacts who may become infected from the vaccinated persons, since living attenuated virus can pass by natural means from children who have ingested it to family contacts and others. If such strains remain attenusted then their dissemination among the population might supplant the wild virulent strains and raise the general immunity Dick (Brit med J. 1/1959 618) however, has shown that although the vaccine viruses given by mouth are avarulent they show an increase in virulence after multiplication in the gut of some people and the excreted viruses cannot always be differentiated from the less virulent naturally occurring strains

Although the polovirus strains incorporated in current living vaccines have all been selected for their apparent lack of neurotopism when inoculated into the central nervous system of monkeys, it has been generally found that virus soluted from the faces of those who have been infected with such vaccines commonly possesses rather more neurotopsm than that of the vaccine such, though it is agreed that the observed increase in neurotropism is small Salan (*Dirt med J*, 1/1959, 663) states that no untoward reactions in either the chaldren or their connects have so far resulted from treatment with onel vaccines derived from treated currently available strains of each of the three type. Spread of the vaccine virus to others is an accepted fact and is being carfully studied.

Large scale vaccination projects with hive vaccines are being conducted in America (Solombia Corta Rice, Niessingua and Mexico), and mi Bulgaris, Czechoalovska, Hungary, Poland, and the U S S R. At the Sul International Folomystatic Conference, held in Copenhagen in 1959 over 15 million people an the U S S R had been given vaccine, preprised from Sahn's strature, and by the end of 1960 it was proposed to vaccunate the whole population between the ages of 2 months and 21 years, altogether 77 million people, this propert was negative completion, so far without untoward results American reports also antesided to the safety of the vaccune. In Russian the schedule of vaccunation most widely used (*Ant med J.*, 11960, 1729) is to feed each type of vaccune separately in the order citype 1, 3 and 2, with an interval of 4 to 6 weeks between the milk, but for older children and adules the vaccune is a full are the safety of the vaccular space of a section of the safety of the

"Although a vast amount of work remains to be done, and there may be many putallis ahead, there is a rapidly increasing trend in favour of developing and using hev accence, which will be given further impetus by the announcement of the US Public Health Service that the babin vaccence has been found suitable for use in the United States

National experiences with inactivated and live poliovirus vacuines are reviewed and the problems associated with the production of vacuines and with the various aspects of vaccination are discussed in the third report of the World Heilth Organisation a Expert Commutee on Poliomyetics (Horld Hith Org. techw. Rep. Ser., 1960 No. 203).

Rabies

Extra Pharmacopœta Vol II, 23rd Edn, p 866

Many workers throughout the world have been engaged for some time in attempts to overcome the serious drawbacks associated with existing rables vaccines The most important drawbacks are (1) failure to prevent death especially following severe exposures where the incubation period is short (2) paralytic accidents apparently resulting from a reaction to the nervous tissue in the vaccine, and (3) the necessity for a prolonged and uncleasant course of treatment usually consisting of 14 to 21 daily inoculations Much of the work has been centred on the evaluation of the Flury vaccine The Flury strain of rabies virus was isolated in 1940 from a girl of that name who died after an illness of 4 days, the strain was eventually adapted to growth in chick embryos by Koprowski and Cox in 1958 By the 50th serial embryo passage the strain was sufficiently avarulent to permit its use, which is now widespread for curine immuni sation By the 182nd embryo passage the strain lost its ability to produce fatal encephalitis in cerebrally inoculated adult mice and ceased to cause disease on extraneural inoculation of cattle This high eng passage (IIFI) virus was chosen for experimental immunisation of man HEP Flury vaccines have now been used in more than 1000 persons and no reactions attributable to the Flury virus per se have been observed

An investigation into the antibody response to acrum and vaccine inoculations was carried out in 1955 by Acanasta et al (Bah) II seld IIIh Org. 1956 14 593) Eleven groups, each of 10 adult volunteers pre viously unexposed to rabies and with no history of rabies vaccination were inoculated according to different schedules with phenolised inac tivated vaccine or Flury vaccine with or without one inoculation of hyperimmune serum or (one group) with hyperimmune serum alone Serum specimens were studied for antibody up to the 28th day following the first inoculation of the vaccines and serum. The best protection as indicated by early and continuous antibody levels was obtained in the group which received hyperimmune serum fone injection of 0.5 ml per kg body weight intramuscularly) followed by 12 daily injections of 0.5 ml of phenolised vaccine the first inoculation being given 24 hours after the first injection of serum. The antibody levels in this group were comparable to those observed in man treated effectively with antiserum vaccine combination after severe exposure to rables. One intramuscular injection of 3 ml of Flury vaccine did not produce any detectable antibody and the use of Flury vaccine following hyperimmune serum made no appreciable difference to the antibody levels when compared with those following the use of the serum alone

As the result of primary immunisation of 387 persons with various courses of HEP Flury vaccine and of 54 persons with Harris or Semple type vaccines Fox et al (Bull World Hub Org 1997 17, 869) found that while antibody response to the Flury vaccine was as rapid as that to the conventional type is fall short in uniformity and level of response. They concluded that the hirsy aster of the virus secreted of little practical importance as the evidence suggested that it did not multiply in man thus meant that its antigenic effect depended entirely on the organiural antigen present in the vaccine. On the other hand the level of antibody response might not be of critical morporance, and it was possible inspiritly lack of protection. They were of the gomion that the most promising course unvolved a 4 does achieved with a 4 does ourse of Semple vaccine similarly speed.

A study of recipients of Pasteur treatment indicated that anihody commonly previsits for at least 5 years after a single course and for 15 years or more after re treatment. The ability to respond to a booster does of lury vaccine persuits for at least 25 years. It he response is prompt and usually equal to that resulting from a full primary course. It is suggested that previously treated persons thered not receive more than a single booster does on re exposure and that Pasteur treatment provides a solid basis for long sustained immunity.

Sharples et al (Bull World Hith Org. 1957 17 905) agree with the view that the response to HEP Flury vacents a directly related to its virus content and that the preparation must therefore be sufficiently visible to guarantee that its humg varias content at the time of uses is high. While there is no conclusive evidence that excess embryo tasue interferes with antibody production there is clear evidence that good antibody response can be choiced by centrifugation. Three intravulations injections of 0.2 ml of this centrifuged vaccine given at intervals of 5 to 7 days (reduced no one superiors mustice) that evidence that good antibody to 1 or earl (loc, cut) after a smaller number of subcutine spreamed of the statement of the stress of the stress of 5 to 7 days (reduced no one superiors mustice) thous had had a previous course of rubes vaccine (loc, cut) after a smaller number of subcutine single reactions under a supervasion at the site of inaccine allo reduced the number of loc remesting effective as supportations at the site of inaccine and the site of the centrifuged vaccine and the site of inaccine a

painful swelling of the forearm, as compared with the use of the filtered vaccine

A comparison was made by Greenberg and Childress (J Amer med Ass., 1960, 173 333) in the antirables clinics of the New York City Department of Health of the general and local reactions and the antibody attres produced in 127 patients given mjections of Semple brain tissue rables vaccine and 123 patients given injections of a vaccine, prepared in embryonated duck eggs infected with fixed virus to which \$ propiolactone 1 4000 had been added Alternate patients were given 14 daily injections subcutaneously either of Semple vaccine 0.5 ml (20 per cent suspension) or of duck embryo vaccine 1 ml The results indicated that rables neutralising antroodies developed sooner after injection of duck embryo vaccine than after injection of Semple vaccine, but the differences between the two groups in the 11 to 15-day period was not statistically significant Booster effects were obtained readily with both vaccines Local reactions were about the same after each type of vaccine though they were somewhat more severe after the Semple vaccine. The com plication of encephalomyelitis did not occur after the duck-embryo vaccine but did occur in 2 patients who received the Semple vaccine The authors recommend that the duck-embryo vaccine supplant the braintissue vaccine for the prophylans of rabies

Diagrocuss Goldwasser et ef (Butl Herd Hibb Org 1959 20 578) desenbe a metido of staunang with likorescent astrohody strets rebies antigera in smears made from the tailwary glends of rebud anomals. The fluorescent segurit und was fluorescen isothwarymatic. Thas technogues consinced the advantage day. The average time required for the canomation of a laide was 10 minutes, and in the majoraty of casts where virus was percent in the salvarg gland it was only necessary to extraine a very few fields. Out of some 300 alder prepared from noo rabid numalis only one of helps postwer dances was made as while in the ultion of 4 were dargmented by this technoque and the one mused constants only a race of virus.

Staphylococcal Infections

Extra Pharmacopæia Vol II, 23rd Edn p 851

The increasing incidence of outbreaks of staphylococcal infections of an epidemic nature in hospitals all over the world associated with the emergence of antibutic resistant strams of staphylococci has led during recent years to intensive research into the epidemiology of staphylococcal disease

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sets, close relationship between the cultures is suggested by similar or identical phage patterns while differences between the cultures are indicated by distinct differences in their patterns

During the years 1954-7 the Staphylococcus Reference Laboratory at Chlindale received for type identification some 3803 strains of stanhylo cocci which had been isolated from sentic lesions in hospital nationts during investigations of epidemics of hospital infection (Williams Lancet, 1/1959, 190) Almost all the strains from the maternity wards came from septic skin and eve lesions among babies, while the strains from surgical and other units were mostly from septic wounds. Altogether well over 200 different phage patterns possibly representing different types of stanhylococci were recognised but 20 types or small groups of related types occurred ten times or more. There was a striking difference between the distribution of strains from maternity and surgical units strains of phage group I were predominant in maternity units and strains of phage group III in surgical units. Both in maternity and in surgical units there was a clear indication of the existence of epidemic types of stanhylococci Indeed four types (80 52A/79 71, and 7/47/53/54/ 75) were responsible for 50 per cent of the maternity unit outbreaks and three types (80 75/77, and 47/53/75/77) were responsible for 50 per cent of the outbreaks in the surgical wards. Of the specific epidemic types, type 80 is the one which has given rise to the greatest concern. The specifie phace for this strain was first isolated by Rountree in Australia in 1953 Shortly afterwards a very similar phage type 81, was described in Canada Most type 80 strains seen in Britam are also lysed by phage 81 and are to be regarded as the same type as the 81 or 80/81 of the Canadian and United States reports

Since its isolation in 1953 type 80 81 has become virtually a pandemie strain (Lancet 1/1959 298) and is becoming increasingly responsible for staphylococcal epidemics. Thus of the epidemics investigated by Wil liams, 16 per cent were caused by type 80/81 in 1954 and 42 per cent in 1957 This strain has now been responsible for more recorded epidemics than any other type and (like other group I strains) it commonly generates a high rate of carriage (and often a high incidence of skin lesions) among hospital staffs. It has an extraordinary ability to colonise the noses of the hospital staff and once established in the nose it usually remains for a long period as the carried strain whereas other hospital staphylococct though frequently picked up, usually remain in the nose for only a short time. Such dangerous and persistent strains of endemic staphylococci, and especially type 80/81 may be readily disseminated among the general population by patients after discharge from hospital or by those visiting or having contact with hospitals. Williams considers that routine treatment of carriers of epidemic strains is probably indicated in maternity units and, in the case of type 80 81 carriers also in auroical units

Degrenss: Deep setted anphylococcal infection is not readily diagnosed bactricologically unce the organisms often multiply in a test from which recovery is difficult e.g. in spinal lesions. On the other hand at a known that the series of patternt with staphylococcal infection may contain an measurable quantity antibid et to a number of andgeme of the staphylococcan. Towers and Gladotone (Longer 11/158) 1192) have defined two periodical inst backed on the smary of backet in the staphylococcas in the staphylococcas of the staphylococcas (Longer 11/158) and diagnostic staphylococcas of the staphylococcas backet in the staphylococcas of the staphylococcas of the staphylococcas (Longer 11/158) and diagnostic staphylococcas of the staphylococcas (Longer 11/158) and the staphylococcas of the staphylococcas of the staphylococcas (Longer 11/158) and the staphylococcas of the staphylococcas ant: Panton Valentine Icucoexim heing indicative of recent staphylococcal infection or reinfection Debuils of the tests are given together with six case reports indicating the value of this diagnostic procedure

A screen test and selective medium for the rapid detection of epidemic strains of Staph aureus has been devised by Moore (Lancet 1)/1960, 453) based on the finding that ataphylococci of phage types known to be associated with hospital infection are more resistant to mercuric salts than non epidemic strains A series of 505 suphylococcal atrains received for phage typing from various faboratorics were divided into mercury resistant and mercury sensitive groups on the basis of growth or absence of growth on pentone agar containing mercuric chloride 1 in 27 500 In a series of 210 staphylococci falling into phage-group [137 (95 1 per cent) of 144 strains of phage type 80 or 52/52A/80 were mercury resistant Phage group I strains without an 80 in their phage pattern were all mercury sensitive Only 3 (5 9 per cent) out of phage group II strains were mercury resistant all 3 were type 71 strains isolated from wounds Of 171 group 111 strains 69 (40 per cent) were mercury resistant the mercury resistant strains in this group belonged mainly to phage types associated with epidemic infection The property of mercury resistance paralleled in general that of antibiotic resistance. The test should prove useful in the day to-day control of infection on the basis of rapid recognition and segregation of sources of infection in a hospital population

Stephylococcus allow Septements While compliane-negative Sough abus (Stokh negrophyticus) in blood cultures in particular is simont device assumed to be a contemposit blood cultures in particular is simont device have collected over S0 reported evens of Sough Action 2000 (Stokh negative States and the set of the state state of the state state of the Searce of their overs of reported evens of Sough Actionary Sources (Laser conted with crystal stratery, which even to be becoming common (Laser conted with crystal stratery, which even to be becoming common (Laser damaged by accused the strate strate strate strate strate strate strate as part of an endeerative strating when this organism infers with a personally damaged by accused the damaged stratery shall be a strate stra

Syphilis

Extra Pharmacoporta Vol II, 23rd Edn, p 884

Serological Diagnosis

"The most recent addatoms to laboratory and an the duranous of apphilo module the Tropomena palidame immobilisation (TPI) test, the T palidam arguintation (TPA) test and the T palidam immuse admented (TPIA) test that the test anabolis of the test and the test anabolic enter a particular in the older types of procedure. While it is true that the discovery of scrologest model and the test anabolism of the test and the discovery of scrologest model and the test anabolism of the test and the discovery of scrologest model and the test and the test and the test and the discovery of scrologest model and the test and the test and the test and the discovery of scrologest model and the test and the balancest areas in addition there could be test apple of the test test and the test test and the test test and the test and te

It is the view of Harris and Olansky (Bull Hord Illih Org. 1956 14 210) that the complexity and cost of the TPI test militate against its adoption as a primary test for the detection of syphilis The TPA and TPIA are less complex

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than TPI and may later be adopted as primary tests but their efficiency requires further proof

Treponema pallidum Immobilisation (TP)) Test, The TPI rest was first described by Nelon and Nayer ($l \neq w$) (46, 1919 & 250). It can be carried out either qualitatively or quantitatively although owing to the technical difficulties of the quantitative test this is tilted used Lave pathogenic reponents construit the antigen by means of which aerum is conclusion; a multicely antibody Together with a testic guarate gas ground as complement a multice in the structure of the structure is the examined by dark field microscopy and if ambody in the mixture is then examined by dark field microscopy and if ambody is present in the serum the meabrance metals in an immobilisation of the treponents. The immobilising embody demonstrated in the test is different from the antibody or antiodesic demonstrated in the test is different in the qualitative test the results are generally interpreted as pointies if molithy determinations strels is difference of more than to the origin the structure is the between 50 per cent and 20 per cent and as negative if the difference is less than 20 per cent.

The general sensitivity of the test is higher than that of the usual seriological tests approaching 100 per cost in untracted syphilis in fluiding congenital syphilis. Exceptions are primery and to a leaser degree entry secondary cases in which the TPI may be negative and the usual tests postwere In treated syphilis the sensitivity is also very high, being about 35 per cent of all cat genres together Only primary and early accounty TPI positive cases become negative in responte to treatment and this response is generally taken as a sign of cure

The specificity of the test as measured in sera from normal individuals is nearly 100 per cent. In biologically false positive sera and sera from patients suffering from disease other than symbils, it also appears to be about 100 per cent. The low frequency of TPL positive reactions in leprosy and malara is also an indication of the specificity of the test.

To new up according to Nielsen and Reyn (Ball World Hith Org, 1955, 14 253) the TFL manufs a disposite test and a this present steps of development, as not yet fit to be used as a test of cure except perhaps un early styphils. The mann application of the test is to cases an the persistent and unexpectedly positive reactions to the usual serological sets the diagnosis here being either latent styphils or chrone biologically likely positive reactions.

Treponema palldum Arglutination (TPA) Tests In order to obvate some of the dibushes and complexaters of the TPI sets a number of attempts have been made to use T palldum as an ant gen in agglutination tests but a number of technical difficulties have yet to be overcome including the difficulty of obtaining satisficatory antigen supernova. Magnuton and Vielzod (*Bull* 19 and 11/10 by 1955) 43 239 consider that these tests do not yet posses the dagnomic value of the TPI test and that the tranunological interpretation of results is by no means clear

Torulosia

Extra Pharmacopena Vol II, 23rd Edn. p. 889

In the view of Symmers and Wimer (Lancet, 1/1959, 943) the aspect of torulosis which is of most practical diagnostic importance is its occurrence as a complication of diseases of the lymphoreticular system Although this complication is rare in relation to the overall incidence of Hodokin's disease and other malignant diseases of the lymphoreticular system, and of sarcoidosis, these conditions account for something like a third of all cases of torulosis The possibility of torulosis should always be considered whenever a patient with any disease of the lymphoreticular system develops any sign of neurological disease (particularly meningitis), or of the onset of pulmonary disease (or alteration in existing pulmonary lesions), or of ostentis, or of ulceration of the skin or mucous membranes In laboratory diagnosis cryptococci may be mistaken for lymphocytes in cerebrospinal fluid unless the centrifuge deposit is mixed with niorosin or Indian ink to show the characteristic capsule as a broad clear zone between the cell body of the yeast and the dark background On the other hand, when the yeasts are numerous in ordinary preparations they are more likely to be confused with red blood cells than with lymphocytes Until recently there was no effective treatment for torulosis, unless the disease was eradicable by surgery, and the outcome was fatal in all except rare cases. The prognosis has now, however, been improved preatly by the introduction of amphotericin R, but even this is not an unfailing cure and it is essential to start treatment early

Trypanosomiasis

Extra Pharmacopetta Vol II, 23rd Edn, p 892

It is common knowledge that the ESR, is high in patients suffering from trypanosomiasis According to Gall et al (Ann trop Med Parant, 1957, 51, 136) it is particularly high in virulent cases of the disease during its febrile periods Determination of the ESR in a series of rural and urban control subjects in Nigeria gave a median one-hour rate of sedimentation of 15 to 76 mm In 377 parasitically positive untreated cases of sleeping sickness (Trypanosoma gambiense) the sedimentation rates were strikingly high the median one hour rate being 114 mm Such a figure would normally be associated with extensive tustic destruction, with advanced malignant disease, or with blood-protein changes as in myelomatosis Marked blood protein changes were shown to occur with trypanosomal infection The ESR rises early in the disease and there after falls as the disease progresses with increasing changes in the cere brospinal fluid During treatment with Melarsen or with suramin and tryparsamide, the ESR soon falls to helf its initial value and during the next year continues to fall to about a quarter of the maximum Relapse of the disease after treatment is not associated with a further rise in the ESR and repetition of the treatment does not again alter the ESR The increase in the ESR is closely associated with the red-cell clumping evident in trypanosomiasis which has been called 'autoagglutination' or 'pseudo-agglutination'

Tuberculosis

Extra Pharmacopera Vol II 23rd Edn p 894

The World Health Organisation a programme for the control of tuberculosis is reviewed in the seventh report of the Organisation as Expert Commutee on Tuberculosis (World Hillh Org. techn. Rep. Ser., 1960, No. 1957). The Commutee was of the option that specific control measures had been effective and were being increasingly influential, and its considerations and recommendations are largely confined to such specific measures. The programme suggested by the World Health Organisation underlines the importance of the community or public health approach. The problems arising from this approach has been studied by the Commutee and are docsured in the proort.

Direct Methods of Digenosis

Examination of Sputum In a seport by a working party of the Public Health Laboratory Service on the Laboratory Disgnosis of Tuberculosis (Mon Bull, Minist Hith Lab Serv 1958 17 99) the following are recommended as the two best methods for homogenising sputum

up two over mean of homogenessing spuring (1) Nation 1953 Mol factions of Jangmann and Grutchka's Original Method Solution A ferrous sulphase (FSSO, 714,0) 20 g sulphura acid 20 per cent (vol per cent) 100 ml Solution B hydrogen percude solution (20 vol) 5 ml double glass issuelled water 95 ml (Solution B is made up freshly as required)

To 1 ml of aputum in a universal container add 0 6 ml of Solution A and shake well then add 0 6 ml of Solution B Stake the container for 30 records and allow to stand for 20 munice aliasing at unterval A 404 5 per cent sterile sodium cirrete solution to the shoulder of the container stake and centrifuge for 30 munices at 3000 r pm. Decent the supermaturi fluid

"An investigation of the effect of centralization on cultures from spurum treasted by the solum hydroade method shows that such centrulygation it is appreciable proportion of tubercle bacill in the upermatant fluid. Centrally galom such constructed the tasks in the dependent bar cultures much from the bornogenized spurum. The numbers of tubercle bacilli terms anny in supremion after centrulygation wete often sufficient to yield positive cultures. The best returns were obtained by culturing part of the hornogenised maternal before uncentruling the more provided to the hornogenized maternal before uncentruling the noncentral to Olm of loginal entities redunin sporested to be the maximum practicable innocularly. When the volume of spurum svalable for culture does not exceed 1 and culture of the whole of the hornogenized specimen uncentruling that metantize and the valable of its behoved in proportion of pointer returns than the andium of Lewraten and Jenser.

Kirchner's Medium with Fenicilin D solve I ampoule of 100 000 units of benzy increasing in 16m of a standard with the standard of the standard pli 6 is ngless distilled water (th a wall berg for 4 weeks an a cold store). One part of this solution is added to 9 years of filtered horse strum. One mit of the plant of this solution is added to 9 years of filtered horse strum. One mit of the lattice structure of the structure of the structure of the structure based of culture medium. Hirchner's Medlum (Kurchner 1932) Modified is prepared as follows monopotasum photbats (14,14,22, disoldum phosphate (N_{44} [HO₂) [21]4,0]9 g magnesium subject PO₄ 2 g disoldum phosphate (N_{44} [HO₂) Spyren 20 ml e ulifed water HOO mh Add mt of 0 4 per cent phenol red per litre Dapenes in 9 ml quantité es m 1 outor mt of 0 4 per cent mes added uton as suicolated and the pH is a heyes 4 6 9 no 2 billered photomeron as added to the base in the proportion of 1 to 9 preferably the day before use and the bottles incubated oversight

Indirect Methods of Diagnosis (Extra Pharmacopicia Vol 11 23rd Edn, p 898)

Tuberculin Tests A study was conducted during the period 1950-8 under the autpiers of the World Health Organisation (Nyboe Bull Borld Hith Ore. 1960 22 5) in 33 countries in Africa America Asta and Europe to determine whether it is always justified to take a tuberculin reaction over a certain size as indicative of infection with tubercle bacills and reactions below the limit as indicative of absence of such infection About 190 000 persons were tested of whom 44 per cent were school children and the remainder general population groups of all ages Intradermal (Mantoux) 5 and 100 TU (PPD) tests were employed and the resulting distr bution of reactions according to size subjected to statistical analys s It was demonstrated that the pattern of tuberculin sen s tivity varies widely between populations but follows a definite geographical trend In temperate and subtropical countries almost all test reactions are e ther clearly positive or clearly negative indicating that the test is highly efficient. In tropical regions on the other hand a large proportion of the reactions are intermediate in size and distinction between the two kinds of reaction is therefore difficult. The data strongly suggest that the cause of the intermediate reactions ta that the population to being massively exposed to certain un dentified sen athing agents possibly other types of mycobacteria producing cross reactions to tuberculin Until the tuberculin test is improved for use in trop cal countries a clear-cut distinction between tuberculosis infected and uninfected cannot be made in these areas by means of the present test

Undulant Fevers

Extra Pharmacopæra Vol II 23rd Edn p 901

Calinositon The growth of Dreadla cells as a markure of culture med um (reprince type) and blood is not due to growth promoting constructions in the medium but to the presence of agoin mining bard which have the Hilto Org. 1357 16 252) house that thus meterstrone may be accomplished by fullo Org. 1357 16 252 house that thus meterstrone may be accomplished by forwaring the pH of the blood and culture medium or blat of the blood after whose used in blood is one present medium or blat of the blood after growth of all types and species of Brandla may be demanded from any protecting the pH of the blood in Brandla may be demanded from any protecting the the growth of Brandla may be demanded from any protecting the species of Brandla may be demanded from any protecting the result between the resented on the transfer of asian in the blood the result behaves hole as noted in covering the pH in the prelated from the result of Co, more rendered unancenessity for the growth of CO, dependent terms of Brandla may be acting the prevent of LOO, dependent terms of Brandla may be acting the prevent of LOO, dependent terms of Brandla may be acting the prevent of LOO, dependent terms of Brandla may be acting the prevent of blat terms of Brandla may be acting the prevent of LOO.

CU₂ cogenetert strans of *i p* above us to presence of Dison The procedure that was adopted for the rays of provide of a process of Bruella in Blood without endurer mediums as if follows. Or all works are built as added 0.5 gr of The bound is supported with extend built as added 0.5 gr of The built is supported with extend days at 120° for 20 munutes (builts as supported may be closed with a strate unber stonger and kept undefaultarity) Blood as collected aspecually the

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with or without sodium citrate and 10 ml is added to the bottle. The blood and resin are mixed well and the bacter al cells suspended in 0.3 ml of diluting fluid are added. The bottle is closed ummediately will a sterile rubber stopper and involvated at 37".

Yellow Fever

Extra Pharmacopœia Vol II 23rd Edn p 906

Immunisation In an apprecision of the present position of vaccaniton by seminetion with the 17D strains Meera (Yawa Kos trop Med Hyg 195) 21 318) finds that beering in mind considerations of safety economy and large populations at rink an relativity undershoped areas to batte endemine are prevented and the population protected form accidental splvan infection. The mithod so not a present interacted to replace minimum state and the propenation of the safety of the protection of persons such as Europeans in endemine areas runs areas the more followant course than in proper house in endemine areas runs areas the more followant course than in proper house in endemine areas runs areas and the more followant course than in proper house in endemine areas runs areas runs areas the more followant course than in proper house

The best althem for the vectors as a sterile 2 per cent solut on of asoms. Two dopps of vaccouses are spie do over the deltowal and one ccors harbed as arathed be arreited as with the flat of the needle without drawing blood Einster cluck studies and the state of the state of the state of the state of the saturational comployed for 17 years in Fornch Vest Africa without the occur rence of any incident attributed to a verif contamunation in the system.

From the results of trails covering 42.490 veccinst con by scarficiation (using either chick study or trails to sum veccing) is a climit ditat is 5 per cent ±3 per cent of periods veccinated by this method are solidly protected aguinat yellow fever and this figure is considered h physicalicatory for the rusing of immunyt level in populations exposed to the risk of epidemics. To maintain the immunity level of an area tobor 50 per cent it is recommended that revaccination isbuild be done after 4 years and later revaccinations at longer interval

STERILISATION Extra Pharmacopters Vol II, 23rd Edn, pp 911-25

Methods of Sterilisation Extra Pharmacopera Vol 11, 23rd Edn, p 912

Sterilisation of Rubber Closures The Britah Pharmacopeumethods of treating rubber closures has been criticased as modequate by Royce and Sykes (J. Pharm Pharmacol 1957, 9, \$14) due to baceroution at bacterioxitunes from multiple does injections Tuber to hue that the baceroution at the closure of pherighnetic rest and that the baceroution backer closures of pherighnetic closures and that the baceroution backer closures of pherighnetic closures and that the absorption of rubber closures of pherighnetic closures of of rubber to 3 ml of 0 002 per cent cg 35 per cent absorption for 1g of rubber to 3 ml of 0 002 per cent cg 35 per cent absorption for the siter one month at room temperature.

According to A B Nuclear (Dank Tudskr Farm 1958, 32 109 per J Pharm Pharmacel, 1959, 11, 56) polyrwnyl chloride caps backed with ubber absorb phenol and chloroceresol more readily than rubber caps and cannot therefore be recommended for anyections containing phenole bacteriostatica

Standard: for rebor relow releases Bruth Standard [B 32331960) specificequiraments for vulcansed public clowers for use with upterbible products and stutible for atcam technismon Standards are laid down for materials and watermanabay of rubber wise judges and epsy "Teris hare been derived for "Teris hare been derived and the standard state and the state and alkilumy: permeabably enter works and computability of the rubber with any etable products to water works and computability of the rubber with any etable products to water works and the state state state.

Gaseous Sterlisation (Vol II, 23rd Edn. p 917) Most of the earlier work on gaseous sterlisation was done using ethyleter oxide. Its principal disadvantage of ethylete oxide is that it forms explosite maximum with are but this was overscome by perphysing a 10 pet cent used in place of cathon disorde notably certain fluorinistic hydroenhorm, which also form onn infimmable maxtures with ethylete oxide Mixiurei of dichlorodifluoromethane and turkhorofluoromethane with 9 to 11 per cent w/w of ethylete acade have been most commonly employed The advantages of these maxtures over the carbon disorde mutture arbat they permit a be size paired have been most commonly employed The advantages of these maxtures over the carbon disorde mutture and the thore the size pair pairs and persons and that the logated duration can be stored in containers of a much lighter weight (e g annil disposible can) than the set cylinders required for the carbon disposible mutuum can be stored in containers of a much lighter weight (e g annil disposible

The principal factors on which iterilisation by ethylene could depend are exposure time, temperature, humidity, and the concentration or, more precisely, the partial pressure of the ethylene ovide in the exposure chamber, the concentration being capterseals as the amount of ethylen outde in a given space and not as the amount of ethylene could compare the standard of the standard of the standard the compare with the total amount of all gases parent in this space. Ethylene could compare the standard the standard by most 35° of the penetic most the host of the standard by most 35° of the penetic most the host of the enterthylene and the standard by most 35° of the penetic ounde pen large 15% for 5 hours is said to be estification (or not inplications if the concentration is successful a 50° to 900 mg per large 110° at the exposure time may be reduced to 3 hours Nosture is essential for effective atentiastion by ethylene coude and Kaye and Philips (dimerJ Hyg 1949, 50 296) have shown that the gas is most effective at a relative humdiny of about 30 per cent Many materials particularly plastics rubber and leather about ethylene oxide freely during the exposure period and time has to be allowed for the dissipation of the absorbed gas, which is highly toxic before the sterilised materials can be used

For reports on the experimental use of ethylene outde in the sterilization of unitaments equipment and powders, see Stefanh et al (Amer J Ophind 1956 d2 424) Royce (Chem & Druge 1959 171 507) and Grundy et al (J Amer phare As: Sci Zah 1957 d4 33) Foran accounted backeriological investigation of the effectiveness of ethylene outde see Barnell and Freeman (Lamer J 1959 917)

An indicator control device for ethylene oxide aterilisation is described by Royce and Bowler (J Pharm Pharmacol 1959 11 294 T)

During the last few years methods of sterilisation using other gases have also been investigated notably β propiolacione vapour and propylene catife. Suitable apparatus for promoting vapoursation of β propolacione by heating the liquid in an air stream, by atomisation of by drawing a vacuum is a described by Allien and Murphy (J Amer med Air: 1950–172 (1739) Contact between adjacent surfaces must be avoided and articles must be unwrapped

§ Propolatione which is a colourless liquid at room temperatures is twenty five times more active as a vapour phase disinfectant than formalderyde and four thousand times more active than ethylene oxide when used under conditions of maximum effectiveness in its vapour attact its neither inflammable nor explosive and in aqueous solution it hydrolyses to products which are not toxie but which are no longer bactericidal

\$ Propulations requires a relative humidity of 75 per cent or more for rapid stenihation. It is not suitable for stenihum phylon and polytypene which disuntegrate and polyr myl chloride which is deformed after long exposure. The vapour does not corrode common metals and alloys or affect acrylic, melannic and polyurethane plastics and there is no change in tensie strength. It is most useful for stenihum interview. and rubber closures and for disanfecting large enclosed areas

Propylene oxide which is a colourless liquid at room temperatures has been used for the purposes of steril sation but its activity is only about half that of ethylene oxide

Tale with 5 per cent of bonc and containing 5 per cent of water in a scaled can was subjected to 3 per cent proppione could injected into the can by means of a hypodernic syntage and stored at 4% The powder became sterile after one day and was free of the odour of propylene oxide after seven days B sublis was used as the text organizations (MSC Cham 1958 29 335)

The penetrating quality of a gas makes it possible to sterilise packaged materials under construide conditions where speed is of no importance un the manufacturing process. Sterilisation can be carried out at normal or alightly elevated temperatures and the gas can be completely removed from the sterilised material at the end of the process. Although gaseous attribution has a lumited value as a means of brodiancy sprice materials and has been found to be particularly suitable for the sterilisation of instruments and apparature.

For information on the sterilisation of blankets by formaldehyde and on the steril sation of bedding by ethylene oxide see page 92 Sternisation by Jonking Radiations (Vol 11, 23rd Edu, p. 018). Methods of using onising radiations for the sterilization of food and pharmaceutical products have been uncestigated on an uncreasing scalduring the last few years but, to far, such methods have not found wide application in the pharmaceutical industry in Great Britain. In 1956, the Association of British Pharmaceutical industry set up a vorking party to investigate the use of gamma radiation sources for the sterilisation of pharmaceutical products and the report of this working party to investigate the use of gamma radiation sources for the sterilisation of pharmaceutical products and the report of this working party to inshed in June 1960. As a result of their investigations, they concluded that a dows of 2 > 1.10 rad, such appears adequate the achieve sterility, produces unsteeptible changes in many substances tised in pharmacy pharmaceutical appleanse but that the pharmacy might limit its pharmaceutical appleanse but that the production and for sterilisation containers.

Before material is stenlased by radiation there are several factors which must be investigated There must be no resultant changen enclour, texture, or activity, or alteration in physical properties such as the rule and charty of solution. No toxic products must be formed nor must there be a pyrogenic or allergence effect from irradiated bateria. Any traces of pharmacological action determined it is necessary to study the effect of prolonged or excessive treatment with the gradiated daug. For these reasons all preparations in the USA so stenjised are regarded in laws a new drugs within the meaning of the Federal Food, Drug and Cosmetic Act Completely new tests and standards are required for irradiated products

Stenihaston by ionuing raduutons is suitable for tubitances of a relatively sumple chemical structure which are thermolobile, since there is a negligible rise in temperature. The actual stenihing does required depends servicity on the number of organisms iongnally present. Only rarely, when initial contamination is acceptionally high, is at found that organisms survives a does of 20 × 100° and will, as there above, the for the doesge necessary to hill vanous specific organisms tree. Mfg Chem, 1959, 30, 435

One of the effects of randiation materials in their final containers is that gass, especially soft gass, galocolours and the effect on its alkininity is unknown. Alumnaum is not affected Exposure to gamma radiation for long pencial reduces the tensible strength of exton and rayon, and the tensite strength of wood is reduced by some 10 per cent after a done of $2\times \times 10^4$ rad. In general, it is not possible to serilise plastics by gamma radiation. Polymoburylene and methyl methacrylate (Petrpex) are degraded Polythene loses its tobublity in some solvents and the meltangpoint is affected. This is a lise true of rajon, polychloroperte (Duprene), natural rubber, and co-polymeen of butadems and styrene

Of how obtainers extrained by the A B P 1 working party, it was found that exponentine mulated descloured and lost potency in solution but not in powder, procame hydrochlonde discoloured but dui not show any loss of potency in powder or solution, asserble acid in powder was not affected, but in solution it deepend in colour and lost strength; it was very luith affected by radiation exercit for an workers was soluble matter, substances adversely affected were stropine subplate expanocobalanum injection, hyenan, hydromodas, insulin, mersibl, morphuse sulphate, pentobarbatone soduum, progesterone, huopentone soduum, and most sulphonamides The results of tradiating eight antibiotics are also given in the working party's report. The substances examined were benzathune pennellin, dihydrostreptomycin sulphate, soduum benzylpenicillun, sitreptomycen sulphate, and zure beatracin. It was found that with does of both 2 5 × 10⁴ and area to beatracin. If was found that with does of both 2 5 × 10⁴ and area was found that with does of both 2 5 × 10⁴ and here was some alteration of potency (usually a loss), a darkening of the sample, and also a development of doolur in the case of polymyxin sulphate.

Tests on oxytetracycline, attreptomycin potassium chlonde complex, chloretracycline, chloramphenicol, and dry potassium benzylpencillin, have shown that a doage of 2×10^4 rad produces sterilly and, although there is a slight greying of the powder, there is no change in solubility or potency (Horne, Pharm 4, 19155 27) Sterhisation by gamina irradiation is also suitable for hormones such as corticotrophin and cortisone (Pharm 4, 1)1957, 165)

Planna, aortucgrafta, and bone grafts have been sterilised by this method which has also been used successfully for certain type of dressing. (Horne, loc cit.) Gamma irradiation is particularly autiable for sterilising dispossible plastic syringes and rubber. Rubber catheters are being sterilised commercially using speat (see lements as a source of gamma radiation (MIG Chem, 1960, 31, 373). Irradiation also has a possible spplication in the sterilisation of suspensions and powders (MIg Chem, 1959, 30, 435)

Sterilisation can also be effected by the use of high speed electrona which have, however, less penetrating power than gamma ray. Thus method of sterilisation is already being used commercially in USA in the atenhashon of sutures packed in 90 per cent scorropy alcohol an alaminum for using a dose of 2.5×10^{10} rad (λ /lg (Chem, 1999, 30, 437) An ophthalmic ontiment similarly sterilised has also been marketed in USA (Harm J, uf1956, 49)

An important industrial advantage of sterilisation by gamma radiation is that the process can ready be adapted to automation Cost, however, is still the principal limiting factor in the investigation and development of stutble methods. To assist industry in the investigation and development of stutble methods. To assist industry in the investigation of sterilisation by gamma radiation, a cobalt-60 gamma irradiation plact has been imailed by the United Knowdom Atomice Energy Authority at the of antidate methods in the investigation of sterilisation of antidate industrial interview in the sterilisation of the sterilisation of 10 000 real to 5 × 10° rad and enables industry to investigat sterilisation by irradiation on full scale trial runs. For a diagram and description of this gamma irradiation plant the Photom V, 1/1960 433

The Preparation of Eye-drops

The eys-dropy of the Bottsh Pharmaceutral Coder are usually prepared with a fungistatic vehicle such as Solution for Eye-drops, filtered, placed in the final containers, closed, and maintained at 93° to 100° for thirty minutes. If the medicament is not heat stable, the eye-drops are breared with sector precautions. Provided that the resulting product is identical with that produced by the method of the British Pharmacentreal Code, it is still permissible to use another method of pre paration, e.g. ascrite itelation and the state of the state of the state of the S7) has emphasized that, where end the state of the state of the state of the be freshly prepared i.e. dispensed with the state described in the netther an ascrite technique nor the heating state ended to the B PC is certain to remove or hill all large mechanic described in the B PC is certain to remove or hill all large mechanic described in the maintain sterility even if this is statianed ministly. He draws attenuon to some practical aspects of statemang evendpoor

In an article on the preparation and preservation of eye drops Runti (Boll chim form 1960 99 286 and 376) reviews methods of aterilisation and the use of bacteriostatics

For a description of various apparatus for steaming eye-drops ace Chem. & Drugg 1/1961 11

Sterilisation of Surgical Dressings

Extra Pharmacopena Vol II, 23rd Edn. p 920

The methods and equipment employed in hospitals for the sterilisiton of surgical dressings and other surgical matterials have been subjected to much entrainm in recent years notably by Bowe (Planm J, 1955, 473), by Hows and Timbury (Longert, 1956, 666) and na report to the Medical Research Council by its working party on persistie stem Hospital Trutt on Present Sciending Prometer in Sur Happital (1958) includes eriticisms of apparatus, procedure, elsecing of stenity and reponsibility of personal

Bowise conjuders that fulure an stemisation as more commonly due to fullus in design, matuliation, and maintenance of stemisers than to faulty technique and he contends that the majority of stemisers used in Birnau is hopituits and pharmacea are of obolete design. The M KC report discusses the main faults affecting the efficiency of iterlisers used for of the load incorrect timing reconstimution after sterilisation as nut the report emphasism that more fully apply only to the operation of the downward displacement type of exugament commonly in use and not to modern help vacuum sterilisers

Quality of Stears The report of the MR C working party on presure steam inchases (Lonce, 1959 + 43) state that the most effective way of killing bacterial spores in by means of ateam at high temperature which will condense into their substance and mosten them throughly Bowie (Pharm J i 1953 + 473) emphasises that sterilastion depends upon four properties of dry astructed steam vir high temperature, weight of latent heat the ability to form water of condensition and the seour contraction in voltime their as wathing the sequence of decima on the phase boundary between itself and condensities at the same temperature Starm effects sterilisation in the set of condensition in the phase boundary between itself and condensite at the same temperature Starm effects sterilisation in the activities of the starm resides in the When the steam condenses upon a surface its latent heat is transmitted entryet to that surface and the leadh quality of the starm resides in the latent heat and the wetting of the surface by the condensate. The stern lisation of dressings depends on their being completely permeated by dry saturated steam on the phase boundary. The penetrating power of steam is due to the enormous contraction in volume and consequent potential negative pressure at the ate of condensation Steam must be at a pressure so high that in spite of its high temperature (120° to 130°) it is close to the point of condensation steam containing 10 per ent or less by weight of water is suitable for sterilisation. In a downward displacement steriliser wet steam is usually caused by madequate larging madequate trapping of the condensate during sterilisation or inadequate separation in the supply pipe.

Removal of Air The first essential in efficient steam sterilisation is the termoval of air and this is difficient to achieve in the iterilisation of surgical dressings more it is not easy to remove air from the porces of closely packed fibrous material. The M R C working party on pressure steam sterilisers (loc ort) consider that the most effective method of schewing this is with a buje vaccuum sterilizer from which the air is removed by a powerful pump which reduces the absolute pressure of air in the chamber to a value of a few millimenters of mercury before steam is admitted. The report emphasises that this is the only method that can overcome the effects of bad packing or overloading of the iteriliser.

In a downward displacement steriliser the au is removed from the load by gravity the denser cool are being gradually forced downwards out of the load by the tencoming steam. The M.R.C. report emphasises that this method will render containmosted material sterile andy of the steriliser is skiftally operated carefully packed and not overloaded. The load must be loady packed and arranged so that no pockets of cool at can form which it. Dressings drams and similar containers must be picked must be ready used a semilar containers must be picked fun vertically and ascent can flow though the open ports from top to bottom. Surfaces of non permeable material should be separated by permeable fabre.

Timing In an efficient well packed downward displacement steriliser, allowing for steam to permeate the load and raise it to the required temperature, the following exposure times are recommended in the MRC report

	15 lb per square ench (121°)	20 lb per square inch (125°)
Fabric packs	30 m nutes	20 minutes
Dressings drums	45 minutes	30 minutes

The run is timed from the point at which a thermometer placed in the discharge line reaches a temperature within 2^{n} to 3^{n} of that corresponding to the chamber pressure With high vacuum equipment the total sterilisation time can be greatly reduced since the penetration time is minimal and higher temperatures can be employed

Drymg and Danger of Recontamination A load of sterile dressings can be recontaminated during drymg either by the use of an inadsquate air filter or through a faulty non return valve in the chamber orian in forestaing the vacuum air must be drawn from a clean source through a basternological filter. The air filter may be a metal cup filled with a dry sterile plug of non absorbent cottom wool which should be replaced daily and never allowed to become wet A continuous flow of condensate from the chamber divelance channel indicates that the

discharge channel is open If the channel drains into a tun-dish, this will he evident and the air-break will prevent the possibility of liquid refur contamination from the drain Tests for recontamination with unstende air through a faulty filter or a faulty non return valve may be made by culturing clean swabs placed in the outermost layers of packs or drums.

In further comments by the MRC working party on pressure steam stern lisers (Pharm J, 11/1960, 546) recommendations have been made on air filters. They may consist of suitable spun glass which should be held firmly between metal grills in a stout non corrosive canaster Such a filter might be expected to have a life of at least 12 months, and they consider that the use of cotton wool as suggested in their earlier report cannot be regarded as more than an interim measure They do not comment however, on the difficulty of sterilising sich a glass-fibre filter without damaging it - See editorial comment on the working party's investigations of pressure steam stenliners, Pharm J , 11/1960, 603

Heat Penetration (Vol II, 23rd Edn, p 921) In a report to the Medical Research Council working party on pressure steam sterilisers, Kelsey (Lancet, 1/1958, 306) has demonstrated that the use of spores in routine testing of sterilisers can be misleading because the heat resistance of strains and batches can vary The report on sterilisation by steam under increased pressure (Lancet, 1/1959, 425) recommends that spore preparations of known resistance to heat should only be used for assessing new techniques or equipment for research purposes The report states that Browne s tubes, type I, are suitable for routine tests of sterilisation of dressings and gloves in a downward displacement steriliser Once a sterilisation procedure with a high-vacuum steriliser has been laid down and checked with suitable spore preparations, the temperature record should be adequate As a safeguard, the heat treatment is satisfactory if Browne's tubes, type II, turn green

Browne's tubes (Albert Browne Ltd, Chancery St, Leicester) are used at stenlisation indicators

Type I turns from amber to green after besting to 115° for 3 minutes. Type II turns from amber to green after besting to 115° for 15 minutes Type III turns from amber to green after besting to 160° for 1 hour

For an investigation of the efficiency of Browne's tubes and some other steri lisation indicators act Brown and Ridout (Phane J. 1/1960, 5)

Sterilisation of Syringes

Extra Pharmacoporta Vol. II, 23rd Edn, p. 922

There has been criticism of autoclaving as a method of sterilising syringes since steam is unlikely to penetrate between barrel and plunger Of the two methods recommended by the Medical Research Council War Memorandum No 15, heating in a hot-air oven at 160° for not less than one hour is better In a report to the Medical Research Council working party on the sterilisation of syringes, Darmady et al (Lancet, u/1958, 766) have proposed new standards for dry-heat sterilisation After investigating the thermal death times of Clostrichum tetam dried spore bearing soil, and Bacillus stearothermophilus at temperatures of 150° to 190°, they recommend that the steplising temperature be main tained for one and a half times as long as would be necessary to kill all spores of CI tetam at a temperature 10° lower

Subsequent to the publication of the Report on the Planming on I Org anisation of Central Syringe Serences, Nuffield Provincial Hospitals Trust, 1957, a number of sterile syringe services have been inaugurated

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These depend for their efficiency on dismantling and adequate cleaning of used syringes inspection of the needles for sharpness drying lubar cation of the syringe barrel (e.g. with 10 per cent silicone MS 550 in light pertoleum), and reassembly The report suggests that syringes should be dired at 110° to 120° and that the bot air oven used for sterlising should be fitted with a fan and automatic time-control The Medical produced by a central service and that thes should be a separate sterile syringe and needle for each injection

A relation method of steribing symmes has been devised by Darmady et al (J din Path 1957, 10 291) The symmes are loaded in a single layer on trays passing at the rate of 4 mches a minute on a moving belt through a chamber containing electric infra red projectors V arous containers are used to equivalise the time taken for different types of symmes to reach the steribing temperature. A temperature of 180° for at least 11 munities ensures a terribity

A forced convection gas fired oven auitable for sterilising syringes instruments and containers is described by Patrick et al J clim Path 1961 14 62

Sterilisation of Transfusion and Infusion Assemblies The United Sistes Pharmacopeae specifies that samples from each batch of sterilised disposable transfusion and infusion assemblies of tubing shall be tested for steril ty free dom from pyrogent and freedom from tomety

Sterilisation of Rubber Gloves and Instruments The report to the Medical Research Council by the working party on pressure item stenilises (Laneet 1/1959 425) recommends that gloves packed with slops of gause mude stenilised by maintaining at 129° (2016) per spaced by using the stenilised by maintaining at 129° (2016). The shower endb for 51 mature The recommended iterilianty ture for instruments in 15 minutes at 121° to 123° or 3 minutes at 121° to 124° in a situe communication (*Parm J* 11/1960 545) the working party have pitted that information so far example in the indexed that 130° to 134° whom stuffer under damage

A high vacuum infra red steriliser suitable for sterilising operating instruments is described by Darmady et al. J. clin. Path. 1961. 14.38

Sterilisation of Plastics

The sterilisation of most plastics presents aome difficulty since they cannot be sterilised by dry heat at 150° and many cannot be autoclayed

Jenkins et al (Lancet 1/1959 139), working with a disposable plastic transfusion giving act made almost entirely of polyvinyl chlonde with a precurg needle assembly filter, and adapticos of nylon have recommended sterilisation by autoclaving at 15 to 17 lb per square inch at a temperature of 121° to 123° for at least 30 muntes

Walters (*Pharm J* u/1960 304) has stated that plastic surfaces may be sterilised by immersion for one hour in a solution containing 100 parts per million of available chlorine provided they are clean and in good condition

A) lon bottles are said to be expable of repeated sterilisation by auto claving at 120° and n) lon symmets may also be sterilised by autoclaving at temperatures up to 120° Polypropylene may also be sterilised by autoclaving (Chem & Dring uf)960 706)

Intersion in solutions of quaternary animonium salts has been recommended by Farquiar and Lewis for the aterlisation of polythene (Lancet, n)1948, 244). They do not recommend sterilisation by prolonged immersion in Dettol since polythese moreases in weight due to absorption of the oils in the antiseptic Polythesic can be boiled, but tubing loses in shape unless mechanically apported, using any be placed in glass tubes and autoclared at 10⁴ ref 20 minimum any the placed in glass tubes and autoclared at 10⁴ ref 20 minimum and Norman, Planm J, μ (1954, 163). On prolonged exposite at satural due terminable become oxidated Bottles of minimum termination are statical to terminable by heat as they return the flexibility of polythese statif and do not melt at temperatures up to 175⁵.

Immersion for 24 hours in solutions of benzalkonium chloride 1 per cent, cetrimide 1 per cent, or chlorheridine gluconate 0 02 per cent, has been recommended for the sterilisation of methyl methacrylate (Perspex)

From a recent investigation of the interaction of bacternosities agends with plastic symples by Mircox, Kwm, and Autin II, Amer Jhorm Air, Sci Edn, 1959, 48, 457) it is evident that immersion in a bacternoid ei unikely to be a unitable method of startistation of some plastica. They have shown that nylon symples react with methyl hydroxybenosite, peroph hydroxybenosite, phenol, and chlorocresol, which is spiper to diffuse into the nylon. Symples of polythene and polystyrene do not to event. In later work on the interaction of sweep lastic domain symples, Kim and Autian (*J. Amer pharm Ais*, Sci. Edn, 1960, 49, 277) have shown that nylon symples solar badh benonge acd

Further information on the sterilisation of plastics is included in the sections on ethylene oxide, page 80, \$ propiolactone, page 81, and ionising radiations page 82

Hospital Sterilising Equipment and Organisation

Types of Equipment and Use. The report to the Medical Research Council by the working party on pressure stars instrihiers (Lancet, 1/1959, 425) lists the existing equipment and draws attention to the defects in installation and maintenance of steristers (see under Sterialisation of Surgical Dressings, page 84) The report recommends that instruments and utensis should be steristical in doward displacement stem sterilisers or high-vacuum sterilisers with automatic control, and that ballers or tank form of autochers for the sterilision of water and share about the replaced by instantiate Doward-displacement stem should be replaced by instantiate Doward-displacement stemases are best employed in a ward preparation recome, alborationes, and pharmaces. New steriliser of dressings and packaged equipment should be of an automatically controlled high vacuum type

Standards Two British Standards for hospital sterilising equipment law been published (B S 3219 1960 and B S 3220 1960). They deal with stuomatically controlled high scacum dressings sterilisers downward displacement instrument and utensi atenlisers, and sterilisers for bottled fluids, all operatory on saturated steram.

A British Standard (B S 3213 1960) has been assued for hospital pressuresterilisers for watee and another British Standard (B S 3231 1960) specified requirements for pressure ateam sterilisers of small size and independent steam supply, used for the rapid aterilisation of unwrapped instruments and utensils

Central Sterile Supply Departments The Ministry of Health and the Department of Health for Scotland have approved the principle of central sterile supply departments, and the farst to be set up under the National Health Service is at Musgrave Park Hospital, Belfart 1 or a

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detailed account see *Drut med J* nj1960, 772 The establishment of central sterile supply departments which overcome the need for having expensive items of equipment auch as high vacuum steam sterilisers dispersed throughout a number of hospitals provides advantages noronly of economy but also of greater mechanisation and efficiency and adequate supervision by trauned personnel 11 is generally accepted that central sterile supply departments will deal with all sterile articles except bedpars bowls theatre marments and atterile pharmaceuticals further information see *Lancet* st(1900 661 u)(1960 333 and i)1961, 152 *Brut med J* u)(1960 793 and *J* cline Path 1961 14 69

For an account of the scope funct on and organisation of the central sterile supply department in the Portsmouth Group Hospitals see Darmsdy et al Hotp tal 1960 56 824 See size Hopkins Publ Pharm 9761 18 78 on the plann ng and organisation of a central ster le supply department

For s d scussion of the role of the pharmacist as the co-ordinator in the establ shment of central sterile supply departments see Pharm J 11/1960 316

Tests for Sterility

Sampling (Vo) II 23rd Edn p 924) In testing liquids suspensions and solids for sterility the USP directs that 10 or more units from each steriliser load should be taken and 20 or more units from each batch of other products The units must be selected at regular intervals under specified conductors when dealing with asseptically followed products

Methods (Vol 11 22rd Ldn p 924) The use of membrane filters has an application in the technique of sterility testing. The method consists of filtering a known volume of sample through a suitable mem brane and culturing the membrane either on the surface of a nutrent agar plate or by immersion in a nutrent liquid medium. The membrane can be washed free from inhibitory and interfering substances and substances with a bacteriositus exton such as sirrepromyon and neomyon can be reashed. Other atomogy absorbed bacterionstates such as quaternary ammonium compounds can be inactivited on the membrane where bindinge methods can be inactivited on the membrane where binding methods and the inset of the sterility reing of oils For further information see Syles and Hooper J. Pharm. Pharm acol. 1959 11 235 T.

Recent Developments in the Sterihisation of Surgical Materials

Recent developments in the iterilisation of surgical materials including ungical dressing syninger and packaging materials with particular reference to radiation sterilisation gaseous sterilisation atenity tests and hospital organisation including central ateries upply vervices are described and discussed in a Report on a Symposium held at the School of Pharmacy University of London Appel 1961 on Recent Development in the Sterilisation of Surgical Materials (London The Pharmaceutical Press 1961)

DISINFECTANTS

Extra Pharmacopena Vol II, 23rd Edn pp 926-42

Disinfection of the Skin

Extra Pharmacopera Vol II, 23rd Edn p 934

The most recent investigations on disinfection of the skin have mainly been carried out on chlorhexidme, quaternary ammonium compounds and hexachlorophane

In an exploren month trial in a materiary hospital, Murry and Calman (Brut wed J, 1055, 81) found that the use of a hard resun containing 1 per cent of chlorhexchen reduced the uncefore of simplify occel infection In a comparison of the antiseptic activity of chlor hexadine, domphen brownde, phenocide, Detrol, cerimide, and hexadine, domphen brownde, phenocide, Detrol, cerimide, and Preudomonar arraysnose, Ecklerichia od Stophylococcu ancure, and Strephococcus progenes in 43-hour and 24 munute tests None of the antiseptics killed testimus spores in 24 munutes atthe chlutons recommend of for obstetrus On the basis of the results, chlorhexadine was selected containing 1 per cent Lonburg (PortLinear 1957, 177, 40) cerean mends pre operative skim sterihistion with a 0.5 per cent solution of chlorhexadine in 70 per cent globol

Staphylococcal cross infection was reduced in a maternity hospital by using an umbilical dusting powder containing approximately 0.33 per cent of hexachlorophane and by the nurses' use of a hand-cream containing I per cent of chlorhexidime (Gallespie et al., Lancet, n(1958, 1078))

To a comparison of several methods of hand dusifiction, Lowbury and L1by (Gbr, med J 1956), 1445) mode a count of vable bacteria energy ang through pmholes in surgical rubber gloves and deposited made the serue with scop and water and usually further reduced for less than one similar of plotting of the serue of the serue of the serue of the count with a scop and water and usually further reduced for less than one similar of plotting of the serue of the serue of the serue count with and without the addition of 0.5 per cent of chlorhendine, and by usug heacelhorphane isop or Physiclev for the scrub and for all ablutons during the week before the experiment Physicles using and 70 per cent allohol more effective with the addition of chlorhendine to and 70 per cent allohol more effective with the addition of chlorhendine the run by should with the the serue of the scrub and of chlorhendine the run by the serue that the addition of the scrub scop hand to be better for the scrub scop scope. The scrub scop hand to be better for the scrub scop scope of the scrub scop scope of the scope scope scope of the scope scope of the scope scope of the scope scope of the scope scope scope of the scope scope of the scope s

In an investigation on the distinction of the skin of operation strict Lowbury and Lilly (Bat med J, µ1996), (1039) tested a number of disufficiants for their action on transmet organisms. One per cent solves in a striction of the striction of the striction of the striction chloribexidine pluconste in 70 per cent alcohol and 0.5 per cent chloribexidine pluconste in 70 per cent alcohol were found to be equally fictive in reducing the graduated final by approximation of the striction in removing superStandards, whereas some pauents have been reported to be strengthen to and final the strengthener the following drives were less effective in reducing the resident final 70 per cent alcohol Aqueou less effective in reducing the resident final 70 per cent alcohol Aqueou DISINFECTANTS

Varse (a preparation of the sodophore undecoyluum chloride iodine which is a complex of a quaternary aminonium compound and iodine, the preparation used contained 0.2 per cent available iodine). All the disanfectants were however, equally effective in removing staphylococci from the skin except 1 per cent and 2 per cent aqueous solution of cetimide and a 0.1 per cent aqueous solution of Penotrane which were found to be iess assistancey.

Disinfection of Air

Fatra Pharmacopera Vol 11, 23rd Edn p 935

I UNIGATION In a survey of the practical aspects of formaldeh, de funigation (Non Bull Minus Hith Lab Gen. 1998 17, 270) the following method is given for the disinfection of unoccupied rooms. For every 2000 calue feet 500 mil of Formaldehyde Solution us put into cachof two two litre jars placed in buckets or on large trays. To liberate formaldehyde ges 170 g of potassium permanganate is added to each jar. The room should be well sealed and its temperature should be maintained above 18% if possible. The exposure time should never be leves han 3 hours preferably it should be more than 4 hours. It is better if fabries are removed and sterilised segrately.

 β Propulsations has been used experimentally by Featel and Lang (Soup & clear Bosendater October 1959 32 113) in the decontamination of a building at a concentration of 5 mg per litre of arr at 24° and a relative humdity of 80 per cent. Test sports of Bacallius usbufts var mger were killed after 2 hours There was no damage to paint or metal and the building was habitable safer 2 days arming

Disinfection of Blankets and Bedding

Many workers have reported streptococcal and staphylococcal con tamination of hospital blankets and recent studies of hospital infections have emphasised the desirability of disinfecting hospital mattresses and blankets Most methods evolved have been simed at the removal of gross contamination they diminish the risk of cross infection but do not produce a blanket which is completely sterile. The most satisfactory methods utilise a non ionic detergent and a quaternary ammonium compound and it is possible thereby to remove more than 99 per cent of the organisms originally present (Thomas et al Guy & Horp Rep 1959 108 446) Care must be taken to see that the quaternary ammonium compounds are not neutralised by residual soap or anionic detergents in the laundry machinery After frequent washing with quaternary am monium compounds the inhibitory effect of the blanket fibres on bacterial growth appears to increase These compounds are however ineffective against Mycobacterium tuberculosis Pseudomonas aringinosa and bacterial spores. For descriptions of methods of laundering blankets with non ionic detergents and quaternary ammonium compounds see Steingold et al J appl Bact 1954 17 159 Blowers and Wallace Lancet 1/1955 1250 Schwabacher et al Lancet 1/1958 709 and Gillespie and Robinson J clin Path 1959 12, 351

All non-sporing, organisms and some sporing organisms may be destroyed by boiling, blankets under controlled conditions. The Wool Research Laboratories of the Commonwealth Scientifics and Industrial Research Organisation (Progress Report, 1959, per An Interim Report on the Cleansing and Sterilisation of Hospital Blankets, King Edward's Hospital Fund for London, 1959 52) state that wool can be boiled safely under acid conditions the PH of maximum stability being about 3

Intestigations are being made to find a process for heavily contain mated blankers which will guarantee final sternly Although formaldhyde vapour has been widely used for this purpose, the process takes time and cannot be regarded as completely effective Capian (Lancet, 1/1939, 1083) devised a method for the regular dismicretion of wollen blankers and bedside curraina using formaldehyde vapour in visco as at semperature of 40° to 60° for 20 moutes A report of a Commutee on Formaldehyde Junifection of the Public Hieldh Laboratory Service (J Hyr, Cemb, 1938, 56, 483) states that formaldehyde desinfection is most effective of 80 to 60 per cent. The Committee and at a relative thunding cannot be recommended for the disaffection of fabres constrainted with smallox varies, anthrax spore, or tuberge baolit.

A process of dry-clearing and disinfecting blankets whereby it is claimed that blankets can be both elancid and sternlade whole thypical or chemical deterioration of the fabrics, has been described by Finch (Planm J, ur(1958, 491) Diamfection is effected by dipering a solution of formaldehyde and a quaternary ammonium compound in the dry elaning fluid used in the process. Larkine *et al.* (*J clin Fold*), 1961, *I*4 80) have described a method of disinfecting blankets with a mixture of halogenated allity and aryl phenols.

Ethylene orde may also be used to steniae beding but authontoe daagree on the concentration necessary Toers (Soop & elser Speedher April 1960, 36, 73) attacts that it requires 2 hours at a concentration of 1000 50 per cent but Thomas et al (Gwy 1 Hoap Ree, 1538, 103, 446) found in Straphic concentration of 11 Per cent by volume when protected by two layers of blacket Experiments have been made using β propiotione which, however is absent and protected by two layers of blacket Experiments have been made using β propiolatione which, however is no penetrating product materials

In an investigation of disinfertants for bedding, Foter [Oc. et]) compared a number of different methods in current use. Sports in octionfelt mattresses survived dry thest at 110° for 2 hours Foam rubber was affected by dry heat at 110° and by autoclaving at 120° but could be sternised by subjecting to formald-hybe vapour at a concentration of 376 mg per cubic foot of air for 6 hours at a temperature of 63° to 75° and 60 to 70 per cert mostare.

To prevent recontamunation of sterile blankets McGivray and Hall (Lancet, 1/1960, 1353) consider that the most economical method is to store them mecliophane bags in a flore case in a cupboard where there is no used bedding, they state that blankets so stored remsin breterio logically clean for at least 12 weeks

For further information see An Interim Report on the Cleaning and Sterilization of Hospital Blankets, King Edward's Hospital Fund for London, 1959

BLOOD TRANSFUSION

Clinical Uses. Blood transfusion may be indicated for anamia due to depletion of erythrocytes, for dimunished blood volume (oligamus) due to bleeding, or for plasma loss in crush interv or burns, it may be useful in disorders of clotting, e.g. hamophilia and hypofibrinogenamia Deficiency anæmias, e g pernicious anæmia, or anæmia due simply to lack of iron, are best treated respectively with vitamin B1, or iron For such anæmas transfusion is seldom, if at all, indicated and, moreover, is risky because the heart muscle, enfeebled by chronic anoxia, may be unable to deal with the added burden of transfusion so that circulatory failure, perhaps fatal, ensues Some anæmias especially if chronic, are ideally treated by transfusion of concentrated ted cells, particularly if the recipient does not require the donor plasma. The fluid of choice for correcting depleted blood volume due to harmorrhage is whole blood, but an excellent substitute for whole blood is human plasma. Blood substitutes, such as dextran or acacia, are best only used if blood or plasma is not available Plasma is advantageous in that in the dried state it keeps satisfactorily for several years, does not require refrigeration and, moreover, blood grouping and compatibulity tests are unnecessary In hamorrhage the need for transfusion is determined by the volume of blood lost and the severity of insury In severe hemorrhave the blood pressure is very often a reliable clinical guide to transfusion Blood losa in excess of 2 pints is likely to prove serious if uncorrected, particularly in the seriously ill and debilitated subject In burns and in crush injury much plasma may be lost into the damaged tissues so that hæmo-concentration results, hence transfusion of plasma is required However, in burns, when there has been destruction of the patient's red cells, transfusion of whole blood is also of value. The chronic hypoproteinarma of manition, as in chronic disease of the alimentary tract, should be treated by a high protein diet since transfusion is of little value. In hæmophilis the transfusion of fresh plasma is often of value as, also, fresh blood Fresh plasma for hamophiliacs may be stored frozen but not longer than 12 weeks since, after that time, its anti harmophilic plobulin deteriorates Hypofibringenzinia of serious degree may be encountered, rarely, in lung survery and in parturition. In this condition severe bleeding develops and may be controllable by transfusion of human fibrinopen (2 or 3 g). but transfusion of blood or plasma, or both, will be needed in addition to restore blood volume. Harmolytic disease of the newborn may require treatment by exchange transfusion, though some infants may be treated simply by transfusion of concentrated red cells

The value of whole blood transfasson her essentially in the transference of red cells and of plasma proteins to the receiptent Fresh blood transfusion for giving leucocytes and platelets to the patient is not effective with conventional rubber glass apparatus, since these bodies either do not survive in citrate solution or they disintegrate on contact with the waterwettable surfaces It is as yet doubtful whether plasue or allocated apparatus is effective for transfusion of leucocytes or platelets. The transfusion of plasma from patients considerent from chickenpox, measing, vubella and mumps is a valuable protective measure for persons who have never had these diseases and have recently been exposed to them, the convalescent plasma must be collected not sooner than 3 weeks, and not later than 12 weeks, after the onset of the silness

In a transfusion the donor corpuscles must be compatible with the recipient's serum and the donor plasma must not contain antibodies harmful for the recipient's ervitirocytes The golden rule should be to transfuse homologous blood, i e the donor's blood group should be the same as that of the recipient However, it may occasionally be expedient, even necessary, to transfuse group O blood to a recipient not of group O Again, Rh negative blood, because of lack of Rh+ blood, may have to he given to an Rh positive (Rh+) patient, but transfusion of Rh+ blood to Rh-negative patients, especially females, is to be avoided as harmful or potentially so The injection of Rh+ blood to Rh-negative recipients. whether by the intravenous route or otherwise, is likely to sensitise the recipient, male or female, to the Rh factor Transfusion of Rh+ blood to Rh-sensitised recipients will be incompatible and, therefore, dangerous The consequences of Rh-sensitisation for Rh-negative mothers on childbearing are likely to prove serious, or disastrous, since any Rhoffspring horn to them are likely to be affected, probably seriously, with hæmolytic disease and, in fact, will often be stillborn It is clearly important in all transfusions that recipients receive blood of the same ABO and Rh groups as themselves

HUMAN BLOOD GROUPS

Eleven genetucally modependent antegen systems in human erythrosyste are known No linkizge, ice carriage on the same chromosome, has been encountered among the known blood group systems, nor has inkage between them and the sex character been detected. In transfusion the ABO and Rheaus (Rb) systems are the most important Very rardy, in transfusion, e.g. the Daffy, Kell or Sanupiter ThanBold group systems in man at present known are the Billowing, namely ABO, Diepo Juffy, Kell, Keld, Lews, Lutheran, MNS, P. (heaus, and Suiter

THE ABO BLOOD GROUP SYSTEM

The ABO blood groups are determined by two acglutinogens A and B, the presence or absence of which on the red cells give in ste to the four groups AB, A, B, and O. Group O is recognised by absence of A and B There are two specific isoagefuturms, namely anti-A and anti-B, the former being specific for agglutinogen A and the latter for agglutinogen B. the agglutinoms are present in the arrun. These agglutinogens are inherited according to Miendel's laws. The agglutinogen of montobodies' are novadays expressed in terms of the agglutinogen (or usintobodies') which they react Thus, in the ABO system, anti-A reacts only with the E antigent, etc. The terms alpha (e) for anti-L reacts only with the Z and Table 1 shows the composition of the ABO system.

Since the scram of group AB periods contains neither and A nor and B isogenituming such periods of Universal recognition from B isogenituming such periods from periods of any ABC group Group AB red cells may only be given to group AB recipients and not to recipients of any other group Erythrosystes of group O, since they lack the agglutinogens A and H, are not agglutinated by the usagglutinany antu-A and anto B, so may be safely transformed to periods of any group Accordingly, group O is the so-called 'universial' donor', but this term

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Blood Group	Aggint nogen content of etythrocytes	Itosggiutin n content of scrum		
AB B A O	A and B B A O (1 e facks A & B)	None anti A santi B anti A & anti B		

TABLE 1

The percentage distribution of the groups varies in different races as shown in Table 2

ч	۰.	я	L1	£.	2	

		Blood Group			
People	0	A	В	AB	
Gyps es (Europe)	31	27	35	7	
Maoris (Polynesians)	40	56	3	1	
English	47	42	8	3	
S American Indians	100	0	0	0	

is an unsatisfactory one for it applies only to the red cells About 20 per cent of group O donors have potent anu A or anti B isoagglutinins and may in addition have hamolysins for A or B cells These hamolysins are apt to appear in the serie of persons who have had prophylactic inoculations of Tetanus Toxo d or TAB Vaccine since such may contain A or B substance of animal origin Horse serum naturally conta ns an A antigen which may therefore be present in aera made by immunising horses against tetanus or diphthema Group O whole blood having potent ants A or ants B antibody may destroy red cells of recipients of groups other than O and this may prove fatal The group O donor whose serum contains potent anti A or anti B antibodies including A or B hæmolysins is designated a dangerous group O donor and such group O blood is unsafe for transfusion to patients not of group O For the reasons stated the term universal donor is best abandoned Some group A or B donors may also have potent antibodies in their scrum and their whole blood should not be transfused to group AB recipients The serum antibodies occur in the globulin fract on and in hypogammaglobulinæmia the serum may lack the expected ants A and ants B or contain only traces of them

In transfution it is important that antibodies in the donor plasma whall not be sufficiently potent to cause destruct on of the receiptents are cells e.g. as when group O blood as given to AB A or B receiptents Subject to this group A person may receive A or O blood but can only but can only donate to B or AB. The blood of A B and O donorer may be given by B receipt AB receipters but group AB lood may be transfured independently of them. Sceretor genes do not influence the ABH and gens on the red cells, it is the ABD genes which determine the corresponding statgents in cells, body flunks, as which determine the corregroup B non-sceretor father may have a group consort mother latter inheriting the sceretor gene, or trait, from Biccritor duald, the Apparently absence of Sc. or presence of st. et., interfaced with the for mation of water soluble blood group substance so that it does not appear in the salava

Group A secretors secrete A substance, group B secreton secreto B substance, while group AB persons secrete both A and B substance. If group substance is absent from an individual a saliva, it is absent abs from other secretons e g generits puce seminal fluid, and term Group O secretors have no O anigen substance of their saliva but they secrete a soluble anigen substance called H

Anti-H and Anti-O Antisera which detect H substance are called anti-H, but they are not anti O since they do not react specifically with the O antigen Anti H, therefore, does not distinguish between A1A, and A,O Almost all human red cells contain H substance and, to some extent, react with anti H Group O and Aa cells react better with anti H than do group B or A1 cells All secretors, prespective of ABO group. have H substance in their sala a sufficient to neutralise anti H No A. B or H substance is found in salu a of non secretors though they have it on their red cells Group A secretors secrete both A and H substance in the saliva, while group O secretors secrete only H substance, etc Sera formerly termed anti A1 are now classified as anti O or anti H Distinction between anti H and anti O depends on peutralisation of anti II by H substance in secretor saliva whereas anti O is not so neutralised Human sera containing anti-O which react with most group O bloods are occasionally found A specific anti O serum would react with all bloods containing the O antigen (i.e. OO, AO, and BO), but such antibody occurs very farely, if at all

Detection of ABH Substances The ABH substances in body funds or secretions are detected by mibition texts. For example, if group A salava (boiled or sutoclased to destroy enzymes) from a secretor is maxed with an equal volume of group B or 0 secretion, the and A aggle treated arguments of the secretion of the secretion of the secretion treated arguments of the secretion and secretion of the secretion suitable dilutions of salava and secretion is secretion.

Ant: H occurs in the serum of some snamals, eg cati, dogs, and efs and, also, an aliane extracts of certain seeds, eg Ulce awayeau, rardy ant H occurs in the serum of group AgB persons. Ulce awayeau, ant is satisfactory for detection of H substance H substance M subtor by an inhibition technique similar to that used for detecting A of U substances. Secretors of any ABC proup will have H substance in subsalva and red cells. Subva of all secretors will neutralize, or inhibit, nut H agglutums, so that it no longer aggluturates O cells.

Antigence Properties of Human Salva, Group A or B substance in solure of sectors of groups A, B and AB as antigence Thus, increase of salva (baseled to destroy enzymes) of group A secretor persons not group O or B subjects enhances the titte of the receptent a sant A sgAu tunn Simularly, injection of salva of group B secretors into group A or D persons cryokes a new nitre of the sant B sgRuturn. In this way hash titre sera suitable for ABO grouping tests have been produced but better results accrue from the use of commercial blood group substances

Commercial Blood Group Substances Polysaccharides closely resembling human blood group substances occur widely in the animal kingdom. Commercial group specific substances occili wherey at the animal stomach and AB substance is prepared from horse stomach, such pury fied group substance is antigenic since its injection into recipients of the appropriate ABO group evokes marked unmune response Thus A sub stance miected into group B or O recipients evokes not only a marked rise in titre of the anti A applutinin but also increases its availity Group specific substances may be used to neutral se anti A or anti B avolu tining eg in the plasma of group O whole blood for transfusion to recipients of groups AB A or B but such practice is not recommended This is because the group specific substances added to blood may not all be absorbed by the isoagglutining and therefore a recipient of such treated blood if of appropriate ABO group may respond by making immune ant A or anti B antibodies Accordingly it is inadvisable to give such treated blood to females who may bear children since immune anti A or anti B made by a mother may attack the red cells of her fortus if they have the relevant A or B antigen and cause hæmolytic disease

Agglutinogen A or B Substance in Plasma or Serum Most group AB A or B persons have A or B acclutinocen substance in their serum (or plasma) and this substance will neutral se or partially inhibit the corresponding aggluturin For example of group B serum is mixed with an equal volume of group A serum the B substance in the group B serum will either totally or partially inhibit the anti B agglutinin of the group A serum and vice versa In a transfusion in which the recip ent is group AB A or B and the donor s plasma contains incompatible agglutinins ant A or anti B any applutingen substance A or B present in the recipient a plasma will to some extent neutralise the introduced incom patible agglution thus affording some protection to the recipients erythrocytes However the degree of protection afforded necessarily depends on the amount or strength of blood group substance present in the recipient's plasma and also on the potency of the introduced incompatible agglutining. The latter if potent and if introduced in sufficient amount are not lilely to be suffic ently inhibited by applutin oven substances in the recipient's plasma to obviate harm to the recip tent s red cells

The agglutinogen substance A or B m human plasma or serum is ant gent: Thus group B plasma (or serum) free of red cells and Setz. filtered will when transfused to a group A or O rec p ent cause a me in the titte of the anti B agglutin n of the receivent Such murune response may obtain even though tests *m* size do not reveal A or B agglutinogen substance in the doorop plasma Apparently human plasma to serum is a sceretor There appears to be hilded difference in the amount of group substance from a the sceretor as a compared with hon a sceretors

Modifying Genes. Very rarely seem ng anomalies in the inheritance of the ABO groups are encountered these being explicible by what are termed modifying genes such genes interfere with the expression of other genes. The X-x genes influence the placing of B or H entigen on cells and a solva, but it is not known whether the A group is a influenced Appendix in the homozygous state **xx** the H entigen is not placed on the red cells. The influence of these modelying genes may be revealed by familistudies, as in the following example A mating of a group O, Ax husband with a group B (BO or BB) X-x wide could result in offspring who in herited the B gene but did not have the B singen on the red cells such folfpring would, therefore, be apparently group O and, presumably, homozygous xX Such en 'O femele, match with a mile of group A, Xet type, would, by beating offspring of group A, B, X said OO, Xet reveal that the finas the B gene. Of genet insters is the mile yrige of blood are not apglicurated by early offspring of group A, the Xet and Oo, Xet reveal that the finas the B gene. Of great insters is the mile type of blood are not apglicurated by early offspring of group A, the Xet and Oo, Xet reveal that the state the B gene. Of great insters is the mile the great match and the gene for the order of the cells of the the great match and the state of the gene of the cells of the state B add match and the state the field (and state).

Expression of the A gene is influenced by a gene termed 1 and its ellele y The rare gene y, in the homozygous combination yy, inhibits development of the A antigen in red cells and, to a lesser extent, in aliva Apparently the gene Y does not affect the H and H antigens

Blood Group Chimzras Boyine twins, in utere, may have unscular anastomoses and consequently, primordial red cells of one twin may pass to, and take root, i e become grafted in the fissues of its twin Hamopotetie tissue so grafted survives and produces red cells throughout life and, therefore, if the twins are of different blood groups, the twin having the graft will evidently, when grouped, have red cells of two different groups Moreover the two blood groups may be incompatible This paradox is explicable on the grounds that embryonic cells are apparently unable to produce antibody Hence, if foreign antigen is introduced into an embryo before a critical point is attained in its development, the embryo tolerates it and continues to do so in adult life, this is termed acquired immunological tolerance An individual with such a mixture of blood groups is termed a 'chimæra' and a few examples have been dis covered in human twins Those reported thus fer have ell been mistures of groups O and A The person harbouring the graft transmits in the gametes only the genes of his or her, inherited blood group, but cannot transmit the genes for the antigens of the acquired or grafted group

Blood Group Antagens in Disease Rurly sectously ill subjects efficient with choice disease e.g. cancer may sequer temporarily a Bleanteen with and in this crysters as that these then teast with suit B area though ner you han hi B in this cryster in a some disease e.g. but more and group A patients have been encountered the agglutinishipy of whose red eith yeant A serum became much reduced These phonomers are transment and are apparently in some way due to the patients disease, but they are of m portance sance they may reduct increase in blood groups of the explicition states and the serum security much records more barries and anotance sance they may reduct increase in blood groups of the explicition states and the security of the security

Immune Anti-A and Anti-B Anti A and anti B egglutinni may have immune properties and these may result from (a) injection of incom pathle red cells, (b) transfusion of group A, B or AB planma into recipient lacking the A or B anogeni, (c) passage of red cells or antigues of the fictus into the maternal arculations, e g inflamt group A end mother group O, (d) injection of group specific substarted biod group substances, and (c) injection of group specific substarted biod group substances, and (c) injection of Tetanus Toxod or T.A.B Vascine contanum (A or B substances of a numid origin Some persons may, however, have end A or anti-B with immune properties for which the stimulus is not known Immune antihody due to unsection of macompatible blood is usually transient, lasting only a few weeks, but that following injection of commercial group specific subtances is more enduring Immune anti-A or anti-B may pass from mother to fortus and cause ABO harmolytic disease

Immune properties which may be shown by anti-A and anti-B antibodies are as follows Immune antibody reacts better at 37° than at room temperature. The agglutinin active in saline may be of high titre, i.e. 512 or more Most immune sera have hæmolysins in extro for group A or B, but not O, cells Immune sera may have higher titre in protein media than in saline Anti-A or anti-B applutining active in saline may be neutralised by group specific substance (as in saliva or commercial group substance) and such neutralised immime serum may not agglutinate cells in saline but may still do so in serum Further, neutralised immune serum may sensitise group A or B cells so that they react positively in the indirect anti-human-globulin test of Coombs (see p 111) Immune serum may show prozone on titration, i.e. such scrum used undiluted may cause little or no agglutination but, when diluted, causes distinct agelutination. Further, undiluted serum which zones may block or coat cells so that they will not be agglutinable by serum containing agglutining active in saline, but such blocked cells will, after washing, be agglutinated by anti-human-globulin serum

Hemolysias, immune anthodies may be dangerous in transfusion because of hemolysms for cells containing A or B antigen and, therefore, the secture of all group O, A, and B donors should be insteld (or hemolysma A suitable test 3: 0 or mis in a tube equal volumes of serum and washed red-cell auspension (5 per cent attraction in saline), the tests should netical group A, B, and O cells, the laster as controls The cells should, preferably, be fresh and never okler than 24 hours Serum should not be okler than 24 hours, since, thereafter, complement may be provided by adding a little fresh group O ascurum which lasts hemolysms and has low titre agglutions. The mature should be incubated at 37° for an hour Hemolysm is mitated by hemolysis, partial or complete, of the group A or B cells, or both, but there must be no hemolysis of the O cells

Tests for High Titre Agglutinins. In order to provide serum for ABO blood grouping the serum of all group A, B, and O donors should be tested for high titre agglutinms. For large numbers of sera a screening test is necessary, but if only a few sera are to be tested the screening test may be omitted and they may be intrated directly. In the screening test the serum is diluted 1 in 20 in normal saline and three drops of diluted serum are then mixed in a tube with an equal volume of a 3 per cent redcell suspension in saline After 2 hours the test is read by sharply flicking the tube with a finger and, if agglutination is visible macrosconically, the serum probably has strong agglutining and, therefore, is titrated in saline A serum is suitable for grouping if the titre, as read macroscopically, is not less than 1/32 with A1 cells, 1/4 with A, cells, and 1/16 with B cells Blood containing high titre anti-A or anti-B agglutinins in saline may, in transfusion, destroy the recipient's red cells if incompatible with them Therefore, apart from finding high titre sera suitable for blood grouping, it is also necessary to know which group A. B. or O bloods contain high titre agglutining in saline since such bloods should be used only for strictly homologous transfusion

Harmagglutinins from Plants Sahue extracts of creatin needs agglutants howans red cells. These criterias are known as learns or physical measures a one give apecific reactions. The agglutantage gub-haines in the true learns and Dirticel of Inca crossed shitted agglutantese group. A cells but not Ber O cells Moreover its reactions are attorager with A₂ than A₂ cells while group B or O cells do not show the agglutants of A cells. The Lina bases Plasmella in norm and Phatesha handus yield the best anti. A Extracts of Distribution Some reds contains and B is given by a signal and a statistical in norm and B is a signal and the signal and the signal and the signal are not applied by the agglutanta of A cells. The A₂ sectors Some reds contains and B is given by a signal and by the signal are not applied by the agglutanta of A₂ sectors Some reds contains and B is given by a signal and a signal and a signal A₂ the signal and a signal and a signal and a signal and a signal by the signal and a signal boats and Laburn m alguna Ann N occurs in shine existes of sectors of size of the and Laburn m alguna Ann N occurs in shine existes of sectors of the size of

Polyzgęlutinabity Very zacły samples of red cells are encouncered whith ar agsitunated by normal serve with whach they should be compatible Polaggittinable cells are not aggiutanated by the subjects own stram This poly usually been fixed in discussion and the sub-served information of the same beervet in apparently normal persons. In order to diagnose polyzgiutanabi (prict) attraff bodi samples matte bured same infortion for its may been aggiutanabit by any aerum (Thomsen phenoperion-are bolon). Also serv arguitanabit by any serum (Thomsen phenoperion-are bolon). Also serv of red cells.

DETERMINATION OF ABO BLOOD GROUPS

Blood Samples Whole clotted blood is used Blood samples for grouping should be fresh and, preferably not older thin 24 hours At least 2 ml of blood is necessary. For blood collection dry sterile symmet should be used Symnes and needles which have bern kept in print, or other antiseptics should not be used, since mere traces of these subsances may cause harmolysis. For newborn misfins cort blood sufficer Alternatively blood can be collected fram a baby by subbing the helf "form the side (but avoiding the blood may be collected into it rate solution Aged harmolysed, or infected blood samples are unsutable for grouping tests Infected red cells may become anglutinable by any serum (Chommen phenomenon of panaghutantion)

Glassware Clean glassware well washed in tap water and dried is essential In the cleaning process the tubes should have been boiled. If a detergent is uted it is essential to ensure that no trace of it remains in the tubes since ertain detergents may cause haemolysis or may inhabit agolutnation.

Selection of Blood Grouping Sera. In selecting aera for use in blood grouping the following points are important

1 Specificity The serum must be apecific e g group B (anti A) aerum must react only with group A cells

2 Titre The serum must have high titre (i e potent) agglutining

3 Availty Grouping sera must be and a rescription of while where don't having the corresponding arguingment. The star available results are also refavation of the star and the star and

serum react with the A₃ and A₃ agglutinogen in A₁ A_2 , A_3 B and A_3 B bloods Likewas group O (anti A plus anti B) serum must react with A₃ as well as with A₁ blood An anti A serum which fails to react with the A₃ agglutinogen is unsuitable for blood prouping purposes

4 Undesirable Properties Grouping seam must not cause rouleaux, must not contain suits acquidants as the seame of the s

5 Fat and Turbidity Fatty or turbid sers are unsuitable However some fatty sers may often be cleared by filtranon through a No 1 Whatman filter paper Turbidity due to fibrin particles may be cleared by centrifuging

6 Bacterial Contamination Bacteria may espelly multiply in serum, particularly its room temperature Profuse growth of bacteria may cause earning to have a milky appearance and may render it malodorous Infected serum may couse false positis e excitons and may acquirements all blood (Thomsen phenomenon of panagelutantion). Alternatively infected sera may lose titre and may then cause false negative creations

Storage and Handlung of Sera Sera selected for grouping should be inscrived by heating for 20 minutes at 53 m as water-bath Grouping serum it best Seriz filtered into sterile containers (small bottles filted with metil screw ceps are best) to ensure attrifty. Filtration cruues little or no loss in titre Serum should be dispersed in amounts not exceeding 2 ml per container and the container bundle to so scaled is g with Yucar bits the scale water bath and the series of the series of the series of the series bathbolied as to its contents (c g crup D (ann A) serum) identification number, dist prepared conditions of torage etc.

Containmanton of grouping termin must be avoided and therefore a dry sterile specie should be used for taking serian from its container. Logical activimust be stored forzen since at little slove freezing point carain betteria may multiply in serian. Seruin percents will for long periods it stored at = 20° Frozen seruin must after thawing be well nuxed otherwise a dense layer of earum protein remains at the bottom of the constance. Serien when in use should only be out of cold storage for a brief interval. Durch grouping seruin form. Dirch store kerny well for a yesr or more. This solution of an antiseptie g phenol to seruin as a preservative is not recommended ance this doe not enuire good preservation.

Method of Tests, Blood grouping tests should be done only by trained workers, or under their supervision, since errors are very apit to be made by inexpert workers. Musickes may result in mecompatible transfluoions which may prove fatal Grouping era used are anti-A (i c group B) serum; The group of an unknown blood is determined by muzing its red cells with anti-A and with anti B serum. Group O red cells lack the A and B segultiongens, so will not be agglutinated by rither of the sera Group. A cells are agglutinated by anti A serum, but not by anti-B serum Group B cells are agglutinated by anti A serum, but not by anti-B serum Group B cells are agglutinated by anti B serum but not by anti-A serum. Babel san egglutinated by anti B serum but not by

It is advantageous to group red cells not only with group A and group B sera but, also, with group O serum Group B and O sera must be teated to ensure that they treat such the weakly reacting agglutinogen A₃ (see p 105) It is a useful precaution to test the cells of every blood with group O serum (see pp 10-5) particularly hern many bloods are grouped same way as with the test with group B serum just described. The erroneous classification as group O of bloods containing weakly reacting A anglutinogen will be revealed if the cells of all bloods grouped as O are further similarly tested with potent anti A of group B and with group O serum and the tests read as just described.

Anti A₁ Some 2 per cent of group A persons and 25 per cent of A₃D have anti A₁ and their serum Anti A₁ results with the A₁ agglutanegen but not with A₂ A₃ or A₃ agglutanegen. The uppression on a grouping serum 3 per centered official by the presence may be a proper serum 1 have an A₂ holod having anti A₃ in its serum may seem fronchte sets on its serum to be group 0 since its serum reasts with the A₃ and B control cells used in the text. The difficulty will be cleared up by testing the serum with A₃ and A₄ cells for the latter will not be agglut nated Marcover if the tests for weak A agglutanegen as described are applied the correct interpretation of the group will availably be sured

Errors in Grouping. False positive readings may be due to contaminat on of cells or serum or to wrong interpretation of avia or celd againmatom rouleux or simple signerstand of each state again tints on False negative readings may be due to (a) use of serw shuch have lost ability to signitunate (e g from ageing or infection) (b) failure to detect a weak signitunate (e g from ageing or infection) (b) failure to detect aveak signitunate (e g from ageing or infection) (b) failure availity or which show prozone. Errors will generally be revealed by the used not reach. In Theoret frequent source of error, however, is tiered and the state of the maximum of the state and in the recording of results. A mix up in these or addition of serum to the wrong tube may result in an error e g s blood of group A being read as group B.

THE RHESUS FACTOR

Rh Antigens and Antibodies The Rhesus or Rh factor is very important in transfus on The Rh group is determined by a complex of antigens present on the red cells Rh groups are independent of the ABO groups and I ke them are inherited according to Mendel s laws and are not sex linked Racial distribution of the Rh groups 1 ke the ABO groups varies The Fisher Race classification originally postulated six Rh antigens namely C D E and their alternat ves c d and e As originally postulated each individual has one pair of homologous chromosomes which carry the Rh genes that is one Rh bearing chromosome is derived from each parent There are three locs for the Rh genes on these chromosomes and these loci are respectively occupied by the genes D or d C or c and E or e That is each locus bears only one or other but never both of the allelomorphs of each par of genes The genes on the chromotomes determine the Rh antigens on the erythrocytes and the antigens can be identified by the corresponding Rh antibody. It seems the Rh genes I e closely together on the chromosome and in the order DCE or their respective alleles Linkage is so close that the Rh gene complex is in herited as a unit one from each parent Thus an individual may derive DCe from one parent and dce from the other and the formula for such a blood would be DCe/dce

The most important Rh antigen is D Blood having D is termed D positive Rh positive or Rh+ Blood which lacks D is termed D nex ative or more loosely Rh negative Some 83 per cent of white Furopeans to give D+blood to D-negative recipients, it is almost invariably safe to give D-negative blood is D+ recipients Nevertheless, the transfusion of D-negative blood, particularly Rh-negative (cdc/cdc), to D+ recipients should be avoided, since D negative blood is scarce (only 17 per cent of perions are D negative)

Any Rh-armatized person, whether semutised by transfusion or pregnance, who subsequently recents a blood containing the semisima Rh-antigen will respond by destroying about the recent of the reacting the transfused blood. If strong Rh antibodicing present in the reception is blood when the Rh incompatible blood is transformer and more to prove the strong the response of the thermal strong present has not since been any Rh-anomabile transfusion or pregnancy, only a mild fishele reaction may occur but the transfused Rh incompatible red cells will be aborrally reprojed pelmonted, in such cases the donor corpuscies may survive only a few days, or a week or two, instead of the normal pened of about 120 days.

When an unsensitised Rh negative person is given Rh+ blood no apparent reaction occurs and the donor corpuscies may survive normally, that is they survive in the recipient's circulation for some 120 days However, in about 50 per cent of such transfusions the recipient becomes Rh sensitised and the effect of this may be to shorten appreciably the normal aurvival in one of the transfused red cells, e g to about 60 days. or less In such cases there is no apparent clinical reaction and the abnormally rapid elimination of the donor cells is termed 'inapparent hemo-lysis' Rh antibodies will not, as a rule, be detectable in the remient's serum so long as the sensitising Rh+ cells are surviving in the recipient'a circulation It is to be noted that a single transfusion, or injection, of D+ blood to a D negative recipient may suffice to sensitise the recipient. Once sensitisation has occurred to D any further transfusions of D+ blood will be incompatible The same applies to any other antigen and its corresponding antibody From what has been stated it will be clear that for safety in transfusion, and to avoid sensitiving females of childbearing or pre childbearing age, the golden rule must be that Rh negative, or Dnegative, persons must only be transfused with blood of exactly the same group as themselves, they must not be given D+ blood In transfusions of Rh+ (D+) blood to Rh+ (D+) recipients it is rare for sensitisation to any other Rh antigen to occur, though why this is so is not understood The same applies in pregnancies of D+ mothers with D+ fortuses It is very seldom necessary, therefore, when giving D+ blood to a D+ recipient, to take account of the Rh antigens other than D In about 14 per cent of matings in Britain the husband is D+ and the wife Dnegative and in roughly one in every ten pregnancies the mother will be Rh negative and the fortus Rh positive About one in twenty Rhnegative women bearing children by Rh + men will be Rh sensitised, but only about one in thirty Rh-negative women will, regardless of the Rh type of the husband, ever bear children affected with hemolytic disease of the newborn In 93 per cent of cases of Rh sensitisation through pregnancy the mother is sensitised to D, usually by itself, though someumes with other Rh antigens such as C or E In the remaining 7 per cent of cases the mother is D+ and sensitised to antigens such as E, c, C, Cw, or e (the last three very rarely)

In a mating of a D negative wife with a D+ hinsband not all the infants will be D+. If the husband is D/D all offspring will be D+, Le D[d If the husband is of genotype D[d then half the offspring will be D+(D[d) and half will be D negrative (d4) If the antibody in the mother is serum is anti D then only the D+ infants will have harmoly to discase This discase a trace in first bables, unless the mother has been previously sensitised by transfusion to an antigen present on her infant is red cells Once a mother has been Rh sensitised whether through transfusion or pregnancy, all subsequent infants earrying the precasit blood group impersively have harmolytic discusses and the Rh france. The transfusion or consulted net is the transfusion to the Rh france, responsible for many stillburths and that have born severely affected infants may only be sived by transfusion.

Rh Grouping Clotted blood as for ABO grouping, should be pro vided so that the cells may be Rh typed and the serum investigated for irregular antihodies. In routine Rh grouping only anti D serum is used Control tests are necessary with O Rh+ cells and with Rh negative cells of A. B. and O groups to ensure the specificity of the serum Control tests in saline of the red cells of every blood being tested should also be included Since Rh grouping is complementary to the routine of ABO grouping the tests for auto (or cold) agglutining rouleaux and irregular antibodies in the serum of the blood being grouped will have been done Small precipitin tubes of 5 or 6 mm internal diameter and 50 mm in length are suitable for Rh typing Since Rh sera are scarce it is necessary to use small volumes in Rh typing tests. It is usual to use a unit volume of one drop, or 0 02 m! One volume of anti D serum (which is active in saline) is mixed in a tube with one volume of a 3 per cent strength of washed red-cell suspension in normal saline and the cell serum mixture is then incubated at 37" for one hour or preferably, two hours in a strong positive reaction the agglutinated cells settle out in a characteristic way at the bottom of the tube and when examined with a hand lens show a typical wrinkled or crenated appearance the stronger the serum the more typical the appearance (a like finding is seen in agglutination caused by anti A and anti B antibodies) When a negative reaction is examined with the hand iens the sediment of cells is seen to be circular and smooth and, if the tube is held at an angle the cells may slide downwards-the so-called cascade effect. The red-cell sedment of bloods giving suparent negative reactions, as read with the hand lens, should be examined under the microscope for agglutination. Some workers do not read with the hand lens but routinely examine all tests by microscopy. Hand lens reading does however facilitate work when large numbers of bloods are tested It is emphasised here that reading of tests whether by hand lens or by microscony requires considerable experience

Many and D sera contain only moomplete anti D, to do not react with cells in salme but agglutnate them in albuma. Most RhOD grouping is done with moomplete anti D. The procedure with albumin is simple A supersion of vashed red cells of 6 per cent strength in normal salme is prepared and 1 volume of this is mixed in a tube with 2 volumes of 30 per cent bowne albuman. One volume of thus albumin supersion of cells is then mixed in another tube with one-volume of anti D (incomplete) serum. One volume of the is a also tested in another tube examis one volume of its own serum, or AB serum, to exclude sub-agglutnation. The tests are neutbard for one hour, preferably two hours, at 37°, and are then read in the way described The albumin test is very reliable and will as a rule detect most D+ bloods However any test guings an egsure reading in tests with ant D anthody (behter active in salme or in albumin) should be regression of the same test of the same gever greater reactions with and D by tampiter D negative Bloods giver greater reactions with and D by tampiter D negative should be further tested with benefat and D with a same of the globil met of C on bs (see p 111) to essure that weak D or D antigen u detected

In ordinary hospital practice at is usually only necessary to use any D serum A blood which is negative with anti D may be regarded as Rh negative if transfusion is urgently needed Otherwise every blood class fied as D negative with anti D serum ought to be further tested if need he in a transfusion laboratory with other potent anti D sera and also with anti C and anti E sera Potent anti D sera should be used for testing the cells by the anti human globulin technique to detect the D* variant of the D antigen Failure to detect D* may result in bloods being erroneously classified as D negative A blood containing D* should be re garded as D+ or Rh+ since D* lake D may cvoke anti D in D negative individuals It should however be noted that some persons who lack D in their blood but have lo v grade D" antigen may make anti D either through receiving D+ blood or through pregnancy with a D+ fortus Such persons particularly if females who need transfusion should be guen Rh negative blood However persons having high grade D with-out D may receive D+ blood as such blood does not cause them to make anti D If both D and D" are present in a blood it is not possible serolonically to distinguish the latter No technique has so far been devised which will separate and D" from ant D

A doner blood thould only be certified as Rh negatize y it reacts negatively with and D D^{*} C and B seria and D^{*} has been thesen to be about by the induced and human globulas test A blood found negative with any D serium and not tested with and C and and E seria, should simply be classified as D negative A blood reacting with anti D serium in dissuified as Rh pontute Rh + or samply D - Rhatingerouther than and D new under the series of the se

Production, Selection and Preparation of Rh Sera Anti Rh sera may be produced by unmunising rabbits with Rhesus monkey red cells but such sera being technically difficult to prepare are not nowadays used The usual source of Rh sera is persons sens used either through transfus on or through pregnancy Only seldom are persons encountered nowadays who are sensitised by transfusion since transfus one of D+ blood to D negative persons are generally avoided Almost all Rh sera are nowadays obtained from mothers sensitised in prignancy In order to ensure regular supplies of anti Rh sera all mothers slould be tested for Rh sensitisation in every pregnancy regardless of the et ler they are Rh+ or Rh negative Rh investigations are best do se about il e 3"nd week of preg nancy Criteria of suitability of Rh sera for use in grouping are much as for ABO grouping sera. Most Rh sera have only incomplete ant body and this will only agglutinate red cells suspended in bosine album n or cells treated with an enzyme such as firm or papana Some Rh sera react with cells suspended e ther in saline or albumin An Rh serum may be absorbed of anti A or anti B agglutunins and if done this should be stated on the

label affixed to the container of the serum Dispensing of sera is done in the same way as for ABO sera and the precautions as to handling and storage are also the same

The Anti Human Globulin Test. Some antibodies including Rh may sensitise crythrocytes but not agglutinate them either in saline or in albumin Such sensitisation may be recognised by the anti human glob ulin test of Coombs and Race Agglutination proceeds in two stages (a) cells acquire antibody and (b) cells then agglutinate Red cells sensi tised or coated with non agglutinating antibody may be made to agglutinate by treatment with anti human globulin serum. Anti human globulin serum or more shortly A H G serum may be made by injecting rabbits or goats with human serum Animal A H G serum must be freed of species agglutining by absorption Such animal A.H G serum will if mixed with sensitised red cells cause them to agglutinate, whether they were sensitised in vivo or in vitro By definition the direct AHG test is that applied to cells which have been sensitised in tito (see below) In the indirect A H G test the cells are first mixed in puro with serum containing sensitising antibody of non agglutinating type left for one hour and then treated with AHG serum In the direct and indirect AHG tests it is essential that before the cells are mixed with AHG serum they be well washed by centrifuging three tunes or more in large volumes of salme Washing must remove all free serum since mere traces of this may inhibit the AHG serum Textbooks on Rh serology should be consulted for technical details of AHG tests and for the methods of preparing and standardising A H G sera

Storage of AHG is era should be at -20° otherwise they lose time AHG sera should be dispensed in small amounts e g 1 ml pet con tuner The disuon at which an AHG serum is most effective is determined by experiment AHG serum should only be diluted im mediately before use The diluted reagent will usually be effective for about 12 hours if kept in cold storage diluted serum should always be discrided after a dary's work

In tests with AHG sera control tests are essential sensitised and unsensitised cells being included. The AHG test whether direct or inducet is extremely sensitive and a positive reaction is certain evidence of sensitisation of the red cells.

Sensitisation in two of Red Cells Red cells may acquire antibody in two the classic examples bring hemolytic disease of the newborn and acquired hemolytic antenna (acholiure jaundice). In the former the infant is red cells are sensitived by Rk or other antibody transmitted from the trother while in the latter the patient makes auto-antibodies which sensitive has, or her own red cells. Exploreorytes assuited in rice result in the direct All G test A direct positive Coombs test on the red cells of newborn maints is diagnosmic of harmolytic disease. It is therefore sound procedure to submit all cord bloods to this test if Rk incompatible red cells are transfused to an Rk sensitied unividual and a sample of the patients blood be taken soon after such transfusion the red cells of the post transfusions sample of the patients blood may gave be partial since only the incompatible transfused red cells but not those of the necessari, will be agglutuated.

BLOOD GROUP SYSTEMS OTHER THAN ABO AND Rh

A number of blood group systems undependent of each other and of the ABO and Rh systems are now known. Some of littee may, tery occasionally, cause hermolytic disease use responsible for incompatibility in transfusion As in the case of the ABC systems are, mostly, according to Mende's laws. These best underhood set the Duffy kell, Kidd, Lutheran, P. and MNS systems are, mostly, not yet fully cluediated and there are sunder blood group systems are, essarily, the determination of the antigen of any blood group system new essarily, the determination of the antigen of any blood group system new force of an antigen may only be mitered. For example, if only antipresence of an antigen may only be mitered. For example, if only antikell (ant K) serum is a vaniable then any blood not agglutunated by such serum may be inferred to be homozygous for k which is the allele of K

Blood Grouping with Enzymes In recent years arcrasing use has been made of caraynes in blood grouping and tests for momplete anabodine Effectue craymet are tryping paping and feas. The tests with cnrymes are very sensitive, but fails pointive rections may be troublecome Enzyme grouping; tests may detest migens in red cells or antiboder in serious which are not detectible by the convectuent. Letts in saline or albumm or by the ALP of tests For details of carayne techniques may index ourse come sing should be consulted its possible that carayns technogues may in day course come sing senioral use.

COMPATIBILITY TESTS

Routine Methods The purpose of a compatibility or cross matching test is to show that the donor blood is compatible with that of the patient. Since errors in compatibility tests may result in incompatible blood transfusion, which may prove fatal, it is mandatory that these tests be done only by trained experienced workers Sensitive techniques are essential, otherwise incompatibility due to weak or to incomplete antibody may not be detected Accordingly tube techniques should be used since tests on a tile or on glass slides are not so reliable Tests on a tile or slides, if used, should only be screening tests. No completely reliable cross matching technique has yet been devised but nevertheless, tech moues as already described for blood grouping will, in the vast majority of cases suffice In difficult cases, e g when the patient's serum has such antibodies as anti e, or mixtures of antibodies, the finding of compatible blood may be a research problem for specialist workers A compatibility test consists in (a) matching the donor corpuscles against the patient a serum and (b) matching the donor plasma against the recipients corpuscles

The issuential to demonstrate that there is no ABO mompatibility of the doars cells since this is the most dangerous Also it must be shown that there is no uncompatibility in systems other than the ABO groups, e.g. Rh. Duffy, Kell, etc. The following three tests generally utilize (1) One volume of the patient serum is tested with one volume of the mean patient is the following three tests generally utilize of the state of the patient serum is tested at 37° and at 200 mean patient is the state of the state of the state of the mean patient of the state of the state of the state of the mean patient of the state of the state of the state of the mean patient of the state of the state of the state of the mean patient of the state state of the state of th smeared on a slide and examined by microscopy. The albumin test will nearly always exclude Rh incompatibility but may not reveal incompatability due to Duffy antibody, etc. (3) The recipient's serum is tested by the indirect anti-human-globulin test against the donor red cells. The serum-cell mixture should be incubated at 37° for one hour before washing the cells for the A H G test. This test will exclude incompatibility due to most incomplete antibodies, but may fail with the rarer Rh and some Lewis antibodies The combination of these three tests will, nearly always, suffice For this reason some workers do not bother to match the donor plasma against the recipient's cells, but this test is simple and is a useful additional safety measure. One volume of donor plasma is mixed in a tube with one volume of a washed 3 per cent suspension of recipient's red cells in saline and left at room temperature for one or two hours Then, without shaking the tube, the cell sediment is smeared on a slide and examined by microscopy This test may reveal a mistake in ABO grouping For example, a patient having weakly reacting A agelu tinogen may, in consequence, have been wrongly grouped as O and, if the donor is group O, the patient's cells may be agglutinated by the anti-A of the donor Again, if group B donor blood is selected for an A.B psuent erroneously grouped as B, the error may be revealed when the donor plasms is tested with the patient's cells since these may be agglutinated by the anti A in the donor plasma. When group O blood is selected for transfusion to recipients of groups other than O, and when group A or B blood is selected for AB recipients, the donor plasma will, of course, applutinate the recipient's cells. In such cases a test for A or B hæmolysins (as already described) should be done since, if hæmolysins be present in the donor plasma, they may, in transfusion, destroy the recipient's cells with, perhaps, fatal effect However, such tests for hæmolysins are unnecessary if the donor blood has been certified free of hæmolysins in recent years some workers have used enzyme tests in cross-matching but such tests may be over sensitive and so may be troublesome to work with It will be clear from what has been stated that accurate grouping of both donor and patient is essential so that, so far as is practicable, strict homologous transfusion may be practised, i e the patient receives blood of the same group as that to which he, or she, belongs

Urgent Transfusions Cases may occur in which prompt transfusion is essential to save life. Where possible the patient should be resuscitated with plasma and, if this is not available, a blood substitute such as dextran or acacia should be given and, in the interim, grouping and compatibility tests should be done usually this is feasible. However, when plasma or plasma substitute does not suffice, and the need for transfusion is immediate, blood may have to be transfused unmatched It is best then to give group O blood, even if the recipient's ABO group is known In such cases, if the recipient's Rh(D) group is known then blood of the same Rh group should be given If the Rh group of the patient is unknown then males who have not previously been transfused may be given Rh+ blood, but females of any age are best given Rhnegative blood If the patient is a male of unknown group who has already had a transfusion the possibility may arise that he is D-negative and has received D+ blood, with consequent sensitisation to D In such cases it may be desirable in the interests of safety to give Rh-negative blood, The practicability of these measures necessarily depends upon availability

of Rh negative blood whech is scarce Thus in every 100 persons in the British ides only about 7 will be propued D kin negative 6 group A hhnegative while those who are group B and AB (the scarce of a scarce total only 2.1 is justifiable when Rh negative blood in no available as use D negative blood of subgroups Cde or cdE as Rh negative blood buy otherwise, blood of structly boundloous groups abould be used. When the ree pients of an ABO group other than O it is justifiable to give an add blood of the same ABO group as that of the patient only it group O blood is not sualable and the patient hiely to due in our intenditely given Bood is not sualable and the patient hiely to due it out immediately given Bood is not sualable and the patient hiely to be state base to up an repect of all blood ummatched. If mcompatibility is detected there may still be tume to up the transfusion and appropriate transfusion can at once be instituted.

It is incumbent on chinema to allow laboratory workers is much time as possible for compatibility tests. The greater the haite the greater the lability to error. The mamum time which should be allowed for urgent compatibility tests is 20 menutes. For rapid group ng and rous matching in urgent cases the following techniques may be used but, whatever emergency technique is used it is well to supplement these tests later by the sensitive techniques may be described.

Assuming that grouped donor blood is available the following tests may be used in an emergency (1) The patient's blood is ABO grouped on cells and on serum by the centrifuge method described in the section on ABO grouping (2) The patient is Rh(D) grouped and tests for com patibility between the patient's serum and donor cells are done by the rapid tube or slide method described below. Usually but not always the patient will be correctly D typed by these rapid methods which also will usually reveal incompatibility caused by anti D in the patients serum However, incompatibility due to the rarer Rh antibodies and antibodies such as anti Duffy may not be revealed by these methods. Rapid D typing is done in tubes by the centrifuge method. The patient s cells are suspended in albumin and mixed in a tube with strong incom plete anti D serum as in routine Rh typing The cell serum mixture a incubated at 37° (preferably in a water bath) for 10 minutes longer if possible and then centrifuged at 1000 rpm for a minute Ti e packed cell sediment is then gently withdrawn smeared in a drop of saline which has been placed on a glass slide and then examined by m croscopy Alternatively the patient a D group can be determined by the sandwich method of Stratton One volume each of strong undiluted anti D serum (active in albumm) 30 per cent boyane albumin and of washed packed cells of the patient, are mixed on a glass slide. Another slide is then lowered gently on to the musture which then spreads by capillary action underneath the slide A control test in like manner is put up using group AB serum instead of anti D serum Control tests with Rh negative and Rh positive cells must also be included (whatever the techniques used) The sandwich tests are incubated at 37° for 10 minutes and then read under the microscope gentle pressure on the upper sl de may cause movement of the cells which may assist in microscopy

"The patient s. MO and D groups having been accriticated homologous blood for transitions in the neckered and a sample of its red cells well washed in large volumes of salme an preparation for the cross natching tests. The door cells are then tested with the recopents is securin to exclude ABO and Rh incompatibility using the rapid methods described ABO compatibility is steted for by musing the patient a security with donor cells in saline and then centrifuging after 5 minutes, as described for rapid ABO grouping Using donor cells suspended in albumin, Rh incompatibility is tested for by the centrifuge method described or by Stratton's standardshift and the same standard and the same standard fail to reveal the rarer forms of Rh mocompatibility, and that due to antibodies such as Duffy or S, it is necessary to cross match also by the inducer A.H G test This is done by the technique already described, except that the matter of receptent is serving and done the same incubated at 37° for only 15 minutes, but the longer the better. When a weak incomplete antibody is present in the platent's serving a shortened incubation period may result in a false negative reading whereas, if incubation period may result and false negative reading whereas, if incubation period may result are more liable to error than techinques in which adequate ture is allowed.

Fallacies in Compatibility Tests. In compatibility tests done soon after incompatible transfusion an important fallacy may arise. When much incompatible blood is given, e g group A blood to a group B recipient, the donor corpuscies may absorb all the corresponding antibody in the recipient's serum Consequently, if the donor blood, or blood of like group, be cross matched against the serum of the patient collected during the first few days after the incompatible transfusion, the donor cells may appear to be compatible when, in fact, they are not. However, about the fourth day onwards after the incompatible transfusion antibody reappears in the patient's serum, replacing or supplementing the antibody which was absorbed. Moreover, the antibody will m a few days be more potent than originally, because of the immunising effect of the incompatible blood. If, at this stage, the recipient a serum be matched against the cella of the donor of the incompatible blood they will be sensitised or agglutinated and, moreover, if ABO incompatibility be involved, hamolysis of the incompatible red cells may occur. The immunising effect of the incompatible blood may cause the titre of the corresponding antibody in the recipient s serum to rise, the maximum titre being attained about the 21st day or so after the mishap. If the recipient's serum be titrated at this time the immune antibody may exhibit prozone and, in ABO incompatibility, may cause marked hamolysis Such sera are, therefore, best inactivated before use and some recommend that because of prozone the cross-matching with cells in saline and in albumin be done by titration When little incompatible blood is transfused the corresponding antibody in the recipient's serum will be little, if at all, absorbed

In respect of every proposed transitions a fresh sample (at least 3 ml clotted blood) of the receptors is blood must be substitted 11 us a follaroous and dangerous practice to submit similarly a sample of compatibility tests is a series of ad then use the series of blue mample for compatibility tests in a series of (unminue) anabedies may appear in the receivent's blood after the first, or subsequent, blood transfusion 11 is, however, very useful when a series of quent sample of the patient's series anabedies caused by transfusion may not be detectable for a binef while after transfusion it is best to take samples of the patient a blood for use morphability tests shortly contar it may be failactous to assume that mompatibility compatibility occurs it may be failactous to assume that mompatibility compatible years. sensitive tests. In fact the transfused blood may have been incompatible and either the tests failed to reveal the incompatibility or it was latent and so not detectable

Conservation of Blood Sampless it should be noticine procedure to conserve for J days in refrigeration at the blood samples which were used in the compathibity tests—(a) samples of red cells and serum (of which is the solution (b) a pre transition sample of the pattern is blood (relit and the solution). The samples may prove invaluable an electadamn the cause of a transfusion reaction, particularly in incompatibility be smoked.

Hzmolytic Anzemias. The cross matching of blood for infants affect ed with hæmolytie disease, and for patients with acquired hæmolytic anamia presents special difficulties. In hamolytic disease the red cells of the factus are damaged by antibodies Rh or other, denied from is mother Therefore, red cells for transfusion to the infant must not be destroyed by the harmful antibody which the infant has derived from its mother Also, the donor corpuscles should if possible, be compatible in the ABO system with the infant a blood The first step is the identification of the harmful antibody of the mother and commonly this will be anti D Having identified the antibody, blood of suitable group is tested for compatibility with the mother's antibody Difficulties, how ever may arise here eg if the infant is of group A or B and its model is group O Obviously group A or B red cells cannot be matched argust group O serum and, in such cases it may be best to give the infant group O blood which is compatible with the Rh, or other, antibody of the mother However, if time permits the anti A or anti Barglutinins may be absorbed from the mother a serum by using group A or B cells of appropriate Rh group This is practicable providing the harmful antibodies in a sensitised mother a serum are identified with certainty, as can usually be done, so ensuring that cells may be selected for absorbing anti A or anti B from the mother's serum and which will not, in addition, remove the harmful antibodies A difficulty, however, is that sundry mothers may be sensitized to antigens of more than one system e.g a mother may have in her scrub Rh anabodies with in addition, antibodies such as Kell or Duffy Such additional antibodies may escape detection unless a comprehensive panel of red-cell antigens is used when testing the mother a serum for harmful antibodies These additional antibodies may be removed by the A or B cells used for absorbing anti A or anti B from the mother's serum and, in that case donor crythrocytes which are in fact, incompatible with these additional antibodies will seem compatible when matched against the absorbed serum of the mother The anti A or anti B in the mother serum may he neutralised by commercial group specific substances of by saliss but this procedure does not always effect complete inhibition of these antibodies If doubt arises about the desirability of transfusing the baby with red cells having the antigens A or B, because of inability to cross match versus the mother s serum, then it is best to transfuse group O cells In cross matching blood for babies with hiemolytic disease the three techniques described, particularly the indirect A II G test, should he used and at least one hour, preferably two hours should be allowed for the tests In cases of hæmolytic disease due to ABO incompatibil it it is best to give the infant washed group O red cells since anti A or anti B in the donor plasma may be harmitul to the recipient a sella

The cross matching of blood for transfusion to patients having ac quired harmolytic anarma may be difficult. In this disease potent sight timps, of 'cold or 'warm type, may be present in the patient s scrum and a direct A H G test on the patient's cells, as in hamolytic disease of the newborn, may give a positive reaction Moreover, such patients may make antibodies, e g anti-e, active against their own red-cell antigens. It will first be necessary to establish the ABO and Rh(D) group (probably Rh genotype as well) of the patient but, before this can be done, the patient's red cells must be washed completely free of auto-agglutinins. Washing the ervibrocytes many times in warm normal saline at 37° may be necessary to effect this The auto agglution may be removed from the serum by repeated absorption of a sample of the patient's serum with the patient's own red cells, the latter being freed of the antibody by washing in warm saline (at 37°) after each absorption and being then used for further absorptions. Often the bulk of auto-agglutining from the serum will be absorbed onto the cells if a sample of clotted blood (at least 10 ml) is left in refrigeration at 4° to 6° for 12 hours or so All compatibility tests must be done at 37° and readings made on warm slides. At least an hour, or longer, must be allowed for the incubation of donor cells with recipient's serum. If the patient's serum has a specific antibody, e.g. anti-e, which is active against the patient's own cells, the blood to be transfused must lack this antigen in some cases of acquired hæmolytic anæmia the cross-matching of blood may be a research problem for specialist workers in transfusion

Complement-binding Antibodies. Transfused red cells may be destroyed by complement-binding antibodies present in the recipient's serum and such destruction may, or may not, be symptomless It may be difficult to find blood compatible for patients whose sera contain complement-binding antibodies Complement-binding antibodies are rare but, since they can destroy transfused red cells, they should be tested for (a) when a patient's serum contains irregular agglutining such as anti-P or anti-Lewis, (b) when the expected rise in red cell count does not follow transfusion of donor red cells which are apparently compatible when tested in saline, in albumin, and by the indirect A H G test, with the patient's serum Sera containing antibodies which, in vitro, agglutinate erythrocytes at temperatures up to 30°, but not above, do not apparently cause destruction of these red cells when transfused However. certain antibodies, e.g. of P and Lewis systems, which agglutinate cells in saline at 30°, or higher, may bind complement Again, some antibodies. e g anti-Kidd, bind complement at 37°, though usually failing to agglutinate the cells in saline These complement-binding antibodies are important because in tive they may rapidly destroy all, or a fair proportion, of the red cells with which they react in vitro Therefore, it is important to ascertain in the compatibility tests whether these antihodies sensitise red cells at 37°, so that they react positively in the indirect A H G test. However, only if sera containing complement-binding antibodies are fresh, or if fresh serum be added in the test to provide complement, usil they sensitise cells so that they give a positive reaction in the indirect A II G test Some P and Lewis antibodies seem to be non-gamma globulins since the cells they have sensitized react with the anti-non-gamma-globulin component of the A H G. serum

Compatibility Tests with Isotopes When a serum agglutnater red cells at 30°, and it proves difficult to find blood which as compatible at this temperature, the problem of whether or not the donor red cells may safely he transfused may be decided by labelling a very small volume (1 m1) of the cells with a radiactive isotope, then injecting the labelled red cells into the recipient a credition and following these many-set as sees the radioscore scores, chromoum ("C.O.) is suitable for his highling the scription to the transition of reveal whether or not shoormal destination of the transitised targed red citl occurs at sets and therefore, whether or not they may safely be transitist Viels may be incompetibility e.g. as with some Lews antibodies, the targeto chromated from the petents a consultant of them at chromated from the petents a consultant

BLOOD COLLECTION

Selection of Donors It is essential that only persons of good physique and enjoying normal health be accepted as donors Persons under the age of 18 years and over 65 years are not acceptable. In the case of volunteers under 21 years of age, the consent of parents (or the husband of a young woman) is legally required Those who have had, or who have certain diseases are unacceptable for blood donation. A medical exam ination, including X ray, is unnecessary Simple inspection and careful questioning serve to eliminate almost all those who are not suitable it is usual to ask volunteers to read through a questionnaire which lists diseases or conditions which exclude from blood donation Conditions which permanently exclude are allergie disorders, cardiovascular disease (including pathological high blood pressure), cerebral disease (including stroke. epilepsy. and mental breakdown), blood disease, cancer, diabeted, undulant fever, thyroid gland disease, rheumatie fever, tuberculosis renal disease, and jaundice due to infective (virus) hepatitis In the cast of those who have had malaria there is always risk of transmitting the malarial parasite However, the blood of those who have had malaria may be used for preparation of blood derivatives which are Seriz filtered or dried Temporary exclusion may be necessary in those who have such conditions as boils or carbuncles, influenza, tonsillitis, laryngitte and certain infectious illnesses, they should not donate blood until fully recovered Those recently inoculated with living or attenuated unu (amailnox and vellow fever) or bacteria (BCG) are temporarily not suitable as donors Some persons may have to be rejected because of occupational hazards, e.g. those handling toxic chemicals Women should not donate blood during pregnancy, nor until a year has elapsed since confinement Blood may be donated during menstruation Those who have, or have had, venereal disease should be rejected A volunteer, having been screened on the questionnaire and passed as suitable, must then he tested for anæmia by a simple screening test. In this test the specific gravity of the volunteer's blood is tested with copper sulphate solution, this being routine procedure in Britain The solution used for women is coloured blue (for recognition) and has a specific gravity of 1 053, which corresponds to a hremoglobin of 85 per cent That used for men is coloured green and has a specific gravity of 1 055, the equivalent of a hæmoglobin of 90 per cent Female volunteers must not lisve a hæmoglobin under 85 per cent and males not under 90 per cent The hamoglobin standard is 100 per cent, which is equivalent to 14 8 g per 100 ml Those failed on the screening test should have their ha moglobin estimated by a more exact method High blood pressure, when it occurs is usually found in middle life onwards and, therefore it is sound procedure in the case of those aged 40 years, or more, to estimate the blood pressure lest there be unsuspected high blood pressure. Every time a donor is blod a test for syphilis must be done and only blood which gives a negative result may be transfused

Technique of Blood Collection The donor must be recumbent. The arm is constructed at the biceps muscle with a sphygmomanometer cuff at a pressure of 60 to 90 mm Hg The skm is first cleaned with ether to remove skin grease and is then swabbed with surgical spirit after which about 3 drops of 2 per cent procame solution is injected at the site for venepuncture The needle is then inserted into the yein Blood taken should not exceed 440 ml and the collection of this amount will take about 8 minutes 'The blood should flow by gravity and suction should not be used since it may be dangerous (see below) 'I he rate of flow may be accelerated by the donor clenching and unclenching the fist. The skin must not be cut or even nicked with a knife Cannulation of a donor s vein is not permissible. Continuous shaking of the bottle during blood collection is essential otherwise large clots may form which might cause a breakdown in transfusion. In Great Britain donors are not remunerated and should therefore receive every consideration A donor should I e recumbent for 20 minutes after donat on when light refreshment should be given Donors should not be bled soon after a heavy meal,

Blood Collection Apparatus Rubber glass or plastic equipment may be used The standard needle used in Britan is 19(10) (a mintera tenths of a millimetre) Larger needles are unnecessary and moreover unjustifiable being prone to cause bleeding and bruining after phleb otomy it is fundamental that are scapes freely from the container as the blood flow sincher. This precision is visio therwise mounting are pressure in the container consequent on the inflow of blood may eventually drive a rint one donor's vien and cause are emobilism with perings fatal effect Blood withdrawal by suction e g with a suction pump or by using vienumed blood from the donor may cause alarming symptoms and collapse and symptoms and

THE LIFE OF THE TRANSFUSED ERYTHROCYTE

The life of the normal eivthrocyte is 120 days as estimated by differ ential agglutination. In this method differences of blood groups between recipient and donor are explorted. For example after transfusion of group Q blood to a group B recipient the recipient's blood is a mixture of O and B red cells If after transfusion a suitable suspension in saline of the recipient's crythrocytes be maxed with potent anti B serum all the group B cells will be agglut nated but the group O cells will of course not be agglutinated and so can be counted Differences in other systems e g Rh MN etc can also be explorted Using the differential agglu tination method it has been found that normal red cells survive after transfusion in a normal rec pient a circulation for about 120 days Ac cordingly 120 days is taken as the normal life of the erythrocyte In certain diseases e g acquired hæmolytic anæmia the life of normal transfused red cells may be so shortened that they survive as little as a day or two in the recipient's circulation. In hamolytic d sease due to Rh(D) incompatibility if the infant be transfused D+ cells soon after birth the transfused D+ cells will survive only a brief interval perhaps only a very few days in the infant s circulation. The life span of transfused red cells can also be studied by injecting a very small volume of isotope (e.g. chromum 51) tagged red cells and then following their survival 11 1.11.0

BLOOD PRESERVATION

Dextroze is vital for the preservation of red cells in stored blood. The red cells of citrated blood stored without dextrose for prevent locer than a week are rapidly elumanted from the recoperat's circulation Gr rated blood preserved with dextrose will, when storage is as long as 21 days, give a survival in zeros lattle inferore to that of fresh blood. For each the recipent's circulation Accordingly, dextrose preserved blood should not be used after 21 days of atorage An anticozgulant, e g isolum circus or herowing and a blood prezervative. Dextrose will preserve red cells mutture of blood and anticed. This for an anticozgulant, e g isolum circus in the origination of the store of the store will preserve red cells mutture of blood and anticed. This for a stored blood is hould be about 0 6 per cent Stored blood may be sample circus of dextrose in the dextrose-cutated. Blood stored with added dextrose is termed 'dextrose preserved' blood.

The only satisfactory criterion of an anticoagulant or blood preservation solution is that normal blood kept in it will, when transfused, survice normally in the normal recipient's circulation. Tests such as frequity of erythrocytes in saline, spontaneous hæmolysis, and mechanical fragiliti of the erythrocytes, are of little value as criteria of the suitability of solutions for blood preservation A solution causing hamolysis in rate would obviously be of no use The solution in which blood is collected must not harm the red cells Blood stored in a good preservative solution survives well when transfused Dextrose is essential for the metabolism of erythrocytes Various sugars have been tried for red-cell preservation and dextrose has proved to be the best Blood taken into sodium citrate solution without destrose can safely be stored for 7 days and its survival in vivo is shout as good as that of fresh blood but, sfier 7 days' storage, the red cells soon deteriorate and become unsafe for transfusion. Destroit must be added if blood is to be stored longer than 7 days A 3 per cent solution of trisodium citrate is a suitable anticoagulant and 100 ml of this is mixed with 420 ml of blood A satisfactory preservative solution is a mixture of 100 ml of a 3 per cent tritodium citrate solution with 20 ml of a 15 per cent dextrose solution, to this mixture is added 420 ml of blood The disady antage of this mixture is that the citrate and dextrose components must be autoclayed separately, otherwise caramelisation is marked It is more convenient to use acid citrate-dextrose solution, since the components may be autoclaved together with negligible caramelisation Therefore the standard preservative solution used in Britain is 100 ml of 2.5 per cent disodium catrate solution mixed with 20 ml of 15 per cent dextrose solution to this mixture is added 420 ml of blood The acid citrate dextrose solution gives optimum pH for preservation of red cells The red cells of blood stored 3 weeks in dextrose cutrate solution survive well when transfused

Preparation of Solutions Pyrogen free dutiled water must be used Solutions are a terihed at 20 B pressure (255) for 30 musters in both here cape screwed tightly down, some worker, howere, only here the cape tightly down, the first scheduler of the sterilastions cause single caramchisation. It is well to open the steriliser slightly immediately after the sterilising run is completed, otherwise the prolonged beams causes more marked caramelisation. The various precations which ensure that the sterilister operates efficiently during sterilisation rund

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be observed and hereon textbooks on sterilasion should be consulted A useful routine after iterilisation is to incubate the solutions at 37° for one or two days and then keep them at room temperature for a further week. After thus time the solutions are inspected and they should be crystal clear and have no deposat. Bottles must be tested for leakage and any which leak must be rejected. Bottles must be tested for leakage and any which leak must be rejected. Bottles must be blelled to show their contents and date of sterilisation. The expiry date is usually set at one year from the date of sterilisation.

Blood for Use in Heart Lung Machines The most suitable antroagulant for blood used in heart lung mechanes in EDTA (ethylendiarune tetra accus cad) It has a mixed capacity for bind ng Ca ions end is a more potent antroagulant than sodium etrice E DTA, with destross preserves red cells as well as catrace-derivors solution. The EDTA muture is sterilized in mut be converted by adding the paran and maxing A small from to 10 per cension of calcium chloride is then added to restore the level of ionued calcium to normal.

Frozen Blood, Recent work has shown that glycerol protects explored from damage at temperatures and blow of Providing glycerol treased red cells are stored at very low temperature $se = -80^\circ$ to -120° they will preserve well for 2 years or more and well have good survival or two when translated ceripi treased red cells will occur when they are transfured. Preserve in of red cells an glycero at low red preserves is very advantageous rince at ensure that samples of blood of rare groups can be stored and so be we lable as required for insteague nod undertailed integuing a rule backet will be as required for insteague nod undertailed integuing a rule backet will be an explored to make the store of the store of the store of the store of the store beam transformed and the store of the store of the store of the store beam transformed.

STORAGE AND HANDLING OF BLOOD

Storage Blood should not be out of refragention longer than 30 muntes exceeds then an use The storage temperature at 34" to 6" and the deviation should not exceed 2" Freezing must not occur since hemolysis results If blood which has been frozen is thweed and transfused a server hemolytic reaction perhaps fatal may ensue Therefore blood must never be put into a incering cabinet Blood which has been left unduly long out of cold storage sam are poorly as ereo Refragentors used for be fitted with automatic temperature recording devices. A blood bank refragentor must not be used for torage of food or pathological samples as these may introduce containmainting baseters

Blood Bank Records Reg sters should be kept an wh ch are recorded the fate of every bottle of blood identry of recept ent results of grouping and compatibility tests etc. A plasma reguter also should be kept The information recorded in these registers may be of assistance in the investigation of transfus on react ons and also in the tracing of donors whose blood is subjected to have transmitted the virus of serum hepatitys

Handling of Blood Inmediately after collection bottles of blood should be scaled ao that it can be seen at a glance whether the bottle has been opened or sampled Blood is self sterilising. Providing scrupulous aseptic technique and sterilised equipment is used contain nation rarely occurs. Addition of antibustics or chemicals (suphonamides etc.) to blocd to prevent growth of organisms is unnecessary Blood should never be left long out of refrequencies as normalized and organisms present may multiply Very dangerous contaminants are those halo grow at low temperature, hence the need for acpletion technique and for ensuring that all equipment used in blood collection is sterile. The transfusion of infected blood, particularly if there is heavy growth of any blood glycolysis is expedited from and may have a lefthal effect. In warm blood glycolysis is expedited on and may have a lefthal effect. In warm blood glycolysis is expedited value of the transfusion of the safe to transfusion of determorts. Blood left out of references on chausted, the red cells soon determorts. Blood left out of references and preliminary to transfusion is unnecessary. Overheating of blood damages it end cells. Transfusion of blood which has been overheated will easil transported by trans or car, etc., should be not a low temperature.

Appearance of Stored Blood Catrated blood settles out in a day or so into an upper layer of plasma and a lower layer of red cells, the volume of plasma being ultimately rather more than that of the red cells The leucocytes aggregate in a thin greyish white, or buffy, layer on top of the red cell layer Plasma may be clear and is usually of a pale straw or sellowish colour The plasma of a donor bled soon after a fatty meal may be quite onsque and have a milky or pale creamy yellow sppearance from the presence of fine particles of fats (lipoids) The fats later form a cream like whitish layer on the top of the plasma Such fatty blood is safe for transfusion. Sometimes fibrin clots, small or large, may be seen at the top of the plasma layer and these clots will, in transfusion, be trapped by the filter of the giving set Sometimes the clot consists of \$ frothy web or pellicle which may adhere to the bottle. If blood is well shaken during collection clots do not usually form Before blood is used it should be inspected for staining with hamoglobin (hamolysis) if staming of the plasma with hæmoglobin is seen either throughout the plasma or just above the red-cell layer, the blood is unfit for transfusion However, blood may be unfit for use, eg time expired, yet there may be no discernible hamolysis as above described

Changes in Stored Blood. Red cells require glucose for their metablom Gibodists is very alow in childe blood but is rapid in warm fold Leuropites and platelets rapidly detenorate in stored blood Poissum diffuses from the red cells tuto the plasma and, as a rule, this causes no harm in transfusion. In stored criticed blood small clois may sometimes be found amongs the red cells as, also some fibra alone this may occur even if the blood was well shaken during collecuon. The plasma proteins, agaitunnas, and red-cell an tigges, undergo no significant change in blood collected into a suitable preservative and then in metarization for 3 or 4 weeks in stored blood the components of the plasma such as protriormban and anti-harmophilic globulin ison decline.

Period of Storage Blood collected into citrate solution without dextrose is unsafe for transfusion after 7 days storage. Dextrose-cutated blood may be used when stored up to 21 days, though some workers us such blood when storage has been as long as 28 days. For each day of storage about 1 per cent of the erythrogytes become effete and in trans fusion the effect red cells are rapidly eliminated from the patents ceru laton. Therefore, when 21 day old dextrose preserved blood is transfused, some 20 per cent of the donor corpuseles will be rapidly eliminated from the recipients curculation. Obviously it is not desirable to give several bottles of such aged blood in a single transfusion. The ideal is to transfuse blood as fresh as possible but blood fresh from the donor a vent is very seldom necessary.

Labelling of Blood, Every bothe of blood must be labelled to show the ABO and Rh blood groups the antroagulant or preservative solution used the dates of collection and expiry and the conditions of storage and handing (eg freezing must not occur and blood must not be left out of refrigeration). For cross matched blood the following must appear on the cross matchink bloed fixed to ube bothe summare followed by forenames of the patient age or year of birth of patient home address of patient (but some workers rely only on the patients is hospital number) blood group ABO and Rh or other of patient and date of compatibility test if the bothe of blood was sampled to provide blood for the compatibility test an instruction must appear on the label that the blood be used within 24 hours of the sampling The signature of the perion who cross matched the blood should appear on the label All this information must also be recorded in the blood bank register

Sampling of Bottles of Biood To avoid sampling the contents of a bottle of blood toom workers affix to the patent hottle of blood a small pilot bottle which contains 2 or 3 ml of the donor blood This pilot sample is used in the compatibility test There is say that is not in general use in Great Britain because samples in pilot bottles are occasionally tech nacally difficult to work with There is also the risk flat the pilot bottle pilot to work with There is also the risk flat the pilot bottle. Flot bottles must be sampled with strent a-pilot the pilot bottles advantage of taking a sampled with strent a-pilot the share that dont advantage of taking a sample of blood from the parent bottle is that after the sample has been centrifuged the supernation tean be examined for harmolysis The objection to sampling the parent bottle is that after there is very little risk of containnation. It is next the to use blood width 24 hours of its having been sampled.

Transfusion Record Cards On the transfusion record card should be recorded the reason for transfusion the pattern 5 dieses, and the date of transfusion II possible a half houtly record of the pulse rate and temperature during transfusion and in shock due to harmorihage the blood pressure, should be recorded at intervals as need be. When symptoms such as chill or rigor headache yomiting akan rakes etc., occur notes hereon should be recorded on the record card or in the patient s case notes.

TRANSFUSION PRACTICE

Transfusion Methods. On the clinical practice of transfusion clinical textbooks should be consulted Whenever possible, blood should be introduced into a yean with a meedle Camulation should be avoided However, if an organism is cultured from the remnant of the donors blood and the same organism is cultured from the recipient's blood, this is good presumptive evidence that the organism cused the reaction. When a patient dies following a reaction, blood for culture should be taken from the heart and from the spleen

After every transfusion the remnant of the donor blood should be kept in refrigeration for 48 hours, lest at be required for unestigations

When a transfusion reaction occurs a sample (10 or 20 ml) of the patient s blood should he taken into a dry sterile container about f or 5 hours after transfusion ceased If possible, a similar sample of the patient s blood should be taken at the time of occurrence of the reaction These blood samples are very necessary since examination of them may reveal that hæmolysis in transfusion has occurred Thus, in a hæmolytic reaction, the liberation of harmoglobin into the circulation may result in hæmoglobinæmia followed by methæmalbuminæmia and hyperbilirubmæmia Hæmoglobinuna, and later isundice, may follow. If a nationt is seen to be mildly jaundiced within a few days of transfusion a hamolytic reaction should be suspected, even if no other symptoms have occurred If the wrong bottle of blood has been used and incompatible blood in consequence given, this may be revealed simply by inspecting the blood bottle label Again, if incompatible blood has caused a reaction, the m compatibility may be revealed by repeating grouping tests on patient and donor However, the investigation of a transfusion reaction may be a matter for specialist workers particularly when the rarer forms of incompatibility are involved, e g that due to Kell or Duffy antibodies etc. When a reaction complicates transfusion it is wise not to give further transfusions until the cause of the reaction has been established Failure to observe this precaution may result in more incompatible blood being given to a patient who has already received incompatible blood When the cause of a febrile reaction cannot be established the methods of pre paration and sterilisation of transfusion apparatus and fluids used should be looked into, since pyrogens may be the cause

Treatment of Transfusson Reactions. Allerge reactions are utilly treated by highering adrenables or diphenhydramic hydroxilonde of tripelernnimme hydroxilonde. These drugs should not be given before, or during, transfusson, since they may mask a reaction the taute of which is moompatibility. Circulatory overloading may require treatment with bransfusson reaction occurs no ill effects may ensure and no treatment may be necessary. However, in some cases, severe renal damage with con sequent renal failure may follow harmolysis in transfusion or the transfusion of hemolysed blood.

Treatment of Renal Failure due to Harmolysis. The method of treatment of randi failure due to harmolysis and transfusion an availing montant since memorysis treatment may have fail result. When a harmoportant since memorysis treatment may have fail result. When a harmoset. Transfusion of compatible solid blood should be puer to conournet anamula in a since since a good carried concentrated role of a since the since since a second since the since since the control anamula in a since when group harmolysis in transfusion has on curred the knowlys may be to severely damaged that objury, or anamoccurs, that is, the exercise of water and electrolyses by the kndneys in a nublited or even suppressed in treatment, therefore, carrely attember of the since sinc to fluid intake and electrolyte balance is essential Excessive fluid and electrolyte intake may have serious even fatal consequences simply because the patient may be unable to excrete the excess Fluid intake must equal that normally lost per dietn in urine and faces and also the in sensible loss in sweat and by exhalation Loss from other sources e.g. fistula etc. must also be counterbalanced Immediate treatment consists in giving the patient within a period of one or two hours a litre of water by mouth if it can be taken by this route. If not an infusion of 1000 ml of 5 or 10 per cent dextrose in distilled water is given intravenously over 2 or 3 hours Nothing further should be given for 24 hours. If in that time diuresis occurs a volume of the glucose solution equal to that of the urine voided should be given The fluid intake and output must be charted Should the urine output fail it must be assumed that renal damage has occurred and the patient treated accordingly. The intake of salt and water must be very carefully controlled The patient is given a daily intake of 600 ml of a 50 per cent solution of dextrose in water either by mouth (or gastric drip) or intravenously (via a polythene catheter in the vena cava superior or inferior) If urine is voided there will of course be loss of water and electrolytes and this loss must be made good. This is ach seved by giving the patient a volume of special fluid equivalent to the volume of urine voided per dietn. The composition of the special fluid referred to is sodium chloride 3 2 g (55 mEq) and sodium lactate 2 2 g (20 mEq) in water to I litre Loss by vomiting too must be corrected the vomitus being collected filtered through lint and fed back by stomach tube This regime will tide the patient over the phase of oliguna or anuma which may last a few days or 1 to 2 weeks before diuresis occurs Mea sures such as splanchnic block renal decapsulation or catheterising the kidneys are worthless and may be dangerous. In cases in which wrong treatment has been given resulting in excessive intake of electrolytes or when treatment has been long delayed so that the patient's serum potas sium has attained a dangerously high level it may be necessary to use peri toneal dialysis or the artificial kidney but such treatment is rarely neces sary When a good diuresis has been established i e an output of one litre per diem and such diuresis has been maintained for 2 days the regime mentioned above may be discontinued Instead the patient should be allowed 500 to 750 ml of water per diem to balance insens ble loss in sweat and from the lungs Also a low protein and high carbohydrate diet should be given 'I he urinary loss too must be made good and this is done by giving fluid of the following composition sodium chloride 3 2 g (55 mEq) sodium lactate 2 2 g (20 mEq), and potassium chloride 10g (13mEq) in water to I have This treatment is persevered with for as many days after the onset of duaresis as there were days of oliguna before its onset. It is most necessary that the treatment of such cases be undertaken by experts With correct treatment almost all patients who have had hamplysis in transfusion should recover

Citrate Toxicity Human plasma normally contains a mnute amount of citrate Citrate if injected in large amount may have toxic or even fail effects. Toxic effects sppear to be due to the citrate and are not due simply to absence of calcium. In infinite rapid exchange transitions using citrated blood may cause symptoms of citrate toxicity (muscle tremors and changes in the electrocardiograph). The terrement is an jection of a 10 per cent solution of calcium fulconter. In massne transtousion of citrated blood may adults the possibility of toxics effects being caused by the citrate must be considered 1 its generally and to gue an adult 2 litres of citrated blood in half as hour. However, if this amount is to be exceeded, the pattent should be myested with 10 ml of a 10 per cent solution of calcium glucomate for each litre of blood raminised Tome effects of citrate are more likely to occur in those having impaired liver function than it those having mormal liter function.

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FORMULÆ OF PROPRIETARY MEDICINES

This section replaces that of the Extra Pharmacopecia Volume 11 23rd Edition, pages 1408-33

'Counter' Proprietaries

Propnetary medicanes are usually regarded as being ethical or not according to the methods of presentation and distribution. Those which are intended to be supplied against presentations written by medical practitioners for individual patients are generally termed ethical rem edus these are described in Volume I of the Extra Pharmacopica and in the list of New Drugs and Proprietary Medicines on pages 185 to 277 of this Stopplement

The following bat of propretaries is a selection of those medicines which are advertised to the public an the press or by window and counter duplay and which are usually supplied over the counter on demand A clear disturbine, anoth however be drawn between proprietary medicanes of this class and those unally described in Volume I of the also be presented just as some of the proprietary medicines described in Volume I of the Extra Pharmacopeus and m the last on pages 185 to 277 of this Supplement may also be supplied to the public on demand

The ungredicits given in the formulas are in the terms employed by the manufacturers or as described on the labels on the containers. In the form in which they appear the formula do not necessarily satisfy the requirements of the Pharmacy and Medicanes Act 1941 and the attention of manufacturers and pharmacits is drawn to the information on dia closure of composition given on page 1405 of the Extra Pharmacopora Volume II 2347 Edition

A.P (Anti pain) Chilblain Ointment (Wigglesworth Ltd Weithoughton) Phenol 1% Camphor 6% Balsam of Peru 2°, Base ad 100°,

Acnolene (Athe Laboratories Lid Leatherhead) Active ingred ents Sodii Sulphoricinas 25°, Paraffinum Liquidum pro Nebulis 25°,

Activarol Tablets (Polypharma Laboratornes Ltd Wembley Muddz) Each conta as Harmatoporphyran 0.002 g Glicocol 0.165 g Ext. Hepaus Conc. 0.007 g Ext. Cerevas Ferment. 0.034 g Sod Cit. 0.100 g

Actron Cachets (Wilcor Jozeas & Co Lid London) Each contains Quinine 0.096 g Calterne 0.054 g Phenazone 0.150 g Phenazetua 0.250 g Magnesium Oxide 0.100 g

Adiposin Obesity Tablets (Teucer Ltd Southend) Rhuberb 1 grain Aloe ¹/₃ grain Cascara ¹/₃ grain Carlsbad Salt ¹/₂₀ grain Bladderwrack ²/₂₄ grain

Aldesan Indigestion Tablets (Remps Chemical Co Ltd Brighton) Alona 3 Ext. Case. Sag. 7 5 P Rhes 3 75 P Sod Bie 75 with liquid and solid ancilatter q a.

[P1] Aldex Cream (Custon, Gerrard & Co Ltd Oldbury) Aminoactidine 0 1°, Benzocaine 0 1°, Phenoxetol 1 0°, in a non greasy base.

Akrotherm Cream (Prory Laboratores Ltd West Drayton) Il stamine Acid Photph 0 1°, Acetylcholme Chloride 0 2% Oxycholesterol 1-0°, Adeps Lame 2 5% Base to 100%

Aletricor Alettis Cordial (Brook Parker & Co Ltd Bradford) Inf Buchu Alterneor Aterns corgani torsaw renear a to an integrate in mean Cone 20% 25% slobal e extract (1 m 1) of Altris Francois 3% Leonoru Cardiaca 5% Tanacchum Vulgate 5% Chempodum Olidum 5% Enghares Centaurum 5% Artemusa Vulgans 5% Puedda Ervitinna 10% Artimus Abrotanuum 20% with Aneuran. Hydrochlor 105 mg, pet 1 or. and Base to 100%

Alrispray (Castle Laboratories Henckley) 2 Hydroxyethyl Sal cylate 5% Diethylamine Salicylate 5% Methyl Nicotinste 1% Vehicle ad 100

Alkafyl Tablets (International Chem cal Co. Lad London) Each conta us Diethylanuncachtebutoxytheychobesyl (Dieyclomane) Hydrochlonde 1 mg Magnes um Trial cate 58 mg Dired Alumanum Hydroxide Gel 58 mg Calcium Carbonate 408 mg Heavy Magnessum Carbonate 58 mg

Alka-Seltzer Tablets (Miles Laboratories Ltd Stoke Poges) Each contains Acetylsalicylic Acid 5 grains Catric Acid anhydrous, 14 9 grains, Sodum Bicarbonate 25 1 grains

Alkia Saltrates (International Chem cal Co Ltd London) Mag Sulph, Exsue 27 57% Sod Sulph Exse, 25 73% Sod Chlorid 1 38% Lithum Carbonate 0 69% Saccharin Sod 0 06% Sod Bicarb 35 38%, Acid. Tar. 9 19%

Alpine Tea (Brook Parker & Co Ltd Bradlord) Senna Fol 920, 1 arrow Herb 5%

Altoids Lozennes (Smith Kendon Ltd London) Contain Ol. Menth. Pip 1 21%

Aluzyme (Plulips Yeast Products Lid, London) Tablets each containing Yeast 5 grains Each g containa Aneurice 110-135 µg Ribofiavine 4) 35 µg Nicotinic Acid 350-525 µg Pyridoxine 30-35 µg Pantothen Acid 52 HR

⁴³ 32 Pd Aminat Powders (Wirgletwork Ltd, Weithoug'ton) And Acetylakir 30 0% Phenaeet 35 0% Calien 3 5% 04 Canam 0¹⁰°, 01, Canam Fel 03% Kaolin Lev 10 8% Scatharn Sod 0 P° Amovon Corn Paste (Amovos Ltd, Bradford) Ac Sal cyl 22 94 01 Rus Rect 00 S 01 Euclip 0 21 Web, Sal 01 Calcept 1 31 Base ad 100

Anadin Tablets (International Chemical Co Lid London) Each contain. Acetophenetidin 2 grans Acetylsalicyl c Acad 4 grans Caffe ce 1/4 gran. Quanta Sulphate 1/13 grans

Anarolds Hærmorrhoudal Suppositories (Ribar Loboratories Lid, Tader ton) Each contains Resoranol 1% Acid Gelleitnine 1% Ban, Suberl 2% Titanum Dioxid 2% Zine. Östid 10% Ac. Bor 18% Bals, Pere 2% Kaolin 2%

Anaspasmine (Roberts Chemists (Bond Street) Ltd London) Elizir containing Caffeine 1 64% Potassaim Iqdide 9 25% Sodaum Benzoate 1 82°.

Andomia Capsoids (Andomia Praducts Ltd Bradford) Each containts Vitamins A (Acetate) 5000 units Da 1000 units Ba 3 mg., Ba 2 mg C 25 mf. Be 1 mg and Nicotinamide 15 mg Andrews Laver Salt (Phillips Scott & Turner Lid Surbion) Acid. Ter.

23% Sod Bicarb 23% Sucros 37% Mag Sulph, Erne, 17%

Andrews Liver Salt for Diabetics (Ph llips Scott & Turner Lid Surbiton). Tart, Acid 40 00% Sod, Bicarb 42 33% Mag Sulph, Exaic, 17 62°, Sacchar a Sod 0 05%

Anduvite Capsules (Carter Bros SI pley) Each red capsule containt. Andravite supported to the state of the stat

[P1] Anestan Ountment (Keldon Ltd Pencale) Active const ments T tant Salecylas 0 31°, Hydrargyn Oxidum Flavum BP 0 31°, w/w Zinci Oxidum Titanii Dioxidum 2 5% Acidum Boneum 2 5% Balaamum I crunanum 25% 0 31%

[Pi] Anestan Tablets (Keldon Ltd Pentale) Active constituents Fluorese Sod 15% Calc Glucon 10°, Ephed Hydrochlor BP 60°, w/w Phen azon 24 0°, Theobrom 12 0°,

130

Angettes (Bristol Myers Co Ltd Russley) Tablets each containing Vitsmin A 40001 u Vitamin D 5001 u Vitamin C 40 mg

Angler & Emulsion (Britel Myers Co Lid Rushe) Paraffinute Liqui dum 25°, Calcu Hypophosph & 0 79% Sodu Hypophosphus 0 88°, Clycen

diff 3% Called Hypopropaging 2% Sound appropaging your 50% Social Bernoss 0 Social Series of Social Bernoss 0 Social Series of Social Bernoss 0 Social Social Series (Social Bernoss 0 Social Bernoss 0 Social Bernoss 0 Social Series (Social Bernoss 0 Social Bernoss 0 S

Chorde 013% w/w Guine Schule Bese al 100 00% (Pij Antasma Tablets (Pater & Clarke Lid Barking) Ephed. Hydrochlor BP 546% w/w Caffen 1092% Pot. Ied 1228% Theophyll e Ethyl endism 2184% Phenacet 2184% Cale Glucon 2184%

Antexema (Potter & Clarke Ltd Barkang) Yellow Soft Paraffin 35 4% Gum Antecenta (Vettr & Clarke Lid Barkney) Yellow Soft Farsfin 35 4%, Gun Access 12 4%, Bortz Acd 15%, Almond Old Will Oll 15%, Water 49 2%, Antibili Anthuicous Fills (George Eade Lid London) Alce 32%, Stammon Res 105 Coche Tay, Zang Market, Alex 10, New Soft Lice 18%, Est Anti Fog Broachial Lozenges (Smith Aendon Lid London) Uln huit Pell's 4250%, Co Ilenz Tunct 39%, Stanthol 0 390%, Ol Menth 19 0 809%, Ol Anna 9 661%, Ol Cabeb 0077%, Olcores Caps c 0 003%, Tart And 0 223%, Tinter Tolu 8 30%, Ext Clargent 5 337%, Antibeptal Disublectant (Lemer Wolfer, Sourch 5 337%), Antibeptal Disublectant (Lemer Wolfer, Sourch 5 337%),

(P1) Antussin Cough Treatment (Tobal Laboratories Ltd London) Each fl oz. contana Deztromethorphan Hydrobrom. 30 mg Ephed Hydrochlor 75 mg, Ammon. Chlor 250 mg Ipecae Liq Ext. 0.5 minum Tolu Syr 120 minums Giyeer 50 minuma

Apiderm (Ernest Lindsay Ltd London) Royal Jelly of Beet in vials of 3 ml or 5 ml contains in each fl oz Vitamin B, 23 mg Vitamin B, 5 mg Vitamin C 128 mg Nicotinic Acid 153 mg

Apioline de Chapoteaut (Wilcox Jozeau & Co Ltd Lyr don) Capsules each containing 200 mg of Apioline the true active principle of paraley

Apisorum (Chemia Products (UK) Ltd London) Contains in 24 ampoules Royal Jelly 250 mg

Appegin (James Hart (Chemusit) Ltd Bolion) Active constituents Lin Bism. et Ammon Cit 1875% Ammon Brom 0.45% Inf Gent Co 50%. Sod Benz 0.05% Ferr et Armono Cit 0 11%

Archanlum (The Phenolame Company Tunbridge Wells) Acidum Acetyl salicylicum 48% Sodie Dicarbonas 48% Traces of Pouss Chloride from Willow Ash.

Arctic Glow Menthol and Wintergreen Cream (Brook Parker & Co Ltd Bradford) Methyl Salicyl 20°, Menthol Pot lod as 1°, Oleores Cap sic. 0 5% Base to 100%

Arla-Tabs (International Laboratories Itd Chesnin, ton) Tablets each con taining Salicylain de 5 grains Phenacetin 11/s grains Vitamin B, 0 14 mg

Armstrong & Influenza Muxture (Boots Pure Drug Co Ltd Nottin, ham) Camph. 0 12% Sp Æther 1 25% Acet Scull 2 3° L q Ammon Acet Dil 8 8° Benzoie Acid 0 2° Ol Anis 0 02% Rectified Spirit 4 9°

Armstrong a Tonic (Boir Pare Dave Co Lid Vatingtam) Lag Sod Glycerophosph, 4.8%, Acid Glycerophosph 1.4%, Cattein Cit 0.9%, Exit, Modull Rub 12%, Exit Crewin Ferment 1.9%, Sod Form 1.5%, Ancurra, Hydrochlar 0.0017%, Inf Gent. Co, Conc 12.5%, Glycer 10.0%, Chlorof 03% Sod Benz 02%

Arthene (Dalmar Ltd, Lescester) Phenyl Ethyl Iodide 0 23°, Viethyl Sal vjate 0 06°, Terpineol Iodide 1 0%, Phenyl Ethyl Isothijocyanate 0 08% Oli of Amber 0 2°, Cream Base to 100 0°,

Arthroids Balm (Stephen Mathews & Co Ltd London) Ung Methyl Sal of 1970°, Iodum 003% Lag Ammon Fort. 006°, Sp Meth Indust. 083°, Vienthold 46% Cera Alb 490% Parall Moll Alb 74 02°,

Ashton and Parsons Infants' Powders (Beecham Pharmaceuticals Lid St Helens) Tincture of Mathemaria (1 in 10) 3 12% Lactose 96 88% Askit Powders (Aikat Ltd Glaugous) Each contains Ardum Acetylsii-

cylicum 0 55 g Acetonhenetidin 0 40 g Caffeinge Citras 0 11 g Magreen Trisilicas 0 01 g

Askit Tablets (Atkit Ltd Glargom) Each contains, Acidum Acetylsah cyhrum 3 00 grains Acetophenetidin 1 50 grains Caffeina 0 25 grain, Magned

Chicum 3 ou grains Acctophenetudin 1 50 grains Califana 0 25 grain, Magazi Irenicas 0 05 grain Exc.p 32 provide 2000 and 2000 and 2000 and 2000 and 2000 and 2000 w/w Chiorbuild 0 50% Sodium Nitrate 007% Exc. Functional Higher 10% Papersone Hydrochloride 0 75% w/w Anethocause Hydrochlorid 0 25% w/w, Vistanu C 0 5% Artegune Actin Bronnide 0 05% w/w Sosia mass. Hydrobromide 0 0025% w/w Glycens 200% Datalial Wart Bo 100%

Aspergum (Whate Laboratories Ltd London) Chewing gum tablets each containing Aspiran 31/2 grains

[71] Athanador, Schüffmann s (Fauet & Johnson Led London) Powler for inhistion containing: Foil Starmonis 25 Sky, Fol Belladon 45%, Let Santa i Molar Healt Product Lid Cheri agus Nitras 10 7% Athera i Molar Healt Product Lid Cheri agus Broom 16%, Sensa Lave 4% Ton 2% Collidority, Raspberry Laves 3% Chirra 3% Drane? Horn 15% Start Starts 4% Paraletty 5% Horps 15%, Schultz 32% Mattices 28%

²³ Whera Tablets (Madern Health Product Ltd Chennetton) Each connex Sama Leaf ¹/₄ grain Rue ¹/₄ grain, Collisioot ¹/₆ grain, Orange Flowers ¹/₉ grain Orange Leaves ¹/₄ grain Hogs ¹/₃ grain, and the squous saturat free Broom 3 grains Raspherry Leaves ¹/₄ grain Clivers ¹/₅ grain Parlley 2 grain, Netted 5 grains and Ministeo 5 grains

Alkinson & Barker's Infanis Preservative (Robert Barker & Son Lid, Manchester) Magnes Carb 5% Soda Bicarb 15% Sugar 973% Alkoho 70% Sweet Spirit of Natre 0622% Saffron 005%, Ota of Dall and Fennel 0 16%

Francia (162) optimistic of the observation of the state of the state

Ayrton s Naze Drops (Ayrton Saunders & Co Ltd Laverpool) Phenylephene Hydrochloride 0 5% Chlorbutol 0 5% in Isotonic Saline Solution.

Bablets (G T Fulford Co Ltd Hatch End) Tablets each containing Mar Oxid Pond 1 5 grains P Zing b ³/₂₀ grain Ol Menth Pup ³/₂₀₀ grain Balca Cream (Boot Pure Drug Co Ltd Aotin, lam) Given Monsalucian Col Diversity of the State S

7 5% Ethyl Naconnate 0 5% Phenyl Naconnate 0 5% Benzyl Sal cylate 0 5*

Chorocresol BP 01% R Lane Gloucester) Active ingredients Liquid Estred Balto Foot Balmi (C R Lane Gloucester) Active ingredients Liquid Estred of Baldderwack 1% Camphon 05% O 1 of Pine 1% Menthol 2% Subpar Precip 3% Pot, Iod 0 25% Acad Saleyl 0 187%, Zine Oud. 0 47% Chlorbutol 2%

Bansor Mouth and Throat Antiseptic (Tlornion & Ross Lid, Hudderfield) Active ingredient Cetrimide 0 01°.

Barker's Liquid of Life (G Barker (Liquid of Life) Ltd Manchester) The water soluble constituents (w/v) of Quassa 9% Gentian 5% Rhubarb 2% Chillies 11/2% Aloes 8% Worm wood 11/2% Calumba 2% and Ginger 1% with Sod B carb 10% and Sugar 60%

Barker's Liquid of Life Table's (G Barker (Liquid of Life) Ltd, Manchester) Each contains Aloin 0 25 grain Sod Bicarb 1 00 grain Ext. Rhei Sicc 0 23 grain Cerevis, Ferment Sice. 0 30 grain Ext. Quass, 0 50 grain Ext Gent, 0 25 grain Calumb Pulv 0 50 grain Oleures Captic, 0 009 grain Oleures Zingib 0.015 grain

Barkoff Cough Syrup (Carter Bros Skipley) Infusions (1 in 10) of Hyssop 19% Horehound 19% and Lobel a 19% with Ext. Seneg Liq 0 6% Camph. 17% rotecome 17% and Loter 17% with Ext. Seng. Life 0.6% Campb. 06% Success Glyerri. 16% 01 Annu 018% Chlorot 0.15% 01 Menth, Prp 0.14% Tinet. Capsic Fort 0.12% Acd Acet 0.36% Honey 12.7% [Pi] Barlows Red Velvet Syrup (Hadand Horly & Co. London). Contains in each quice Tinet_Opu Campb. Syr Sciller, Syr Toju and Syr Frum Serot.

of each 80 minums Tinct Chlor et Morph BP 1885 5 minums Syr Rhorados BPC 1949 140 minums

Bates & Co s Compound Breast Salve (Bates & Co Wett Molectry) OI Rap 204%, Coloph. 461% Cers Fav 293% OI Terebunth. 11% OI Thym. 05% Zinc Carb 26%

[P1] Baume Dalet (International Laboratories Ltd, Chesnington) Chlorbutal 3% Etbyl Am nobencoate B P 3% w/w Glycol Monosaleylate 3°. Menthol 0 5% Camphor 1°. Hydrarg Subchlor 3% Aq Hanam 10% Zane Oxide 5°. Baxen Tablets (Nicholas Froducts Lid Slough) Each contains Aceto

phenetidin 0 1823 g Phenazonum 0 0810 g Theobronuna 0 0108 g Caffeina 0 0216 g

0 0216 g Beechams Fills (Beecham Pharmacetical Lid SI Helms) 7 ngb Fulv 23 08% Cornad Pulv 540% Sipo Funst 2 00% Alcc 51 84% OL Rosmann, 054% Ol Junp 054% ol Ansa 0 20% Olcores Capnic 01% Olcores Zangb 055% Laght Nige Carb 3 05% Beechamis Powders (Beecham Pharmacetical Lid St Helms) Aceto-phenetican 35 00% Acetylish gic Aced 50 00% Callane 3 30% Kool num Serbens Sovid 210% Carbon 0 12% Olcorum Canarmen Fol 0 43% Serbens Sovid 210%

Saccharin Sodium 0 30%

Beecham s Powders (Tsblet Form) (Beecham Pharmaccuticali Ltd St Helen) Acetylasi Acid 50 00% Phenaeet 35 00% Caffe ne 3 30% Of Linnam, D 12°, Ol Cinnam. Fol 0 48% Szecharin Sod 0 32% Excip ad 100 00%

[Pi] Belean Specific for Gout and Rheumatism (Wilcox Jozeau & Co Ltd London) Tinct Colch es FI BPC. [1923] Tinct, Colches Sem BP [1948] Tinct. Gentuan, as 15 g Potats fodid 4 g Aq Dest. ad 100 g

[11] Bellapurin Suppositories (Ruddel Producti Lid London) Each conta na Ext. Bellad Sice 0.022 g Paparenne llydrochlor 0.0218 g Ephedrune Hydro Lat Balad Sice 0.02.9 Feptrement synchronia 0.02.19 Elimetrial Fydio chlor 0.011 g Atropute Methyla trate 0.011 g Stronium Iodide 0.02.2 Beltona Lotion (Beltona Ltd Hodderdor) Liq Annuonize Fort, 216 Oleum Curontile 0.03 Oleum Verberg 0.06 Methyl Sal cylas 0.15 Oleum

Sucan S course of Software Process of the second se 1/s grain

Belzo Rheumatic Tablets (Bellinner, Solford) Each contains Acetophene-

t do 1(4) grains Gostaners (Longraphy Lawrent) takin tooling Acceptation t do 1(4) grains Gostaners (Longraphy Lawrent) and the second structure Beneric Torus (Irend, & Houler Led St. Alban) The squeeue extractive from Burdeo 3 Sy. 1607 Mattel St. and Hed Chere 25, with Dec. Sar Co Colour q. An Chlorof to 100° p. Benerics & Baltam (Breney & Co Led Hembo) Menthol 20°, Methyl St. 2007 (1998) 100 (1998) 100° (1

Salicyl 20°, \depa Lang 60%

Bongué's Balsam, Stainless and Greaseless (Bengué & Co Ltd, 1) enbley). Methyl Salicylate 15 g , Menthol 10 g , Greascless Base to 100 g Bongué's Dragées (Bengué & Co Ltd, Wembley) Lach contains, Menibel

0 005 g, Benzone Acid 0 01 g, Borax 0 05 g, Excipient q = Benoids Pastilles (Smith Kendon Ltd, London) Tereben 0169 Lucaly 0 0077%, 01 Betul 0 066%, Menthelio 0 056°. (01 Menth Pin 0 0 Of. Definition resulties (Jonual Acrason Lid, London) Tereben U109° 5 UL Lucalp 0 07%, OI Betal 0 066%, Menthel0 056°, OI Menth Pp 00%, Ext Glycyrth 3 571%, OI Pint Pumul 0 048° 6, Co. Benz Tinct, 0 791% Guuasol Carb 0 028%, Glyceren 0 893%, Creatou 0 007%, Thrond 0 05%, [91] Benzac Tablets (Waglemorth Lid, Writhoughton) Active construments Phenolphthal 0 4%, Cale Lact 3 0%, Ephed Hydrochlor BP 6 9% win

ransonpathai 0.4%, Cale Last 3.0%, Ephed H3drochlor B P 6% wa Caffein 6.9% Phenetes 39.5% Besorion Medicinal Snuff (Kensules Ltd, London) Mag Carb. Pord. 38.6%, Bism Carb 3%, Cale Carb 5.8%, Acid Bonc, 8.8%, Sod. Bearb, 13%, Methiol 4.4%

Betalax Chocolate Laxative Drops (Koray Ltd London) Each chocolate drop contains Phenolphthalein 1 grain

[10] Betonian a Induce Tablets (Boois Fure Drug Co Ltd, Nottingham) Esch con-tains Cerevis Terment Sace P_{Ag} grann Ferr Sulph. Lixue $\frac{3}{4}$ grann Surph Hydrochlor B P_{Agg} grann, Aneurin Hydrochlor O 5 mg Ruboflav O 5 mg trystechter Br. 'Ins grann, Anseuran Hysiochtor' of smg. Rubbilley Of smg. [14] Betul-Of (Rubary Brands) (Gard, Rouss & Co Liel London) Lammet (14) Betul-Of (Rubary Brands) (Gard, Rouss & Co Liel London) Lammet Methol Salceylatt 86 4%, Chloral Hysianz 2%, w/w Bilasht, filterneisson & Chemento Co Liel London, Tables acch costauser Bilasht 16 mg. Jpom Res 5 mg. Podoph Res 5 mg. Alox 20 mg. 40 mg. Bilast, Grant McClieller, Product Liel, London Tables acch costauser Bilast, Filterneisson & Chemento Co Liel London, Tables acch costauser Bilast, Filter McClieller, Product Liel, London Pille sett on contanuer Podoph. Res 0 Lizgenn Aloun 01 zgrann, 60%, Alcohole Extract al Lepander Podoph. Res 0 Lizgenn, Jaba Rean 0.0 6 grann Coigenn 0.0 Hemb. Markon Markon, New Markon, Markon Markon, New Markon Markon, Markon Markon Markon, Markon,

ip 0.01 grain

Pip 001 grain. Bile Beans (C E Fullord Ltd, Leeds) Each constants Podoph. Rev. 78 Jon. Lat. Cane. Starf. Size 8 50 me, Jalap. Rev. 3 05 mg. (D) Marthe. Pip 0 37 mg. 70%, Alcohola Extrast of Colocyth (1-4) 52 mg. Alos Public 150 mg Cardam Fruct 130 mg. poom Res 4 53 mg. Sod Taurochocchal 6 45 mg. Biobalam (Alcoffm Haidh Product Ltd Chennegon) Paule and Shpper Eim Bark 24%, Barley Flour 67%, Powdered Irith Moas 6°, Biocham Oncentrate 39, (Pet Phosph 5x, Pot. Iod 6x). Phosph for CLe Phosph 3x, Pot. Iod 6x). Combard 104 msr. Laborator Ld, London, Sodurn (Christe 4.6°, Sodum (Fil Biolaya (Cherre Laboratorate Ld, London), Sodurn (Christe 4.6°, Sodum

Nitrite 0 23%, Strong Solution of Ammonium Acetate 8 34% Camphorated Tineture of Onum 4 6%, Solution of Ameranth 1 04% Vehicle to 100

Biometica Antiseptic Cream (Biometica Ltd Boreham Rood) Activit ingredient Cetrimide 0 5%

Biorub (Biorex Laboratories Ltd, London) Methyl Nicotinate 1 00, Glyrol Selicylate 10 0%, Histamme Dihydrochlor 0 1%, Capsicin 0 1*, Bare ad 100-0%

Birley's Antacid Powder (Walter Crowe Ltd London) Gelatum Alumon Hydroxidi Szecum 1 0% Magnesu Trishoas 11 1%, Magnesu Carbonas Levis 87 9%

87 9% Bichop's Effervescent Carlsbad Sait (Ail/ref Bukop Ltd Cawbrid)-Sodi Sulphas 8 89%, Linda Carbonas 0 37%, Sodia Chloridum 5 93%, Manter Sulphas 1 45%, Sodia Barzbonas 45 226%, Calcu Hyrephoral 9 137% Sacchannum 0 014%, Andum Tatancum 24 91%, Aculum Chineum Leitika Bichop's Effervescent Citation of Callenov (Art 5 7%) Sodia Bicarbonas 41 60%, Andum 0 004%, Calfena 1 50%, 15 20%, Superform 25%, Acutom 0 004%, Calfena 1 50%, 15 20%, Superform 25%, Calcurate of Calfenov (Andus Canvar 1 50%), Superform 25%, Acutom 0 004%, Calfena 1 50%,

Bishop's Efferv escent Citrate of Caffeine Tablets (Alfred Buh p Ld Cambridge) Caffeine 109' Sucrose 10°, Saccharin 0 006°, Sodium Bicat bonate 40°, Citric Acid 20% Tartarie Acid 19 974%, Each tablet contains or grain pure Caffeine

Bishop's Effervescent Citrate of Lithia (Alfred Bishop Ltd Cambridge) Sodu Bicarbonas 51 33%, Acidum Tartancum 26 82°, Acidum Cuitum 18 63%, Lithui Carbonas 3 162%, Saccharinum 0 008°,

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Bishop s Effervescent Citrate of Magnesia (Alfred Bishop Ltd, Cambridge) Megnes Sulphas Exec 6 55% Sucrose 15 75% Sodii Bicarbonas 41 35%, Acidum Tartaricum 18 40% Acidum Citricum 17 95%

Action a sectiment to 50% Actions Chrosen Granules or Varalettes) (Alfred Bishop 8 Kissingen Salls (in Effervescent Granules or Varalettes) (Alfred Buhop Lid Cambridge) Sodii Phosphas 2 10% Sodii Cherbona 45 75% Magnes Sulphas 4 09% Calcu Estonas 0 33% Sodii Bicarbonas 45 75% Actiona 12 rataricum 27 32% Actiona Christian 12 71%

Bishop's Natural Fruit Saline (Alfred Bishop Ltd Canbridge) Sodu Bicarbonas 50 66% Acidum Tartancum 46 08% Acidum Citricum 3 269

Bishop & Varalettes for Gout and Rheumatism (Alfred Bishop Lid, Cambridge) Lubin Carbona 10 40% Lubin Cartas 7 42%, Sodia Bicarbonas 21 78%, Acidum Tartarum 20 80%, Acidam Otracum 59 40%, Sodia Bicarbonas

Bishop s Vichy Salts (in Effervescent Granules or Varalettes) (Alfred Buhop bishop's vicey Saits (in Entervision Urindus of Viraettes) (4)/74 Dundy Lid Cambridge), Sola Phosphaso 93% Calcu Carbonas 008% Nagnes Sulphas 008%, Potssan Chlondam 031% Soda Sulphas 3 12% Soda Birzhonas 55 (23%, Acduan Titraruna 24 39%), Acduan Citratum 14 32% Bir Ha-Ma Powder (Robert Chemats (Bond Streif) Lid, London), Liq Parafin 200 Calancia Magness 10 45 Burg. Carb 15 42, Collovid Kacdu

4.3.5 Gum Astan 3 3 Aromano Swetende Expent to 100 Biskolait Swetush Milk Diet (Ankoma Fraduri Lid Bradjed), Ingred zents Milk Protent Glucow Deat Potsaum Curate Methyledhlose Succharn Soluble Vitaman A 2000 uv Vitama By 25 mg Vitama By 25 mg Vitama C 50 mg Vitama D 1000 uv Nicotune Acid 12 mg per 1 ounce

Disma Rex Antacid Powder (Recall Drug Co Lid Loughborough) Sod Biama Rex Antacid Powder (Recall Drug Co Lid Loughborough) Sod Boarb 07 2%, Cale Carb 12.0%, Misgrent Carbonne Ponderous 3 73%, Disma O 2%, O Merch, Pro 0125%, "A Morecular Carbon Biama Rex Antacid Tablets (Recall Drug Co, Lid Loughborough) Esch contain Mar (Sol Mierch, Pro 1015%), "A More Carbon emain Biam Carb 0-2 grain (U Meath Pro 005 mann Biam Carb 0-5 grain (U Meath Pro 005 mann Biam Carb 0-5 grain (U Meath Pro 005 mann Biam Carb 0-5 grain (Carbon 105%), "Biam Carb 155%, Lifth Mar Carb 5 21%, Creat 50%, Sod Biarb 3 75%, "Biama-Carb 155%, Biama-Calna Powder (F H Eulor & Son Lid Loseiter) Biam, Carb 10%, Hasyn Mar Carb 30%, Creak 20%, Sod Disch 3 75%, Biama-Calna Powder (F H Eulor & Son Lid Loseiter) Biam, Carb 10%, Hasyn Mar Carb 30%, Charlo 20%, Cale Carb 10%, Biamuthated Magnetia Orais (Carb Lid Biachard), Yug Carb Pond 0145 Sod Recht 3 55 Bianca 100.

0 14 Sod Bicarb 1 56 Basis ad 100

BiSoDoL Powder (International Chemical Co Ltd London) Active con autuents Light Mag Carb 39 27% Sod Bicarb 57 49% Bismuth Aluminate 1 40% Diastase 1-40%

BISODOL Rollinins and BiSoDoL Tablets (International Chemical Co Ltd London) Light Mag Carb 537% Sod Bicarb 510% Bismuth Alum mate 0 27% Calc Carb 41 70% Distance 0 74% Mint Flavoured Bisurated Magnesia (International Clemneal Co Ltd London) Sod. Bicarb.

BINITATER MARGENIA (INFITUEIONAL L'ENTRAL CO LA LONDAN) SOL BURST 17 5°, BISM CATO 25°, DING CATO PORIO 30%, May Carb Lev 20% BINITATER MARGENIA TAblets (International Chemical Co Lid London) Each contains 478 grains of Bismag Povder of the following composition 50d Bearb 475°, Bism Carb 25%, Mag Carb Dond 33 3%, Mag Carb Lev 1479

Bisuroids Lazative Tablets (International Chemical Co. Ltd. London) Each contains Phenolphthalem 1 grain

Blacfrutex Cough Linchus (Wright, Layman & Umney Ltd London). Active ingredients Oxymel Seiller 12 5 Tinct, Ipecac, 4 16, Syr Tolu, 24 96, with Blackcurrant Flavour

Blanchard & Female Pills (Leshe Martyn Ltd London), Feer Sulph, Exste. 10% Rhei Puly 20% Cinnam. Puly 12% Cardam. Sem. Puly 12% Zingib

10% Rhes Pulv 20% Connam. Pulv 12% Cardam. Sem. Pulv 12% Zangub Pulv 12% Syr Glucos Lig 30%, Apold 4% Boldariem (Sprarer & Co. London) Capules each containing Ol Junip, Oxysced 0.453 gran Ol Tereth Auth. 0802 grain. Subplur 0.061 grain OL Lanum 0.216 grain Ol Cynars Scolymus 0.462 grain Lat. Boldo 0.309 grain Ext Hepat, Sicc. 0 309 crein, Hexamine Camph. 0 309 grain

Bonomint Laxative Chewing Gum (Westm aster Loboratories Lid London Sucrosum 66 40° Glucosum L quidum 11 85% Phenolphthalein 4 81% Amylum 2 00% Acac a 0 22% Oleum Mentha P per te 0 45% Bas s 13 2

Boots Baby Cream (Boots Pure Drug Co Ltd Vott neham) Zine Onder

Boots sharp tream theor rare inter to Lid voit ngham) Line One 75% Pot Hydroxyunnolin Sulph 01%, Boots Cold and Influenza Tablets (Boots Pare Drug Co Lid Noit ngham), Camph ⁴/₆ gran Ext. Case. Sagt S cc ¹/₈ grain Phencet 2 grains (Apac. ¹/₈ gran Ext. Case. Sagt S cc ¹/₈ grain Phencet 2 grains (Apac.

Boots Juniper Fills (Back and Kudney) (Boots Fur Drug Co Lid) Autors Ann Jouane Res 1/4 grants Stall ¹/4 grant Romen ¹/4 grant Aloc ¹/4 press Myrth ¹/1₈ grant. Pet Sulph ¹/4 grant OI Jones ¹/11 mann, OI Methi P ¹/16 manne Ert Quass ¹/4 grant Boots Sting Reliet (Boots Fure Drug Co Lid Nettrafaan) Zac Ord 10% Barryh (Bot 15% Charonylend 15% OI Lockyr 10% Barr Boots Ethniversal Entraphon D 25% OI Farthan ¹/100 Correction 65% I a Mannes Tori 2004 Amore Nettrafaan 2004 Amore Association 1000 Amore Association 1000 Amore Nettra 1000 Correction 65% I a Mannes Tori 2004 Amore

Ol Fereb nth 12 0% Camph 0 5% L g Ammon Fort 2 0% Ammon Carb 4 0% Ammon Chlor 2 0%

Bormol (Roberts Chemists (Bond Street) Ltd London) Thymol 0 1° 54. O is 0 3% Alum, Z nc Phenolsulphon as 5% Sed um Borste 10% Acd Bor c 79 6%

Bowden's Indian Balm (W Bouden's Indian Bolm Co Barnstook) Act vs. nrefentis squeene santi (19) poetaris (nd on Boin Co Bornigh) Act vs. nrefentis squeene screene of Athana Leaves (2 in 11 15%, Adve 4 52%, Palm Kernel Ol 4 21% Ol Chaulmoog 0 252%, Ol Ol 5 37%, O Raun, 57%, Ol Camph, Rect. 1 32%, Ol Cauput 132%, O Roum, 57% 1 32%, Tereben 1 32% Ol of Thyme 1 32%, Ol Eucelyp 1 32%, Camph 0 30%, Canada Balamo 0 25%

v 20% classic patient V&C7 W H Bac Plymouth P Ulm, Fulv 10 3% Bors a Herbal Distance at 10 W H Bac Plymouth P Ulm, Fulv 10 3% Box a Indigeston Phils (W H Bac Plymouth) Myrth Pulv 180% Gentan Fulv 180% Campb Pulv 180%, Aco Pulv 180% Campb Pulv 180% Aco Pulv 180% Campb Pulv 180% Aco Pulv 180% Campb Jargazabac U J, Brazz Lad Loadesh Tublety sech containing, Campb Bragazabac U J, Brazz Lad Loadesh Tublety sech containing, Campb

2 175 grains Dried Alumanium Hydroxide Gel 1 74 graint Light Raolin 1 74 978108

Bragg & Charcoal B scusts (J L Bragg Ltd London) Carbo L gra BPC. 1934 1217,

Bragg & Charcoal Capsules (J L Bragg Ltd London) Carbo L gru B.P.C. 1934 50 % suspended n L qu d Paraffin

Bragg & Charcoal Granules (J L. Brogg Ltd London) Carbo L mu B.P C. 1934 90%

Bragg's Charcoal Lozenges (J L. Bragg Ltd London) Carbo Lugar BPC 1934 98°

Bragg & Charcoal Tablets (J L. Bragg Ltd London) Carbo L ens B.P.C. 1934 90 .

Brandreth a Pails (Allcock Products Ltd Laterpool) Ext. Case. Sage Soc. 0 030g Aloe 0 055g Guasac. Res 0 021g Ext Sars 0 003g Caps c. 0 001g San Dur 0 004 g

[P1] Bromidia (Roberts Chemists (Bond Street) Ltd London) Conts no in each (1) Bround (power) Learning (come streng) Les Leadon (Conti nai refer do c Chical Hydrich 9] runnis Persa um Brounde 9] grans Ext Hysocyten Sec BP 1 gran (Fil) Bround-settapnie (Robert: Chem te (Bond Streng) Lid London) Acti t const tuents Potes um Brounde 12 OFF 1 Learn per A trate BP 001°, with Bround-Setter (Jonan I New Learning and Streng and Artic 1 250°, Steri Bround-Setter (Jonan I New Learning and Learning and Stering and S

amide 2 500° Caffe ne 0 625° Sodium Brom de 6 250% Sugar 8 164", Sodium B carbonate +2 636% C tric Ac & 38 555%

[P1] Bronchupax Tablets (Nicholas Products Ltd Slough) Each con ans. I phedrine Resinate equ valent to Ephedrine Hydrochloride 30 mg Theophyline 40 mg Sal cylamide 200 mg

[P1] Bron-Skeis Pastilles (Diabetic) (Smith Kendon Ltd. London) Pholcodine B.P C. 0 106% w/w, Gum-Sorbutol Base ad 100% Brooklax Chocolate Laxative (Westminister Laboratories Ltd, London)

Chocolate 90%, Phenolphitalem 10%, Parker & Co. Ltd, Bradjord) Methyl Broparca Rheumatic Rub (Brook, Parker & Co. Ltd, Bradjord) Methyl Saicylate 25 00%, Camphor 7 75%, Mienthol 3 00%, Eucalyptol 4 00%, Oil of Amber 4 00%, Capsiein 0 50%, Glycerin 5 00%, Turpentine 4 00%, in a watermiscible hase

Inscione case Broparco Sulphur and Herbal Bitters (Brook, Parker & Co Lid, Bradjord) Aloe Perry 0 4%, Ext. Senne Lug 3 0%, Sulphur Sublum, 0 3%, 25% alcoholu extract (1 m 1) of Eupatonum Perfoliatum 0 3%, Tanaechum Vulgare 0 1%, Erythrea, Contaunum 0, 3%, Genuan Latea 0 0%, Acotus Calamus 0 6%. Podophyllum Peltatum 3 0%, Picrana Excelsa 0 6%, with Aneurine Hydrochloride 10 5 mg per oz

Broparco Syrup of White Pine and Tar (Brook, Parker & Co Ltd, Bradford) Lug Ext White Pine 2 30% Lag Ext Squalls 4 00%, Ammon Chlonde 2 5%, Syrup of Tar 20%, Glycenn 10 00%, Flavouring and Colour q s. Base to 100%

Broparco Tisane de Qualité (Brook, Parker & Co Ltd Bradford) Ext. Glycyrth. Liq 24%: Ext Cacc Sagr Laq 06%: Ext Senn. Laq 12%. Capiento 010%, Alec 24%, Ol Ants 000%, Ol Cornad 0007%, Ol Fenne 0007%, Ol Sasaf 000%, Z5% alcoholte ext. (i ni 1) of Genuan 12% and Crhonum Intybas 18%: Base al 000 000%

1 son a cicronium introdu 1 8%, base 48 (UMWW) Bioparco Walk-Easy Com Paint (Brock, Farer's & Co Lid, Bradford) Ac Salary 8°, Ac Lactic 2°, Colledium Flex Meth Colour etc. to 100% Brazoff Oils (Biddell Product Lid Londen) Oi Cumun 005%, Chlorac creeoli 02% Oil Archites 41 00% Joudon's STR Schin Olitanies (Bidden & Co Lid, Laterpool) Acid Bonc.

11 2%, Phenol 1%, Ol Tereb 1 8%

1. Januard 1. Strine (Jandraff Lid London) Acid Tann 4 25%, Acid Bungter's Nervine (Gambrier Lid London) Acid Tann 4 25%, Acid Burgess "Lidna" Glatimeric [Edean Biogras Lid London] Adeps Lang Anhyd 25%, Paraffin Nole 26%, Cera Flav 12%, Resna 12%, Zang Gleas 12%, Sp Vin, Methyl 8%.

Burgess "Llost" Fills (Edam Burger Lid London) P Rhei 24%, P Ext Aloes 18%, P Sano 12%, P Myrthe 12%, Ol Manth. Fup 2%, Syrup Excup (Fil Burgole (Dalmas Lid Lexentr) Copper Guasel Sulphonie 02, 5-Mursoartdine Hydrochloride 01, Benzamure Borare 01, Jelly Buse ad 100 Burkon Rubbing Battle (Dhoddak & Baghkas Lid, Guldam) Oleores. Capsie 5 19º at Ol Terebinth, 12 69º at Camph 2 3%, Methyl Salicylate 2 3%

CB Coltsfoot Bronchials (Wugglesworth Ltd Westhoughton) Tablets containing the water-soluble constituents of 0 3% Coltafoot Flower together with Carlos de vacer solucie constituente de 0 3%, Controle 2000er 1000er 2000er de vacer Coleb 0 45%, Ext Chycryr, Log 4 45°, Copsenso 1000%, Tolu Balta 0 15°, Lag led Fort 0 02°, OI Eurajy 0 02%, Menthol 0 276%, OI Anna 0 75° CMP Asthuma Remedy (C & M Medical Product Lid, Brutol) Caffen bod Iod 83, Sod Iod 83, Acid Hydroid Dil 83, Ephedrite Hyd 0 95,

Dec, Coffea 66 0, Aq Chlorof ad 100

Lee, Contest to 0, Ad Chubon 40 100 (B) Cabditvers Adult Lincetus (Ford Jackson & Co (Saler) Ltd, Castleford) Codem Phosph ¹/₁₆ grain Terpin Hydr ¹/₁₆ grain Menthal ¹/₁₆ grain M. Pini Pamuh, ¹/₁₆ minim, Ol Eucelyp. ¹/₁₇ minim, Alcoh 9¹/₁₈ minim, Giycer ²⁰ minims, Syrupus 17 maning, Glucos Lag 9¹/₁₈ minims, Aq to 1 fl drachm.

Cabdrivers Junior Glucose Linctus (Ford Jackson & Co (Sales) Ltd. Castleford) Contains in each teaspoonful Acetum Ipecae 21/, iniminis, Syrup

Canadora) Contants in each teapoantul Acetum ipecae 2-1; inimins, syrup Rinordos 7 mutante Syrup Anis 20 minimus, na fruit lavoured base Cal-Bis-Nato (18 illiam R. Worner & Co 1 1d, Eastleigh), Contains in each 20 grains Calcium Carbonate 6-1; grains Alagnesium Carbonate 3-1; grains, Sodium Bicarbonate 3-1; grains Colloidal Kaolin 2-1; grains, Magnesium I risilicate 121, grains, Bismuth Subcarbonate 1/, grain, Bismuth Subcallate 1/, grain, Oil of Peppermint q s.

California Syrup of Figs (Phillips, Scott & Turner Ltd, Surbiton) Aqueous Lxtract of Senna Leaf (1-1) 27 8%, Aqueous Extract of Fig (1-1) 9 0%, Extract of Ginger (1-1) 0 11%. Oil of Cassis 0 04%, Oil of Peppermint 0 08° , Oil of Clove 0 11%

Calsalettes (Torbet Lactue Oat Co Ltd, Edinburgh) Tablets of 1 gran containing Aloinum 62 64792%, Amylum 27 14742%, Lactosum > 10233%, Acid Stear 5 10233%

Calsaloids (Torbet Lactic Oat Co Ltd, Edinburgh) Alonium 56 72507 Amylum 24 58087%, Lactosum 4 61994%, Hydrarg Subchlor 9 45418 Acid Stear 4 61994%

[P2] Calvex Ointment (F C Calvert & Co Ltd, Manchester) Cera Alb Co 26 2%, Phenol 8 1%, Camph. 4 4%, Cetac, 8 8%, Ol, Oliv et Arach. 52 5%

52 5% [Fi] Campbell's Cherry Flavoured Cough Syrup (Bost: Pare Dag Co 124, Notingkom) Marphane Hydrochlonde B P 002% w(v, syrup of Squill 83% Diute Acete Acul 20%, Nitre Acul 30%, Recincid Spant 06% Candol Cold Sore Salve (Clay & Abrokam Ltd, Linerpool) Sod Bent. 0 24, Acul 71mm 4/9, Chebuduol 064, Menkhon 0 23, Base to 100.

0.32, Arid Tann 9 (0, Chloroutou 09, Menthol 03, Issee to 100 Caphedradonie (E H Bullet & Son Lid Learenty Each fluid drachmeontans Caffern et Sod lod S granas Sod lod S grans, Ext Glycyrth, Lag S manum, Chloref 1/, munn, Enhed Hydrochlor 1/, grann Carters Lattle Liver Pills (Pretested Product Lid Richmannorth) Each

Catters Lillo Lives and Creates Products Lil Anonumentoring sem Contains Aloc Carego O 25 gran Podophili Resum 0 0625 gran. Cartor's Vegetable Cough Remover (Petters (lithed Suppler) Lil, Wyan) Coltoro 5%, Mullen 2%, Matchanter 1%, Marthanilow 2%, Bloc Root 1%, Ipecatanaha 1%, OI Anna 0 1%, Thrinca 8%, and the squeeze extension from Hysop 3%, Horbound 2%, Elecampane 2%, and I charge Root 4%

Cartwright's Nerve and Bone Limment (IV B Carturght Ltd Raudon) Ol Terebinth 12 50%, Ammon. Bicarh 3 75%, Ammon Chlor 1 87%, Liq Ammon Fort 2 50°

Cassells (Dr.) Tablets (Beecham Pharmaceuticals Ltd, St Helens) Lich contains Dried Ferr Sulph. 0 96 grain, Cupri Sulphas 0 007 grain, Cale. Phosph 0 85 grain, Caffeine 0 49 grain, Cerevis Ferment Sicc. 1 82 grains Aneur Hydrochlor 0 166 mg

Annue Hydrochlor O 106 mg Marture Oslow Antonio Colen Micrure Colen Microgen & Co Led Larozzon Inordhane Lane O 036% with Antum et for Kirn O 035% with Ear O event Lang 100% fest Soll Lag 150%. Acet Soll 270% Ebler O 37% Chlorof 0 25% with O Lane 005% OI Microsoft Dirac Sold Man O Comma Kiramowi Laboratores Led London) Tables each comunant Partylenessershale & grants Cofferen & grang Leoters Sprano.

Cephos Powders (Election Flarmaceuteal I.d., St. Helen). Acryleakylic Acid 57 14%, Phenacetta 28 67%, Caliene 4 76%, Azolnum Pond 9 35% Cephos Tablets (Beechom Pharmaceuteal Ld, St. Helen). Each continu

Acctylsalicylic Acid 0 195 g , Phenscetin 0 095 g , Caffeine 0 015 g , Amylum 0 030 g , Acacia Pulv 0 015 g

Chex for Chilblains (Harker Storg Ltd London) Acid. Tann 170 ... Chloroxylenol 0 5%, Sp Meth Indust ad 100%

Chicabax (Brook, Parker & Co Ltd, Bradford) Chewing gum tablets each

containing Phenolphthalen 2 grams. [91] Chilban Chilbian Cream (Evons Medical Ltd Liverpool) Glyeol Salcylate 5%, Methyl Nicolumite 1 25%, Benzocame B P 5% w/w, Chloroereol 01% in a non greasy base

Childo Healing Ontrinent Tablet (Amovon Ltd Bradford) Adeps Lan. Childo Healing Ontrinent Tablet (Amovon Ltd Bradford) Adeps Lan. 9 12 Ceresan 15 25, Tereben 1 75, Coloph. 1 75 Paraff Dur 21 25 Meth. Sal 0 153, Bals Peruv 0 16 0L Thym 0 034 OI Caryoph 0 05, OI Curonell. 0.04 Germund 0.04 OI Eucalyp 0 1 Paraff Moll ad 100

(P2) Chilline (Songer Lid, Londos) Ontment containing Phenol 3°, Tity cerm 10%, Pariff Moll Alb 10°,

Chilva Elixir (Chile a Laboratories Ltd Bradford) Syr Tolu 5, Inf Marruh. Cone 1 5, Ext. Scill Lag 0 025, Ext Cocilian Lag 0 025, Ext Seneg Lag 0.025 Ext. Ipecae, Luq 0.025 Ext, Glycyrth Luq 8.5 Tunct, Capsic, 0.3, Glycer 5.5 Brandy 7.5 Ephed Hydrochlor 0.200 Acid Benzoic, 0.5, Cetrimid 0 06 Syr ad 100 w/w

Chlorophen (Artion Saunders & Co. Ltd. Lsverpool). Chlorine 04% Iodine 0 11ºa, Bromine a trace Phenol 0 95% Ac. Salicy1 0 050

Iodine 011°, Brohme a trace Tranes v 25%, Inc. SMIC) 6 US-5 Chloro Yessi (Sun Hand Chemical Vid Landon), Tablets cach containing Chlorophyll (water-soluble) 10 mg. Dred Yess 24¹, grans, Caffeine ¹, gran Pheneten ¹, gran Acceptalschink and ¹ gran, Franchphithalen ¹, gran, Christy & Emulsion (Ther Christy & Co Lid Aldershot). Active constitu-on the Character of Character and Char

uents Adep Lane + 80°, Chrent Menosterate + 80°, Cert Alla 0 70%, Cetac 0 70%, Propi Ilydroxybenzoate 0 04°, Shiryi Hydroxybenzoate 0 08%, Chrestn 2 16°, Sp. Meth Indust 7 50% Parachiorometaxyleno 0.05% Amanacran Hydrochlor 0.00035%

Clarke's Blood Mixture (T) e Linenin & Midland Counties Drug Co Ltd Lincoln) Pot Iod 115% Sod Sal 135% Pot Bicarb, 185% Ammon, Chlor 070% Conc. Co. Gent Inf 075% Dec Sars Co. Cone 075°, Chlorof 025%, Sacch Ust 025% Aq. ad 100%

Clarke's Blood Mixture Tablets (The Lincoln & Midland Counties Drug Co Lid Lincoln) Pot Iod 19 230% Pot Bicarb 15 384% Sod Sal 23 076%

Co Lid Jancah Per Lod 19 200% Per Bearb 15 384% Sod Sal 23 076% Ertrar of General 3846° Oleman Casaro 704% Caffene 3846% Certens Forment Sue 21 075% annehe & Malland Countre Drag Co. Lid, Luraho Jona 2008, Japp. Res 1238, Peodeybillen 100% Guissenn 125% Capue. 12 3% Ol Menth Pin 50% Exerp sol 100% Clarke 8 Salve (The Lancel & Malland Countre Drag Co. Lid, Luraho Zane Orad. 10 000%, Acid Salver 1 33%, Coloph 10 00% Thymol 263%, Paraff Dur 0714% Paraff Mell Ab 75 6%, Salver Drag Co. Lid, Luncoho Paraff Dur 0714%, Paraff Mell Ab 75 6%, Salver Drag Co. Lid, Luncoho

Clarko's Skin Lotion (The Lancoln & Midland Counties Drug Co Ltd

Larder S Xain Lotion (*The Larcen's & Lindon Learning Drug Ca* Liz Lande) Liquer Press Carbonsis 100% Sodium Bowrtz 250% Giyeer 150% () Thym 0.05% As at 100.00% (Carskess as Medicline (Clarkson Ryde) Tanet Zangib Vist, 1250%, Tanet Myrth, 1873% Sontus Campborne 1875%, Water soluble constituents of Capsel Puly 7, 000% and Coccus Scatu 0 062%, Spurns Reinfastus 5000% Aquam ad 100°

Clearassi (Vick International Ltd London) Greaseless outment containing Resorcinol 2°, Sulphur 8% Hexachlorophane 0 05°,

Cleer (Universal Laboratories Ltd Polkestone) Active constituents Tetra

Creen Uniternal Laboratoree Lub Foreigenty Active Conditional Tetra Mydrozoine Hydrochlonde 0025%, Phenrylephane Hydrochlonde 025%, Cloister Herbal Tea (Campbell Laboratoree Torquay) Peumus Boldus 02 Casus Angustifolia 20 Rhamaneh Prangula 01 Glycyrthuza Giber 010 Mentha Fiperna 008 Hamamehs Virginiana 002 Melasa Officinalia 0.05 Parietana Officinalia 0.02 Conandrum Satavum 0.02 Spirma Ulmaria 0.05 Saponaria Officinalia 0.09 Pumpunella Anisum 0.05 Illicium Verum 0.02 Anethum Forniculum 0.02 Origanum Visiorans 0.02 Veronica Officinalia

0 02 Althæa Officinalia 0 02 Fraxinus Excelsior 0 07

0.02 Allicka Olicitatis 0.02 Frazanis Exercisor 9.07 Socichum a Slaciani (Column 90 De La Gaisque 2 00 Timet Canco 166 Ext Grindel Ling 0.33 Lag Toha 2 St Annono Chlord 0 50 Syr 400 Acid Bera 0.33 Aq Chaorel as 100 Cockburns a Fills (Cockburn & Co Lef Glasgest) Ext Euonym 7.0% form Ret 35, Colocynth 70%, Aloe 140 %, Sp Dur 140% Pitcholshitt 35%, Oliceras Angul 173%, Lice peter and Costing al 100%.

Acid Acetylasl cyl 5 grains Codein I hos 1/a grain Phenacetin 21/a grains Caffen 1 grain Phenolphthalein ²/₈ grain [P]1 Codis (Reckitt & Sons Lid London) Tablets each containing Acid Acetyl-

sal cyl 4 grains Phenacet 4 grains Codein Phosph 0 125 prain Cale Carb 1 2 grains Acid Cit (Exste.) 0 4 grain

[P1] Colchi-Sal Capsules (Huxley Brand) (Gale Dans & Co Ltd London) Each contains Colchicing 0 25 mg Methyl Saleylate (natural) 200 mg

Coldrex (Ph link Scott & Turner Ltd Surbion) Tablets each containing Paracetamol 400 mg I henylephrine Hydrochlonde 5 mg, Vitamin C 50 mg

(P1] Collis Browno a (Dr J) Chlorodyne (J T Datenport Ltd London) Active constituents L quid Extract of Op um (10% Morphine) 1 4% w/y Codenne 0 21% w/y Chloroform 14% w/p Froch Spr t 5 73% v/y Extract of Collozin Lotion (Evant Medical Lid L verpool) Active constituents Zinc.

Hydrox 1 83% Menthol 0 046% Glycerna 5 0% Chlorocresol 0 23% Collyrol Eye Lotion (Savary & Moore Ltd London) Acid. Bonc 0 50 Z nc Sulphite 0 03% a Sodium Chlorode 0 38% Chloroform 003% Geranul

0 027°, Colouring matter 0 83% Preservative q s Aq Dest ad 100% Coluval Eye Lotion (Roberts Chemi ti (Band Street) Ltd London)

Borax 0 6% Boric Acid 0 75% D stilled W tch Hazel 19 0°, and O I of Fennel 0 03%

Comperiourn (Un ted Chemists Associat on Ltd Cheltenham) Ol-consut uents of 6% Flores Hypericum and 0 3% Anchus with Acid Tannie 0 05% in OI Arsch

Condy's Fluid (Savory & Moore Ltd London) Contains approxima ely Twice is volume of available oxygen der ved from the 1°, compounds of manganic and permangan e acids contained by this fluid Sodium Chloride 49 and Sodum N trate (a trace)

⁴⁷ and 300um is trace (a trace) Congreve a Balsaria Ellar (G T Coveres Lid Horihan) Contants queous attracts of Marrub 05%, Thus log Fol 05%, Hystop 025% and Rosemary 0375% together with alcohol (44%) cattract 0 Bals Tollo 27 Feet hour Venuce Turpentine 27 Catch. 25% Guasae. Res. 1%, Coce. 025%, and Scill 057 Ellin Mchohol 27% w/w.

Scill 0.97, Enf) Alconol 27.5% v/v [91] Controller Deep 1 forsitration and a constraint of the state of the

(r) crees inspectial and catarn syrup (1) B Corinnial Lid, Mandady Creesor 0 3120, Letter Actal 0 312%, Codence Phosph. B.P. 0 046°, w/r Cale Lattophosphas 0 625%, Of Ab et 0 155° (Pi) Crees Terpin (Ayrion Saunderi & Co Lid Liverpool) An eliur contannag in seah 00 maginal Doning Mas grain Terpin Hydrate 1/2 grain Greusea 1

in esch ob minimas Donita "ise grann Lerpen Hydrice "i grann Grenova e minima, Pinut Ganidens i Di Grann Crescendo Tonic Syrup (McClaw Young & Co Lid London) Erc. Malu Liq 80 flo zo Ferri et Armono. Cl Vind. 2 lb. 4 oz 200 grann, Copper Sulphate (Pure) 64 grann Calcium Glycerophoiph 7 oz, 874 grann Arus 40 fl oz Bliedkuriant Essence 16 flo z 420 minima Syrup Glucose ta U gallons

Crookes Scalp Lation (The Crockes Laboratories Ltd London). Colloadd Mercury Sulphide (197) 1 9% Sod um Hydroxide 0 07% Sod um Sal chier 1 0% Sodium Thiosaiphate 2 5% Pheneol 0.2% Denvices 0 0 02% (Sur pl ed non-oily and o ly the latter containing L ght L qu d Parafin 10°,)

Croupline Cough Syrup (Roberts' Croupline Ltd Bolton) Active consti tuents The water soluble constituents of Lobel 362% Grindel s 0.36% Anis 0 9% and Tues lagran Foi s 1 06%, together with Ol An s. 0 1%, Acid. Acet 0 24% Sucrose 59 8%

Croupline Pastilles (Roberts Croupline Ltd Bolton) Acti a constituents The water soluble constituents of Lobel 475% An s 1 1% and G ind in 0 46% together at hEat, becate L q 0.05% Inf Sener Cone 022% Ext. Glycyrrin, Luq 1 75% OI Anno 0.03% OI Menth P p 0.03% OI Caryoph 0 04% Oleores Caps e 0 002%

Cupal D Hour Cold and Flu Capsules (Cupal Ltd Blackburn) Each contains Quintue Sulphate I's grain, Menthol Vi grain Acid Acerylaidin) e 2/1 grains Oleores n Capsicum I'gue grain Campion I's grain Cinnamon Oil 1/400 minim

Cupal 10 Hour Flu Mixture (Cupal Ltd Blackburn) Acid Hydrochlor 0 395% Ac d N t. 0 296°, Quana. Hydrochlor 0 016°, Quana Sulph. 0 17% Of Eucalypt. 0 094% Totaquan. 0 078°,

Cupal Insect Bite Cream (Cupal Ltd Bla kburn) Antazol ne 11Cl 2. w/w in a non greasy basis.

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Cupal Menthol and Wintergreen Cream (Cupal Ltd Blackburn) Ol Eucalypt, 1 25% Methyl Salecyl 11 20% Thymol 0 66% Alenthol 0 22°, Phenol 0 37% Campb 0 34% Ol Sanap Vol 0 08% Basis ad 100 00% Pilenor 517 Campil 5 57% Of Shap var 5 60% Saas at 100 00% Hyoscine Hydrobromide 0 005 grain

CurAcho (CurAcho Co Horley) Embrocation containing Camphor 1%

Coll Rotinseria 1% OI Sesseri 15% OI Cample Rett 3% Phenol Lag 08% Acid Acet. Giar 13% of Cample. Rett 3% Phenol Lag 08% Curlconces (Strphen Mathieux & Co Lid London) Capsules and Tablets containing Sulphur Prec p 197 Soda B carbonas 56 Curicifus 35 Guarae Ream 21 Appins 35 Soda Berzosas 1 + Soluble Casein 35 Zingeb Puly 0.7 Lactose ad 100

Curraglen Bronchial Musture (Carter Bros Sh pley) Syr Tolu 12 5% Syr Rhozad 12 5% Ext Ipecae Lag 0 15% Ext. Scill Liq 0 62% Acid

Acet 1 86% Givern, 12 5% Suce Ribs Nig 0 62% London) Each contains [Pi] Cuscutine Lazatuvo Fills (Wikes Jozensk Co Lid London) Each contains Ext Cuscute 0 32 grang Ext. Senary 0 16 grain Dut. Hysocram 0 008 grain Aloun Pur 0 48 gran Excipient 0 632 grain

Cuticura Medicated Liquid (Neubery & Phillips Ltd London) Chlor butanol 0 \$1% Oxyquinol ne Sulphace 0 10% Resorcinol 0 51°, Phenol B P 0 51°, Camphor 0 20% Bone Acid 1 75% Glycerin 6 30% Alcohol 28% by volume.

Cuticura Olntment (Newbery & Pieller Led London) Muneral Oil 28 50°, Petrolatura 50-43% Muneral Wax 18 17% Beeswax 1 94% Pine Oil 0 04% Percentation 30-95% International 10 17% December 1 74% Price Of 00 04% Rose Geranum 0.17% Chlorophyll 0 04% Oxygunoline 0 05% Sulphur Przecip 0 50% Phenol D P 0 16%

Cypholds (Smith Kendon Ltd London) Pellets containing Menthol 1 172°, Ext Glycyrrh, ad 100 00%

Cystex Tablets (Lnox Laboratories Ltd London) Each contains Hezamine 129.5 mg Sodrum Sal cylste 97.2 mg Phenacetin 64.8 mg Benzoic Acid 24 3 mg

DDD Balm (DDD Co Ltd Walford) Active ingredients Thymei 0 99% Menthol 015% Methyl Sal cyl 1 15% Phenol 0 98% Chlorburd 1 11% Hesschlorophane 0 2% Glycenn 8% Resort 0 25% Lanoin 5% Titan ium D oxide 0 5º

Jun D Datas 9.3% D D D Preservision (Extra Strength) (D D D Co. Ltd Batford) Active ingredients Thymol 0.09% Menthol 0.14% Acd Sal cyl 1 84° Resortinol 0.74% Chiorbuthol 1 10° Methyl Sal cyl 0.92% Glycenn 7.72% Phenol Lug 0.28% Alcohol 34.72%

DDD Prescription (Ordinary Strength) (DDD Co Ltd Watford) DDD Prescription (Ordinary Strength) (DDD Co Ltd Watford) Act ve ingrediente Thymol 0 09% Menthol 0 14% Act d. Salecyl 0 75% Resorcinol 0 75% (Chlorbutol 1 13%) Methyl Sal cyl 0 94% Glycenn 7 93% Phenol Lag 0 95% (Alcohol 34 11%)

Dalli Mouthwash Tablets (Arthur II Cox & Co Ltd Brighton) Ol of Peppermant 0 56°, w/ v Methyl Sal cylate 0 02% w/w Thymol 0 23% w/w Ol of Clove 0 33% w/v Oil of Spearmant 0 03% w/w Menthol 0 62% w/w Effervescent Base to 100%

Daisy Powders (J E Ellis Ltd, Harrogate) Acetopheneudin 44 44% Ac. Acetylsal cyl 55 56°

Daisy Powders (Red Label) (J E Ella Ltd Harrogate) Active const tuents Acid Acetylsal cyl 52 25%, Acetophenetadin 30 87%, Caffein, 3 75%, Piperyl p perid ne 0 25%

Daisy Tablets (J E Ell's Ltd Harrogate) Active ingred ents Acctophen etid n 24 98°, Acid Acetylsal cyl 54 16% Caffein 1 67% Piperyl p perid ne 0 17%

[Pi] Dalay (Internat onal Laboratories Ltd Chestin ton) 'Tablets each con ta nung: Ephedrine Hydrochlaride 1/16 grain Acetyln ethyldimethyloxanudo-phenylhydraz ne 1/5 gra n Phenscetin 4 grains, Ext. Hyoscy S cc. B.P 1/16 grain. Damalets (Modkem Ltd Lenesser) Tablets containing Ext. Damiana 1 Ext. hola 1 Fern et Quan, Cat 1 Excep ent q s

Darnianets Tablets (Brook, Parker & Co Ltd, Bradjord) Fern Hypophos. ¹/₁ grain Quin Sulph. ¹/₂ grain, Pule Ext Daman i grain Davalds (Universal Laboratories Ltd, Folkestone) Tablets each containing

Dihydroxy Aluminium Sodium Carbonate 340 mg

Daxaids Instant Dispersal Indigestion Tablets (Universal Laborationet Ltd Folkestone) Each contains Dihydroxy Aluminium Sodium Carbonate

Ltd Folketonej Each constant Dalydroxy Alumnuum Sodumi Carbonate Soing Calcioum Carbonate S00 mg/ De Witt's Antacad Powder (L' C Dal Yau & Co Lul, Crogdon) Vag Trad 100, Mag Carbo Lev 100, Calc, Carb 200 Sod Burzh 48 S Nochn Ler 9 Do Witt's Antacad Powder (L' C Dal Yau & Shoulin Ler Lactos 20 graina

[P1] De Witt's Antibiolic Throat Lozengee (E C De Witt & Co Ltd.

Groydan) Each contains Tyrothrain 125 mg, Benzocaine BP 8 mg De Witt's Kidney and Bladder Pulls (E C De Hurt S. Co Lid Cropton), Each contains Pot Narras 0 05 g Od of Jumper 0 002 g 60° a Alcoholo

Each contains Poi Nitres U vor C un of jumper U vor g Our Anconco Extract of Nuclei (-14) 00 IF picho 001 g; Methylen Blue 001 g; Aqueva Extract of Uva Ura (2-7) 002 g; Ext. Case. Sagr Sice 0015 g Do Wirth 2 Litel Lazativer Pills (E C De IVin t & C Ltd, Condon, Each contains Alone 0125 grann, Ext. Case. Sagr Sice 0125 grann, Phenol Pilhall 0 3 granm, Ext. Gent 0 23 grann.

Degalan Onitment (Chas Zimmemann & Co Lid Greenford) Active ingredient Bacillus Coli Vaccine (132,000 million per ml) 0 5%; in an appropriate fatty base

Degalan Suppositories (Chas Zimmermann & Co Lid Greenford), Be cillus Coli Vaccine (132 000 million per mi) 0 25%, in e polyethylene sircol hese

Dentosine (Cusson, Gerrard & Co Ltd, Oldbury) Mouthwash containing Tannie Acid 2 2%, Phenol 2 2% Glycerin 11% Isopropyl Alcohol 11°, 60% Alcoholic Tincture of Krameria (1 in 5) 7%, Witch Hazel (Distilled Extract) 10%

Dermates Anisseptic Barrier Cream (Wade Pharmaceuticals Ltd Glat-

ore) Contana Chlorosylanol 0 1°. [P1] Dex Pastileis (Megeron & Co Lid, London) Tableta each containing Dextromethorphan Hydrobromude 0 21%, Ephedeure Hydrochlorule 0 21°. Papaverine Hydrochloride 0 04%, and Menthol 0 34% Diadermine (Diadermine Ltd Alperton) Acid. Stear 12 7, Ammon Carb

0 6, Sod Carb 0 5 Givcer 77, Ag Dest ad 100

(PI) Dicey's Drops (Dr Bateman'e) (IF Sutton 3. Co., Enfield) Cavtorwa 0 052%, Camphora 0 416%, Oleum Antss 0 203%, Alcohol (90°,) 12 5° Morphune Anhydrous 0 084% Myr, Caramel 104%, Pot Carb 0 208*, Aqu ad 100%

²⁶ 1007₈₀ (Bosts Fure Drug Co Ltd Nottinghon) Mag Trinl 45 5%, Drid Alum Hydrox Gel 45 5% Light Mag Ozde 50%, Tingb 20%, Rheud 03%, Ext Gent. B PC 1984 028%, Calumb B PC 1984 03%, Exchans Sod 002% Sod Chlor 05% Oles Aromatica 02%, Dinneford's Fure Fluid Magnesia (Rechan Phormacrutical) Ltd. St

Helens) Consists of Liquor Magnesii Bicarbonatia B P 1948, which contains not less than 2 5% of Magnesium Bicarbonate

Diotex Tablets (Knox Laboratories Led, London) Each contains Magnesium Hydroxide 4 400 grains Papsin 1 000 grain, Oil of Cassia 0 050 grain.

Dismenol Tablets (Roberts Chemists (Bond Street) Ltd London) Each con-Lastimenos Lauces (recoras chemisti guorá Sireit) Las Londos Labitomis tans Parasulphantidobencione Acid 00 s.g. Antoprin 0 25 g. Lacios 0 35 g. (PI) Dispello Catarrh Snuff (Ayton Sauders & Co Ltd Latipol) Menthol 2 41, 01 Pini 1 20 01 Euclayte 1 20 Terechene 1 20 Jism Oryati 4 5 Mag Carb Pond 21 77, Perfume 1 20, Ephedrine 1 Rydrochlot 1 0. Ac Boric to 100

Diuronal (Eury) Ltd, Southampton) Piperazine Tartrate 3 321 Piperaine Citrate 2 223, Hexamune 3 500, Lithum Salavjate 0 300 Lithum Benzoate 0 725 Exsiccated Sodium Phosphate 2 325, Effervescent Base q.s. ad 100

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Doan a Backache Kidney Pills (Foster McClellan Products Ltd London) Each contains Aloin 0 01 grain Aqueous Extract of Buchu $(1 = 2^{1/3})$ 0 12 grain Buchu 0 12 grain Ext Gent 0 32 grain Pot. Nitras 0 50 grain Aqueous Extract of Uva Ursi Leaves (1=3 0) 0 60 gram Powdered Uva Ursi Leaves 0 55 grain.

Doan's Outment (Foster McClellan Products Ltd London) Calomel 4 969°, Zinc Oxide 19 875% Yellow Soft Paraffin 67 909°, Phenol I 657% White Beeswax 5 590%

Dodd s Kidney Pills (*Thomas Marns Lid Houndow*) Ext Buchu 0 00324 g Ext. Uww Uras 0 00324 g Ol Juniperts 0 0162 g Sod Bicarb 0 0648 g., Pot. Nit 0 0648 g Sspons 0 0324 g Pod Res 0 00178 g

[P1] Do Do (International Laboratories Ltd Chesington) Tablets each con taunung Ephedrune Hydrochloride 1/2 grain, Caffeine 1/2 grain Acetylmethyl damethylaxamudophenylhydrazue 2/2 grain Dabelia 1/2 grain Theobromine and Calcium Salicylate 1 grain Calcium Gluconate 1 grain Dols' Rub Cream (Dols Volatebus Flannel Ltd London) Active ingred ents

Sodium Iodide 0 45% Thorium Acetylacetonate 0 035% Camphor 0 40% Methyl Sal 9 50% Oleores Caps c 0 075%

Dols' Volatalise Flannel (Dols Volatalise Flannel Ltd London) Flannel impregnated with fluid containing Iodine 1 25% Oleum Gaultheriz 0 13% Tinet of Capsicum 013% Acidum Boricum 20% Thorium Acetylacetonate 0 033%

[FI] Double Three "33 Pile Ointment (W B Carissricht Ltd Ratedon) Adepa Lan 27 00°, Paraff Moll Flav 31 24% Galla 11 75°, Aq Hamam 58% Actd. Bonc 2, 15% Optum Pulverst, B P 191% w/w Mentholl 10% Oil of Origanum 0 39%

(Mich Congatumi C 27%) [11] Dereamin Cream (Modkem Ltd Lencester) Adrenaline BP 1-5000 w/w Ephodrine Hyd BP 1 1000 w/w Dristan Decongestant Tables (International Chemical Co Ltd London) Each contains Acetylssicylic Acid 3 5 grains Phenacet n 1 5 grains Caffeins

Les contains Activitation acts > granm refrecting > frain y and a broadle Gel (Philly) > South & Therese Ld Sorthorn) has been temporating (1) ontain Alum Hydor. Gel 60 granna (equivalent to Dreid Alum, Hydrox Gel 5 grann) Mag Tr al S grans Droxalia Tabless (Philly > South & Therese Ld Sorthorn) Each contains Gelst Aluman Hydor, Sice 2 Sgrann Mag Truly 2 Sgrann

Dury s lafanis' Soothang Mixture (Dury s Piarmaceuncal Lid Newark on Trent) Active ingredients Sod B carb 24/2% Viag Carb Lev 24/2%, Tunct, Zingab Vitt 3% 5p Chlorof 3% Ol Amis 01% "Dusk lassect Barrier (Cupal Ltd Blackburn) Contain Diethyl Toluanade

20%

Eades Anacylrae Oliniment (*George Eade Lid* London) Persif Moll 7009; Persif Dur \$ 50%; Oliniment (*George Eade Lid* London) Persif 1727; Olicores Capa e, 1379; (1911) Eades Rheumanic and Gont Phils (*George Eade Lid* London) Active constituents Ext Colch Sice BP 23%; Aloc 12 59; Guance Res 138%; Colch. Corm Pub U B 723; (Each pill constants Colchecuse BP 00133 gram) Easter Ear-drops (*Earet Lid*, Soud Jord) Avargisia Dulles 330 (Three 1011) Easter Bardong Arachs 77 0 (Avargisia Dulles 330 (Three)

Oil 01 Ol Pers c 17 0 Ol Camph Ess ad 100

[P1] Eczomacide Louon (Halland Harty & Co. London) Mercure V trate 0 5% o Hydroxybenzoie Acid 0 25% o Methan 3-ol 0 12% 3 Viethyl 6 uspropylphenol (thyme) 0 1% Bone Acid 1 5% Oli 6 Sweet Birch 0 1%

itopropriphenol [thymo]] 0 1% Bone Acd 1 3% Uto at baset source 0 * 0 Bernsic Acd 0 35° on in distant Spirit. Educol Tables (*Violerin Health Product Led Chern ration*) Rhubert 55° of Inth Moa 25° Carabert et 35°, Autoched 5° of Apparague 2° Inth Moa 25° Carabert et 35°, Autoched 5° of Apparague 2° Elssio Nature Salvo (*vice En Laboratore Lid Laboratore Solution*-Bessio Nature Salvo (*vice En Laboratore Lid Laboratore Lid Laboratore Colorono Colorono Colorono Lid Laboratore Lid Laboratore Coloro C*

Elasto Tablets (New Era Laboratories Ltd London) Ingredients (stated in terms of homoropathic potency) Calca Phosphas fx Potassi Phosphas 3x, Mag nesu Phosphas 6x Calcu Fluoridum 6x in equal proportions

Elliman s Fibro Cream (Elliman Sons & Co Ltd Slough) Methal. Sal cyl 5 00% Methyl Nicotin 1 00% OI Sinap Vol 0 10°, Ol Catyoph 0 75% Ol Terebinth 14 25% Emollient Cream Base ad 100%

13% Of Account 14 27% Embandent Create Date at 100% Eliman San & Co Ltd Skueph Eliman as Medicated Foot Cream (Eliman San & Co Ltd Skueph Chloroxylenol 10%, Terpaneol 30%, Potassium Hydroxyqunoline Sulphate 2019% D s witch Hazel 10%, Calama 30% Menthel 10%, Cream Base to 1000%

3 U. Mennion i. vo. Cfelin marc to row or a filling as a lower as the second second

Ephedrine Hydrochloride 0 50% Chlorbutol 0 25% Menthal 0 015°, Cam phor 0015% O1 of Eucalyptus 010°, Alcohol 05°, Isotonic Saline to 100%

Endrine Nasal Compound Mild (Jol n Wyeth & Brother Ltd London). Ephedrine 0 5% Camphor 0 3% Eucalyptol 0 5% Ol Riemi 0 35% Light Liquid Paraffin to 100%

Endrine Nasal Compound Ordinary (John Wyeth & Brother Lid London), Ephedrine 0 75% Menthol 0 5% Eucalyptol 0 5% Camphor 0 3% OL Rumi

Episotine 0.73%, Manihal 0.5%, Euclypsol 0.5%, Campoor 0.5%, Oct 1000 0.5%, Lacht Louide Paralia to 100%, should Lid S. Liflero, Sod. Bach. Eppro Foot Powler (S. Tr. Canala, Lid J. S. Liflero, Sod. Bach. Sty 23%, And Teri 43.50%, Sod. Biart, 150%, Sod. Tart, 175%, Eppro Foot Powler (S. Tr. Canala, Lid Landon) Tancersus Formati 6.0%, Subject And 2.0%, Zanc Oracle 15.0%, Niegresum Cathoast Law 8.0%, Zanc Percuks 2.0%, Calciona Iodal 0.2%, Fronty I-Micharab France 9.0%, Sanc Percuks 2.0%, Calciona Iodal 0.2%, Fronty I-Micharab France 0.0%, Sanc Percuks 2.0%, Calciona Iodal 0.2%, Fronty I-Micharab France 0.0%, Sanc Percuks 2.0%, Calciona Iodal 0.2%, Sancy I-Micharab France 0.0%, Sance Percuks 2.0%, Calciona Iodal 0.2%, Sancy I-Micharab France 0.0%, Sance Percuks 2.0%, Calciona Iodal 0.2%, Sancy I-Micharab France 0.0%, Sance Percuks 2.0%, Calciona Iodal 0.2%, Sancy I-Micharab France Octome Carbonaste 1.0%, school 0.7%, Sangereum, Calcionate 8.0%, Sance Alexer, Carbonaste 8.0%, Sance Jankar, Sance 8.0%, Sance 8.0%, Sance 8.0%, Sance Percuks 8.0%, Sance 8.0\%, Sance

Calcium Carbonate 1 04 g Asolin 0 78 g Magnesium Carbonate 0 39 g Sodium Bicarbonate 0 19 g Potassium B carbonate 0 06 g B imuth 90 carbonate 0 13 g Oil of Peppermint 0 0076 ml Solibble Saccharn 0 65 mg

Carly Tarson 1.1 & Son 2.1 reportantly Joing million Continue Sociality and Control Control

Compared 2 or massain out of Aromatic U to the Frainning Level and the [Pist] Ergoapol (Theor Christy & C.S. Lid, Aldericho, Capsole ard contaunag: Ergot Fragmarks BP 1 gram Oil of Penpropal V₆ main m Apol USP N (Irren's Eminima Anone V₆ gram Castor Oil) a Euphanal (Christe Gerrend & C.S. Lid. Oldbury) Caffan BP 223. Ammonium Induct & Strik, Dec Coff Freep BP C 119/2002.

Evalert Energy Tablets (International Laboratories Ltd Chesungton) Caffe ne 1 grain Vitamin B 1 mg Destrose Monohydrate 31/4 grains Amylum 1/4 gram

Evans Antiseptic Throat Pastilles (Evant Medical Ltd Laverpool) Men thol 0 201% Terebene 0 419% Eucalyptol 0 035% Pepperm at O 10 017%, Potassuum Chlorate 1 61% Sodium Chlorate 1 61% Borax 1 61%, Laquorate Extract 3 87%

Everest Sting Relief Lotion (United Chemists Assoc at on Ltd Clellenham) Active ingredients Phenoxyethyl Alcohol 0 5% Magnes Hydrox. 41%

Menthol 0 23° OI Citronell 0 23% Everymans Universal Embrocation (Brook Parker & Co Lid Brallard). Active ingredients Ammon Chlor 1 25°, Sapa Moll s 7 54% OL Tereb ath 25%

Exalagar (Pinkerton Gibson & Co Ltd Edinburgh) Paraff Liq Alb. 50 parts Gum 1 75 parts Sod Benz. 0 2 part Phenolphthalem 1 37 parts Agaragar 0 28 part Flavouring 5 4 parts Aqua ad 100 parts.

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Examone Cream (Alled Laboratores Ltd, London). Orthobenzylpara chlorphenol 0 66 mg T tanum Dioxide 2 0 g Z ne Oxide 10 0 g Ag Hamam elds50 ml in 100 g

Ex Lax (Ex Lax Ltd Slough) Chocolate 92% Phenolphthalein 8%

Ex Lax, Junior (Ex Lax Ltd Slough) Chocolate 96% I henolphthale n 40,

[Pi] Exogen Tablets (McClure Young & Co Ltd London) Each tablet of 11 8 grains contains Acid Acetylasher) 32 63% Codeine Alk 0 99% Phens

cetta 32 68% Exc pient ad 100 00 Eyetono (Un ied Chemuit Association Lid Cheltenham) Boracic Acid 20 Sodium Borate 0 5 Methyl Hydroxybenz 0 025 Propyl Hydroxybenz 0 0125 Lig Hamam, Dest 50 Colour a trace Agua Dest to 1000

Faivro (Dr.) Cachets (W loss Jozean & Co Ltd, London) Each contains Orvounotheme 0 065 g Phenazone 0 228 g Acetophenetidin 0 260 g Mag

nes a 0 097 g Falconer's Golden Compound (Thomas Marns Ltd Houndow) Sap Falloader & Olletz Company Constraint formation and company of the company of the

incredients per 8 or Photocome 14 mg Pepverne II's Petrolal Active Branch Pastilles (Keldon Ltd, Peruch) Each contains Creoot, 012 munn Ol Limon, 04 munn Ol Channon 009 manum, Menthol 0126 gran [20] Famel Syrup (Action Ltd Peruch) Active continuents by we ght. Creosote 0 26% Calcium Lactophosphate 0 125% Codeine BP C, 1954 0 023% Tinet Acoust 0 55% Syrup 90%, Fam Lax Family Laxative Tablets (Roberts Croupline Ltd Bolton) Each

Tam Lat ramity Catalive isobers (room croupue 1.4 Botton) kach cont no. Phenolohubal 2 grans Rhee Public 0.44 gran. Febs (Bootr Pure Drug Co Lid Noti ngham) Tablets each conts nung Paracetamol 250 mg. Ascorb e Acid 50 mg Caffent 30 mg Quante B sul Pate 10 mg. Phenylephane Hydrochlonde 5 mg.

Feen a munt Laxative (Wh te Laboratories Ltd London) Chening gum tab

Feed a music Latsitive (in the Loboratories Led London) Cherning guint to less each oncise using Phenolophickelon 00722 (1998) (1998

0.763 g Phenacetan 0 097 g Caffeine 0 100 g Compound of Phenazone 0 013 g and lodane 0-012 g Ext. Grandel L q BP C. 1949 0 003 g 50°, Alcohol Extract of Viscum (10-1) 0 002 g (equivalent to Ext. Visca B P C 1923)

Fennings Adult Cooling Fowders (John Sanger & Son: Lancing) Each 3 grain powder contains Calc. Phospil. 9°, Lactos. 14°, Glycytrh. 14% Phenacet 42°, Mag Oxid Pond 21°,

Plenaer 429 Mig Ond Fond 21° Fennings Children & Coding Forders (John Sanger & Son Lancing) Bech 3 gran punder contains Mig Cath Pond. 10°, 50°, 50°, 50°, 52°, Fennings Cough Mitture (John Sanger & Son Lancing), Active con stutuent Fot, Brem 39°, Ext. Becset, Let 0 23°, Success 661°, Laq Tolu, 19°, 61°, 50°, Acad Act D 1 34°, 58°, 58°, Lancing N, Active con stutuent Fot, Brem 39°, Ext. Becset, Let 0 23°, Success 661°, Laq Tolu, 19°, 61°, 50°, Acad Act D 1 34°, 58°, 58°, Lancing N, Active con cut 13°, 61°, 50°, Acad Act D 1 34°, 58°, 58°, Lancing N, Active con Coll's wir Academ Menther Perints 00035°, vir Sangus Discon 5 001°, wir Acade 4100 Fenning Ladgestion Tables (John Sanger & Son Lancing) Each con Eaco ento' in Sgraus Mag Carb Fend Ja gran, Ol Menh, P parafi

Exc p ent q a

Fennings Little Healer Tablets (John Sanger & Sons Lancing) P Scill 1/e gran, P Ipecac, 1/s grain P Elecampane 1/a grain, Conf Ros, Can 1/a gran Lactos, /4 gran Fenninga Little Healers (John Sanger & Sons Lancing) Inecac, 90%

Conf Ros Can 10%

Fennings Ointment (Join Sanger & Sons Loncing) Zinc Oxide 4" Fennings, Ointment (Jehn Samer & Sone Lowenty) Zine Onus et al. Charme 2%, Dirord Accette 1%, Adops Lan 66, Lan Pice Carbons 6%, Fennings 100, Farail Dur 12°, Farail Null to 100°, Fennings Thermacht Dables (Jehn Samer & Son La carg) Sodai Sd para sa Thermacht I gran Alan 1/2 grans Exception 2 to 6 gran - Jehnnings Subjert Powders (Jeh Samer K Son La carg) Lacta, 33

Sulphur Prac p 67%

Fernico Tablets (Cupal Ltd Blackburn) Each contains Ferrous Gluconate 200 mg Copper Gluconate 1 2 mg Nicot namide 3 0 mg Vitamin Bi 0 166 mg Vitamin C 5 0 mg Caffeine 10 mg Vitamin B, 0 166 mg

^{ng} Vitamin C S 0 ng Cilleane 10 ng Vitamin 15 0 100 ng Peroglen Artery Tablets (Carter Bros SI pley) Chlorophyll 10°, Fert Phos 0 8°, Calc Phos 6 0%, Sucros to 100% Ferrolane (Ayton Saunders S. Co Lid Literpool) Ferr Glycerophysh, Saunders S. Co Lid Literpool) Ferr Glycerophysh

3 0 Cale Glycerophosph 3 5 Pot Glycerophosph 0 25 Sod Glycerophosph. 0 25 Acid Glycerophosph 0 04 Glyceron 25 0 Sacch Alb 50 0 Flavouring and Colour q s Aqua ad 100

Ferute Cough Syrup (Hough Hoseason & Co Ltd Manchester) Active constituents Ext Scill Lag 0 21° Ext Incese Lag 0 04% Glycer 17 50° Lig Tolu 3 03%

Fibrosine Balin (International Chemical Co. Ltd. London) Active ingredient, Methyl Nicohnate 1% Glycol Salicylate 5% Histamine Dihydrochlonde 0 05°, Capaicin 0 12%

Fiery Jack Rubbing Ointment (F)Ide Laboratories Ltd Preston) Iodum 0 28 Oi Arach. 0 72 Capsteurn 20 Adeps 8 Parsff Dur 8 Paraff Moli Flav ad 100

Egine Compound Syrup of Figs (Boots Pure Drug Co. Lid. Ast refere). 55% sloch ext from Sonas Frust 15%, sq. ext from Fig 11%. Extended Vial 26% Oil of Clave 002 ~ 010 Feperimum 0030%, Benave And 02. Flowerdells: Worm Treatment Tablets (Flowriddi Lid London) bod Pooph 02%, 43%, slochot carracture from Fopulus Treamlo des 30° and Dooph 02%, 43%, slochot carracture form fopulus Treamlo des 30° and Dooph 02%, 43%, slochot carracture form fopulus Treamlo des 30° and Dooph 02%, 43%, slochot carracture form fopulus Treamlo des 30° and Dooph 02%, 43%, slochot carracture form fopulus Treamlo des 30° and Dooph 02%, 43%, slochot carracture form fopulus Treamlo des 30° and Dooph 02%, 43%, slochot carracture form form form form form form form for the form of the

aqueous extractive from Artemisia Abro 1 0%

Aqueoui extractive irom Artemusa Abro 10% Fogyl Fasilles (Spencer & Ca. London) Bencannozal (Bentosic of Sod um 46 Cinnamace of Sodium 50) 0025 g. Perborate of Sodium 0 0025 g. L elly-to 0 001 g. Matchiol 0 001 g. Mikroj (Essence de Vielenca Ninhillon) 0 001 g. Sugar and Gam Arabic q.s. ior 1 pasaile. (Pil) Folks Fastilles (Sm the Kendon III London) Contain Pholeodine BPC.

0 106% w/w

Foot Ease Antiseptic Powder (Weylesworth Ltd Westhougl ton) Iless chlorophane 0 5% Borse Acid 3 0% Calcium Carbonate 12 0% Cetostean Alcohol 0 5%

Alcohol 0 3% Forbes Influenza and Fever Mixture (Brook Parler & Co Lil B D ford) Yun Ipecca: 7 ptp For Narra & ptu Sodu Natras & ptu Neil, N The Spec Emulao Chinof 3 pte A Menth P of Jish Ad One-Lech contan-Parlormaldrhyde¹, pte n Hencocane ¹/grann, Colden Parlormaldrhyde¹, pte n Hencocane ¹/grann, Colden Fortunia 21 (Beed and Plermoer tech Lid St Helen) Granule contant & n each veroiteous ounce Method¹/de grann Colonna Nature 9 Lenna Essence 8 munma Catra & c1 & grann Colonna Nature 9 Lenna Reserve 8 munma Catra & c1 & grann Colonna Nature 9 Nature 10, 11 mg R bollarme 2 mg Notance Acad 19 sus geleard

Iron 10 9 mg Calcum 675 mg [rij] Frank s (Dr.) Skin Omiment (IV3 less Ltd Country)] araff M lir 70 20 Lanolin Anhyd 18 60 Leq Picis Carb 7 95 11) drarg Ammon 165 Terpured 1 60

Freezone (International Clemical Co Ltd London) Pyroxylin 1 43 Indu-trial Methylated Spint 22 20 Sandarac 2 50 Castor O 1 3 78 Z ne Chl (de 2 36 Hypophosphorous Acid D 03 Colour 0 07 Sal cyl a Acid 14 41 Acetone

[P1] Fruitgar Asthrma and Bronchial Tablets (Cupal Ltd Riarkbard) Each contains Phenolphthal 0 04 gran Cale, Glucon 1 04 grans 01 Menth Pp 0,004 minum Theobrom n 0 368 gram Ephed Hydrochior 0 24 gran Phenylsemicarbaz de 0 368 grain Bas s q s

Fruhgar Garlie Mixture (Cupal Ltd Blackburn) Sod Benz 0 1 Chlorof Pringar Garde Anxier (Chead La material) Soi here 0 1 Crucion 0 5 Por 160 109 Ext Cheyrth 0 24 Ext. Soull Leg 0 25 Ext. Iprese. Leg 0 25 01 Alla 0 608 01 Vienth Pp 0 62 Basis ad 100 Frutabax (Brook, Parker & Co Lad Bradford) Tablets each containing Phenolphthalein 2 grains P Acid Tart, ¹/19 grain Pot Tart Acid 1 grain

Filehophthatin & gauss Saccharum Alb Flasouring and Eccipient q's Fuller Brand Celery Perles (Simpion Laborator e Weatel ff on Sea) The aqueous extractives from Celery Seed 2 5 gnuine Buchu "Ju, gran and Cmu

auerous extractores from Cetery feest 25 grains buccion 716 grain and Crim cings 716 grain, Genetier with Phenophethean 12 grain, Solum Sakopiter trunic Vaporssing Rub (Carter Dras Sh Aley) Campba 6 15°, Menthol 100% Menthol (Synth J) 100% (OI Terebuth 50%) OI Cart Fol 0 27%, OI Nyrstuc 0 27%, OI Thorms 6 72%, Olcoces Caps c 0 5% Bals Peru 02% Constant 0 01% Anse to 100%.

Fumora Ephedrane Cigarettes (Hegelencorth Ltd Westheughton) O1 of Eucalyptus 0.62% Caffine 1.97% lotassum Nutrate 1.79% Dienthol 0.45% (Ja Genarum 23%) Ephedrane Hydrochloride 0.85% Stramonium Rose Petals 13 35% Peppermunt Herbs 17 84% Thyme Herbs 44 64% 17 84% Ol of Juniper 0 60%

Franon Salt (Beecham Pharmaceuticals Ltd St Heleni) Sodium Sulphate 95 96°, Sodium Bearbonate 1 95°, Potassium Sulphate 2 05% Lumum Sulphate 0 033%, and traces of Iron and Sodium Chloride,

G.S. Tablets (Restminiter Laboratories Ltd London) Sodi; Sulphas Exsie

based of the second second

[F1] Gacovin (Rouse of Sigmore Street Ltd London) Each fluid drachm conta na Sod Giycerophorph $^{1}_{1}$ graun, Pot Giycerophorph $^{1}_{1}$ graun Strych B P $^{-1}_{2}$ Jog graun Vin Xeric, D F C (1934 30 mmms)

Galibyl Tablets (Axa Ltd London) Sod Tsuroglycocholate 25 00 Aloun 3 125 Exceptent ad 100 00

3 125 Excaptents 4 100 00 Galleways Baby Coult 2: Glanot, I Lef Southampson). Active in Galleways Baby Coult 2: Glanot, Pur 1 32%, Acta Logho, 010%, Dil Acet, Acid 0 024%, OI Ginam 0 0021%, Tolia Syr 20 6%, Syr Sell 100% Glycera 100%, pix Galloways Could Syrray Gang L Lef Southampson, Accur pareticates Calloways Could Syrray Gang L Lef Southampson, Accur pareticates Calloways Could Syrray Gang L Lef Southampson, Accur pareticates Calloways Could Syrray Gang L Lef Southampson, Accur pareticates Calloways Could Syrray Gang Could Syr 200%, Southampson, Accur Southampson, Carlo Pearles (Hoffer Carates Food Lef London). Capules conts ung Olem Alla Swird OG Oleman Aresians at 100 Min Charles Character Southampson, Cara Caratas Southampson, Caratas Southampson, Caratas Southampson, Caratas Caratas Southampson, Caratas Southampson, Caratas Caratas Southampson, Caratas Caratas Southampson, Car

Garlodex Garlie Plus Remedy (Modern Health Products Ltd Chess ngton) Tablets each containing Of Garl c 6 625 minute Of Aniseed 0.01 minute Marshmallow Root 2 grains Thymol 0 007 grain Activated Charcoal 0 4 grain, Chlorophyll 0 2 grsin.

Campby 10.2 gram. [Pi] Geops Pastilles (Smith Kendon Ltd London) Mel Depur 17 14% Campb 0-089 Tolu Bals 0-28%, Acet Acut 2 14%, Benzone Acut 0 16% Ol Anus, 0.07%, Ext Scill Liq 125%, Opum Tinet, B P 1 25%, Tinet Chlorof et Morph B.P.C. 1 09%, Acut Cannan 0 D5% (w/w)

Consist of Margin Lie C. 10%, Acid Contain 0.0% (CM) Genatics and Skin Bar (Grandson Inf Longberough). Sodium Salis of Sul phated Fatty Alcohols (C₂-C₂) 78% Georges 6 Gravel Fills (Graves Fills Led Llanelly) P Podoph Res 0.1 P Gnares 3.2, P Genoboge 1.2 P Jahpa 96, P Coloc Pulp 0.4 Sod Carb K., J 2 P Signoni 14 9 P Alcos Barb 34 Vol Jun per 0.06 Hicksame 0.02 Costing to 100

George a Pile and Gravel Pills (George's Pills Ltd Llanelly) P Podoph Res 0 2 P Ginger 3 2 P Gambage 3 2 P Jalapa 96 1 Coloc Pulp 06, P Sapons 12 8 P Aloce Barb 38 4 OI Wenth Frp 0-03 Ext Cascara 0 6 P Ipecae 0.3 Hexamine 0.03 Costing to 100

George s Pills for the Piles (George s Pills Ltd Llanelly) P Podoph, Rts.

George s Puis for the rules (verge s rule ids Lineit)) = rooman ma 0.2 Poinger 2.1 Pointhoge 107 P Jappe 96 P Colco 203 P Abee Barb 38 + P Sanona 128 OI Carau 007 Costang to 100 Germolen of Bacha a P Armaneter dei Ld 58 Lidom) Adept Lane 10 00°, Indi Null + 100°, Anylum 10 19% Zanc Oxide 5 6% Ethil Sil chief 10% Chicorostenal 0 05°, Phenol 119°, Munthol 0012% (Nub Scritte n 004°.

Germolouds Suppositories (Electham Pharmaceut cals Ltd St Helen) Zane Orad 12 56%, Ediyl Salicylate 2 83%, Resorein 2 17%, B sin Osychler 1 11%, Rub Scarlat 0 007%, Geresan 11 11%, Cetze, 7 7%, in an emoll est base

Gestona Tablets (Warnet Bradlers Ltd Cotentry) B sm Carb, 0 9% Heavy Mag Carb 50% Sod B carb 3 5% Calc Carb 32 0% Prepar 0 00% Pranctraam 0 0.0% Ether 0 2% Capsein 0 004% Chilorof 0 2% ru Lavender and Peppermint flavoured

Gilbert's Gripo Syrup (Brook Parker & Co Ltd Bradford) Ol Aneth. 0 5 minum Sod B carb 20 grains Spiritus Reculicatus 110 minums Syrupus 9 5 drachms Aqua 3 fluid ounces

Gilbert & Little Liver Pills (Brook Parker & Co Ltd Bradford) I odoph. Res 0 0625 grain Aloes 0 25 grain Gly cyrrh 0 00238 grain Acacas 0.006 grain

Gilley s (Dr.) Herbal Laxative (Gilley & Laborator es Ltd Yeker m) Rhamnus Frangula 17 Cassia Acutifolia 60 Plantago Ispaghula 12, Fon culun 10. Glycyrrhizæ Pulyas J

10. Outperfinance (1997) Acta e senered ent T net. Inseta, 0.0%, Act result (77); Eref (10) Propreman 10%; Lables 12.5% Elder Fre ers 12.5%, Bryberry 15%, Canam, 6%, Henlock Sprue 3%, Cept. 15%, and Choras 25%, not in 65 Senere Conc. 0.6%, Glackerry Strength Tables (Carter Boy Schedu) Ext. Danama 15 surgers Ext. Kolas I stank. Ers. Switcherto 2.5; help) Ext. Danama 15 surgers Ext. Kolas I stank. Ers. Switcherto 2.5; help)

Glenol Rubbing Oils (Carter Bros Shipley) Active constituents. OL Cajuput Ol Caryoph Ol Eucalypt, Methyl Salicyl as 1 25°, Can ph

5% Capsie 0.5% Glickon s Salve (W Loching & Son, Leedi) OL Rap: (Brained camps 'm) 33 % Cera Flav 33 3%. Colophonum (Prinis paluitri) 20 0% Zinci Ox dum 13 4%

dum 13 45%. Ginteel Louan (1) Relevent Ltd Watherstion Ard Arc, Glu 1 20 Acd, Tuna 4 70% 51% France 52% of Comm. 51% Acd Arc, Glu 1 20 Acd, Tuna 4 70% 51% France 52% of Comm. 51% Acd Arc, Glu 1 20 Ginteel Metalensies Sharmoo III gelenerit Ld Heitowellon y a Alaji Suphate (6% exrep 42.2%, Farry Acd Dataolan 4.3 50 Call Tac Sciouco Richt) 13% of 00% Acoholic Tincure of Armon Constructed Tacking of Common 10% (1)% (Haylessona0.0 Ginteel Saive for Soro Gunas (W referente Ltd Heitowellon) Ginteel Saive for Soro Gunas (W referente Ltd Heitowellon) Ginteel Saive for Soro Gunas (W referente Ltd Heitowellon) (1) Glussia (Ldeugh Honzarek Co Ltd, Mancheirry Conta an esh heitowellon 0) 145 grann L a Sod Glusterophesh 1000 grann L a Dot Glusterophesh 0) 145 grann L a Sod Glusterophesh 1000 grann L a Dot Glusterophesh 0) 145 grann L a Sod Glusterophesh 2000 grans Conta and Common 0) 145 grann L a Sod Glusterophesh 2000 grans Conta and Common 0) 145 grann L a Sod Glusterophesh 2000 grans Conta and Common 0) 145 grann L a Sod Glusterophesh 2000 grans Conta and Common 0) 145 grann L a Sod Glusterophesh 2000 grans Conta and Conta and Common 0) 145 grann L a Sod Glusterophesh 2000 grans Conta and Common 0) 145 grann L a Sod Glusterophesh 2000 grans Conta and Common 0) 145 grann L a Sod Glusterophesh 2000 grans Conta and Common 0) 145 grann Conta and Sod and Conta and Sod Conta Sod 0 143 cram

0 H4 gran Giyco Thymelme (Ther Charty & Co Ltd Alderiei) Soli un liquer 2 084°, Sol Benz 2084°, Giychen 17 Sol Sai cyl 001°, Sol Benk 2084°, Sol Benz 2084°, Giychen 17 Sol, Ol Pin Luni 044°, Caugutol 0 085°, Ol Benlie 044°, Alcohol 385°, Golden Ear Dorgo (II relaverat Lul I entowycho) Ol Campia Rec 15 0%, Beachy 75°, Ol Myrat 04%, Terp ned 20°, Client 15° Archard Uren Hires wook Co, La Landand Theirs each conta Infa Ac

Gon (Ward Blenk nsop & Co Ltd London) Tablets each conts ning Ace

Goin (1) and have not namede 50 mg. menaphthone 10 mg. N cot namede 50 mg. Gonne Paun Relieving Balm (G R Lane Glowr ter). Act c ingreuter Gonne Paun Relieving Balm (G R Lane Glowr ter). Act c ingreuter Menthol 10% Camphon 2% 01 of Cupput 2.5% 01 of Lucapput 2.5% O I of Turpenune 8°, Methyl Sakeylate 10°, OI Sinap Lapress, 0 2 .

[91] Gould & Black Cherry Lancias (Workswork) Led. Wathowshow) Syr Pann. Sects B C. 16 60°, 90°, Ext. Soll La O 15°, Ext. Ipscace Laq 0.08°, Bais Tois. 0.6°, Acid Cri 0.50°, Acid Benz 0.1°%, Acid. Ascorb 0.03% Mol Depus 12.50°, Glycer 4 40%, Success 0.00%, Gould a Family Laxatives (Werglemowth Lid, Wethoughton) Tablets containing Phenolphtukan 22.22%, Chocolast Baye 77.7%,

Gould's Gripe Mixture (Wigglessporth Ltd Westhoughton) Active consti tuents Ol Aneth, 0 035% Ol Ania 0 055% Sodu Bicarbonas 0 89% Syrupus 26 50% Aq Chlorof 44 0% Gould a Liver Salt (Wigglemonth Ltd Westhoughton) Acid Tart 17 5°,

So Biera's 175% Mag Subh Exter 15 0% Refined Sugar 50 0% Gould's Zinc, Starch and Baraene Powder (Wigglemonth Lid West houghton) Zinc Oxide 2 5% Storch 10 0% Bone Acid 5 0% Sternheed Tale to 100% Perfume q s

Grasshopper Outment (Grasshopper Ltd London) Resins 31 68 Cera Flav 7 94 Oleoresina Laricia 23 74 Of Arachas 15 84 Paraff Moll Alb 19 81, Cupra Acetas 0 99

Grasshopper Pills (Grasslopper Ltd London) Aloe Pulv 25 0 Dried Extract of Taraxacum (1-8) 12 S Capsic, Pulv 9 4 Aqueous Extract of Anthemis (1-5) 12 5 Jslap Pulv 20 0 Jalap Res 17 5 Podoph Res 3 1

Gratton's Embrocation (Boots Pure Drug Co Ltd Nottingham) Acid Acet

Grae 50% Camph 0.8% Of Terchini 400% Greenfield a (Dr.) Whooping Cough Mixture (Wyleys Lid Coventry) Syr Rubi Jdau 25000% Syr Sull 25000% Thete Cardam Co 2085% Acid Nitt 0.300% Chlorolornum 0.214% Of Thymi 0.0013% Aq Des tiliata ad 100%

Gumter (Dalmas Ltd Lecester) 100 g contains alcohol 250, extract from Salvis 10 g aqueous extracts from Junaper Betraet 19 g and Chamonule Flowers 4 g with Oil of Chamomile 0 008 g Colloidal Silver 0 345 g

crowser + g win Old Chancemie UWgg Collocal biver 0.345 g Gwy 8 Farul This (Gory 1 Faru Lid, Leid) Esch contains Zamp 0.03 Jean Res 0.46 grain Ol Cart 0.06 gran habe 0.25 gran Also 0.46 grain Guya Tonue (Goy 1 Tonc Lid Leid) Contains Rada 0.178 Auranit Certex Recens 0.657 Cardamona Senua 0.023 Acadum (Direcephonphari Choorigna, 35 Acadum Phonphonoum 0.033 Acadum (Direcephonphari Choorigna, 35 Acadum Phonphonoum 0.033) cum 0 033 Acidum Nitricum 0 123 Acidum Hydrochloricum 0 164 Aqua ad 100.0

Guy s Tonic Pastilles (Guy s Tome Ltd Leeds) Extractum Gentians 5 38 Chlorof 1 79 Acidum Phosphoneum 0 74 Acidum Glycerophosphon um 0 74 Acidum Nitscum 0 022 Acidum Hydrochlorucum 0 027 Oleum

Limons 0 de Oleun Cardanom 0 di Massa ad 100 0 Gynopax Tablets (Caxson Gerard & Co Ltd Oldbur) Each contains Acid Acettyisalisyl, 2 75 grans Caffeine 0 25 grans, Acetophenendin 2 grans Quinin Sulph, 01 gran

Hacks (White Hudson & Co Ltd Southport) Active consultants Menthol 0 18°, Ol Anis 0 11% Ol Eucalyp 0 15% Lag Tolu 0 02% Fat Tussilar 9 008% Ext Marrub 0 03°, Tinct Benzo'n Co 0 02°, Tinct Seill 0 02% Sucros 63 7° Glucos Liq 31 9° Harmatone (Ayrion Saunders & Co Lid Liverpool) Each tablespoonful

is equivalent to Fresh Liver 1 oz Fern et Ammon Cit. 10 graina Cunri Sulph 1 n STAIN

[16] Harmovin Paio Olintment (Moore Medicanol Products Lid London) Menthol 30% Chipl Annuoberazate 50% w/w in a bland emoliant base Hair s (10) Arthma Hernedy (Dr Harr Prophenant Lid Stanet) Sodu Benzosa 2 623 Potassa Iodaham 5 5 Sodu Iodaham 0 3 Chloroform 0 45 Spanna Franco 7, 45 Fix Legunda 20 10 Aqua Deciliate ad 100

Hair a (Dr) Liver Pilla (Dr Har's Proprietariet Lid, Staines) Podophylli Resina 1/8 grain Sapo Durus Pulv 1/16 grain Giyeyrth Za Rad 1/16 grain, Glucosi 1 iq 1/s grain

Halautant (Airton Saunders & Co Ltd. Laterpool) Each fl oz. contains Vitamin A 20 000 au Vitam n D 3000 i u Vitamin C 30 mg

Hall's Wine (Stephen Smith & Co Ltd Landon) Finest Australian Wine Hall s Wino (Steppen Smith & Co Life London) Firest unstrainn une with the addition of Anceurne Hydrochlonde 0 0012°, Rubofavnen 0 001°, Niacin 0 014%, Potassuum Iodide 0 00014%, Each fl oz, containan not less tha Vitamin B, 0 3 mg. Vitamin B, 0 55 mg. Niacin 3 6 mg. Iodino 30 ng Halmagon, (Halmagon Sales Life Croydon), Tablest each containant Halmagon, (Halmagon Sales Life Croydon), Tablest each containant

Magnesu Chloridi 0 431 g Magnesu Bromidi 0 00868 g Magnesu Iodah 0 00003 g Magnetii Fluoridi 0 00009 g Excrpient q i ad 0 45 g Halvitex (Wright Layman & Umney Ltd Landon) Halibut Liver Od 10

minims Ascorbic Acid 40 mg Calcium Gluconate 20 grains, Flavour and Emulgents Vehicula to 1 fl oz

(Pi) Happy Journey Tablets (Wigglesworth Ltd Westhoughton) Each contains Hyoscine Hydrobromide 0 005 grain

Harley's Three Salts (Thomas Harley Ltd Perth) Nag Sulph. 58 56% Mag Sulph Exac 4 46% Sod Sulph 20 98% Sod Sulph Exac. 13 28% Pot Tart Aetd 1 70%, fused equal parts of Pet Nitras and Sulphur 1% Pot [P2] Healo Skin Ointment (Cusson Gerrard & Co Ltd Oldbury) Calaniae

4 534 Phenol 4 14 Borse Acid 4 534 Zine Oxide 4 534 Adeps Lang Anbyd. 26 54 Zinc Oleostear 1 49 Paraff Moll 53 09 Vanilin 0 138

20 37 June Gleoticat + 7 farm noi 33 07 vanim u zo Heath & Heather * No Mó2 Asthma and Bronchuis Mirture (Iliud & Healler Lid Si Alboni) Tinct Cubeb 2°, Tinct Serge 2 5% That Lobel Sump 5% Ext Gleverth Lug 2% Acct Sall 2°, by And 0°, Gl Piment a trace Syr Tola 10% aqueous extracts from Plenny Rok Euphorbus Sullings: Horebound and Suddrey of est 1°.

Fight & Heather in the and subject of the from the set of the fight of the set of the se Gilead Buds 5%

Gliesd Buds 5% Hoadh & Heather s No 293 Balm of Gilead Cough Pasillies, Versan Seilles 144% (Thori Lobel Acid 0 70% Ext. Glyprint 0 85% Of Black Hoadh & Heather States 100% (States 100%) (States 100%) (Heath & Heather s No 233 Catarch Pasillies Crooses 0.3 Olean Aci Heath & Heather s No 233 Catarch Pasilles Crooses 0.3 Olean Aci Heath & Heather s No 243 Catarch Pasilles Crooses 0.3 Olean Aci Heath & Heather s No 243 Cought (States 10) (States 10) Heath & Heather s No 243 Cought (States 10) (States 10) Heath & Heather s No 244 Fuel Couliment Cought (States 10) Heath & Heather s No 244 Fuel Couliment Cought (States 10) Heath & Heather s No 244 Fuel Couliment Cought (States 10) Heath & Heather s No 244 Fuel Couliment Cought (States 10) Heather & Heather s No 244 Fuel Couliment Cought (States 10)

Pilewort 30% has been d gested

Heath & Heather's No 147A Rheumatic Baim Tereb Venet. Fact (containing Colophony 62 4/% OI Lini 22 3/% OI Tereb 15° 6) 7 3/8° 01 Sassafra 3% OI Camph Eas 5° Base ad 100%

Heath & Heather s No 123 Rheumatism and Gout Pills. Guane Re

Heatin & Heaturer a vo. 123 the elemenatism and Goul Pulls. Utility & (4) grain Est. Rib Sice Ja, grain Capter, Cil, grain Cat. Ind. (Ale 204) 1=4)¹/₄ grain Est. Urw Urss (An 2=3)¹/₄ grain Heath & Heathers No O'A24 White Excerna Olniment Lea dur. Olest BP 1948 20%, Zure Oxide 3 30%, And Salevi 0 23%, And Alb ad 100%

Alb ad 100% Hewlett & Antiseptic Cream (Abtor Herkett Lid 11 adford) Zunc. Oxid-8% Zinc Olcostet 1%, Acris Boric 6% Adeps Len Highersun 4* Hewlett 5 rechang felly (Area Henkett Lid Walford) Port C. 2 1%. Giveen 30 0%. Otto of Roce 0 12% Hi G Ah (17) Derran Lambah Consud 3 5 Chelone Gibber 7 Caus Actuation 44 5 Fennes 3 Herory 7 His 9, Ann 1 5 (Otyerth 15 Secont 1) Hill & Bronchal Bakaron Hills Pharmanularist, 114 kaland) Att 6 Higher 10 Cause 100 (1990)

15 Tructum Repens 20 5 Hystop 2 (9) Hull a Smochal Balsam (Hul Pharmacessical L1 Arlan) Acts constituents Co Benz Tract. 6 25% Ammonyam Acetate 3.6 You Tru 0.30% // OI Alent Pp 0.02% Truct Careto 2.10 Vol. 10 Acetate 0.05% w// Acetatum Schlie 6 25% OI Ann 6 0.5% (vol Acet Gu 2% 600 Alencholic Tructure of Lobels at Mun 9 Jonescentral U.I. Vol. Hulls Bronchall Balsam Paulities Of Promescentral U.I. Vol. Active appredicatic Co Benz Truct 979% Oleores Capaic 0.101% ().

Menth, Pip 0.04% Chlorof 0.99% Ext Scill Lig 1.26% Ol Anis 0.84%, 60% Alcoholic Tinct, Lobelia (1 m 8) 2 50% Menthol 0 11%

Oury, Alconomic 1 not. Lobeth (1 to 9) 2 20%, Menthol 0 11%, Ehll s Junor Baisan (Hill Themanesentod Ld Nelson) Active ingredients Ehll s Junor Baisan (Hill Themanesentod Ld Nelson) Active ingredients Collect Three Jack Andrew Park, Jack Stramon, 198, Jack Stramon, 198, Log Annuon, Acet. 1987, Mark Stramon, 1987, Jack Stramon, 198, Log Hinnord & Remedy (Hay Roberts & Co Led London) Stramonum 71°-Sallyeter 27%, Anteo D10 6%, Codar Ol 14%, Ol 1987, Chlarken 2084, Supers 27%, Anteo D10 6%, Codar Ol 14%, Ol 10%, Ol 1987, Chlarken 28 5%, Sup Dar 26 0°- Ol Junper Lag 6 5%, Ol 10%, Codar Ol 14%, Ol 10%, Ol 1997, Chlarken 2085, Sup Dar 26 0°- Ol Junper Lag 6 5%, Ol 10%, Codar Ol 14%, Ol 10%, Ol 1997, Chlarken 2085, Sup Dar 26 0°- Ol 1997, Chlarken 28 5%, Sup Dar 26 0°- Ol 1997, Chlarken 28 5%, Sup Dar 26 0°- Ol 1997, Chlarken 28 5%, Sup Dar 26 0°- Ol 1997, Chlarken 28 5%, Sup Dar 26 0°- Ol 1997, Chlarken 28 5%, Sup Dar 26 0°- Ol 1997, Chlarken 28 5%, Sup Dar 26 0°- Ol 1997, Chlarken 28 5%, Sup Dar 26 0°- Ol 1997, Chlarken 29 5%, Sup Dar 26 0°- Ol 1997, Chlarken 29 5%, Sup Dar 26 0°- Ol 1997, Chlarken 29 5%, Sup Dar 26 0°- Ol 1997, Chlarken 28 5%, Sup Dar 26 0°- Ol 1997, Chlarken 29 5%, Sup Dar 26 0°- Ol 1997, Chlarken 2000, Chlark

Anusi 6 5%

Homocea (Au nol Ltd Newcastle-on Tyne) Of Cocois 20 82 Paraff Moli 35 39 Paraff Dur 16 65 Cera Alb 7 29 Adeps 2 08 Camph 2 08 Ol Cajuputi 2 41 Ol Terebinth 8 98 OI Rosmarini 0 58 Ol Eucalypti 0 58 Ammon 0 08 Aqua Dest to 100 00

Annoa Uus Aqui hai Ferni au Bach contain (Coull Plub') He gran Aper Longum Did' H_{it} gran Auss Pub' I₁₀ gran, Sana Fol Pub' I₁₀ gran, Myrth Pub' I₁₁ gran Alos Pub' I₁₀ yran, Fer Subh Exze ¹¹ M₂ gran, Myrth Pub' I₁₁ gran Alos Pub' I₁₀ yran, Fer Subh Exze ¹¹ M₂ gran Huxley Brand Absorbera Dusting Powder (Gol Baus & Co Ld Loydon) Zino Chogesterate 230 Pub' Acd Bono 230 O Geranum 0.5

Puly Amylum to 100.

[P1] Hyter Bairn (Knox Laboratories Ltd Landon) Benzocaine B.P 1 00% w/w Tannie Acid 3 00% Quinine and Ures Hydrochlonde 0 25% Phenol 0 75%

Ickosan Dusting Powder (Ayrton Saunders & Co Ltd Liverpool) Ich than 25 Zine Oxid 25 Acid Baric 30 Bism Subgall 05 Sulphur than 25 Zinc Urid 25 Acril Bione 30 Biern Subgall 03 Subplut Prezen 15, Heackhorophnen 025 Casten 10 Adopt Lan 10 Keolan Lev 30 Keolguhr 25 Mag Trail 25 Tran Dioxid 25 Ferr Ogid 40 Mag Sileri (hautril) 600 University of the Sileri of Con-Iglodias (Hall Fortier & Co Lid Neucosite on Tyne) Antiseptic contain ing Thenol 005% Combined Iodane 04% Neucosite on Tyne) Bismuth Opychione 25% Zinc Donale 145% Phenol 032% Combined Iodane Orgothione 25% Zinc Donale 145%

014%

Iglodine, Salicylated (Hall Forster & Co Ltd Neucastle-on Tyne) Phenol

0 71° Combined Iodine 0 32% Salicylic Acid 8 0% Wood Naphtha 80° Ion Abscess Salve (T Duncan Burnide) Active ingredients Venuce Turpentine 8 2% Colophony 16 0% Phonel 0 1% Chlorophyll 0 2% Pinene 9 8% Camphene 0 2% Cincole 0 03% Borneol 0 01% Thymal 0 16% D pentene 0 3%

Indian Cerate (Reade Brothers & Co Ltd. Wolver) a noton) Camph. 0 5 Zine Oxid 3 7 Acid Borie. 1 6 Phenol Lag 0 27 Ol Arach 21 Landin 10 2%

Zane Outá 37 Actúl Borne 16 Phenol Lug 0 27 Ol Arceh 21 Lanolmi 02 3% Infurno Embrecatian (Catter Hirrs Schlech) Verhyl Salicyl 11% Caps can 185% Ol Eucalyp 4 2×6 Ol Camph Rect. 4 23% Menth 08 5% Infurno Massage Cacani (Card Finn 35 Jabey) Verh) Salicyl 12 39% Infurno Massage Cacani (Card Finn 35 Jabey) Verh) Salicyl 12 39% In go Analgesic Baim (Viore Michand Product Lid, London) Tolazo Ine Hydrochlonde 2% Glycel Monosalrypitz 15% Caption 01% Inshites (Wingfersorth Lid Wertheughton) Camph. 03% Sp Vieth-Indust, 63% Ag Dect ad 100% Inhaltes (Explored The Card Borned Camph. 03% Sp Vieth-Indust, 63% Ag Dect ad 100%

Inhibit Epitetion Active constituents Theorems Subjate 0.5% w/y Menthol 0.05%, Camphor 0.025% Eucalyptol 0.025% Inhales Epitedrane Natal Oli (Wigglamorit Lid Wenhougt ton) Epite drage 0.75% Menthol 1%, Camphor 0.5% Eucalyptol 0.5% Liquid Parafia

to 100%

Innerclean (Brooks & Harburton Ltd London) Senna Folum 26°, Fran ula 20°, Psyll um 12°, Sassafras 12°, Buchu 9°, Agar Agar 6°, Irish Moss 5%, Lanuni 4º, Anisum 6%

Inotyol (Roberts Chemists (Bond Street) Ltd, London) Ontment continues: Ichtyol 1 5, Oxyde de Zine 15, Oxyde de Titane 6, Boraz 0 1, Excipient 93.p. 100 g

Instorms (Genatoran Ltd, Loughborough) Tablets containing Aluminum Phosphate 15% Light Magnesium Carbonste 16 7% Intrait de Marron d Inde Drops (Roberts Chemits (Bond Street) Ltd,

London) Intrait de Marron d Inde 5 00, Methesculetol Sodique 1 00 per 103 g.

bit P 11 march 1 cc. Intrascept (Middl Product Led London) Icolum Results 41% Leg Amma. Dil 25% (Califern et Soda Barzanes 55%, Sod Sal 10%, Ol Vanak Pp. 15% (Alcohol (0%) 45 0%, Campbor 55%, And Sal 11111118 et al 100% Iodherma (Wilcox Joseph & Co Landon) The sech consumer Landon 100%

Hexamine Iodomethylate 250 mg Hexamine 100 mg

Hexamine lodorecityiate 50 mg. Hexamine 100 mg. Iodian Medial (Wildow Parron Ldf Hull, Iodura 1400%, Ol Roam 1953). And Antonio Media (Wildow Parron Ldf Hull, 1954). 17 75% Luis Annon Fort, 1958, Log 49 65%, 251, Hydras 110%, Creas 1960 Calfedran (Ayros, Sauderis & Co Ldf Leorycop Each do anamo contant Ephcel Hydrochlor ¹/₄ gran Caffan, Pot Iod 5¹/₄ grans, Pot Iod 2 grant in Decetion of Coffee Thu perparatone contant 3², Porof Spirit, Isonio Baim (Thoma Mora Ld Honsidow). Altyl Iothneysast 2 10% 1 50%, 10%, Compan, 10%, OI Terebunk, 10 00%, Methyl Sahri-1 50%, 10%, Compan, 10%, OI Terebunk, 10 00%.

12 50%, in a non greasy and non staining base

Ipsolon Tablets (Thomas Marns Ltd Hounslow) Each contains, N Acetyl p Ammophenol [parsectamol] \$ grains, Salacylamide 21/, grains, Caffeine 1/e grain.

gram. Iron fellouds (Brecham Pharmaceuticals Lid. St. Hidew) Tablets ends containing Dired Sert Sulph 65 mg, Copper Carbonite 017 mg, Corran Neutonamical 107 mg, Accob Made 17 mg, 100 mg, 100 mg, Iron-Ox Toano Tablets (Thomas Marma Lid, Heunikes) Ming Sulph My gram Court Sulph, ¹/₁₀₀ gram Carbon All, ¹/₁₀₀ gram, Cupical Irona Tablets (The Londer K Cohoma Livit, ¹/₁₀₀ gram, Cupical Irona Tablets (The Londer K Cohoma Livit, ¹/₁₀₀ gram, Cupical Horona Tablets (The Londer K Cohoma Livit, ¹/₁₀₀ gram, ¹/₁₀₀ gra

60 t ŭ

[P1] I-So Coll Eye Lotion (Graham Tatford & Co Ltd Portsmouth) Pheny mercune Nicrate ¹/₁₆₀₀₀, Propil p-Hydroxybenzoste ¹/₁₀₀₀ Epidenne HG 0 1% Aq Laucocerst 10%, Aq Sambuci Trip 50%, Zinc. Sulpl. 0 05% Sod Bicarb 0 2%, Sod Cit. 0 3%, Sod Cheter 112%, Aq Dest. to 10% Filtered

Itsit Ointment (Martin Phillips & Co Lid, London) Oi Thyme 01 01 Neem Ref 0 3 Camphoræ 0 6, Ol Cauput, 0 7, Ol. Eucalypt. Glob. 21 Ol Vinde 2 4 Resin 5, Paraffin Molle 88 8

[P1] Ivy Lotion (Wigglestowith Ltd, Wenthoughton) Benzocaine BP 2° w/v Phenol BP 1% w/v, Menthol 1%, Triethanolamine 5% Sp Meth. Indust. 70° .. Art ad 100%

UUL, ALCOM. 1309 (DI. ADMS 0 019 (DI. Caryoph 0.039 Arg. al 100.00 Janssens' (DV. Tablets, Normal (DV. Jenus Lid. Jawa), no. 200 Sag. Sicc. 25 625, Ext. Julee 1 300 Ext. Leptandra, 2641, Di. Goala Johning, Tablets, Norma 1 200 (Dieresta Zangb) 0558 (Dass to 100 400 Janssch 200 (DV) Tablets, Strong (DV. Januar Lid. Lundon) 1 21 (Guata Janssch 200 (DV) Tablets, Strong (DV. Januar Lid. Lundon) 1 21 (Guata Janssch 200 (DV) Tablets, Strong (DV. Januar Lid. Lundon) 1 21 (Guata Janssch 200 (DV) Tablets, Strong (DV. Januar Lid. Lundon) 1 21 (Guata J370 (Ext. Threaset J 500 Certens I Tamente, Stoc J 100 (DV) Leithni(Ground Nubl 3750 (Olicents Zangb) 0 538 Jane to 100 (00)

Jenner's (Dr.) Absorbent Lozenges (Savory & Moore Ltd London) Each

Johnson s (Mrs) Soothing Syrup (Fastett & Johnson Ltd London) Active constituents w/w Sod Chlorid 6.6% Tunct Tolku 2.5% Surrose 60% Johnson s XX Ouis (Johnson Bros (Wrnechill) Ltd Crette) OI Rucin 83%,

Dipentene DL Limonene 9% OI Eacalyp 3% jordan s Gin Fills (Jordan Medicine Co London) Ext. Tritics Rep 12 698 Ext. Ruchus 3 175 Ext. Gentian 8 333 Alon 0 334 Puly Potass Nit. 12 698 Ol Juniper 1 333 Tereb Venice 3 000 Puly Fol Buchu 11 500 Puly Rad Podophyll 36 000 Excip ent 10 929

Jubol (Spencer & Co London) Tablets each containing Irish Moss 140 grand Ext Fel Boy 0 31 grain Eat Black Elder Bark 0 46 grain Phenol phthalein 1 23 grains

Junipah Major (Thomas Marns Ltd Hounslow) Sod Bicarb 55%, Acid

Tert. 41 6% Paracetamol 3 31%, Sacchann Sod 0 04%, Oil of Jumper 0 05% Juno Jumpah Mineral Salia (Thomas Marra Lid Houndors) Sod Sulph. Exus 87 64% Sod Chlor 0 5%, Sod Phosph, Exne. 0 75%, Sod Biesth

LARE 47 017% Sol Chief 0.37% Sol Phospin Lake 0.15% Sol Dirati 10.95% Stacharn 0.012% Ol Jungo 0.04%, Flascutts g.g. Jung Junipah Tablets (Thomas Morri Lid Hounikow) Sod Sulph Exac 64/s grains Phenolphchal 4/s grain Od Jung 4/sig munum Ol Limes 4/so mynum Sod Chiend 4/sig grain Sod Phosph Exac 4/sig grain Exceptents to 73/a grains

K B (Ridney and Bladder) Pills (Il septemonth Lid Weithoughton) Each contains the water soluble continuents of Bucha ¹/₄ grains and Uva Ura ¹/₄ gran together with Oleorem from Lorze de dus (Pinacee) ¹/₂ grain Gapue Pilly ¹/₄ grain Oil of Juniper ¹/₄ minum Pot Nitras I gran Methylthoun Olior ¹/₄ grain.

Childr 1, grain. Kaladase (The Kalades Co Brentford) Ephed Hjdrochlor BP 0 208% Pot Iod 4 374% Ext. Grindel Lug 0 078% Cuffern et Sod Sal cyl 4 583% 25% Mcoholic Extract Tussilagnus Folum (1 1) 0 234% Kalzana Tablets (farret & Johnson Lid London) Each contains Calc.

raisens statets (United to Southon et al Southon) et al Contains et al (F) Kandu Tablets (Thomas Marns Lid Houmiou) Each contains Acid Actyballey 3/8 grann Florester 2/3 granns Califum. // grann Phenolphithal // grann Codem. Phosph // grann Kaputine (Kaputine Lid Guldam) Fowders each containing Acidum Acetyl

salicylicum 7 5 grains

Karsote Inhalani (E Griffith Hughet Ltd Manchester) Active ingredients Menthol 3 50 Camph. 3 50 Ol. Eucalyp 18-00 Ol Citronell 2 50 Methyl Salleyl 7, 50 Oleum Cassar 0 75 Cinname Aldehyde 0 75%

Kasbah Kidney Remedy (Potter & (Herbal Supplies) Lid Wigan) Equis etum 15% Chvera 15% Laquonce 15°, Traticum 20% Buchu 15°, Senna Leaf 10% Uva Ursi 10°,

Kasemol (Eduard Cleaver Greenford) Menthol 3% Campbor 10% Methyl Sal 15% Essent Oil Campbor 72°

Rasemol Olatiment (Editord Cleater Greenford) Camphor 10°, White Wax 89° Menthal 21/2°, Methyl Sal 21/2°, Frs. Ol Camphor 2% Adepa Lawa 50°, Borxa 1°, Water 19°,

hay & Linseed Compound (hay Brothers Ltd Stockport) Of Anis 0 07%. Any statistical compound (kay insider 1/4 Stockort) (1) Anis 0 (1)⁴ Acid Benz 0)⁶ with aqueous extractives of Scill 5%, Seneg 0.2%, Ipecae 0.13%, Innum 5%, and Hals Tola 0.02% and, subject to some apontaneous loss by volati sation Æther 0.12%, w/w Chlorof 1.4% w/w Krenne s⁴ One Night Corn Cane Other Mathematical London) Acid

Salacyl 15 8° a. Methyl Sal cyl 1 25%

Kelfo Lazative-Digestive (New Era Laboratories Ltd London) Tablets containing Phenolphthal 35%, Ol Betul 0 39%, Bry 3x(B 1LP) 1 87.9% Hydrast. 3x(B H P) 1 875%

Hydrakt, Mill H P., 10370 [91] Kendale's Adult Cough Syrup (Biorex Laboratoris Ltd, London) OI Anus 0.166%, Menthol 0.09%, OI Menth. Pip 0.033%, Ext. Ipecae. Liq 0.4%, Spt. Chloroft, 4%, Chloroftorm 0.83%, Oxymel Scillar 20%, And Acteir. 6.25%, Syr. Prun. Serot. 25%, Syr. ad 100

Attite 6 25%, 331 Thus and Mitture (Biorex Laboratores Ltd, Lond a) Sodium Citrate 4 6%, Sodium Natrice 0 23%, Strong Solution of Ammonum Acetate 8 340, Camphorated Tincture of Opium 4 6%, Solution of Amaranth 1 04ºo, Vehicle to 100

Kephaldol (Kephaldol Laboratories Ltd London) Tablets each containing Acetophenetidin 2 15 grains, Sodium Salicylate 1 75 grains Ounine 0 45 grain.

Acetophenetudin 2 15 grann, Sochum Salexylate 1 75 grann Quanze 0 45 gran, Gefrae 0 25 grann, Sacyle Acado 15 grann (Arn And 0 25 grann, Argung 4, Kerbana Compound Raspberry Lead Tablets (Kriston Id., Losson) Lab cantars and the second second second second second second second Lab cantars and the second second second second second second second Lab cantar and the second second second second second second second Keronak Fills (C E Fulford Id. Lead) Each Internet N₁₄ grann, Chunch Pigr 21, Genetity E Primares Lid London Onthere to Cantary Therman Dioxide 2¹⁰, Jane Oxade 10¹⁰, Bannut Oxyquanolinate 0 2¹⁰, Jane Cantar Mitrarasol (Scientific Pharmace) Lid London Onthere to Cantary Therman Dioxide 2¹⁰, Jane Oxade 10¹⁰, Bannut Oxyquanolinate 0 2¹⁰, Jane Cantar

Reroll Lozenges (Thomas Kerfoot & Co Ltd, Ashton under-Lyne) Chloro-phyll B P C 1934 (100°, Chlorophyllan) 0 4%, Bassis to 100°, Kest Laxatuve Tablets (Kest Ltd, London) Each contains Epsom Sala

4¹/₂ grans, Phenolphthalem ⁴/₂ gran Kestoma Tablets (Kestoma Co Ltd, London) Each contains Acetophen-etidin 2 grans, Acetylisalicytic Acid 4 grans, Califeine ³/₂ grans, Quinane Bu-etidin 2 grans, Acetylisalicytic Acid 4 grans, Califeine ³/₂ grans, Quinane Buphate 1/11 grain.

Keswick's Pure Vegetable Charco-Lax (Tablets) (J B Kennek & Co., Winton) Pil Rhei Co. 4 00, P Saponis 0 50, Aloin 0 50, Ol. Richni q.s., Pur Carbo Ligni ad 100 00

Kilkof (Parknavas Lid, Burnley) Active ingredients Ext. Glycyrth. Lid. Nilkof (Parknavas Lid, Burnley) Active ingredients Ext. Glycyrth. Lid. 05, Herylresorean 01, Chlorof 063, Ext Ipecae, Liq 005, Tinct Benton, 166, Tinet Tolu 166, Tinet Cepter, 041, Ether Anzeth, 020, 01 Ana. 016, Oxymel Scull 5

K-Lens (S Mate, Son & Sons Ltd, Barnet) Sod, Bicarb 200%, Methyl cellulose 0 33% Sod Hexametaphosphate 0 000015% Urea Peruxide 0 00225%

cellulose 0.32% Soci Heximiciphosphate 0.0015% Ores retrained 0.00251 Klorodene 0.32% Soci Heximiciphosphate 0.0015% Ores retrained 0.00251 6.2% OI Mienth. Pro 0.1%, Ext. Glycprin Laq 12.3%, Themas DPC 1994 12.3%, Strong 6.0%, Alcohol 12.5%, all vy Kompo (J F What & Co Lad, Ledd) Aqueous extract from 5.9%, hun-together with OI Cacoph. 0.05%, OI Cass. 0.09%, Time. Gapac, 7.8%, all social control of the second of the second of the second of the second program of the second second of the second of the

Koray (Koray Lid, Bridgend) Tablets each containing Acetylsalicylic Acid

7 5 grains

Kruschen Salts (Nicholas Products Ltd, Slough) Potassium Sulphate 5.5 Exsiccated Sodium Sulphate 20, Sodium Chloride 10-0, Potassium

5.5 Exercised sodium Suppare 24, Sodium Calorde 10-0, Persinae Chorde 10 Citre Acid 15, Alagreeum Sulphate qe, ad 100 O Kuranol Hemorthoudal Onitment (Robert Chemiti (Bond Street) Ltd. London) Active constituents Zinc Orade 10.8%, Viercioux Chloride 10.8%, Bismuth Oxychloride 10.8%, Campbor 1 8%, Phenol B.P. 178%, Distilled Witch Hazel 21 6º.

WIEGH HAZEL & LONG KATPOL TALES (Arthur H Cost & Co Ltd, Brechton) Stann, Pulv B.P.C. KATPOL TALES (Arthur H Cost & Cost & Cost Kutnow's Saline (C E Fullyof Ltd, Leeds) Sod. Bacarb 49 75%, Acd. Tart. 39 55%, Sod Sulph, Erac, 11 30%, Solay A. Tablets each containing (P) Kwells, (Nicholas Jrobusts Ltd, Slough) Tablets each containing

Hyoscine Hydrobromide 0 3 mg

[P1] L.S.A. Travel Sickness Tablets (Arthur II Cax & Co Ltd, Brighton). Each contains Hyoscin. Hydrobrom. B.P 0 005 grain.

Lactobyl Tablets (Continental Laboratories Ltd Hove) Bile Salts 30 0 mg Pancreatin 4 5 mg Alocs 27 0 mg Actavated Charcoal 20 0 mg Laminaria Flexicaulis 50 0 mg

Laudabeille Royal Jelly (Tom E Hobson Ltd London) Twenty six drinkable ampoules contain Pure Royal Jelly 1250 mg and Queens Embryos 150 mg Lane S Catarrh Remedy (O Phelps Broachen Bradjord) Active constituents

Sod Chlorid 3 33%, Phenol Lag 0 47% Lag Iod. Mit 0 312% Liquor Hamamelidas 8 33%

Langdale s Cinnamon Tablets (E F Langdale Ltd Croydon) Active ingredients Ol Cinnam 1 000 Ext Scill Liq 0 006 Ext. Seneg Liq 0 001, Ext, Ipecac Liq 0 001

Ext. ipecae Liq 0001 Langdale s Concentrated Medicinal Essence of Cunnarnon (E F Langdale Lid Creydon) Ol Cunnam 272% Alcohol (90%) 54 35% Tinet. Ipecae 0 85% Tinet. Seill 085% Tinet. Sence 0 47% Lanugen B Bacterial Vaccine (Lanugen (England) Lid Bagshof) Each e c.

contains the detoxified antigens of the following Pneumococci 1000 million N catarrhain 1000 mulhon Screptococcc 1000 multon Staphylococc 500 mulhon Bact, freedlander 500 mulhon, II influence 500 multion Larson & SAM D Swedish Milk Diot (Denfron Distributors Ltd Watford)

Granules containing in each ounce Vitamin A 5000 i u. Vitamin C 73 mg Vitamin B, I mg, Vitamin B, I mg, Vitamin B, 0 I mg Vitamin D 400 i u Glucose 7 g Gittic Aquid 140 mg Calcum Pantochenate I mg Nicotanamide 5 mg Sucrose II g Guar Flour 10 g

Larson s S MD Tablets (Dendron Distributors Ltd Watford) Twelve Lactors = 0 vi.1.1 solution (present Distribution Lie) (1000^{-1}) (1960) zibita contant, Vitamin A 5000 i u Vitamin B 2 mg Ribolarine I mg Vitamin B, 0 I mg Vitamin C 75 mg Vitamin D 400 i u Calcum Paulo thenite I mg Nucontanthel I mg Iono 100 g Calcube 2 g, Surters 2 g Mill Solud (non 1at) 0 G Mazze Oul 0 g Lactors 7 g Gurt Flow 47 g [9] Lacceller Gout & Rhourmalian Pills (first Brooks & Mint Lid Lexel)

Lau contains Colcheine 'ine grain Lastonet Cream (Lationet Products Lid, Redruth) Contains Chlorbulol 49 Zinc Outo 1936 Chlorosylenol O 25% in a stable hydrophil c bate. [P] Leeve (Uniterial Laboratoris Lid Folkesione) Diethylamine Salieylate 109 Benzeene 0 99. wir Vender to 1000

[11] Leeve (Unicrial Losofolorial La Fonctione) Dischimitte Sautyate 10° Benzoenne 0.9° will vehicle to 100° Discussione 0.9° will be Legata & Elixir Caphedran Iodinata (1° H Legat Lid Bolton) Ephedr Hydrochlor B P 0.2° Caffen Sod Benz, 116° John 0.2° Discussion Cold and Flu Mixture (Graham Taford & Co Lid Porti Lemada Cold and Flu Mixture (Graham Taford & Co Lid Porti

Actionations Constanting Filt Anticonte Constanting July 20 6 212 POPH mouth) Active ingred ents Accil Cri S grants Ess Limonia Frep 2 manima Actid Hydrobrom Dil 5 minuters I of Quess Conce 2 minutes [P1] Lewis s Drops (Morgan & George Ltd Vitrau) Turet. Opi 6% Spirit Ether Nitros 3 2% Spirit Rectificatus 68 2% Campbor 7% Aquara ad

100

100 Exercision Utili Ferrier & Co Leil Neucoschi-on Three Laqueores Extract 30°, Vinceri of Saquil 4 (27), Renchrist Agnett 6 28%, Chichoroform 0 16%, Campbor 0 036°, Benzon Acid 0 0.4%, Anneed O.10 067%, Linzight Bartin (Linz Lift Lander) Calamo Calamo 12%, Liq Aluman, Acet. 12%, Liq Tic Carbon 24%, Gigerna 24%, Vister manchie Base al 100%, fund circhen Chicodyne BPC 74%, manus Threet, Opu Camph BP 74%, foruman Litt, Giyeyrh, Liq 4, manus Litt, Giyeyrh, Lig 4, manus Lit (as Infus) 2 grains.

(a) Infail) 2 grans. Lion Cleasing Herba (Potter's (Herbal Supplier) Lid Wigan) Elder Leaf Son Cleasing Herba (Song Herbal) (Song Herbal) (Song Herbal) Song Herbal) (Song Herbal) (Song Herbal) (Laund Géo, Create 329; Chand 9 209; Ond Anthred 10150; University with Oleum Alla Easenake 0013°, Ol Menth Pro 9 (196°), Ol Anna 00 052°, Ext. Jercea: Lay 0155°, Soccas Glygerthatze 075% Saccharum Unitum 125°, Succase 1 25°, Aquas Al 100°, Succase 1 25°, Aquas Al 100°, Liquirtus Medica (The Lagdreis Laboreisner London) Water soluble constituents of Lanum 065°, Cetter 0 239° Chond 0 20°, and Anthre 0 125°, use 100°, Cetter 0 239° Chond 0 20°, and Anthre 0 125°, use 100°, Soccase 100°, Cetter 0 239° Chond 100°, 200°, and Anthre 0 125°, use 100°, Soccase 100°, Cetter 0 239° Chond 100°, and Anthre 0 125°, use 100°, Cetter 0 239° Chond 100°, and Anthre 0 125°, use 100°, and Anthre 0 125°, use 100°, Cetter 0 239° Chond 100°, and Anthre 0 125°, use 100°, and Chond 100°, and Anthre 0 125°, use 100°, and 100°, and 100°, and Anthre 0 125°, use 100°, and Anthre 0 125°, and anthre 0 125°, and anthre 0 125°, use 100°, and Anthre 0 125°, and

Ol Anis 0 052% Ext. Ipecae Lag 0 165% Succus Glycyrrhize 0 75% Sac charum Ustum 1 25% Sucrose 1 25% Aqua ad 100%

Liquiprin (Johnson & Johnson (Gr Brita s) Lid Sloug!) Active ingredient. Sal cylamide 6 48%

Liquor Iodo-creosotal (Wade Pharmaceut cals Ltd Glasgors) Each ft. or. contains Potass um salts of sulphonated fractions of Beechwood Creose e 14 grains Iodine 0 8 grain assoc ated with Peptone 2 grains Potass um Guaiscol Sulphonate 2 grains L qu d Extract of Malt 320 minims

Subpromate 2 grains 1. qu d Extract of Mair 340 minima Lusterino Antiscepice (Lumber (Jenuard Co Lid Eadlarch) Bento e Ac d 0.03% Bonc Ac d 2.23% Menthol 0.05% Thymol 0.07% Eacalyptol 0.09 « Methyl Sal cylate 0.05% Alcohol 27.00% Water to 100.00% [Pi] Lloyd & Adrenalme Cream (Hauard Lloyd & Co Lid London) Adrens

1 ne 1 5000

Iné 1 3000 (IF B. Cartemph I. Li. Readow) Farts per 100 Treade 54 Lobellino (IF B. Cartemph I. Li. Readow) Farts per 100 Treade 54 042 Err. Proces. Lu of 10 e 54 Est Greyerin. Lu3 Y. Est Sanze 1.0 Colord 0 9 Tunet Care e 0 45 01 Menth P 0 65 01 Annu 020 016 Pennyroyal 02 04 63 Spearman 0 02, Tunet, Quill 0 11 and the water-solub remarks from Y gran on Prace Readow 13 1 Lobella 0 34 Red Jonnio (The Lombo Ce Water 00) Hondow 13 1 Lobella 0 34 Red Lombo (The Lombo Ce Water 168). O 64%, Passet Moll Flar 75 168%. Long Crean 167/64 Red 10 Pennyrouth) Active constants Color 100% 05%, Lug Pet Carbon 1 0% Campor 0 1%, Tunet Beards 20 100%.

Co 1 0%

Luma Anti Rheumatic Compound (Luma Products Ltd Croydon) Methyl Saltes late 6 0% Oleoresina Caps ca 0 01% Potass um lodide 0 5% Fluorescem 0 5º Luma Anti Rheumatic Cubes (Luma Products Ltd Croydon) Act ve

Lumin And Indurnatic Cubes (Luma Producti Lid Corgas) Act to ingredients Michipi Sai (viete 500%) Possis um Iodide 0 40% Olicertina Caps ei 0 01% Sod um Carbonate to 100 00% Lusty s Garlie Perles (Luty Natural Producti Co Lid Wettelifon Sei) Each conta na Essential Oil distilled from Fresh Garle 30 grann and act Sci

Lusty's Herbalene (Lusty's Natural Products Co Lid Westchiff-on-Sea) Sennos Folium 64%, Rhamnus Frang 4% Elder Lea es 8%, Fennel 16% Maté 8%

Lusty a Maited Kelp Tablets (Lusty's Vatural Products Co. Ltd Wett iff-on

Lussy ansates needs indicts (Lussy voirent router to Ltd Weit off Scal Each contants Kell I2 grants Ext. Mail Scc 6 grants Lydrochior 9416% Sod 10d 4166% Californe 2166% Sod, 31 200° Lysanthune Astace (W low Jozcaw & Co Ltd London) Efferenced Lysanthune Astace (W low Jozcaw & Co Ltd London).

Lysaniumus exiter (W less Jozen & Co Lis London) Entreteine grandes contamung Sodium Hodorpoords Stephonate 12%, José and Burris 9° Calcum Gluconste 12%, Sodium B carbonate 37%, Ercip ent 30° Lysantol Pastilles (Allie & Hanbery Lid London) Chlorosylenol 0034% Benzylcresol 0013° Menthal 0023% Camphor 00643% Bitckcurrati Haroured Base to 100%

Lystone Salts (Internat anal Chemical Co Ltd London) Sodium B carbon ate 48 30° Tartaric Acid 44 75% Anhydrous Sodium Phosphate 6 91° Soluble Saccharin 0 04%

MO (*Hot Christy & Co Lid, Aldershot*) Active ingredients Mig Cal crasts Levissima 49. Paraffinum L ou dum 25° Mac Antiseptic Throat Sweets (*Becham Pharma entrals Lid St. Hidea*) Amylinetacresol 0.040. Campb. 0.005. Menchol 0.200 Euclyptol 0.045 Automatic active and a state of the state of Amyimetaresol U UNO Lamph. 0005 Alenthol U 200 Eucaryptol 00/7 Tant. Tolu. 0032 Ol Ment P p 0032 Ol Ana. 0014 Ol Cast. 0018, Ol Caryoph 0009 Tart. Ac d. 0346 Supar Base to 100 McClurer Brand Epheedricae Nasal Catarrh Specific (McClure 10008 & Co Lid London) Epheedricae 099% Camphor 2°, Menthol 2°, Aromatoo

20 Log Lonzon, Epitemic 97% Campie 2 . (Chind a Laboratory) (P1) McChure s Balsara (*fileChane Young & Co. Lid. London*) Tact, Chlorof et Morph B P C 100% Tinet. Ipecae. 5°, Syr Tolu 44.7% Syrup 5% is 400% Tinet Caps et 0.3%

Mackenzie & Smelling Bottle (Dr Mackenzie & Laboratories Ltd London)

Active constituents Ammon a 15°, Phenol 5°, Eucalyptol 1% McKintol Hair Tonic (Wigdesworth Lid Wieschoughton) Active constituents Active and Benzoe 111% Acid Bonc. 11°, Sp Mich. Indust. 52 50% Thymo10 17%

Maclean Brand Indigestion Powder (Beecham Pharmaceuticals Ltd St Helens) Calcium Carbonate Heavy Magnes um Carbonate and Aluminium Hydroxide produced in accordance with British Patent No 745 493 giving Calcium Carbonate 37 2% Heavy Magnes um Carbonate 15 5% Aluminium Hydroxide 18 6% together with demulcent and flavour

Maclean Brand Indigestion Tablets (Beecham Pharmaceuticals Ltd, St Helten) Calcium Cerbonate Vagnes um Cerbonate and Alumnium Hydroxide produced in accordance with British Patent No 745 493 griving in each tablet Calcium Carbonate 0 397 g Heavy Magnesium Carbonate 0 156 g Aluminium Hydroxide 0 187 g

Macprin (Beecham Pharmaceutucals Ltd St. Helens) Tablets each con taiming Aspirin 5 grains Glycane 2 > grains

[P1] Magnolds Lozennes (Smith Kendon Ltd London) B smuth Carbonate 8 635% Calc. Carb 17 27%, Heavy Mag Carb 8 635% Tinet, Chlorof et Morph B PC 19 00% w/w

Magnolax (Neubery & Phillips Ltd London) Contains in each fl. oz Nag

Magnolas (Newberg & Phillop Lid London) Contens in each fi or Vier ensum Hydroxie 80 grans. Liqued Parafin 120 mminus Glyrens 30 mminus Vanilin 14 gran D sulled Wiere 9 * Office 100 mminus Glyrens 30 mminus Marzica 140 Contense (G C De Win & Co Lid Coydon) Camphor Havin Dolyrpandi Vier Manda Vor, Tobol Marzica 140 and 140 mminus Glyrens 100 mminus Glyrens Ameroda Andia Tables (Graet & Jayman Lid, London) Each contains Apueous Extract of House (10) 3 grans, Ext. Case. Sagr Sice 1/4 grain Paenolphihul, '4 grant, Cale. Carls 3'4 grains Olcores Angie '100 mminus, Ol Anis '1, mminus, Viethyl Saler, '1, mminus, Ol Sassa' 1/4 mminus, Denolphihul, '1, grant, Cale. Carls 3'4 grains Holers Single' 100 mminus, D anis '1, mminus, Viethyl Saler, '1, mminus, Ol Sassa' 1/4 mminus, D anis '1, mminus, Viethyl Saler, '1, a mourn, Ol Sassa' 1/4 mminus, D anis '1, mminus, Viethyl Saler, '1, a mourn, Ol Sassa' 1/4 mminus, D anis Aram Tanzude B P 0 s mg Yohanb Hydrochlande B P C (1989) 3 Me. Angie Midde Comedon Rade Bard Contained Argent Carlower Carls '1, a mourn, D anis Aram Tanzude B P 0 s mg Yohanb Hydrochlande B P C (1989)

Jung Charles Der State Courts Syrup (Modken Lid Leneuter) Tinet. Matimed Black Currant Courts Syrup (Modken Lid Leneuter) Tinet. Camph Co s Opio 8 33%, Ac d Sulph D1 167% Syrupus Rheados 16 67% Tinet. Ipecae. 8 33% Oxymel Scalls: 50 00% Syrupus Rabis N gri 15 00%

[797] Matimed Cherry Bark Cough Oure (Modden Lid Lacenter) Acidum Accident 15% Gircennum 10.00%, Tanchurs Ipreacumhar 3.7% Oxymel Sciller 10.00% Syrapus From 500%, Sprincu Camphora 12%, Sprintu Chloroforn 2.80% Syrapus Sampler to 4.3% (Matimed Pynelume Inhalant (Modden Lid Lacenter) Menthol 3.92%

Matmed Pynetumie infraiant (Modern Lid Leteriter) Menthol 3927 Oleun Caybut 295% Oleun Eucliphyn 295% Oleun Pint Puni Ionis 295% Ytersbenum 098% Oleun Camphore Rectificatum 783% Perfume 1568% Spritus Metholatus Industralis 62 72% Matmed Tussolids (Modern Lid, Leteriter) Menthol 1/20 grain Ol Anisi

¹/₁₀ gram, Puly Extractum Glycyrrhizz ad 2 grams Max Instant Cold Relief (*Mendari Ltd London*) Triethylene Glycol 3 35 Menthol 102, Thymol 0 15 Camphor 0-41 (Of Eucelyptus 1 01 Benzalkonuum Chloride 0 40 Bornyl Acetate 0 11 Lanalyl Acetate 0 10 Solvents/Propellents ad 100 as an serosol spray

40 100 as in accord print Generation Las Laughboreagh) Cetromido 55°, Mercial 56° Denoral (diaphar 15°, an is water nucleibe base Mediabalin Antiseptic Oliminent (Sasary & Hore Lid, London) Anylum 15%, Specially duilled Tar 55% Zane Grado 14°, A.C. Stallou 455°, Media-sine Aerosol Gold Relief (Gower Hichweit Callou 45°), Media-sine Aerosol Cold Relief (Colore 11°, Colored 50°, Media-sine Aerosol Cold Relief (Colore 11°, Colored 50°, Media-sine Aerosol Cold Relief (Colored 10°, A.C. Scherhull 050 Ol Granam (15 Ol Esssipp 120 Menthel 060 Methyl Salacyl 015 Thymelo 15 Resourt 150 Proylens Grycel 235 Medicolds (Dour Ieve Drug Co Led Natarglan) Suppas tartes con tanung Rub Seattle 0007%, Sum Schegal 115% Dal, Peru 30% Zane

Oude 10 0%, Restron 0 5%, Methyl Sal 0 6%, Bism Oxytodid 0 5%, Acid. Gall B P C 1942 0% Medullar Laratuve Follets (Samory & Moure Lef, London) Each contains Potoph Res 1/1 gran, Sip Ammal 1/4 grann, Alos 1/4 grann, Horn Res. 1/3 grann Ext Colorynth Co 1/4 grann, Phenolphithsion 1/56 grann, Oktore Zingb 1/46 grann, Oktore

Meggesson Dyspepsia Tableta (Meggeson & Co Lid, London) Each contains Bism Carb 0 69, Mag Carb 15 38, Sod Bicarb 15 38, Chlorof. 2 00 (approx) Lavender Lozenge Base to make 100

Meggeson Sore Throat Lozenges (Meggeson & Co Ltd, London) Active constituents Pot Chloras 6 6%, Sod Benz 3 3%, Sod Bibor 3 3%, Menthol 0 4%, Blackcurrant flavour

Meggezones (Meggeson & Co Ltd, London) Active constituents Menthol 0 78%, Ol Menth Pip 0 33%, Chlorof 0 40%, Benzoin 0 28%, Eat. Glycyrrh 0 54%

Meloids (Boots Purs Drug Co Ltd, Nottingham) Pellets containing Liquo-rice Juce 93 3%, Menthol 1 5%, Crinnamon Oil 0 37%, Alcoholic Extract of

rice Juce 93 3%, Menthal 15%, Canadron UI 93 /29 Antonious Lanceur, Grandom equivalent to Capacito 0.63% (2014) Carlos 10 2014 (2014) Carlos 10 (2014) Alexandron 10 (2014) Carlos 10 Ung Store 40 (2014) Percentage serve aperatents Punfeel Honey 22, 01 Anto 025 Guiascol Giveryi Vanosher 1955, 045 /2917-2014 0.005, Sodium Citate 5, Chorof Sp 3, Menthalotian Tablets (Brook Parker & Carlos Linea/Jord) Actionstaph - Income Nitistica (2016) Carlos 2016 (2014) Carlos 2014 Menthalotia Tablets (Brook Parker & Carlos Linea/Jord) Actionstaph - Income An Nitistica (2016)

Nithinkou Ashirota (Grow Farer & G Lie, Jiaojon) recommendation of any Ac Nicoun 15 mg [P1] Mendaco Tablets (Knov Loboratores Lid, London) Each consuse Potsasum Todie 130 mg, Dulydrozypropriheophyllina 32 mg, Dhedman Hydrochlondo B P 6 mg, Dry Extract of Stramonum B P 8 mg

¹ Manutesur Entrivoe mag. Dry Extended and Antonioum of the magnetic theory of the second of th

Mentholatum Deep Heat Rub (The Mentholatum Co Ltd SlowA). Menthol 5 91%, OI Eucalyn 1 97%, Methyl Salcyl 12 80%, Ol Terebanh. 1 47%, Adeps Lan, 4 92%

Mentholation Inhalant Capsules (The Mentholatum Co Ltd, Shoud) Menthol 15 0%, Camphora 2 %, Ol Punt 2 %, Ol Cutronell, 2 %, Tereba, 50%, Methyl Saluy? 20 0%, Chlororered 2 0%.

Mentholatum Nakal Lugund (The Mentholatum Co Ltd, Slouth) Cam-phona 0.25 Menthol 9.50 (D Eucalypt 0.3, OI Gaulhenz 0.03, OI Prei Pumil 0.35, Paraff Liq, to 100 00

Mentholoids (Wigglesworth Ltd, Westhoughton) Pellets containing Ext. Glycyrrh 99 0%, Menthol 1 0%

urgerm 77 v.g. Methol 10%. Metad (Arrow Sailder & C. Ltd, Lawrood) Each teapoonful continu-Metad (Arrow Sailder & C. Ltd, Lawrood) Each teapoonful continu-tion of the sail of the sail of the sail of the sail of the phosph 1/4 gram. Sed (Speerphosph 1/4 gram Mangan, Upercephosph 1/6 gram, Cup Sulph 1/4 gram, Yianna A 2000 Lu, Vianna D 301 u. Meteol (Brock, Pohr & C. Ld, Bredford) Ol Chanam 034°, soil Methol V. 107%, Marchel O 144°, Gupt 8 000%, S VR 195° A Agas 40

100%

¹⁰⁰To Microban Antiseptic Cream (Even Medical LM, Lavrpool). Active constituent Annuarine Hydrochlonde 0 ¹⁰/₆ for a start of the start of t Glycerophosph. 1/1 grain, Magnes Glycerophosph. 1/1 grain, Ferr Glycerophosph.

Mangan Glycerophosph. 1/18 grain, Caffeine 1/4 grain Strych, 1/4 grain Vine grain Vitamin B, 05 mg Mistol Aqueous (Fassett & Johnson Ltd London) Acuse const tuents

Mistol Aqueous (raiset & Johnson Lid London) cure const ucents Phenylephran Bi drochloride O 25%, Meyrranne Raiset O 2%, Mistol Drops (Farieti & Johnson Lid London) Campla O 47%, Euclyp 061%, Menthol O 63%, Chloributol 100%, Paraff Liq Lev 97 27%, Mistol Drops with Ephedrine (Fasset & Johnson Lid London), Camph.

0 63% Eucalyp 0 63% Menthol 0 63% Ephed Anhydros, 0 57% Paraff Lig Lev 97 54%

Moore s Baby Cream (Moore Med anal Products Ltd London) Benzal-konium Bromide 001°, Cetim de 05% in a non sticky base of low viscos ty Moore 5 Teething Jelly (Moore Medianal Products Ltd London) Saltey

Moore's Lectionary fearly (Moore Stratumes Froutine 1.4 Longon) Sattery ande 8 0% Calcium Photophate 8 0%. Moorland Indigention Tablets (W II Cartemphi Lid Randon) Mar Carb Pond 5 1% Mag Trait 2 142% Peps num 0.083% Bain Carb 0 857% Cale. Carb 37 85% Olectres Capace 0.0845% Sod B carb 3 7% Of Cardianom 0.013% Paratersianum 0.057% OI Lavand 0.005% OI Res. 0 0025%

Morhulin Cod Liver Oil Ointment (Priory Laboratories Ltd West Drayton) Balsam of Peru 0 69 Cod I ver Oil 11 4 Solution of Chlorinated Soda B P C. 1934 1 0 Zine Oxide 38-0 Base to 100

Morses (Dr.) Indian Root Pills (Comstock Co Ltd Acta York) Each contains. Aloes 0 92 grain Mandrake 0 54 grain Ch Il es 0 50 grain, Gamboge

containt. Alore 0 92 grain Misndrage U 24 grain this is a training containt. Alore 0 92 grain, 1400 014 grain Mother Seigels Digestive Syrup (Fester & Johnson Lie London) 8 8%, Compound synchronia Containt (1990) 10 and 1990 and 1990 and 1990 Smillings, 10 4%, Walnur 8 33%, Chansphylle 30 4%, Phyroleces, and 10 4%, Lepinader torgether with Sod um Borais 4 1%, Mosei 25%, Construm 0 253%, O 1 of Sessifies 0.01%, Acid Hydrochlore 3 5%, Cane Sugar 67 2%, Aq Dest q s to 100

Mothereze Tablets (Carter Bros Shipley) Est. Raspberry Leaf 27 7%

Biologered Address and Address Add

Multerlo Voluti Chart santes universe and the second second and the second second and the second second

Menthol 2 10% Methyl Salacyl 0 50% Ol S nap Ess. (Synth.) 2 90% in a base of mert animal and maneral fats

Musterole, Muld for Children (Thor Chruty & Co Ltd Aldershot) Active ingredients Campbor (Synth.) 6°, Mienthol 21°, Ol Sunap Esa (Synth) 04°, Viet yl Saley?) 05% in a base of inert anamal and maneral fats.

"N' for Burns (Tidebrook Chem cal Products Ltd London) Sod uro Salts of D hydroxy Diaryl Methane Sulphonic Acid Polymers 15% in a water soluble Jelly Base.

N H-S Balm (Modkem Ltd Lescester) Sal cylic Ester Ethylene Chlorhydrin 5 000% Glycol Monosaleyiste 5 000°, Phenyl A cotinate 0 500°, Hexyl N cotinate 0 500°, Histamin Dihydrochlor 6 100% Capsicin 0 100% Comb ned Iod ne 0 009%, Non greasy Base ad 100 000%,

Construction of Control Freezy Biol as a UMA's Down see to a Ltd Construction of Control Freezy Biol as A UMA's Down see to a Ltd Condoil Actives ingrest ents close 1 25°s. Dief Turpentune 3 75° Nassden Xasal Dittore (Bear Parc Borg Co. Ltd Astingto) Prinzipeht Natas Ona forthe Liver (Valeral Biolab Fredbrick Sci 1 start) Sci 7 Totato 20°s. Natas Ona forthe Liver (Valeral Biolab Fredbrick Sci 1 start) Sci 7 Totato 20°s.

Nater "Two" for Blood and Skin (Vodern Health Freducts Ltd Cheiping ton) Tablets containing Endve 20% Farsley 25%, Wetercress 25%, Beet Greens 10%, Seweeda 20% Nater "Nine" for Nerves (Vodern Health Products Ltd. Cleanneton) Tablets containing Lettuce 50°, Pumpkin 71,6°, Asparsqu'21,6%, Celery 30°,

Seawceds 10°

Serveds 10% and Acad Duresting Toubles (Holern Health Product Nates, "Car", for Acad Duresting Toubles (Holern Health Product 20%, Turnin Top 20%, Celery 22%, Paper 8 Fun 10% Nates, "Eleven" for Glands (Holern Health Product Lid Chemisten) Tablets containing, Parily 15%, Wietererss 35%, Sawedd 80%, Nates, "New 6 Ac On National Bowel Activity (Holern Health Product Nates, "New 6 Action National Bowel Activity (Holern Health Product Nates, "New 6 Action National Bowel Activity (Holern Health Product Nates, "New 6 Action National Bowel Activity (Holern Health Product

Nates "Twelve A" for Natural Bowel Activity (1)sform Health Product Ld, Chemistoph Thibles consuming Rhubark Boox 50%, Inch Mos 20%, Rhubark Stalk (guden vanery) 10%, Parley 20%, Nates "Twelve & Aspecal" don Natural Bowel Activity (Modern Health Product Ld: Chemistoph Thibles consuming Rhubark Root 70%, Insh Mas 10%, Rhubarh Balk (gredn vanery) 10%, Parley 10%, Mas 10%, Rhubarh Balk (gredn vanery) 10%, Parley 10%, Mas 10%, Rhubarh Balk (gredn vanery) 10%, Parley 10%, Son 10%, Nator 10%, Rhubarh Balk (gredn vanery) 10%, Parley 10%, Son 10%, Son 10%, Parley 10%, Son 10%, Son

Red Cabbage 25%

Nater, 'Twenty-Two ' Tonic (Modern Health Products Ltd Chesanston) Tablets containing Carrot 30% Spinach 25% Lettuce 5%, Sesweeds 20%.

Nates "Thirty" for Mucous Membranes (*Violers Violatics 20%*). Nates "Thirty" for Mucous Membranes (*Violers Violatics Lid* Chempton) Tablets containing Parsley 35% Endire 20%, Lettuce 10%, Beer Greens 35%

Nates "Thirty-One" for the Genite Urinary Tract (Modern Health Nates "Durty-One" for the Genito Urfany Tract (Volern Heidh Product Lid Chernfort) Tables consumn Wirtereta 5%, physicap 5%, Parley 40%, Celery 15%, Sauceds 15%, Nates "Mirty-Proceeding Dates 25%, Waterenes 5%, Ender 5%, Guile 5%, Sawceds 20%, Dates 25%, Waterenes 5%, Ender 5%, Grine 1%, Sawceds 20%, Sawto 10%, Sawto 20%, Ext. Com Greana, 1%, Ext. Lobel, 3%, Ext. Symphyr, 3%, Ext. Dulansser 2%, Ext Sympheser 9%, Colepsioum 3%, Baars to 10%, End. Altion under Lyny, Naturol Baby Cream (Theoret Kerlos & Co. 1 and Lion under Lyny), And 19m, 2.3%, Darto 15 Gyreer 10 63, 1 and Lion under Lyny, And 19m, 2.3%, Darto 15 Gyreer 10 63, 1 and Lui Quest Mol

Atto 55 2 Adeps Lan 20 Sigter 1000 the color and the second atto 55 2 Adeps Lan 20 Navano (Navano (Navano Freparateurs Lid Blackpool) Acid. Sal cyl 22 2%, Phenol 15% Cresol 0 5%, Adeps Lan Hydrox 20 %, Paceil Noll Haw ad 100°.

Nazex Nasal Spray (Cupal Ltd, Blackburn) Phenylephrine Hydrochloride 1/1% in an isotonic bas i

Nemakol Tablets (International Chemical Ca Ltd London) Each contains

VICITARIO LABIESE (International Chemical Co Lia London) Etch contains Carampine Ethonedisulphonate 6 mg Nemolin Oustment (International Chemical Co Lia, London) Zinc Oxid 18 75 Amjlum 18 75 Adeps Lan 50, Paraff Liq Lev 12 75, Alum 0 2, Aqua Hamannehdia 14 75 Paraff. Moll Flav ed 100

[14] NeoDex AS Olitanient for Hemotrhoids (International Loboratories Ltd, Cheinngion) Ethyl Linoleste and Linolente 25% Benzocaine 5% w/w Menhol 05%, Bismuth Subgallate 10%, Line Cuile 22% Ontitient base to 100%

NeoDex Capsules (International Laboratories Ltd Chesungton) Lach con saina Ethyl Linoleste 0 18 g, Ethyl Linolenate 0 09 g NeaDex Ointment (International Laboratories Ltd Cheisington) Active

NeoDex Olintment (International Laboratoris) Lis Consinguon Jesue ingredients Edity Lanolett 6 7%, Fuhyl Lanolett 6 8% [91] NeoDex 55 Suppositories for liemorrholds (International Laboratoris Lid Charington) Ethyl Estern of Lanoles and Lanolett Acids 3%, Bismuth Subgilite 7 5%, Dezaceane 5%, w/w, Menthol 6 5%, Dry Latrast of Ham amelia 0 5°, Excipient to 100%

Neokienz (Carter Bros Shapley) Senna Leaf 40%, Payli um 271/1%, Frangula Bark 221/10 a. Fennel 10%

Neovit Elixir (Rybar Laboratories Ltd Tankerton) Aneurine Hydro chloride 8 8 mg Riboflavine 4 4 mg Pyridoxine Hydrochloride 2 2 mg Nico tinamide 66 mg Vitamin B₁₇ 11 1 g Calcum Giycerophosphate 288 mg Sod um Giycerophosphate 576 mg Potassuum Giycerophosphate 53 mg Flavouring and Preservative g a in each 100 ml

Nephritin Tablets (Stafford Hiller Ltd Hatheld) Each contains Desic cated Kidney Substance 197 mg Acaca 197 mg Corn Starch 4 33 mg Milk Sugar 37 4 mg Tale 12 6 mg Terra Alba 43 7 mg Tragacanth 93 mg

NerVoids (British Chemotheutic Products Lid Bradford) Tablets each containing Vitamuns B, 3 mg B, 1 mg A 1500 i.u. and D 400 i.u. with Nicotinamide 20 mg Caffeine 0.5 grain Folic Acid 0.25 mg Ferr Sulph. Exsic 1 5 grain

Nervone (New Era Laboratories Ltd London) Tablets containing in homeopathic potency Calcii Phosphas 3x Potassii Phosphas 3x Magnesii Phosphas 3x Sodu Phosphas 3x, Potass a Chloridum 3x, in equal proportions

Phoephas Ja Soda Phoepha Ja, Potas i Chloridum Js, in cuild proportions Neuraccia Pelles (Wiley Ld Coerty) Caffen, 1035%, Phenacean JS Structure Pelles (Wiley Ld Coerty) Caffen, 1035%, Phenacean Suph Exat Solution (1998), Pharmacenteal Lo Lid Rom(ord) Sod Sulph Exat Solution (1998), Pharmacenteal Lo Lid Rom(ord) Sod Sulph Exat Solution (1998), Pharmacenteal Lo Lid Rom(ord) Sod Sulph Exat Solution (1998), Pharmacenteal Lid Si Lident) Juny (Alcohol So Ethyl Accesste 573 Ethyl Alcohol 251 Anni Accesste 270 Provision 69 Cambor 05 Castro (2013) Perfumed 1

Nublett & (Dr.) Nerve Sedative (C. P. Vublett London) Inf Aurant Cone B P C. 0.796 v/v. 70°, Alcoholic Tincture of Cinnamon (1 in 10) 0.454 v/v. 0% Alcoholic Tincture of Calumpis (1 in 10) 0.434 v/v. Compound Tincture of Lavender (Oil of Lavender 0 50 v/v Oil of Rosemary 0 05 v/v, Cinnamon 1 00 w/v Nutmeg 1 00 w/v Red Sanders Wood 2 00 w/v Alcohol 90% to 100 00) 0 058 v/v Chlorotorm 0 113 v/v Potassium Bromide 21 770 w/v Ammonium Bromide 7 260 w/v Potassium Iodide 3 630 w/v Potassium Car bonate 0 056 w/v Caramei 0 625 w/v Aqua ad 100 00 Nigroids (Nigroid Ferru Ltd Brutol) Pelleis containing Ext Glycyrrhize

68 6% Menthol 2 06%

Nixoderm Ointment (Knax Laboratories Ltd. London) Benzoic Acid 6º Salicylic Acid 2 5% Titanium Dioxide 5% Menthol 1 1% Precipitated Sul

phur 4 50° No Del (Rybar Laboratories Ltd Tankerton) Cream containing Allyl No Del (Rybar Laboratories Ltd Tankerton) Cream containing Allyl Isothocysnate 0 im Ethyl Necounate 1 0 ml Mitthyl Sallcylate 5 ml Eugenol 0 5 ml Oil of Turpentine 12 0 ml Cholesterol 0 1 g Hydrophilic Base to 100 0 g

 Nobasa Omiment (Comden Chemical Co Lid London) Camphor 0 4%
Menthol 0 3%, Calcium Chloride 0 3%, Chloral Hydrate 0 08%
[P1] Nobasa Suppositorea (Camden Chemical Co Lid London) Each 22 g
uppository contains Chloral Hydr 0 2%, Campho. 0 4%, Menthol 0 0%, Calc Chloride 0 5%, Nostaba (Moore Medicinal Products Ltd London) Tablets each containing

Sod um Chloride 8 grains, Sodium Bicarbonate 2 grains Borax 2 gra ns Thymol

/10 grain /10 grain (Moore Medicinal Products Ltd London) Menthol 0 2%

Pril Notics Inhaland (More Medicined Producti Lid London) Pseudo-chiedrine II, drochloride 0 10% Ephedrine Hydrochloride 0 70% Epine phrine 0.05% Uctibulitaropine Bromide 0 05% (Chlorbutto 0 50% Chlorb

Nostroline (Fletcher Fletcher & Co Ltd London) Borne Acid 3 981 Cincole 0 244 Menthol 0 313 1henol 1 656 Geranium O I 0 274 Petrolatum to 100.

Nostroline Inhaler (Fletcher Fletcher & Co Ltd London) Each conta na Amphetamine 350 mg with essent sloils Notoids Pastilles (Smuth Kendon Lid London) Menthol 0 837°, Ol

Eucalyp 0 077%, Otto Ross 0-014°, Ext Giveverh, 0 893°,

[91] NORSCOTT ADDESIDE COM REMOVER (Themas Marts Lid Hounder) Bernoem 219, Compher 218, Salleyle And 10 6%, Iod ne 01%, O Renn 265%, Colledina to 100 NORSCOTT FOORT FOUNDER (Themas Literar Lid Hounder) Magnetum Sterrate 500%, Alumnanum Hydroxide 20 00%, Precip Latel (Abu & 800%), Light Magnet, Jung Chabangte 800%, Panifed (Tale 100%), Caue Phenol 1987, Magnet and Chabangte 800%, Panifed (Tale 100%), Caue Phenol 1987, Magnet 2008, Panifed (Tale 100%), Caue Phenol 1987, Magnet 2008, Panifed (Tale 100%), Panifed (Tale 100%), Caue Phenol 1987, Salley (Caue Phenol Phenol Phenol Phenol Phenol Phenol 1987, Panifed (Tale 100%), Caue Phenol Phenol Phenol 1987, Panifed (Tale 100%), Panifed (Tale 100%), Caue Phenol 1987, Panifed (Tale 100%), Panifed (Tale 100%), Caue Phenol 1987, Panifed (Tale 100%), Panifed (Tale 100%), Panifed (Tale 100%), Panifed (Tale 100%), Caue Phenol 1987, Panifed (Tale 100%), Panifed (Tale 100%), Panifed (Tale 100%), Caue Phenol 1987, Panifed (Tale 100%), Panifed (Tale 100%), Panifed (Tale 100%), Caue Phenol 1987, Panifed (Tale 100%), Panifed (Tale 100%), Caue Phenol 1987, Panifed (Tale 100%), Panifed (Tale 100%), Caue Phenol 1987, Panifed (Tale 100%), Panifed (Tale 100%), Caue Phenol 1987, Panifed (Tale 100%), Panifed (Tale 100%), Caue Phenol 1987, Panifed (Tale 100%), Panifed (Tale 100%), Caue Phenol 1987, Panifed (Tale 100%), Panifed (Tale 100%), Caue Phenol 1987, Panifed (Tale 100%), Panifed (Tale 100%), Caue Phenol 1987, Panifed (Tale 100%), Panifed (Tale 100%), Caue Phenol 1987, Panifed (Tale 100%), Panifed (Tale 100%), Caue Phenol 1987, Panifed (Tale 100%), Panifed (Tale 100%), Caue Phenol 1987, Panifed (Tale 100%), Panifed (Tale 100%), Caue Phenol 1987, Panifed (Tale 100%), Panifed (Tale 100%), Caue Phenol 1987, Panifed (Tale 100%), Panifed (Tale 100%), Caue Phenol 1987, Panifed (Tale 100%), Panifed (Tale 100%), Panifed (Tale 100%), Caue Phenol 1987, Panifed (Tale 100%), Panifed (Tal sulphonate 4 00% Herachlorophane 1 00°, Methyl Sal cviate 1 00 , Col ouring 3 00%

Noxco (Knox Laboratoriei Lid London) Tableta esch containing: Sodium N trate 1 grain Ble Salta 1 grain Aqueous Extract of Chionanthus Virgin ca (1-5) 1 /₁₆ grain Indon B C. 1934 1 /₁₆ grain. Extract Cascara Sagrada 1 /₁₈ grain.

(1) "D) 'ig gfall minin pr v. 1998 'ig grain, Extract Lescara sagreas 'ig. Nozzema Medicated Skue Crean (TF 2 Lamber Chewrel Co. Lif Earlingh) Acuve ingred enta Hearshburghane 0.50°, Menthol 0.08°, Campbor 4.04, Cleve Oul 0.180°, Euclayme Oul 0.18°, Pinanol 0.40°, [PI] Nucleonina Ritery (H) *by Lift Chemps*) Active angrederen Sod um Olyterphon 0.50%, Pictory Menthol 0.018°, Pinanol 0.40°, Ventus B P 1.00°, Text, Kola 1.66%, Ext, of Scutchines 0.16%, Tact, Nuc Ventus B P 1.00°, Menthol 1.00°, Status 1.00°, Status 1.00°, Nucleoning Status 1.00°, Status 1.00°, Clevel 1.00°, Status 1.00°, Nucleoning Status 1.00°, Status 1.00°, Clevel 1.00°, J. 10°, Nucleoning Status 1.00°, Status 1.00°, Status 1.00°, J. 10°, Nucleoning Status 1.00°, Status 1.00°, Status 1.00°, Status 1.00°, Acus 1.11%, Each or contains Ve A 2500 iu. Nr. D 500 iu. B, 0.8 mg Other Status 1.00°, Status 1.00°, Status 1.00°, Status 1.00°, Acus 1.11%, Each or contains Ve A 2500 iu. Nr. D 500 iu. B, 0.8 mg Other Status 1.00°, Status 1.00°, Status 1.00°, Status 1.00°, Nucleoning Status 1.00°, Status 1.00°, Status 1.00°, Status 1.00°, Nucleoning Status 1.00°, Status 1.00°, Status 1.00°, Status 1.00°, Acus 1.00°, Status 1.00°, Status 1.00°, Status 1.00°, Status 1.00°, Acus 1.00°, Status 1.00°, Status 1.00°, Status 1.00°, Status 1.00°, Acus 1.00°, Acus 1.00°, Acus 1.00°, Status 1.00°, Status 1.00°, Acus Acus 1.00°, Acus 1.00°, Acus 1.00°, Status 1.00°, Status 1.00°, Acus Acus 1.00°, Acus 1.00°, Acus 1.00°, Acus 1.00°, Status 1.00°, Acus 1.00°, Acus 1.00°, Status 1.00°, Acus 1

Nurse Sykes Powders (J Waterhouse & Co Ltd diston under Lyne) Each powder of approximately 8 grains contains Aspirin 56 parts lettophenendin 22 parts Caffe ne 22 parts. Nurse Sykes Tablets (1 Waterhou e & Co Ltd Ashton under-Lyne) Lact

conta as Aup r a 140 mg Acetopheneud a 55 mg Colle ne 55 mg Nylax Laxative Tablets (Entuith Clemosl cutte Produ to Lid Brod/ord)

Each contains V taman B, 2 mg V tam B, 1 mg Nicounanude 15 mg Phenolphthalein 1 S grains Eat Case S ce 0 S grain

Nylax Laxative Tablets, Mild (Bntuh Chemotheut e Prod ett Ltd liradford) Each contains. V tarun B, 2 rag Acid A cotta 15 mg Ext, Case, bagr > tc 15 grains Phenolphthal 10 grain.

Obsettes (Ruddil Products Ltd London) Tablets conts narg Est, 1 uc Ves c. 15%, Est Françuiz 25%, Est Casarz Sag 21% Diydoxyphthala-phenone (phenolphthalen) 13%, Ceram of Tarur hol 23 %, Ocular Eye Lolian (Eston Med cal Ltd Lergool) Act ve consi lucrits Sodum Chlonde J 36%, Shore, Acad 15%, Barrar 0, 15%, a cho Sulphate 0.19%

Sodium Potass um Tartrate 0 25°, D stulled Watch Hazel 6°, Benzalkonium Chlorade 0 004%

CASOFOR LUNG TORIC (Brook Parker & Co Lid Bradford) Ext. Furthe b Liq 1% Ext Glycyrrh Liq 5% 25% Alcohoi C Extract ve of Fush Eq 10 (1 n 1) 1°. Ol Anis 0 25% Theref Great 313° Syr Tolu 10°, whe theil 0 25% Sp Chlorof 2% Thereace 56 00% Copy be 0 5% Liq Fot. Hydrox. 8%

Okasa (W lliam Mart adale Wholesale Ltd London) Tablets each conta n ng 100 Vitam n A 360 i u. Vitamin B, 06 mg V tam n C 50 mg V amin D 10. Vitamin E 0 1 mg Lecution Album a (2) 0 05 g Calcium C trate 0 05 g. Calcium Phosphate 0 03 g Potassium Phosphate 0 005 g 1 otassium Sulphate

0.005 g. Magnesuan Phosphate 0.01 g. Iron Phosphate 0.01 g. Iron Lextete 0.01 g. Dr.ed. Vest 0.02 g. Lubann Crattes 000 g. Manarense Lextete 0 wg Calcum Suitete 2500 gg. Calcum Phosphate 50 gg. Zhao Phosphate 300 gg Cratte 5 gg. Cobalt Suitphate 5 gg. Oligigen Correte Face Schopher 5 gg.

ferol 800 1 u in each fi on

[P1] Omega Oil (Page Woodcock Ltd London) Paraff Liq 71 4°, Methyl Salicyi 20% Chlorof 8 6% v/v Solanaceous Alkaloida (calculated as hyos cyamine) 0 002% w/v

Opas Stomach Digestive Powder (Wigglesworth Ltd Westhoughton) Sod Bicarb 18 5% Mag Carb Pond 40% Cslc Carb 40% Bism Carb 1 5%

Opas Stomach Digestive Tablets (Wigglesworth Ltd Weithoughton) Active constituents Sod Bicarb 5 26% Msg Carb Pond 10 53% Cale Carb 10 53% Bism Carb 2 63% Opas-ol (Wirglesworth Lid Westhoughton) Mist Mag Hydrox 69 72°.

Parafi Lug 29 88% Chlorof Q 37% Vamilin Q 03%

Parafi Lug 29 88%, Chlorof 0 37°, Vamillu 0 03%, Optocur Eyr Lotton (fives) Farker & Ce Lid Bradjorf) Acid Borneum (100%, Borzt 1 50%, Zane Sulphas 0 10°, Sodium Saleryhate 0 065% Chronol 2007, Log Heinsmeist (Pread) Wirch Hatel Err Ds 195 ml, Sodium Borste 0 5 g. Zne Sulpha 0 604 g. Acid Borne. 2 0 g. Acid Sal'ej 0-623; Chlorbuild 0 00 g. Anupyrn 0 02 g. n 100 ml of solution Optrez Eyre Lation (Kridon Lid Preade) Acidum Bor cum 2 0 g. Sodium Borste 0 5 g. Laques Hammon 0 02 g. Langor 5 g. Chlorbuild 0 0 01 g. Laques Hammaldin (double dutilled) 12 55 g. m 100 g. of solution 0 01 g. Laques Hammaldin (double dutilled) 12 55 g. m 100 g. of solution 0 197 Dirag Compandi (Sulpha 0 Miller Lid Harida) 331/2%, wir of thus compound is Lead Acetate

Continues The Lot (Network, Lef Leedy) Tablets each containing Ferr Sulph Extens 33 33 me Ancurn Hydrothhor 0 83 mg =250 1 u Csic Phosph. 324 fmg Cupp Sulph 0 01 mg Owbridges 2 Lung Tanic (W T Outback Lif Hull), Active ingredents 01 Anis 0 355% (Of Caroph 0 655% Chlorof 0 716°s, Ether 0 550°s, Tinet, Copies 0 550°s, Alcoho 9 350°s, Mel Poper 41 96°s, Acteum 107%, Surges 29 61%

25 01% Owbridges & Lung Tonio Pastilles (IV T Oubridge Lid Hull) Ol Anis 007 Ol Caryoph 0.01 Chlorof 0.60 Ether 0.70 Tinet Capsie 0.14 Acetum 2 30 Mel Depur 2.77 Pastille Base ad 100 Oxion Norvo Tablets (The Giand Oxie Co Lid London) Lee thun Alb

074% Bistnuth. Carb 147% Mag Carb Pond 294% Ferr Hypophosph 147% Ol Sassafras 0-47% Ol Betul 029% Gentian 012% Aneurin Hyd 25 1 1

Orien Pills (The Giant Oxee Co Ltd London) Alom ¹/₈ grain Podoph. Res ¹/₈₀ grain, Ext Gent ¹/₈ grain, Camphor ¹/₈₄ grain Ext. Jalap ¹/₈ grain, Capacin ¹/₁₆₀ grain Succes ¹/₈₅ grain

Ozoline (Oppenheimer Son & Co Lid London) Acid Bone 2°, Thymol 0 2°, Lig Hydrog Perox (20 vol) 6 25% Adepa Lanz 20 0°, Paraff Molt to 100

P(3) Antiseptic (Ayrton Saunders & Co Ltd Laverpool) Sapo Moli Flav 17.0 Phellandrene 10.0 Terpmeol 10.0 Parachlormetarylenol 5.0 Industrial Alcohol 37 5 Aq ad 100

PC.O (Gedeon Richter Ltd London) Vitamin B, 10 mg Nicotinic Acid 30 mg Riboflavine 2 mg Pyridonine 1 mg Ferri et Ammon, Cit 8 graina Ext Hepatis Lig to 1 or

Las organis Lag to 1 or P CO Infassa (Goden Richter Lid London) Vusmun B, S mg Nucounuc P CO Infassa (Goden Richter Lid London) Vusmun B, S mg Nucounuc Acad 15 mg Ribollavine 1 mg Prindozne 0 S mg Perri et Ammon Cu. P NLL (dyrion Saunder) & Ca Lid Laterpool). Caps c. (o I soluble con ruburent) 100 S Jucen 100 Saintol 03 Ch Evacity of S Methyl Saintyl

1-0 Ol Fini Aromat, 10 0 Ol Camph, Ess. 25 0 Ol Tereb ad 100-0

Page Woodcock s Wind Fills (Page Woodcock Lid London) Each contains Aloes 1, grain Ext Gent ¹/₂ grain P Zing b ¹/₂ grain P Viprh ¹/₁₀ grain P Gentian ¹/₂ grain P Calumb ¹/₂ grain O Anthem. qs Ol Menth Pip as Ol Cass ægs

Page Barker's (Dr) Scurf and Dandruff Lotion (Frietsham Products Ltd London) Active ingred ents Acid Sal cil 0 187% Sulplur 1 rac p 0 75% Glycerin 3%

Parker & Perfect Papacea (Brook Parker & Co Ltd Bradford) Ac. Ole c. 8 75% Sol Pot Hydrox (1 1) 1 875% v/v Camphor 2% SVR 21°, Lig Ammon Fort 5% Aqua ad 100*

mmon Fort 5% Aqua ad 100% Parkinsons Blood & Stomach Pills (Parkinsons Ltd Burnley) Aloc 56% Rheum 25% Colocynth 1% OI Caryoph 1% P Caps c. 6% Passiorine Sedative (Rengué & Co Ltd II embley) Active ingredients

rassionne sedauvo (fengue & Co Ld i) emblog) Active ingretients Aquouni Errare Fassi for Incentinsi (1) 10%, Aquouni Erraret Saite (10-1) 5%, 70%, Alcohol c Extract Crategue Oxyscanths (1 25) 5%, Glycenn 17%, Patterson 8 Fills for Anzenna (ffig ene Store Lid Londo) Ferri Sulph Errue 24 113 Sod Carb Erne: 15 320 Fulv Trag 1419 Fulv vece 397, Lig Glocoum 22 695 Mang Dozode 23 406 Giscenn 5 673 Aque Dest 1 419

[P1] Paxedin Tablets (Boots Fure Drug Co Ltd, Nott igham) Each contains, Acetylsal Ac d 4 grains Phenacet 4 grains Code ne Phos 0 125 grain, Cale, Carb 1.2 grains Citric Ac d 0 4 grains

& Co Ltd London) Triplyte (Grove s brand of the combination of benzoca ne and ephedrine sulphate) camphorated phenol z ne oxide and eucalyptus ol in an emollient base

Pectomed Syrup (Medo Chemicali Itd London) Ext. Ipecse. Lag ³/₄ minim Ext Seille Lig 1 minim Lig Tolu 2 minime, Lig Amm Acet. Iurt. ¹³/₄ minime Syr of Cherres at 60 minime

¹⁴/a munus STr of Cherr es ed 60 minuta Fedrans Foca Solve (Hygelsowith Leff Perthaughton) Active constituents, Salerite Acid 183%, Manchel 045%, Thymol 045%, Campber 183%, Methyl Salerites 144%, Euclytheol 024%, Balanto Fertu 043%, Pergol Rub Gum Teething Emollesei (Darten Laboratorie Lid Black-bury) Active used ensity Tuck, Ipece 1200%, Phenol 003%, Menthul 004%, Givern 4150%, Syr Tolu 4150%, Phenol 003%, Menthul 004%, Givern 4150%, Syr Tolu 4150%, Phenol 003%, Menthul 004%, Givern 4150%, Syr Tolu 4150%, Menthul 100%, Ol Persetrol Darbori U. B. Gormande I de Landon), Ephedine 045%, Combini 100%, Fued I and 4000 00%, Australia 100%, Darbori 100%, Parent I and 4100 00%, Australia 100%, Parent I and 100%, Australia 100%, Parent I and 100

Guuçui 1 009" Farafi L e al 100 00% " Penetro Linchainan (IV B conterrynt Ld Rendem) Menthol 17 5°, OJ Cuyunt 3 0%, OI Levand, 8 0°, OI Eurshyp 5 0%, Oits Levand 4 0% Oi Menth, Pp 0.2%, Indust Meth 5pt 60.3%, John J nete holander Henthol 7. Spraine OI Lavard 7 Sun zume O lef Par 20 manum, Lavah publ 10 manum, Penetrol Penetraling Cough Syrue (IV B Contrarght Ld Rendem) Guuphenessa 0.75%, Cerpipriden um Chloride 0.0%, 60%, Alcohal edubit Eurste of Hypery 0.35%, Menthol 0005%, Acte Sall 50%, Syr Chlorid 30% Gipcer 3 3%, Spr Chlorid 3 1%, Base to 100 0%, Gipcer 3 3%, Spr Chlorid 3 1%, Base to 100 0%, Terrebando 0.04135 ge

Enhed Hydrochlor BP 0 02 g Cale Glucon, 0 0075 g Theobrom 0 04125 g Phenazon 0 08 g

Pennine Brand Eye Lotion (Thornton & Ross Lid Huddersfield) / nc Sulph 0 05 Acid Bor c 20 Ac d Sal cyl 0 025 Sod et lot Tart 0.2 Aq Harmann BPC, 1949 50 Borax 02 Methyl Hydroxybenz 002 1 repyl

Hamam D C C 1978 30 Birls C A hield 100 Peps (C S Fullor L La Loca) Table and 00 Chondo 01% Amyl Mesercerol 10% Other Hydrox Bens 1 Alcohol 40 Extract of Laquerce 24% Access 25° Method 018% Eachypted D 14% D 4% Peppermannes (O 10% Anse 0 104% Laque Extract of 1, us

Canadens s (1 1) 0 05% Peptet Indigestion Tablets (Brutish Drug Houtet Ltd, London) Calc Carb 11 5 Bam Carb 29 P Zang b 29 Pancreaun 07 Ol. Carul 03 Sacchar ad 100

Peractum Disinfectant and Antiseptic (Thornton & Ross Ltd Hudders-field) Active constituents Chloroxylenol 3% Terpineol 12%

PeriKay Chilblain Tablets (Permale Laboratories Ltd Peritale) Each contains Calcium Phosphate 2 1/4 grains Vicounamide 25 mg Acetomenaph thone 10 mg and Vitamin D 200 i u.

Persomnia (Nicholas Products Ltd Slough) Tablets each containing Salicyl amide 375 mg Phenacetin 150 mg

Pertusa Children s Cough Pastilles (Boots Pure Drug Co Ltd Notting ham) Mel Depur 5 0°, Glycer 5 5°, Ipecac Lug Ext 0 05°, Ext Scill Lig 0 05%

Pertussin (May Roberts & Co Ltd London) Ext. Thyru Liq 150 Ext Drosers Rotund Liq 012 Spint Vini (95%) 666 Glycerini Puriss 12 Syrup Seech ad 100 0

Ayrup Sech at 100 U Pharmalene (The Procter Medicinal Co. Stockport) Outment containing Petroleum Jelly 13%, Petroleum Wax 10%, Pale Ream 5% Oil Eucalyptus 10% Methyl 54 Ze, T: Chlorophyl q: Theonoline (Curcon General & Co. Lid. Okhbury) Tra iodophenol 0.02%, Methyl Sakerkat 0.01%, Phenol. 95% Bone And 2%

Phensic Tableta (Becham Pharmaceutada Ltd St Helena) Acetylsal Acid 63 50% Phenacet 20 00% Calleune 6 57% Excup ad 100 00%

Acia os 30%, Prenacet 20.00%, Calitène è 51%, Excip ad 100.00% Pherihan Tanlo Tablei (MacLeanna Brand Froducti Lid London) Each contains Calcu Phosph ¼, grain Ferr Phosph, ¼, grain Quinin Sulph. ¼, grain Chlorophyll ¼, grain Cereva Ferment 3½ grains Phillips Tonlo Yeast Zableis (Phillips Yeast Froducti Lid London) Each

contains Yeast 4 grains (Each g contains Ancurne 110-135 µg Riboflavine 45 53 µg Nicolinic Acid 350-525 µg Pyridoxine 30-35 µg Pantotheme

43 35 μg (Nicolinic Acia 330-353 μg) (Prinosnine 30-35 μg) μαιροποδια Acid 45 52 μg) (FI] Phocal (Ayrion Saunderi & Co Lid Literpool) Contains in such fi os Pholocoline 32 mg Ext Coccilion Lig 8 minums, Ext Boill Lig 2 minums 45% slochol] 20 minums Ext. Seneg Lig 2 minums Ext Boill Lig 2 minums Ext Case, 15 minums Grocer 60 minums Anium, et Poill Lig 2 minums

Liff Case 15 milling circle water in the second of the sec

tain ng Phalcodine 4 mg an a menthol ted aromatic base [Pi] Phoseodin Tablets (Waglemonth Ltd Westhoughton) Each tablet of 10 grains contains Acetylaslicylic Acid 4 grains Phenseenn 4 grains Codeine Phosphate 1/s grain

Phosferine (Beecham Pharmaceuticals Ltd St Heleni) Cinchonidine Sulphate 0.06 Quintne Sulphate 0.47 Dilute I hosphorie Acid 77 90 Glycerophosphorie Acid 0 06 Rectified Spirit 6 00 Base to 100

Phosfering Tablets (Beecham Pharmaceuticals Ltd. St. Helens) Cinchony dine Sulphate 0 06 Qu nine Sulphate 0 56 Phosphoric Acid 8 54 Glycero-phosphoric Acid 0 07 Glycerm 7 43 Lemon Oil 0 52, Base to 100

[P1] Phospho Lecithin, Wampole (Veubery & Phillips Ltd London) Contains an esch floz. Sodum Gjeerophosphate S grans. Gleum Gjeerophosphate 4 grans Potassum Gjeerophosphate 2 grans, Strychnure Gjeerophosphate 1/4 grans. Leetuhn 1/4 grans. Cochureal 1/6 grans, Sucrose 184 grans. Puneapple Flwour 1/6 grans. Alcohol 14%

Phon-Qu Ron Tablets (Brook Parker & Co Ltd Bradford) Ferr Glycero-phosphas 12 S Ferr Phosph Sacch 6 25 Quinine Sulphas 0 6875, Calc Hypophosph 23 0 Errip ad 100 Phyliosan Tablets (Bercham Phormacreaticals Ltd St Helen) Each tablet

5.8° o, in Stenlised Tale.

Pickles Foot Ointment (J Pickles & Sons Harrorate) Contains Arid. Pictures Ford online of Annue to Gong Herrogow, Commission Saltylic 50% and Parafinum Molle Flar 50% Prerre s (Father) Monastery Herbs (Monkstaton Herbalists Ltd Salford)

Active ingredients (%) Frangula 2 500 Sennæ Folium 65 250 Ispaghula 6 750 Spiræ Ulmaria 5 125 Maté Folia 13 500 Uritea Dioica 6 750

9 130 Spirra UIDMIR 3 142 NAME FOR 17 JOH UTICE DIOLE 0 150 Pinneale Honey Couph-Spirrup (International Chemical Co. Lit London) Active constituents (% w/w) OI Menth Pip 0075 OI Pini Purul 016 Oli of Spivers Pine 04 Menthed 10 Spirro Field 13 04 Ling Tolu 411 Est piece. Ling 0 35 Honey 29 00 Gityeenn 700 Syr 28 76 "Interprove statistics (homena Ling Anceastics on Tyne) Menthel 0 548 OI

Eucalyp 0.842 01 Pan Purel 0.240 Saccharn 0.003 Gelat, 2.0 Dextrose 24.0 Sucros 30.0 Acae 42 367 Art Saffron ga

Pinkettes (The Dr Williams Medicine Co Hatch End) Pills cach containing Aloin 1/4 grain Podoph. Res 3/24 grain Oleorea Zingib 1/2 grain.

Program (Avron Sanders & Co Ltd Larpool) Properatin 40 Reaming mun 35 Lth Saltey BPC 1949 08 Lth Benz BPC, 1934 07 Sod Phosph Exat 23 Effervencent Base to 100 0

Parisol Junior Asparin (Cupal Ltd Elachburn) Orange flavoured tablets each containing: Asparin 1 250 grains Aluminium Glycinate 0 167 grain

ech containing Aprim 12:0 grains Alumnum Girginais 0167 prim Relam Gaborato 0137 grass 0 Gark Acid 0125 prim Ante containing Acid (Per Article 1997) and Chier Acid 0125 prim Ante containing Acid (Per Article 1997) and Acid 1997 (Alumnum Article 1997) Please (Growne Leberlanese 1) 25% (Cathon, 125%) (Column 0.95%) Please (Growne Leberlanese Lid Turkenham) 100 tables contain Eat Salvin (Getassiet) 4 g. Eat Fell Bor 4 g. Cerving Fernandi 9 ce 4 g. Planzin (Fellist) (Best Field Bor 4 g. Cerving Fernandi 9 ce 4 g. Planzin (Fellist) (Best Field Bor 4 g. Cerving Fernandi 9 ce 4 g. Planzin (Fellist) (Best Field Bor 4 g. Cerving Fernandi 9 ce 4 g. Planzin (Fellist) (Best Field Bor 4 g. Cerving Fernandi 9 ce 4 g. Planzin (Fellist) (Best Field Cerving 10 fellist) (Best Acid 19 fellist) Sing (Vinamin Clifforg Vinamin D 160) (Columnum B) 6 mg. Nicotainsmide (Grand graf) 0 0 6 g. Aneurica (Nicotaborati 6 mg. Nicotainsmide (Grand graf) 0 6 g. Aneurica (Nicotaborati 6 mg. Nicotainsmide) emude 10 mg

Pil Pommade Midy (Wilcor Joseps & Co Ltd London). Advinaline 66 mg Chlorhydrate d Amylenne 1 g Ethoforme 1 g Extrait de Marcon d Inde frais stabilise 250 g. Extrait d Hamamelis 0 50 g. Vasti ne et Lanchine 49 s. 100 g

Post's C.B.Q (A M Post & Co Madstone) Tablets containing Pot Iod 21 88% Ext. Cuchong 12ª, Ac Salicylic 1 78%

Potter's Acidosis Tablets (Potter's (Herbal Suppl rs) Ltd Wigan) An se 2% Caraway 12% Cardamom Seed 2% Cunnamon 2% Meadowweet 64%

Potter's Balm of Gilead Cough Mixture (Patter's (Herbal Suppl et) 1 td Bigan) Acet Seil 4 37% Chlorof 0 54% Ipecae, Liq Ext 0 04% Liquarke

Drgon, Acet Scul + 3/7 Laboret U 375, press List U 475, Liquorde Lug Ext. 300%, Rect Spirit 039%, 30%, stoch set 1-1 from 1%, fallen of Gieda Buds and 2%, Lunewort Lachen Syr. 72.00%, Water to 100 Potter s Catarrh Pastilles (Potter & Catarrh Lad Ilberian). Ol 1 nn Syr 041 01 Pini Pamil 041, OL Eucallyn 002 Creoce, 02 Membiol 033 Thymol 023 squeous extractive from Althened 55 Basis (E 100 _____).

Potter & Cheisca Pensioner Tablets (Potter ; (Herbal Supplies) Ltd Wigon) Each contains Guasacum Res n 1/2 grain Rhuberb 1/2 grain 1 olasuum Acid Tartrate 2 ara ns Sublanced Sulphur 6 grains Yuumg 1/2 grain 1 olasuum Potter s Buodenai Ulcer Tablest (Patters (Herbol Supplice) Lid Hugan)

Forter's Europenal Cicer Labers (reserve Support) Lab (1) and Confirer Root (%) gran Charles Wikers (*) gran Loke Root (gran Golden Seal Root (*) gran (Arshmallow Root (*) gran Loke Root (gran Potters Elder Flowers and Peppermint with Composition Exercise (Potters (Herbal Supplies Ltd Wigan) Ol Memb Pup 0 188*, Ol Cerry ph. 0 02% OI Piment 0 02°, with the aqueous extractive I-1 from 1 5°, Oak

Bark 3 0% Bayberry 1 5% G nger 6% Hemlock Spruce 1 5% Capsicum and 30 0% Sambucus with Benzoic Acid 0 093% and Syrup to 100

Patter a Herbai Blood Campoind (Petter's (Herbai Supplie) Ltd Wigan) Patter a Herbai Blood Campoind (Petter's (Herbai Supplie) Ltd Wigan) Tinet Capsici 0.5% Pot Iod 0.24% Miss, Senne Co. 55% OI Sassifiras 0.002% aqueous extract ve from 5% Sarsaparilla 5% Blue Flag 2% Clover 0.5% Caquacum Wood 5% Burdeck 0.5% Laqueoree and 5% Yellow Dock Aqua to 100

Potter's Natural Herb Tablets (Potter's (Herbal Supples) Ltd Wigan) Holy Thistle 1 grain Aloes 1/2 grain Fennel 1/2 grain Myrth 1/2 grain Scullcap 1 grain Podophyllum 1 grain Valerian 1/2 grain Lime Flowers 1/2 grain

Potter's Peerless Composition Essence (Potter's (Herbal Supplies) Ltd Vigon Aqueous extract ve 11 from 3% Hayberry Bark 15°° Capace. 15% Ginger 2.0% Cak Bark 30% Prinus Canad Bark 10°° Projar Bark and 19% Precky Ash Bark va th Benzon Cadd 0015°. Cholorf 0.29% Clove Oh 0.03% Canam 01.0.02% Pumento O1 0.02% Recufied Spirit 4.00% Syrup 60 00°, and Water to 100

Powell's Balsam of Aniseed (Neubery & Phill ps Ltd London) Ol Anis rowell's battanti of Antiseed (Writery & Find pt Lin London) Of Antis 0.25% Ard Benz 0.2% alcohol solution containent of Benzion 78%, Ext Sail (2m 1)4% Ert Gheyrth 10% Giscenn 12.3% Mol Deput 10% Preparation H Olitutent and Suppositorics (International Chemical Co Ld London) The slobble obstacts of Lov Seast Cells 20% Shark

Laver Oil 3%

Liver Oil 3%. Frinnes (Vick International Ltd London) Tablets containing: Dicyclomun Hydrochlor 0.089, Mig Trail 197%, Dried Alum Hydrox, Gel 6 22% Light Mag Carb. 7 78%, Creiz 12 47%, Peppermunt Oil 0 2% Frinnoulas (Smith Kendon Ltd London), Angmon Chlor 5 000 Menthol

0 333 Ol Ania 0 191 Ext. Glycyrrh ad 100 000

5 33 Of Ania D Fri Erk Cipejerin ad 100 000 Fronel (Facilitä & Joinson Lifd London) (a) Multwitarum Capsules each contain ng Vitamin A 2003 iu Vitamin D 300 iu. Vitamin B 0 5 mg Vitamin B 0 5 mg Vitamin C 150 mg Nicotiaram de 7 5 mg Calsin 2000 mg (b) Maeril Capsules each containing Ferrous Subphate to give Iron 10 mg Dicale um Photphate to give Calsion 27 mg and Photpharen 21 6 mg. Manganese Sulphate to give Manganese 0.5 mg Sod um Molybdate to give Molybdenum 0.1 mg Potasaum Iodida to give Iodine 0.15 mg Gelatin 200 0 mg (c) Flavoured crystals containing pure Gelatin Concentrate Protein 85-87% Sugar and Citne Acid

Propax (Lillyuh te (Propax) Ltd Nott ngham) Tablets each containing Acid Acetylsalicyl 3.5 grains Acetopheneudin 2.0 grains Phenolphthal 0 166 graun

Properts Inolals (Properts Breatof) Active constituents Resonanti 1176% Ilydrargyri Subchloridum 1176%, Laquor P eis Carbons (Meth.) 8 235% Pro Plus Tablets (Aite Laboratorier Lid Leatherhead) Each conta na

Caffe he 50 mg

Call ne 30 mg (Call ne 30 mg (Pd) Productar Tables (Widow Josens & Ch. Lef London) Each contants (Pd) Productar Do 005 c Area Acro 00 to Ext. Belledonno 00 fg Casas 00 fg Euroyan 00 fg Area 10 fg Erec pert a to 04 04 g (Pd) Pulano fisilly (Bengué & Co Lef Workley) Guasaco 150% Codene 01% Aced Phosph (50%) 310% Excepted 14 00% Pularen (H & T. Ney & Co Lef London) Tablet each containing Pularen (H & T. Ney & Co Lef London) Tablet each containing (Pd) Pularen (H & T. Ney & Co Lef London) Tablet each containing

Freenopmanic n $1^{\circ}_{J_{R}}$ grand [G1] Purgolds (Evons Victural Ltd Leverpool) Tablets each containing Phenolphthale n 1 grann Alo n 1 grann Eat Bellad S cc. D P 1 Ing grann. Pylatum Regulators (Evonder Alemanecentoda Lid London) Active ingred ents Scan Fol 3% Ext Case: Sag S cc. 55%, Aloan 15%, Publy Colorynth 6% Ologiesan Longb 4%, Ol Nenth 10 p 4%, DW SBp Casul 1 5º, Exc p ent ad 100

Pylitna Aperient Tablets (Sangers Ltd London) Each contains Fxt Case. Sager Sec. 2 gra ns Aloe 1/11 grain Rheu n 1/11 gra n Oleores Zingib 1/11 grain Glycyrrh. 1/se grain

(FI) Pyluina Ointment (Sangers Ltd London) Ext Bellad Vinde 9 35°, Gallar Cerulere 18 70°, Cyllin 2 92% Adeps Lanze 31 58% Paraff Leq 14.12°, Paraff Moll Flav 23 33%.

Pylitina Powders (Sangers Lid London) Pot Nitras 1 739°, Cubeba 6 956°, Clycyrth 17 393%, Sulphur Subhan, 13 913°, Mag Carb Pond 13 913°, Pot Tart And 13 913°, Carchova 6 950°, Cascarill 11 304°, Acac 13 913°.

Ounacinas Anti-Cold Tablets (Roberts Chemists (Bond Street) Ltd London) Each contains Quinne B sulphate 65 mg Aaptrin 194 mg Vitamin C 3 mg Quinacinas Elixir (Roberts Chemisti (Bond Street) Lid London) Active

(PI) Quinnes Jupate 2 55% Oil of Cinnamon 0.04% (PI) Quinasp Influenza Capules (Satory & Moore Lid London) Each contains Quinne Hydrobromide 64 8 mg Atropine Sulphate 0.217 mg

contains Quarane Hydrobromide 64 mg² Attopane Sulphate 0217 mg² Complex 63 mg² Apra m 194 Om grans Germath & Co Lid Oldiny) Lag Quaran Ammon 50 0%, Tinet Bellad BP 6 25%, v/v Campb 1 25% c/y extra 20% Ext Canchon 025%, Mast machine Statistics Quaran Ammon 50 0%, Tinet Bellad BP 6 25%, v/v Campb 1 25% Quarderm Cream (Ageroi # Lid, Oldham) Pet, Hydrosyquenolne Sul Jance 03%, Dennol Fernancia dr. Mast machine Craam Bies at D00 Jance 100%, Lag Perin Perchaol of 00%, Aast machine 1025%, Lag lermaldedyd 005% Ag ad 100%, Quarbos Tablets (Trappane & Coder Lid Lerposi) Quaran Phorphas Quarbos Tablets (Trappane & Coder Lid Lerposi) Quaran Phorphas Quarbos Tablets (Trappane & Coder Lid Lerposi) Quaran Phorphas Quarbos Tablets (Trappane & Coder Lid Lerposi) Quaran Phorphas Quarbos Tablets (Trappane & Coder Lid Lerposi) Quaran Phorphas Cal 2 & Sucress at 100 Nm

Gal 28 Sucros ad 100

Rabro Dutch Gastric Ulcer Tablets (Macu II & Co Ltd American-on Thames) Each contains Block Liquorice 300 mg B amuthi bubnitras 350 mg Magnesii Carbonas Levis 400 mg Sod i Bicarbonas 200 mg Frangula 25 mg Calamus 25 mg

Radian Massage Cream (Radiol Clemicali Ltd London) Olcores Capsic, 0 042 Camphor I 410 Methyl Salicylate 0-420 Ol Camph. Rect. 0 210, Menthol 2 540 Base ad 100 000

Radian Ovals (Radiol Ciem cals Ltd London) Lithuum Carbonate 0 70 Lithuum Benzoste 0 70 Potessium Natrate 0 70 Hexam no 0 70 Gualacol 0 70 Ext Uva Uras 0 25 Ext, Bachu 0 25 Exc pient ad 100 00

Radian Soothing Cream (Rad of Ciem coli Ltd London) Menthol 2 40 Camphor 0 20 Glycenn 1 00 Acnflavine 0 01 Cream Base ad 100-00

Radian a Spirit Dressing (Radiol Chemicals Itd London) Gus arol 5 2 Menthol 5 2 Camphor 1 7 Creosote 12 8 Methyl Sal cylate 21 3 Alcohol ad 100 0

Radian-B Aspirin Spirit Liniment (Radial Clemicals Ltd, London) Alcohol 66 00 Menthol 3 30 Camphor 0 69 Acidum Acetylsalicyl cum 1 20 Ol C tronell 0 60 Methyl Salicylate 0 60 Glycenn 1 60 Liq Ainmon F rt. 1 05 Aqua ad 100 00

1 05 Aqua ad 100 00 Raifers (Every Ltd Southampton) A solid embrocation conta n ng Circ I Salershier 5 01% Ebyl 5 Sales 20 0% Methyl Salershier 0 00% Capston 10% Methyl Duby Sales (Roade Brothers & Co. Lt I Solid rid an Nord Camph 0 54% Zane Oxid 38% Acad Borne. 10% Dorras 0 8% I brand Lag 0 13% Of Arach 21% Lanced Brothers 17 Molt Ab 27% Reades Express Forwalers (Roade Brother X Co. LL I Solid Archiony And Acts on gardening Sales 180% Acad Device of a 13% Academia for Acts on gardening Sales 180% Academic of a 13% Academia for Acts on gardening Sales 180% Academic of a 13% Academia for Academic Sales 18% Academic of a 13% Academic for 18% Of Sales 18%

Acid 20% Caffient 3 3 Mainte 20 Backgrand and Acid 20% Caffient 3 3 Mainte 20 Backgrand and Acid 20% Reade s Express Tablets (Reade Brotiers & Co Ltd Wolverhampton) Bach contains Sal cylaim de 14 gran a Acetopheneudun 1 grain Acid Acetyl sal cyl 11/2 grains Caffein 3/2 grain

Red Crown Embrocation (Brook Parker & Co Ltd Bridford). Am non. Chlorid 1 25°, Sapo Moll 17 54° Ol Tereb nth 25 00°, Aqua ad 100 ,

Red Velvet Capsules (Ha land Harty & Co Lon lon) Each contains Q ini dine Sulphate 0 001 g Quirune Dihydrochlonde 0 075 g Ascorbic Acid 0 150 g

[P1] Red Velvet Catarrh and Threat Pastilles (Hailand Harty & Co London) Ac Acet Glac 1 67% Chlorof 1 6°, Morph Hyd 0-037% Ol Menth Pip 0 01°, Ext Scille Lig 0 6°, Ac. Benz 0 15°, Camph. and Ol Anisi aa 0 09°

[P1] Red Velvet Junior Syrup (Ha land Harty & Co London) Contains in each fl oz Pholeodine 15 mg

Redux Herbal Tca (Promedico Products Ltd London) Herba Viola: Tric 27 5 Herba Asperulæ Odor 79 Herba Rubs Fruct 66 Flor Cyani sine Cal 12 Fol Senna 450 Fol Thea Ind 17 Hor Calendula 11 Flor Arnice 11 Herba Rubi Idas 79

Regesan Branchial Cough Mixture (Boots Pure Drug Co Ltd Nott ngham) Ammon Chlor 2 2 Anumon Carb 1 35°, Ext Scill Liq 0 42% Ext Inecae Liq 0 1°, Succus Liquinitie 0 5% Giver 50°, Inf Store BP 1948 7 0°

Regesan Embracation (Boott Pure Drug Co Ltd Nottingham) Menthol 4% Eucalyp 2.0% OI Cajuput 0.5% OI Eucalyp 1.5% Methyl Sahcyl 2 40 14 2%

¹Regesan Gripe Mitture (Boot: Pare Dray Co Lid Notingham) Sod Bucarb 10%, Tingt Zangb Mit 05% Aq Can Cone 15%, Aq Menth Vir Cone 001%, Aq Menth Pip Cone 001%, Restlifed Spril 0.0° Reggesan Indigestuan Mixture (Boots Fure Drug Co Lid Notingham) Neg_Carb, Lev J, 1 Sod Buserb 31 Cate Carb 23 01 Menth Pip 008

Ag Chlorot ad 100 Regosan Morning Salta (Boots Pure Drug Co Ltd Nottingham) Mag Sulph 84 25 Sod Chlor 10 0 Pot, Sulph 0 5 Sod Sulph, 50 Lith Cit 0 25

Regoids Laxative Tableis (Boots Pure Drug Co Lid Nottingham) Each contains Phenolphthalein 2 grains

Reg u letts (Cupal Ltd Blackburn) Tablets each containing Phenolohthalein 2 grains, in Chocolate Basia B P Relaxa Tabs (International Laboratories Ltd Chessington) Tablets each

Actinat has (international Loboratoriet Lid Cherington) Indets each containing Lacity/phenetidu [1] grains Pheneticu 3/1 grains Prep Ipeca. 10, grain Calcium Phosphate 2/1 grains Roman Pile Outiment (Brook Parker & Ca Ltd Bradford) Bism. Sub pail 5% Gall B P C 10% Z no Oxad 10% Cemph 3% Phenol 2% Eat Higman Sice 2% Base ad 10%

Rentpas Analgesic Powder (Rempas Chemical Co Ltd Briehtan) Puly Phenacet, 12 Catfein Cit 2.5 Acid Acetylsalicyl 60 with solid and liquid ancillaries q a to 100

Renipas Analgesic Tablets (Rempas Chemical Co Lid Brighton) Puly Phenacet 12 Callein Cit 2 5 Acid Acetylisheyl 60 with solid and liquid ancillaries g a to 100

Rempas Constipation Tablets (Rempat Chemical Co. Ltd. Brighton) Ext Case Sag 48°, Alon 19°, Res Podophylli 6°, combined with solid and lıq d ancillaries q s

Rempas Liniment (Ren pas Chemical Co Ltd Brighton) Lin Sapon 105 Acid Acetue 0.28 Tr Iods 1.3 Lig Ammon Port, 1.3 Ol Terebiath

10.2 A deal access to a fir peak a lag Amilton role 15 of telesame Renones (Dorshi) Tables (Meldes Produt, Lid Skogh) Lettor (Marss 10: dong Lett) Tables (Meldes Produt, Lid Skogh) Lettor (Marss 10: dong Lett 0 0013 g) Calca Carlonae 0 0716 g; (Kolatura Lettor (Marss 10: dong Lett 0 0013) g) Calca Carlonae 0 0716 g; (Kolatura Lettor (Marss 10: dong Lettor) (Marss 10: dong 1

O ntment Base ad 100 0

[P1] Resultin Tablets (Resultin Ltd London) Each contains, Papavering Sulphas 0 0470 grain Theophyll ne 0 2625 grain Ephedring Hydrochlor 0 4590 grs n Theobromins 0 5775 gram, Calca Gluconas 0 7"00 grain Phen azonum 1 5400 graina

Reudel Bath Salts (International Chemical Co Ltd London) Sod Carb Fasc 49 9° , Sod B carb 23 55° , Boraz 10 1° , Sod Chlorid, 0 22° , Sod Sulph 0 01°, Kaolus Pond, 2 42% (Pll Regail Bronchial and Catarrh Syrup (Regail Drug Co Ltd Loug) [71] Rérain aronchiai and Latarra Syrup (Recail Drug Co. Lid. Low), borough Cale Lettophoph 023% Quana Hydrochior 002°, Codein Photph B P 003% wy Creaset 012% Timet Acount B P C, 19490 18° vi Recail Chuldren s Aspuran Tableis (Recail Drug Co. Lid. Deughbor abh Acid Acetilisaicy) 12% grans Acid Citic 'la grain Cale. Carbonate 'lagran

Raspberry flavoured

Rexall Cold Sore Lotion (Rezall Drug Co Ltd Lo gl borowsh) Benzom 4 95% Camphor 2 18% Phenol 0 36% Menthol 0 26% Industrial Viethylated Sourt to 100°,

Rexall Orderlies (Rexall Drug Co Ltd Loughborough) Tablets each containing Phenolphthalein 2 grains

Rheumester Creara (Roure of Wigmore Street Ltd London) Ethyl Sabey late 6% Guaacyl Nicotunate 1% Methyl Nicotunate 1° 10 s water mischle non greasy deep penetrating base

[P1] Rhunotone Nasal Drops (Wade Pharmaceuticale Ltd Glargore) C neole

[Pi] Rinnotone Nasel Drops (Wale Harmacenteal: Ld Chuyes) C noise 10% Camphot 14% Coreol 06% Ephotence 0135 Chiphannobencoute 10% Ohi of Melalence 90% Verechle Oil Base to 100% All continues and the second of the Melalence 1020 (11% (14) Een Acat Ra continues and anoma Melag Sem 0.009% negether such Far Giltyrrit Fal 1 666% and Anoma Melag Sem 0.009% negether such Far Giltyrrit Cons. (Rhusia) 0.90% Colorof 0.21% Agus Date to 10000% Rhumatione Cream (Lambert Chem 16 Co. Lid Earlingh) Acave negetiento Olesena Chen and 0.% Benaj Nacet and 10% Nace-sell pick Acd Oyce Istar 1 % Complet 10% Giltyrrit (16 Resempt)

0 5% Excup ent q s

(1) Symposition of the state is See Led Leventry Conturn to see if 0 as product Hydrochildro (1) and Saver Hydrocheldr (4) ong Hibber 20 org, Nucotrandi 30 0 ang Led Sod Giyerrophosph 4 manani Leg Pot Giyerrophosph Dock 7 minums (Led Giyerrophosph 4 symma, Ning Giyerrophosph 0) addition and (1) field Product Led London) 95°, Alcohol 5 oft Extract (5) Sproging 67 per Gyman Sharer (1) and 37°, Light 1) (3) Sproging 67 per Gyman Sharer (1) and 37°, Light 1)

L guid Paraffin ad 100%

Lequis presente 100% (FI) Rédocia Education e Hydro-Moriel d'a Losskov Egenethene 1% Episcoma (Merch) Enter Hydro-Moriel 05. P. partyrenze 065% (Institution (Merch) 2019) A Buyl annobenzo 1 donnth Jannovethane (Institution (RC 2%) Given 15% D stilled Vater to 100% Emissional Fastilles for Sore Gams (If arnet Brisler Lid Coverry) Vantol 0.05% Jayrin 0.1% Solid an Exception 15% Characterized 0.05%

Phenolphthalein 0 06% Tartaric Acid 0 26°

Roberts Finer Vapour Ruber Krister Artis Volgen, Roberts Finer Vapour Rub (Roberts Crouplene Lid Bolton) Camphon 6° Menthol 3% Of Terrebunth. 5° Of Euralyp Of Myrist. Oleum Peni 5yl vestris Oleum Cedita al ¹⁰/₂ Thyrmol 0 25% Guasteol 0 01°, Bals Peruv 0 6% Paraff Moli Alb Ad 100%.

9 00% print wold AU active Samarth & Sour London) Camphone 112: 9 Reche & Embreccian Reference 0076°, Ol Capupiti 0076°, Colour e Ol and Capupiti 0076°, Colour e Rotercholon (FAIR Laboratores Lof Incerbaion) Dargets enth Constauring Curcum Rhar. 120 mg Ext Fell Bor 65 nm Ol Venth Fp Iong, Ol Fennes ang OL Ganz ang Abe Full's Sng Foloph I nm (Canz) Samarthan Sam Salicyl Methyl 2 mg Sucros 200 mg

[Pil Rouse & Compound Adrenalin Cream (Rous of Wigmore Street Ltd. [11] HOUSE & COMPOSIDE AGENERALIS LEVEN (KENES) Without Stiff Life London) Active ingredients: Adresalue Lins 5000 Ephedime Lin 1000 Vietabol 1º Oli of Eucalyrous 1%, all w/w Ruban (Exam Medical Lit Liverpool) Active constituents. Gived Viet episte 2 00° Active) Nicotinate 0 75% Observation of Cospicum 0 20% in a 1 on

greasy base

Rybaform Gargle (Rybar Laboratories Ltd Tunkerton) Active ingirdient"

Chlorimated xylenol 1 0% Rybar C T.A for Insect Bites (Rybar Laboratories Lid Tankerton) (cuve ingredient Chlorinated Tar Acids (Chloro-Benz)1 Crevol) 2 00, 1/4

Rymel Children & Cough Mirture (R)bar Laboratories Lid Tankerton) Ext Ipecas Liq 0.2°, Acid Acette 0.75°, Muc Chond Crisp 17.0°, Syrupus 17.0°, Ext Seille Liq 0.4% Sod Cutrat. 1.0°, Glycerin 17.0°, Colourng and Flavouring q a

S.N.A. Soluble Neutral Aspura Tablets (Wigglesworth Ltd Weithoughton) Each contains Acetylsalicylic Acid 5 grains Calcium Carbonate 12/, grains, Citric Acid 1/2 grain.

St lames Balm (Medico Biological Laboratories Ltd London) Broth filtrate of the germs of skin infections (Streptococci Staphylococci B pyocy aneus) 12.5 Ichthammol 2.8 Zane Oxide 20.0 Liquid Paraffin 10.5 Yellow Soft Paraffin 28 0 Ures 01 Borax 01 Anhydrous Lanolin ad 100

Sal Alterata (Wyleys Ltd Coventry) Strontum Lactate 0.30 Lithium Sal Alterate (1) year Late Confering) Strontium Laterate of the Latinum Ciritate 015 Caffenc Ciritate 003 Quantume Phosphate 005 Sodium Benzoste 023 Sodium Formate 008 Calcium Lateraphosphate 015 Magnesum Sulphate 800 Sodium Sulphate 3000 Potssium Sodium Citro tartrate 6100 [11] Sal Antisepticus (Calc Bairs & Co_Lid London) Acetanide 2.24 w/w Liquor Antiseptic Conc (Menthol Thymol Eucalyptol Salicylate of Methyl) 4 63 Sodu Sulphocarbol 5 00 Sodu Chlorid Pur 25 00 Acid Boric, Subhl 60 76 Acid, Benzoici Co 2 00 Phenol0 25 w/w Chloral Hydrate 0 12w/w

Salvita Granules (Coates & Cooper Ltd West Drayton) Stronty Lactas 0 30 Lathit Carbonas 0 15 Caffein et Quinin Citras 0 80 Sodit Formabenzoas 1 60 Calcu Lactophosphas 0 15 Potassu et Sadu Citrotartras 59-00 Magnesu Sulphas 8 00 Sodit Sulphas 30 00

[P1] Sanderson's Cough Linctus (Sanderson & (Chemsits) Ltd Manchester) 60°, Alcohol Extract of Cardamom Seed (1 tn 10) 2 1°, Caraway Oil 0 0026°, Cunnamon Oil 0 0026°, 96% Alcohol Extract of Cudbear (1 tn 8) 0 23°, Morphune Anhydrous 0 05°, w/v Codeme 0 002°, w/v Citrie Acid 0 03°,

Morphine Aphydrous 100%, m/r Codenne UNAG w/r Cuine neu o so o Alchal (90%) 105%, Strug 2011%, Actina Achal (27%) Extra Strug 2011%, Actina Achal (27%) Extra Strug 2011%, Actina Achal (27%) Extra Strug 2011%, and and an Actina Achal (27%) Extra Strug 2011%, and and an Actina Achal (27%) Extra Strug 2011%, and and an Actina Achal (27%) Extra Strug Santonas Antiseptus Hygiene Tablets (17) A Readel Lo Ald Oldony 5 Each contains (18%), and Strug 2014%, Santonas Antiseptus Hygiene Tablets (17) A Readel Lo Actina Antiseptus Hygiene Tablets (17) A Readel Lo Actina Antiseptus Hygiene Tablets (17) A Readel Lo Actina Actina 10%, Iversions (18%), and Actina Actina (18%), and and actina (18%), and and actina (18%), and and actina (18%), and a strug actina (18%), and a strug

loaming Base 41 0° Excipient 21 0° Perfume q a

Scan (Allcock Products Ltd Literpool) Eye drops containing Sodium Borate 1 1° Borie Acid 2 5° Distilled Witch Hizzi Extract 12 5° Methy Hydroxybenzone 0 056% Ethyl Hydroxybenzone 0 012% Propsi Hydroxy Methyl benzoate 0-012°

Scholl s (Dr) Foot Cream (The Scholl Mfg Co Ltd London) Camphor 2.9 Methyl Salicyl 2.9, Bans ad 100.00

Schoil s (Dr.) Foot Powder (The Schall Mrs. Co. Ltd. London). Sodium-Copper Chlorophilup. 0 02%, Benzalkonaum Chloroh do 10%, Alumanium Chloroh droxide 12 50%, Powder Base to 100 00%

Sciargo (Potter's (Herbal Supplies) Ltd Wigon) Clivers Uva Ura Wild Carrot, Shepherd's Purse of each 22°, Juniper Berries 12° Scott's (Dr) Billous and Liver Pills (W Lambert & Co Ltd Lancing)

Uncoated Alors Soc 16 56°, Alors Barb 10 94°, Rhei 16 25°, /ing b 13 75°, Sapo 12 5°, Scam Ras 20°, Glycyrr 2 5°, Excipients 7 5°, (OI Caryoph, S V R Aq) Scott & Emulsion (Scott & Bourne Ltd London) Cod laver Oil 40°.

Gliverin 8° Cale Il pophosph 1°, Sod Hypophosph 0.5°, Scott a Medicinal Charcoal Riscutts (H. 11 Scott (Ipurch) Ltd Ipurch)

Contain Carbo I igni B B C 1934 12 1/ "Portsmouth Tablets each containing, [P1] Seclar (Brohom Tatlord & Co Las Portsmouth Tablets each containing, Acid Acethicalary 32 65% I herarct 32 65% Codem D P 0 99% w/w Base to 6 Litains,

[P1] Sedets (Revall Drug Co Itd Loughborough) Tablets each containing "slicylamide 5 gra na Codeme Phosphate 1/2 grain 1 henacetin 21/2 grains Caffeine 1 grain 1 henolpl thalein 1/a grain,

SEK Oinfrient (International Chemical Ca Ltd, Londor) Active con-stituents Sodium Propionste 12 19. Sodium Sulphonicemate 0 15%, Actd 1 5% Zine Capritate 4 9% Dicett Sodium Sulphonicemate 0 15%, Selaxa Senna Laxative Pastilles (Boott Part Drug Co Ltd, Notingham)

Each contains the active constituents of 12 grains of senns pod (equivalent to six senna pods)

Sentor Antiseptic Stick (Smith & Nephers Pharmaceuticals Ltd, Welwyn Garden Chy) Active ingredients Allanton 0 1% Hexachlorophane 025° a Resortunol Monoacetate 2° e Precipated Sulphur 1°, Zine Oxide 2° ([91] September La Containa (Containa) (Co

Cetylpyridinium Chloride 3 mg Benzocame B P 2 mg

Serocalcin (Eucryl Ltd Southampton) Tablets each containing 0 035 g of a mixture of 124- and 125 guasscolsulphonic acid precipitated boying plasma and 0 165 g exceptent

Setters Indigestion Tablets (Beecham Pharmaceuticals Ltd St Helens) Setters Indigestion Labors torecanan Laborate and the Annual Property of the Setters Aluminum Triple Precipitate of grains Aluminum Triple Precipitate contains Aluminum Hydroxide 24 0° Basic Magnesium Carbonate 20 0% and Calcium Carbonate 48 0%)

ate 200% and Cateum Carconnet va 0°...) [Pi] Seville Nerve Tomic (Weglesson I id Westhouglos) Active con-stituents Ansura Hydrochlor 00053% Manganese Giyeerophosphate 0112% Sodium Glycerophosphate 112% Cale Giyeerophosph 092°. Strychunge Hydrochlorde BP 00053% w/r

PI Shadforters Backache & Bladder Pulla (Shadforth Pharmoreutical Co. Ltd. [P] challedfriefs materative & shadder i unit (shadder) in the shadder i unit of the shadder is the shadder

et Opii B P 0.03 g Quinn Sulph 0.008 g Phenacet, 0.016 g, Ol Cinnam 0 00025 ml

Shurzine Antiseptic Ointment (The Shurzine Dhatmary Lid Hailinge) Adepa Lan 36 33 Pataff Moll Flav 36 33 Zine Oxid 6 91, Glyeer 767 Phenol 145 OI Euclipp 211 OI Lavand 204, Aq Dett qa to 100 00 narta

Silf Tablets (Silf Co Ltd London) Aqueous extract of Fucus 8 75 grains, Rheum 0 03 stata Ext Case Sagr Sice 0-25 grain, Aloin 0 03 grain

Rhemmo Gu grain Ert Care Sner Sice U-S grant, Ation U Ol grand Simpson's Food Outment (Branded Pharmacennial Lid, Landah) Ateur netrochem 2 food Outment (Branded Pharmacennial Lid, Landah) Simpson's Loud Variel 47" Mendel 0 2% Olivan Fino 0 25% Simpson's Laugud Warmith Liannen (Branded Pharmacenna) Lid Landah) Active sugeedinens Velhyl Sal (1 6 5% Ol Carpeph 1 1°, Mer-höl 0 30%) Cleasity 1 1% Ol Terebinkh Sa's ladol 0 125°, Celsuan 0 58%

[P1] Singha (Dr) Asthma Tablets (The Dr Singha Co III, Carmarion) Caffeine 1/4 grain Grindel Puly 1 grain Emet. Hydrochlor 1/100 grain, Lobel Puly 1/2 grain, Euphorb Puly 1/2 grain Ephod Hydrochlor 1/10 grain, Lobel hum 1/2 grain Lactose ad 5 grains

(P1) Singleton's Eye Ointment (Stephen Green Ltd London) Contains Red Mercuric Oxide 5% w/w

Sinubérase (Spencer & Co London) Tablets each containing Lacite Ferments 0 05 g Dried Brewer s Yeass 0 00125 g Dried Walt Extract 0 0006g. Lactose et Excipient q a

Skin Soft Calamine Skin Cream (Crown Capales Co Itd Bexley leath) Calamin 12% Lanolin 4 5% Benzalkonium Chloride 0 1%, Cream Fraulsian Base ad 100

Slack's Sure Remedy for Rhoumatism (Potter's (Herbol Supplier) Ltd Just a sure memory for intermations (Putter (10002 Joppino) LD Brigan Tables each contanuum Raspherr Leaves 1 gran and the en toos extractive from Burdock Rogbern Yarow and Artmeny of each 21, grant Sloan's Bain (Lambert Chemed Co LL of Lamberd) Active ingender Olectreum Capute 1 8°, Methyl Sakojater 2° Methylo 2°, Durpening 6°, Oldo of Camphor 5°, Park 05°, and Euchypen 1%

Sloan's Liniment (Lambert Chenned Co Ltd, Eastleigh) Liq Ammon Fort 0.04%, 01 Prin Aromat 6 375%, Methyl Salaryl 2 558%, 01 Terebanth 65 70%, torether with the parafin soluble constituent of 5 531% of Capue. Smith's Bronchial Pastilles (Smith Kendon Ltd London, 0) Menth Pro-Smith's Bronchial Pastilles (Smith Kendon Ltd London, 0) Menth Pro-

0 202% Menthol 0 111% Ext Glycynth 3 571%, OI Anis 0 165%, OI Cubeb 0 019%, Co Benz Tinct, 0 099%, Tinct Tolu 0 099%, Tinct Capsic Fort 0 018°

Smith's Red Gurn & Menthol Pastilles (Smith Kendon Ltd, London) Gummi Eucalypti 1 841%, Menthol 0 297%, OI Eucalypt 0 100%, OI Ros (Synth) 0 005%

Snef (Thornton & Ross Ltd Huddersfield) Active inpredients Menthol Snev (11671670 a 1601 143 rubaergita) Active ingredients Mienthol 0 2°, Ephot Hydrochlor 075%, Euclayp 0 2°, Chlorbutol 0 5%, Glycer 2 5%, Pat Phospin. Acd 0 2%, Dertros 3 0%, Chlorbutol 0 5%, Glycer Snowlife Healing Tablet (F W Hampshur & Co I.t.d, Deriv) Active constituents (% w/w) Soft Paraffin Extract of 0 2% Althage Folium Acd

Bonc 40 Benzoin 0 02 Ol Catronell 0 06, Ol Thyme 0 02, Ol Caryoph 9-04, Ol Cadin 0 04

Snowfire Ointiment (F 17 Hampshure & Co Lid, Derby) Zinei Oxidum, 8 0, Anylum 5 0, Ol Thym 0 25 Phenol Liq 0 5, Adeps Lanz 15 0, Aq Dersi 10 0 Paraff Mold Flow ad 100

Solution 41 (Innoxa (England) Ltd. London) Resortinol 0 070%, Acid Silicyl 0 057%, Hexachlorophane 0 081% in a solvent vehicle Songo Travel Sickness Remedy (Vanite Ltd, Glargou) Chlorbutol

88 925% Caffein# Citras 11 075%

38 923%, Coffenze Citras 11 025%, Southe Unrenet Laboratoris Lid Folkenson). An onitment for chilbiana control Characterical Laboratoris Lid. Folkenson, An onitment for chilbiana containa Thomat Wash Tablica (Charabar Jak, Sort & Co. Lid. London). Each containa Thomatol Vig, garan Menthol Vig, garan. Doras 1/4 garana. Springbok Embrocation (Prel & Campler Lid. London). Terebene 12.5%, Ol Pm Pumil 20%, Borryl Acettas 35%, Eurisynol 0.2%, Ol Carapoh. 24%, Methol Bakeylate 0.3%, in a special enulision meduza ad 100 Stanwood Programmer. The Tobarco of Philis (Stensond Proprinters).

cannwood treatment for the Tobacco Habit (Strawood Proprietanez Lid, Belton Tables contunant Ferr Sulph Exact S2 85%, Alumen 12 85%, Steedtran's Socialing Provider (John Steedman's Co. London) Phenol Philal 33 33%, Succio 16 66%, Amylum 30%, Each powder weighs approx. 15 mg

Steedman's Teething Jelly (John Steedman & Co., London) Dequalinaum Chloride 0 02%, Ethyl Nicounste 1 00% Glycerin 25 00°

Stotherts Foot Pasto (Stotherts Lid, Atherton, Manchester) Active constatuent Salary! Acid 50%

Strepsol (Boots Purs Drug Co Ltd Nottingham) Dybenal (2,4-dichlorobenzyl alcohol) 0 5° or Amyl-meta-cresol 0 125%

Stride Medicated Foot Powder (British Drug Houses Ltd London) Chlorphenesin 1%, Hexachlorophane 0 5%, Borne Acid 5%, Zine Oxide 5%, Base to 100%

[Pi] Strix Inhalant (Moore Medicinal Products Ltd London) Auropine Methonstrate 0 14% w/v Papaverine Hydrochloride 0 88% w/v. Adrenaline 0 50% w/v, Chlorbutol 0 50% w/v

[P1] Strix Tablets (Moore Medicinal Products Ltd London) Each contains Theophylline 2 grains, L-N-Methylephedrine Hydrochloride (Metheph) 3/4 grain

Sublamin (Edwards Harlens Ltd London) Lotion containing Acid Benz 4 829%, Acid Saheri 3 018%, Benzalkonum Chloride 0 050%, Cerri Pyri-dinjum Chloride 0 050% Sulphoine Lotion (Gambartra Ltd, London) Sulphur Practip 4 0%,

Support 2 de, Giyer 7 8° Support 2 Lia, Lonson, Support 1972 of 40% Jan. Oxid 2 de, Giyer 7 8° Support 2 Lia, Boulty, Capables esch contannum Vitamin A 6000 1 Lu, Vitaman D 500 1 Lu Vitamin E 2 mg, Vitamin Bi 2 mg, Ribollavine 2 mg, Vitamin C 40 mg, Nicotinamide 15 mg, Vitamin Be 1 mg , Calcium Pantothenate 3 mg , Manganese 5 mg , Iton 12 mg . lodine 150 µg

Supavite Capsules (Bristol Miers Co Ltd Rintle) Amber capsules cach contain ng Vitamin A 6000 1 u Vitamin D 500 1 u Vitamin E 2 mg Black containing Vicentini A GOOD FU Vicentini IS 200 FU Vicentini S 2 mg Vicentini C 2 mg Vicenting Vicenting Vicentini Ba 2 mg Rodiavine 2 mg Vicentini Calculate 2 mg Vicentin

40 mg Nicotinanude 15 mg Viaama B₁ mg Calcum Pantohenate 1 mg, Manganes (Mang Sulph et ed equery) 5 mg fron (Ferr Sulph Essic equer) 12 mg Johne (Foi Iod equer) 150 mg Co Lid Long/boroug) Tablets exch Super Plenamus (Recall Ding Co Lid Long/boroug) Tablets exch containing Viaama B₁ 205 mg Viaama B₁ 205 mg Viaama B₁ 205 mg Viaama B₂ 30 smg Viaama B₁ 205 mg Viaama B₂ 205 mg Viaama 40 mg Viaama D₂ 205 ng Viaama B₁ 20 mg P Factor 20 mg munetal 41 mg Viaama D₂ 205 ng Viaama B₂ 20 mg P Factor 20 mg munetal 41 mg Viaama D₁ 205 ng Viaama B₁ 20 mg P Factor 20 mg munetal 41 mg Viaama D₂ 205 ng Viaama B₂ 20 mg Viaama B₂ 20 mg Nuaama D₂ 205 ng Viaama B₂ 20 mg Nuaama B₂ 205 ng Viaama B₂ 20 mg Nuaama B₂ 205 ng Viaama B₂ 20 mg Nuaama B₂ 205 ng Nuaa tatis equivalent to iron 15 mg Lakeum 75 mg Phosphorus 53 mg Iodam 015 mg Copper 025 mg Cohashi 015 mg Manganese 12 ng Potsanum 3 mg Zanc 1 mg Plus Ilver Concentrate 120 50 mg Superavilor Chermacelal Cereim (Rolos Fuer Durg Co Led Natingham) Chioraspinol 20% Terpuncel 13% Roard 15% D pentene 10% Superavino Dimetectant (Rolos Fuer Durg Co Led Natingham) Chioraspinol 20% Of Plus Aromas 10% (Pl) Super Hamerican (Solo Plus Aromas 10% (Pl) Super Hamerican (Solo Plus Aromas 10%)

[P1] Supol Harmorthoids Suppositores (Fastit & Johann Ld London) Each contains Brundl: Subglitcum J gran Resortin [gran Chiefman Surama Medicated Oparates (Opra Omas Lid London), P Cort. Cascanila 159, P Frest Cohebe 15%, P Com Benton, 15%, Fol Suramut 23%, O Eucliptic Glob 15%, Menthol 35%, OI P ml-huml 10 Sure Sheld Indiad Travis Lozenges (Theo Guint & Co Lid Accant), Surgain 2017, Or Development Control 10, 100 (1997), Menthol 0, 258%, Cine And 0, 44%, Cetyl Prythonol (Tree and combuned) 0, 37%, Menthol 0, 258%, Cine And 0, 44%, Cetyl Prythonol (Tree and combuned) 0, 37%, Menthol 0, 258%, Cine And 0, 44%, Cetyl Prythonol (Tree and combuned) 0, 37%, Menthol 0, 258%, Surgains Defizition, Section 2018, Contained and Section 2018), Surgains (Section 10, 1998), Section 2018, Section 2018,

Tuice 0.07 minum.

Surgaseptic Antiseptic Throat Tablets (Modhem Lid Le caster) Halo-

Surgaseptic Pile Suppositories (Wodken Ltd Leicester) Trichlorophenyl methy hodosal c51 (Conc) 10% Hamaraelin 33% D1 Theoboms 957% Suthers Composition Essence (James Woolley Sons & Co Ltd Mancles

outners composition Essence Unares Woolley Son's Co Lid Mander (er) 60°, alcohol extract of Capper Fructua 0625°, Common Cortex 1312°, and Myrica BPC 1949 250°, together with Tincture Catechu 055°, and Ol Carjoph 044°,

Swift Brand Corn Cure (Modkem Ltd Lescenter) Acid Sal col 20, Colloduum Flex 100

Syrofans (Gedeon Richter Lid London) Each two teaspoonfuls cortan Tinet, Ipecae 5 minums, Syr Seilla 20 minims Syr Tolu 15 minims, L q Ammon Acet 10 minums

Ammon Acet is missing the property of the second s Vitamin A and 3000 i u Vitam n D

T.B.P Hair & Scalp Treatment (British Alkaloids Ltd London) Boric Acid 1 87% Salicylie Acid 0 39% Sodium Salicylate 1 37% Sodium Phenate 1 22% Benzoie Acid 0 94% Methyl Hydroxybenzoate 0 20% Iodosalicylic

1 4.2 % Officine Action 1979, and Office Transformation 5 2.0% Introduction 1979, and Office Transformation 5 2.0% Introduction 1970, International Internatione International International International International Intern

Bicarbonate 1 7% Sugar 5% Extract of Malt 14% Syr Prun. Serot. 21 6%

TCP Throat Pastilles (British Alkaloids Ltd London) Acid. Cit. 0-89% Acid Phosph 0 267% T C P 11 6% (equivalents Phenol 0 075% Acid Salicyl 0 0052% Iodine 0 013% Chlorine 0 048%)

[11] Tabasan (Ayron Saunder & Co Ltd Liverpool) Tablets each con taunung Ephed Hydrochlor 1/4 grain Theobrom 1/2 grain Acid Acetylsalicyl 1 gran Cale, Glucon 1/18 grain Phenolphthal 1/48 grain Lactos. q s.

[Fi] Tan Kern Chest and Lung Syrup (Tan Kem Lid London) Ext. Gly cyrth Lig 0 47% Lig Morph. Hydrochlor B P 0 86% v/v Acid Sulph. Acid Hydrocyan DI 0 240, v/v Flavouring Essences and Dil 3 75% Acid Vehicula ed 100 00°

Taxol Tablets (Continental Laboratories Ltd, Hove) Pancreatin 45 mg

bsnzoate 07 Linaly Acetate 0 4 Terpineol 0 4 Sesquiterpenes 3 5 Pure Liquid Parafin 90

Testonic Tablets (Axa Lid London) Each contains Vegetable Lecithin "The prun Examples (Ara Lid London) Each concurs Vegetable Lectural (Jo gran Each 'Jo gran Eventae 'Jo gran Exclusion (Jo gran Wit & (Suc-curate) 1/4 mg Cala. Hypophos, 'Jo gran Exclusion as Thermi-o Lia (Carter Bros Shafter) Ol Camph Reet, 23 33°, Methyl Salvy 15, 33%, slooblock extractive from Capacum 18 66°, Spt. Methyl

Indust. ad 100

Therm-0 Rub (Carter Bras Shapley), Contains the methyl salacyl soluble constituents of Capsic (1 in 3) 11 57% Menthol 0 48% OI Camph Rect. 2 1% OI Eucalyp 27%

Thomas & Chest and Lung Mixture (Hubert A C Thomas & Co Ltd Ladoma's Chest and Lung Alticute (troor A C Inoma's Co Lio Chest Control (1997)

Menth. Pip 0 03% Acid Cit 0 52%

Thompson & Indigestion Remedy (Potter & (Herbal Supplies) Ltd Higan) Fablets containing Scullcap Valerian, Fennel Myrth, Lobelia Panpaw Capacum of each 14 28%

Thomson's I olited Viamia Capsules (R. Thomson Elgn) Viamun A 108 000 Lu Viamun D 1800 Lu. Iodime 14 200 mg un cach ounce. Three Flacks Blackcurrant Courge Linguis (Thomson & Ross Lid Huddrifield) Actus sugred ents Ipress Timet 3% Log Ammon Acet Fort, 31% Tolla Syr 8 1% O'Tymel Scill 8 1% Letton Jusc Sy, Syr Rib X & 320

Three Flasks Children's Cherry flavoured Cough Syrup (Thornton & Three Flasks Children's Cherry Havoured Cough Syrup (Thornton X Ross Lid Huddenfeld) Active ingred ents Liq Ammon Acet Fort 312% Ipecae Tinct 3123% Liq Tolin 625° Syr Apph. 015° Ol Ants. 012% Oxymel Scill 10% Glycer 625° Syr 657° with Cherry Flavouring

Three Flasks Cold Sore Lotion (Tiornion & Ross Ltd Huddersfield) Active ingredients Camph 1 1º, Menthol 1 1º, Æthyl i hthal 0 825" Tinct Benzoin (Meth.) 84 475%

Three Flasks Ephedrine Nasal Drops (Thornton & Ross Ltd Huddersfield) Active ingredients Menthol 0 2% Ephed Hydrochlor 0 75° Eucalyp 0 2° Chlorbutol 0 5° Giycer 2 5% Pot Phosph Acid 0 2° Dextros 360

Three Flasks Sore Gum Lonon (Thornton & Ross Ltd Huddersfield) Active ingred ents Tinct Myrrh. 35% Tinct Kramer BPC, 1949 J 5% Borax 2 5 Glycer 5 0%

[P1] Thru (Recall Drug Co Ltd Lougiborough) Benzoca ne BP 093% w/v Sal cylam de 4 65% Isopropyl Alcohol 60 0%

[Pi] Thru in Jel Form (Recall Drug Co Ltd Lougiborough) Salieylam de

Thyme Ephedrin (Ayrton Saunders & Co Ltd Liverpool) Each 60 minums contains Ephed Hydrochlor 1/4 grain Thym Vulg 71/2 grains

Contains spine representation of the state cerophosph, 10 minims Mang Glycerophosph 1 grain Acid, Glycerophosph 20 minima

Topsy Soluble Aspirin (Kaputine Ltd Oldham) Tablets each containing Acid Acetylaslicyl 1 25 grains

pr. Methionine 30 0 mg

Di Attemponice au Ong Gener Reseller Sau & Ch. Lei Unerkringth (Ph. 100 EP 2005); W. Morsh Hydrichter R PG 0149-, vir V. da [Luco evan DL 19 °C [1954] 3 FC, vir Ol Venth. Pp 0 5779: Olecter Cepue. Ober, vir Arther Savt 77- vir Offend Pm C of 11d Leiphorngh) Ammag Chlund 1 15%, Method 0 609, Sal oftend 2 3%, Lag Benation Gula 0 6279, prinz Rechten 19 79: Glorent Argenter 27-a.

Tubelette Menthol and Wintergreen Cream (Gak Bau & Co Ltd London) Caps cm BPC 1923 0 30 Thymol 0 11 Eucalyptol 0 11 Menthol 2 60 Methyl Sabeyl 12 17 Glyc Amyls ad 100 00

[P1] Tucal Linctus (United Chemits Autocation Ltd Cheltenham) Active ingredients (*, w/w) Pholocodine Tart. 0 21 Terp n 11/dr 017 Menthol 0 34 Amy Interesterest 0 do 5 Thymou 6 05 Iodophend 0 02 and Phenol 0 53

Tucal Lozenges (United Chemists Association Ltd Cheltenlam) Phe wil B P 0 9°, Menthol 0 9°, lodophenol 0 03°, Amylmetacresol 0 06°. Thy mol 0 06%

molu UG", [1] Tusana Cocillana Cough Lanctus (Basti Face Drag Co. Lil. Veti raham) Ext Cocilin Lug 23%, Ext Breese Lug 04%, Ext Soill Lug 04, Ext Store Lug 15%, Ext Yean. (Jag 12%, Green Ed%, Calacian Line 20) (Pi) Tusana Cocillana Cough Fastilles (Bost Fore Drag Co Lul Veti ac Amol Coden, Phon BP 0 11%, wire Aniam, Part. Tart BP 001%, wire Ext Cocilian Lug 02%, Ipreac. Leg Lut 04%, Ext Soil Lug 04%, Chyerr 50%.

[P1] Tussils (Boots Pure Drug Co Ltd Nottingham) Loze uges each con taining Dextromethorphan Hydrobronide 2.5 mg Thenylephnne Hydro chloride 0 5 mg

Tussimol Cough Pastilles (The British Drug Houses Ltd London) Each contains Oxeladin Citrate approximately 5 mg

[Pi] Tyrocane Antiseptic Lozenges (Cupal Lid Blackburn) Tyrothricin 0.5 mg Cetyl Pyridinium Chloride 2.5 mg Benzocame B P 5 mg

Ucadrox Tablets (United Chemists Association Ltd Cheltenham) Each contains Dried Alum mum Hydroxide Gel 8 grans

Ucal Bronchual Lozenges (Un ted Cientits Autoration Ltd Cieltenham) Active ingredients (%) P Scill 095 P Ipceze, 035 Menthol 035 Ext, Glycyrth 66 Ol Pini Pural 012 Ol Anis 015 Ol Cinnam 007.

Ucal Burn Dressing (United Chemists Association Ltd Cheltenlam) Acriflavine 01 Cera Alb 190 Paraff Lag 540 Sod Borste 12 Aq Dest to 100 0

(b) 1000 (P[1] Ucal Children s Cherry Bark Cough Syrup (United Chemists Aisoct ation Lid Children and Active ingredients Camph 0 05% Syr Print, Sero BP C 25% v/v Acid Acet 1 5% 01 Anis 0 003% Ert. Jecce. Liq 0 08% Renaidelityde 0003% Ether 0 15% Chlorof BP 0 15% Ext Seill Liq 0 18%

Ucal Children a Soluble Asperan Tablets (United Chemists Association Ltd Cheltenham) Aspurn 1 25 grams Calcium Carbonate 0 375 grain Citric Acid 0 125 grain

Ucal Children & Warm Syrup (United Chemistis Association Lid Chelten ham) Santonin 0.2 Chlorof 0.08 Alcoh. Isopropyl 1.6 Eliz Senn. 250 Syrupus ad 100 0

STUDUE at 100 0 Utal Corn and Wart Solvent (United Chemuit Association Lid Chelien hom) Acad Last. 10 Acid Sales 150 Pyroxyin 20 59 Vieth Indust 1911 Ucal Fort Powder (United Chemuit Association Lid Chelinahom) Phenythydrarg Nurse 01 Methyl Sales 10 3 Menthol 01 Zone, Orad 36 Tais 380 Acid Bone, 33 0 Anylum 20 Metachlorophane 05 1910 Ucal Forty Plus Tonic (United Chemuit Association Lid Chelinahom) Attee appreciation as chi da Svianan B, Jang Lap Pot Chystophony Byrann Lan Sod Glycerophongh Sgmans Err Glycerophonyn U/Astrian Safen 2 Trub Phongh Pitt, gennes Strein United Pot Association Lid Chelinahom) Catlein 2 grains

[P1] Ucal Golden Eye Ointment (United Chemists Association Ltd Chelten ham) Hydrarg Oxid Flav 100 w/w

Ucal Indigession Lozenges (United Chemists Association Ltd Chelienham) Active instructions (%) Sod. Blearb 375 Ibum Carb 094 Mag Carb Pond 500 Cale Carb 3375 Perpsin 008 Pancreatin 005 Phavouring q s

Ucal Iron and Yeast Tonic Tablets with Vitamins (United Chemists Association Ltd Cheltenhum) Active ingred ents Ferr Glucon 11/4 LTAINS

Autocation Led Chiltenham) Active ungered ents Ferr Glucon 11/4 (string General perment Sice, Jeguan Cale Isospil, Plagrama Antenin Ilysice Active approximation of the Constant Autocation Led Chiltenham) Active appreciation Computed Sice Size Fund Sectual De C. 25% Actil Activ 15% Childrenham Computed Constant Constant Constant 15% Childrenham Active interference Crease III (C. 25% Actil Activ Usal Viennello and Wisierpresen Crease III (Instant Jonatoria) Usal Viennello and Wisierpresen Crease III (Instant Jonatoria) Id Chiltenham) Active interference III (Constant Jonatoria) Id Chiltenham) Active interference III (Instant Constant)

Ucal Nebuliser (United Chemists Association Ltd Cfellenham) Ephed Hydrochlor 0.95° made motome with Normal Salution

[FI] Ucal Nerve Tono (United Chewists Association Ltd Cheltenham) Active construents L. q. i.s. Givernophosph 273* Lag Sod Givernophosph. 275%, Ferr Givernophosph. 029%, Nag Civernophosph. 063° Strych Hydrochlov 0009*, wir Ext, Vist, Lag 433*, Por Cit 10*, Vism n 0, 3 mg. per fl. oz.

Ucal No 2 Chocolate Worm Cake (United Chemists Association Ltd Cheltenham) Each contains Hydrarg Subchlor 1 grain Santonin /a grain

Bonc And 5% Starch 10% Zune Oxide 5 3° Talc to 100%

Ucal Outment (United Chemists Association Ltd Cheltenham) Active ingredients (% w/w) Phenol 0 22 Resorcin 0 45 OI Eucalyp 1 89 Zinc Oxid 12.8 [P11 Ucal Pile Ointment (United Chemists Association Ltd Cheltenham)

Active ingredients (w/w) Hydrarg Oxid, Rub 0 75°, Phenol Lig 300°, Zine Oxid 7 00%.

Late Oxia 100°, Ucal Safety First lodised Throat Lozenges (U its Chemiti Ano-cation Lid Chiltenham) Each contains Tinet Iodi 1_{18} minum Phenol Lug B P $\frac{1}{10}$ minum Menthol 1_{16} grain Ol Gauliners $\frac{1}{100}$ minum Sugar g.s. Ucal Speedy Cough Lozenges (United Clemiti Anocation Lid Cellen Ucal Speedy Cough Lozenges (United Clemiti Anocation Lid Cellen

Ucai Speedy Cough Lorènges (Unité Cirmut Aisonaton Lid Cilita hom) Active constituents in ech horage Acd Cirnamie 000 gran, Acd Benz 0035 gran Acid Tart 04 gran, Canph 0027 gran, Ucai Speedy Cough Mistruire (Unité Chmuit Aisonate n.Lid Chitechan) Oli En Sine, Ling 05 mann, Chiard 05 gran Oli En Sine, Ling 02 Charles (Unité Chmuit Aisonate n.Lid Chitechan) Oli En Sine, Ling 02 Charles (Linear Linear et al. 1997) Oli En Sine, Ling 02 Charles (Linear Linear et al. 1997) Oli En Sine, Ling 02 Charles (Linear Linear et al. 1997) Oli En Sine (Linear Linear et al. 1997) Charles (Linear Charles Annanenn Hydrochlor 01 K. Charles (Linear Charles Annanenn Hydrochlor 01 K.

Menthol 1 25 Capa c 0 025 Ext. Glycyarh. Base

Ulcanon (Clay & Abroham Ltd Lucerpool) Acid. Tann 5% Sod Benz. 0 02% Diethyl Phthalate 1% Lanalyl Acetate 0 5% Sp Meth. Indust 70% Dest. to 100°

An Dist to 1004. Ulter Stomach Tables: (Ulter (Bradford) Lid Bradford) Bumuth Sub-nitrate 330 mg Magnes i Carbonas 400 mg Sodu B carbonas 200 mg Fran gula 25 mg Calamus 25 mg Union Jack Pasteo (Unson Jack Paste Co Lid Sceford) Ac, Saleyi 46 6

Curg Contorn as 100 Urace Rheumatism Tablets (Ventlerv & Philips Lid London) Each contains Acceptualized e Ac do 173 g. Gua su Res 9048 g. Qua Bisulph. 0016 g. Annylum 0045 g. Sacchann 0032 g. Uraliae (W. B. Carnenghi Lid Konson) Tableta each containing Acidum

Acetylsahoyl cum 2 750 grams Phenacetanum 1 000 gram Sulphur Sublumatum 0 125 grain Caffeing Benzous 0 250 grain Aloinum 0 022 grain Colour and Exciptent q s

Ecciptert 4 (Goneore & Co. Londen) Constant an 100 g. Hearmort 435 g. Junion Tatterster 0.2 g. Omnic Acd 0.14 g. Theodromane 000 g. Luth. Carb 0.23 g. Sod Bearb 523 g. Ach. Tar 3128 g. Sod. Phosph. Essu-543 g. Acd 0.1 39 g. Sacharum Albani 466 g. Sod Chi 0.30 g. Campbo 8.0% (Chioradonn 9.0% y/r Phored 0.0% w/r Clove 0.18 1%, slowb) soluble construction of Numeran (200, and Kano 0.6% 2011) Mar 10.0%

Industrial Methylated Spirit to 100 0%

Valda Pastilles (IF ker Joseon & Co Ltd London) Menthal 0713% Eucalyptol 0 033% OI Menth. Pap 0 011% Terp newl 0 0025°, Thymal 0 0025%

Valderma Antiseptic Balm (Dae Health Laboratories Ltd Landon) Acure constituent Di S bydroxyqu noune p Amonosaley late 0 30, in a water miscible base

Intervision Construction (Dae Health Laboratorner Lef London) Active con-Valopto Eye Lotion (Dae Health Laboratorner Lef London) Active con-st turnts Acid Bonc. 18%, Borzz 06%, Chilorbutol 01° Sod et 1 ot Tart. 01%, Sod Chilond. 10%, Hamans 70% AQ Sambue, 40%, Minodan DH 493 (c) Amunoscindine Salos Jate) 0001°, N pasept 0 088%

Valpeda Antiseptic Foot Balm (Day Health Laboratories Ltd Landon) Chlorinated (5 and 57) 8 hydroxyquinolines 0 3% Menthol 0 6% Methyl Salicylate 0 1%, in a non greasy water miscible base

Vapex (Thomas Kerfoot & Co Ltd Ashton under Lyne) Menthol 17 500 Linalyl Acetate 0 468 Ol Eucalyp 4 687 Ol Lavand 4 687 Bornyl Acetate

Valid OJ Camph Essent 1 500 Alcohol (I M 5) 70 742 Vapex Medicated Rub (Thomas Kerfoot & Co Ltd Ashton under Lyne) Camphor 700°, Menthol 3 200°, Oil of Suberan Fir 100% (Methyl Nuco-terly) 100°, tunate 0 33% Oleoresin Capaicum 0 05%, Rase ad 100 00%

Vaper Fastilles (Thomas Aerfoot & Co Lid Ahton under Lyne) Menthol 0.5% Linalyi Acetate 0014% OI Eucelyp 0123% OI Lavand 0125° Borryi Acetate 0014% OI Cinama, Camph 0042% Terpineol 014% Basis ad 100%

VapoMist Nasal Spray (Vick International Lid London) Active ingrid ients Phenylepizme Hydrochlande 0 25% Ephedrine Sulphate 0 25% Varicones (Tho piper a & Capper Lid Literpool) Suppositories containing

Hamamelidin 6 11% Ol Theobrom, ad 100

Vasagen Silicone (Lactagol Ltd London) An oil in water emulsion contain

Vasogen Silleone (Zactago Lia Cohoon) An ou in water emution contain ing 'Polymethysicoare 20% Zine Oride 75% Calamme 1 5% Vegetex Tablets (Modern Health Products Ltd, Chesungton) Watercress 35% Celery 30% Honeradish 15% Paraley 16%. Lettuce 5% Mint 5% Velocium (Emmet Laboratoria Ltd London) Tablets containing Ephedrane

Velocium (zmime Lakoratorin Lat Lohaon) Abters containing Epiretine Hydrochloride 0 965. Calcu Gluconsa 23 5 Theobronina 23 5 Fheaterinum 105 Drosers Longfola 3 5 Hydrargyrn Subchloridum 21 Extractum Aloes 0-7 Podophylli Resum 0 7 (all %) Veloz Brand, Rheumatic Tablets (Wiggleiccorth Ltd. Bethoughton)

Acidum Acetylsalicylicum 62 5% Phenylsemacarbazide 3 125% Caffeine 3 125%

Veno a Lightning Cough Mixture (Brecham Phormaceuticals Ltd St Heinen) Di Acet Acid 5 50°, Camph 0 02°, Tinet Capaie 0 12% Sucrois 9400% Molassies 34 00% Sod Benz 0 17% OI Anis 0 03°, Chlorof 0 31% Gluces, Liq 22 00% Ac Chlorof ad 100 ml

Ventos Stomach Powder (Corter Brot Shipley) Mag Tris 1 21 42% Mag Carb Fond 28 57°, Sod. Bicarb 21 42% Creta 21 42% Ulm, Fulv 7 17%

Vice Cetamium Cough Syrup (Vice International Lid London) Active ingredienti Ammon Chior 100% Sod CH 400%, Chira Act 025% Cetamium (cersignradiatum, chierdel 0 025° Campi 0 0002% 0002% Ol Ecasily 0 000% Chiraf 2 75% Vianum C 0 21% Vianum C 21% Chiraf 2 75% Vianum C 21% Chiraf 0 025% Active construction Epiced Solitifs wire Viorph Lipdrechior 0025% wirs Sod Cris 2 00% Chirafrage 50% Ol Ammo 0 025% Alcoho 10% 20% 10 0.0%

W/Y Sold Cit 5 00% Choice 5 00% Co Land Condon) Menthol 40% Carophor Citiliprintinum Choiced 0025% Vick Inhaler (Fick International Lid London) Menthol 40% Carophor 0% Methyl Singlister 11% Old Phore 4%, Old Shared 4%, Old Shared 4%, Old Shared 4%, Old Shared 4% Vick Medicated Cough Drops (I vk International Lid, London) Menthol 20%

0 20% Eucalyptus Oil 0 06% Camphor 0 005% Thymol 0 01% Benzyl Alcohol 0 14% Tinct Toly 0 01% Certypyrdinium Chloride 0 06%

Vick Medicated Cough Drops (Wild Cherry Flavour) (Vick International

Vick Medicated Cough Dieps (Wild Cherry Flavour) (Vick International Dimod 000%), Shengi Alexie International Conference on Conference (1977) (2010), Shengi Alexie International Conference (1977), Shengi Alexie Cherrice 00%, squeesus extractions 2%, Wild Cherry Birk. (91) Vick Theres Decongestion Tablest (Vick International Lid London) Soft Immed 26:45%, Pheneoring 2%, Catterner 55%, Epitedrane Sulphate Conference 10%, Darked Alexie International Lid London, Soft Shengi Conference (1978), Shengi Conference (1978), Shengi Conference Vick Vapour Ruig (1978), International Lid London), Victor 10%, Darked Monannan Hydroxade (12.65%), Vicenberg 25, Octor Vick Vapour Ruig (1978), International Lid London), Vienthol 2, 28 Carneb 25, Octor (1978), Shengi Conference (1978), Shengi Conference Vick Vapour Ruig (1978), ISSN 1978), Vienthol 2, 28 Carneb 25, Octor (1978), Shengi Conference (1978), Shengi Conference 1978), Shengi Conferenc

Cedr 0 45 Basis ad 100 00

Vick Vitamin C Cough Drops (Vick International Ltd London) Cetam um (cen lpyridinium chloride) 0.03°, "Menthol 0.487°, Vitamin C 0.195°, Curica Acud 0.87°, "Tartraz ne 0.008°, "Natural O i of Lenvon 0.28°,

Videnal (Modkem Ltd, Lencester) Tablets each containing Mag Carb Pond 36 36%, Bian Submit 31 82%, Sod Ricardo 18 18%, I ringula 227°, Calamus 2 26%, Aneurin Hydrochlor 250 prg, Acud Ascorb 1000 prg Vi-Globeol Granules (Spencer & Co London) Viannin A 160 000 u

Calciferol 14 000 i u., Thamme Hydrochlonde 0 05, Ascorbie Acid 1 50, Nico-tunic Amide 0 40, Tryptophane 0 05, Handune Hydrochlonde 0 025, Lisine 0 025, Choline Hydrochlonde 0 50 Calcium Triphosphate 5 Disodum 1 hosphate 1, Potassum Phosphate 0 50, Manganese Lactate 0 10 Copper Sulphate 0 02, Zinc Sulphate 0 03, Ferrous Sulphate 0 10, Potassum Iodide 0 069,

U QZ, Zanc Sulphate U QS, Ferrous Sulphate U 10, Potsasum Iodide U cov, Tanna O 20, Aromatic Super Exceptent at 100 g Vickel (Health Frederic Laboratore Lid, Landon) Tablets each containing Acceptilian Motiona Zgrann Chain Hospitas Zerins, Ferre (Annone O, Citas U Carlo C. Martin M. M. Stark, Physical Science, France Annone O, Citas David C. Martin M. Signar Manara (La Lindon), Arana D 100, u Control Control (Lindon Martine Control (Lindon), Arana D 100, u Control (Lindon), Arana Martin Control (Lindon), Arana Martine Control (Lindon), Arana Martine Control (Lindon), Arana Martine Control Control (Lindon), Arana Martine (Lindon), Arana Martine (Lindon), Arana Martine (Lindon), Arana Martine

Schlor merssol 0.25%, Sodhum Alkyl Sulphates 0.25%, Alkyl Alphate Esters 8.7% Alphate Alcohola 4.9%, Cholesterol 0.37%, Lanosterol 0.3%,

Ester 8 7%, Aliphstic Alcohols 4 9°, Cholesterni 0 37°, Lanosterai 0 3°, Sulphur 1 37%, Certanude 0 59%, Con Ld Bradford Lxt. hois Lag Vunferade Tonuc (Brook, Parker & Co Ld Bradford) Lxt. hois Lag 3 12%, Social Patonik 0 33%, Perer Ammon CL 4075%, Cale Gisterphosph, 0 23%, Pot CL 0 155%, Social Benz 0 064°, Cupn Sulph 0 0054°, Videot Tablets (Jahr Ledonotent Ld Latiniriad) Este Aontana Astylaulophe And 20 mg, Poissian Cirmie 40 mg, Uninne Bulyrorthorisc - Derson 247 mm.

-quevesu extract of Arctnum Lappa (1 on 3) 5 mg; Quinine Duhydrochlonde Zm; Base ad 370 mg Vironata (Af Califorpe & Co Lid, London) Dextrose Monohydrise 10⁴⁹, Laquid Glucosi 10⁶, Malt Entract 6⁴⁰, Bernone Add 06⁶, Echt fl da, contants Iton 6 mg, Ancounte Add 3 mg Rubolasine 0.6 mg, Annume Hydrochlonde 0.9 mg

Hydrochloride 0.3 mg (Fil) Virciona (Ayron, Saunderi & Co Lad Licepcol) Each 60 minures contain Sod Glycaropholph 2 grains Cale Glycaropholph 1 grain, Mirgh (Gyrcerpholph) (1) grains, Wir Kerel 10 minures, 50 Reich 5 minures (Gyrcerpholph) (1) grains, Wir Kerel 10 minures, 50 Reich 5 minures of Midlatene Encloha 13 00% and Oussin 0 14% Viradori Viramo-Mareral Capoules (Evory Lid Southampson) Tail red cappale contains Visiama A 6000 in. Viranna D 1000 11, Viranna F 3 mg Each black expanse Contain Viranna B 3 0 mg Viranna B 10 mg, Viranna B 10 B, O Zmg Virann B, 2 0 mg, Viranna C 300 mg, Nicananade 15 0 mg, Ferruru Salpharte Exten of 18 mg, Diaekona Phonphate 83 5 mg, Viranna

Sulpher 5 0 mg Vitanum, (Archanum Co., Sandhuru) Sodu Bicarbona 50%, Acidom Acetylaicylicum 49 %, Denobphilaku 0 1%, Vitanu Carputele (Biorymo Bording's Co. Lid London) Each contains Vitanu Carputele (Biorymo Bording's Co. Lid Cardon) Contains 5% of a contained 10%, Interference 10, 20%, Nento-tions 5% of a contained 00%, Interference 10%, Vitania 10%, Vitania Vitatione Tablets (Cond Lid, Biadkow) Each contains 1 25%, Vitatione Tablets (Cond Lid, Biadkow) Each contains 1 25%, Vitatione Tablets (Cond Lid, Biadkow) Each contains Acetometraphi Vitatione Tablets (Cond Lid, Biadkow) Each contains Acetometraphi Vitatione Tablets (Cond Lid, Biadkow) Each contains Acetometraphi Vitatione Tablets (Cond Lid, Biadkow) Schult 60%, Contains Acetometraphi Vitatione Tablets (Cond Lid, Biadkow) Schult 60%, Contains Acetometraphi Vitatione Tablets (Cond Lid, Biadkow) Schult 60%, Contains Acetometraphi Vitatione Tablets (Cond Lid, Biadkow) Schult 60%, Contains Acetometraphi Vitatione Tablets (Cond Lid, Biadkow) Schult 60%, Contains Acetometraphi Vitatione Tablets (Cond Lid, Biadkow) Schult 60%, Contains Acetometraphi Vitatione Tablets (Cond Lid, Biadkow) Schult 60%, Contains Acetometraphi Vitatione Tablets (Cond Lid, Biadkow) Schult 60%, Contains Acetometraphi Vitatione Tablets (Cond Lid, Biadkow) Schult 60%, Contains Acetometraphi Vitatione Tablets (Cond Lid, Biadkow) Schult 60%, Contains Acetometraphi Vitatione Tablets (Cond Lid, Biadkow) Schult 60%, Contains Acetometraphi Vitatione Tablets (Cond Lid) Vitatione Contains Acetometraphi Vitatione Contains (Contains Acetometraphi Vitatione Contains Acetometraphi Vitatione Contains Acetometraphi Vitatione Contains (Contains Acetometraphi Vitatione Contains Acetometraphi Vitatione Contains (Contains Acetometraphi Vitatione Contains (Contains Acetometraphi Vitatione Contains (Contains Acetometraphi Vitatione Contains (Contains Acetometraphi Vitatione

Vocalzone Pastilles (Vocalzone Ltd London) Menthal 1 0°, Ol Menth Pip 0 5%, Myrrh 0 25%, Giyeerin 0 62%, Ext Giyeyrrh 1 1°,

Vykmin Vitamin and Mineral Capsules (Scoit & Bottne Ltd, London) Red capsules each containing Vitamin A 5000 a u, Vitamin D 750 Lu, Vitamir E1 25 mg Black experiments and the set of th

Wade's Salve (Wade Pharmaceuticals Ltd, Glasgott) Active ingerdients Phenol 2 4% w/w, Terchene 5 25%, Welstuck Oil 5 6%, Rectified Oil of Turpentne 6%, Resn 26%, ChlorophyR 0 1%

Warrick's Smokers Cough Pastilles (Warrick Brothers Ltd Coventry) Mel Depur 2% Ol Ams 0.02°, Ol Menth Pip 0.02°, Chlorof 1.33% Capsicin 0 001%

Wate-on (Dendron Distributors Ltd Watford) Conta ns in each oz Corn

Waite-on (Dendern Durhubuers Lds Wajford) Conta ns an each oz Corn O(139), Gincosel 10 %, Lectina 110 %, Iana 2 ng, Nachanande 2 ong Ruboffswine 10 mg Vitama B, 0 4 mg Calcum Pattorherate 0 4 mg Vitama B, 0 0 mg Vitama D, 100 t w Vitama B, 14 2 mg Waite-on Tablets (Denders Datributors Ldd Wolford) Sutten tablets on the Vitama D and Vitama B, 15 mg Vitama B, 10 mg Vitama Vita T, 10 mg Vitama Vi

Paraffin 46 7°, Z nc Oxide 10°, Resorcin 4°, Cresol 0 002°, Widow Welch & Fernale Pulls Kearsley & Original (C & G Asardey Lid London), Terri Sulph 32.5 Elecampane 5 32 Curcums 5 32 Glycyrrth 5 32 Sulph Sub 5 32 Excep 26 22

Wigglesworth & Compound Vitamin Tablets (Wigglesworth Ltd West houghton) Each contains Vitamin A 2500 units Ansurine Hydrochloride 1 0 mg Ribofiavine 0.5 mg Ascorbic Acid 15.0 mg Calciferol 0.0075 mg Nicot nam de 7 5 mg

Neor num of 7 strag Wigglewordt a Vaparising Chest Rub (Wragleworth Lid Wathaughton) Acuse construents Vienchal 10%, Campb 50%, Eucalpy 30%, Thotaol 01% Ol Carpoph 03% Ol Cedro 23% Williams (Dr) Piace Pills (The Dr Williams Medarane Co Hatch End) Red, constants Forr Soljoh Exerci 23 zenste Cup Subh 0.01 gray Mang

Sulph 0 013 grain Caffein, Cit 0 5 grain, Aneurin Hydrochlor 0 156 mg Wills Eczema Ointment (Boots Pure Drug Co Ltd Nottingham) Zine Oxid

8 7% Acid Borie 20° Acid Benzoie 0 1° Ol Cadin 2 2° Phenol 0 5% Wills Health Salt (Bootr Pure Drug Co Ltd Nottingham) Succes 33 9% Sod B carb 22 5°, Acid Tart 6 9°, Acid Cit. Anhyd 13 8% Mag Sulph Exe C 17 3°, Sod Chlorid 6 6°

East 17.3 Sold (Ref.) Sochants Syrup (Thes Charty & Co. Ltd Aldershei) Sod Ctr. 2 160% Anns Stell 0.035% Giverend 5838° Est Nhes Lie 0640% OI Carnad 0.012% Survey 8480° Est Sonar Lig 0.255° OI Farme 0.059° Sod Beste 0.223° OI Carnut 040° Ad Dest 36 405° Woodward is Grupe Water (W Hoodward Ltd Laydom) OI Ancth 2

m nums, Sodu B carbonas 20 grains Spiritus Rectificatus 106 3 minums, Syrupus 931 fluid drachms Aqua ad 41/. fl oz

⁹¹/Ituid directions Aques at 4-1_p to a Wrights Calciants Tabless (Kright Layman & Ummry Ltd London) Lech contains Calc um Gluconate 3 grains Wissians D₂ 500 u Wrights Exposules for the Relief of Collis (Kright, Layman & Ummry Ld, Lo don) Lech contains Wenthol 4₁₀ grain O (Lannam ³)₁₀ manim ¹¹⁰⁰/₁₀ (Larger Med ³)₁₀ (Landon ³)₁₀ manim ^{1100/11} (Larger Med ³)₁₀ (Larger Med ³)₁₀ (Larger Med ³)₁₀ (Larger Med ³)₁₀ 1/ gran

Wright's Coal Tar Ointment (Wright Layman & Umney Ltd London)

Vright's Coal that Continent (Wright Laymon's Control Lin Donaon) Coal Tar 3 00%, Crevel 0 79%, Bensyl Creechi 0 41%, Ol of Thyme 0 014%, Laquid Fattact of Quifas 0 38%, Lanod n 28 60%, in a petrofrum base. [91] Wright & Coal Tar Vaporizing Liquid (Wright Loymon's Unney Lid, London) Fix Carbon s 0 25%, Naphthalenum 1 50%, Crevel 88 50%, Olea Estentialia ad 100 00%

Artematian at 100 00°, and Bladder Fills (Joneon Led Braiford). Each compandant Kiney) Perh 0014 Est Case, Supr Sec. O222 Methylene Hule 0005 107. Niras 0078 Aqueons Est Une Uns(1 1)0 022 Methylene Hochph. Ind 0001 Od 0 J nor 0001 Wyrt Tarch Medicinal Smull (Jewww Id, Braiford). Actus constituents. Wenthol 50075; Campher 0 0223; Od Lanad. 0 18°, Otto Larand.

0 045% Ol Cajuput 0 0712° ... Ol Eucalyp 0 18%, Ol Menth. Pip. 0 0028% Philardenee 0015% Bitm Carb 83%, 500 Bitcarb 14%, Via Carb Fond 33%, Cole Carb 15%, Ac Bone 5%, 500 Bitcarb 14%, Viag Carb Fond 33%, Cole Carb 15%, Ac Bone 5%, Bondford) Venhold 5, Campber 15, 01 Lavand 12, Otto Lavand 3, 01 Capupat, 475 00 Eucalyp 12, 01 Menth

Pip 1 875, Phellandrene 1, Sp Meth Indust ad 100

Yadul (Yadul (1935) Ltd London) Glycerol 3 75% Paraformaldehyde 1 25° , Thymol 0 0625%, Oleum Alla Essentiale 0 008%, Aqua Thymola (sat sol) 60 00%

Yeast-Vite (Beecham Pharmaceuticals Ltd St Helens) Tablets cach containing Phenaeet 2 50 grams, Caffein 0 50 grant, Caryoph 0 11 grain Cerevis. Ferment Sice 1 90 grains (standardised to contain Aneuiin Hydrochlor Vestamin (Walter Cross Ltd London) Tablets each containing Dried Yeast

5 grains (containing in each g Vitemin B, 33 i u Riboflavine 65 µg, Niscin 455 µg, Protein 45%, and all other vitemins of the B complex natural to vease)

Zam-Buk (C E Fulford Ltd Leeds) Active ingredients (w/w) Ol Eucelyp 5 0% Camph. 1 8%, Ol Camph Rect. 0 65° e, Ol Thym 0 55%, Coloph 2 5%

²Zam-Buk Medicinal Cream (C E Fullerd Lid, Isodi) Benzyl Benzoare 25 Camphor 20, Ol Everypt 19, Ol Thymu 025, Ol Camphor 055, Glivenn 2, O Taka Duca 19, Por Hydroxyaum, Sulph 0012, Emulanfed Base to 100

¹⁰ Zu to box Thread Differences (C = Fuller/Life Leeds) Active correctence Thread Differences C = State Control of State Control of State 471%, Composition 94%, Mental O 47%, OI Eucaly D 94%, Renna 471%, D 2000 Control of State Control of State Control Buss Subpill 28 grants, Tason Decad 14 grants Zare Outd 28 grants, Pot Hydroxyculuchi Scilph 00 grann Encoccan B P 0 J1 grant Control of State Control of State Control of State Control of State Control State Control of State Control of State Control of State Control Hydroxyculuchi Scilph 00 grann Encoccan B P 0 J1 grant Control of State Control of State Control of State Control of State Control State Control of State Control of State Control of State Control of State Control State Control of State Control of

rayunayumanın omanı vu granı Benzocan Br Usi gran Zani Disanfectani (Ecan Medical Lud Literbool) Active constituents Chlororylenois 2%, Benzylated Cresol 2%, in an aromatic aponaccous base, Zeu-Kol Blood Tonic Pills (Zee Kel Co Lid London) Bich contains Juli Aloss (Cape)¹/1 gran. Pulv Sapons ²/16 gran, Pulv Zingho ¹/16 gran, Exciptent q a

Zee-Kol Skin Healer (Zee Kol Co Ltd London) Adem Lahz Hydrouus 77 00 Acid Borie 5 40 Zince Oxids \$ 20, Sulphur 2 50, Colophoneum 2 50 Ol Eucalrot Glob 3 40

Zenoids Lozenzes (Smith Kendon Lid, London) Zingiberis Pulsis 5 36% Rhes Pulvis 2 340, Cardam Pulv 0 67%, Of Lamon 0 38%.

Zeph Nasal Spray (Phillips, Scott & Turner Ltd, Surbion) Contains Phenylenhrine Hydrochloride 1/.%

Zief (New Era Laboratories Lid London) Tablets containing (in homeopathic potency) Ferri Phosphas 3x, Sodii Phosphas 3x, Sodii Sulphas 3x

Silicic Oxide iz in equal proportions Zim Dental Balm (Arthur H, Cox & Co Ltd, Brighton) Adeps Lange 48 85°, Paraff Moll Fley, 49 9% Indoform 0 05°, Borax 1 15°, Sacchann 0 05%

Zim Throat Spray (Arthur H Cox & Co Ltd Brighton) Tyrothnum

Ann Introat Spray (arthus H Gos & Ca Lid Bingham) (Tyrolinnia) 00%, Cerl Pyrodanua Chiedge 60%, Saisl, Jackols 4 00%, Cerl Pyrodanua Chiedge 60%, Saisl, Jackols 4 00%, Chiedge 1176%, And Bone 200%, Orumn Martri 137%, Adepa Lanz 26 44%, Praff Mill Fler 2000% Gines as in a straight for the second straight of the second

[P1] Zomex Pile Suppositories (Arthur II Cor & Co Itd Brighton) Bism Subgall 11/1, grains, Ext Harram Sice (Ale 90° 10-1) 12/1, grains, Opum Puberat B P 1/2 grain Resorts 1 grain, Ance Oxid 2 grains Bale, Peru 1 minum Of Theobrom q a Zonobrone Bronchial Mixture (Pankertor, Gibion & Co. Ltd, Edinburgh) Acetum Scille 10, Inf. Seneg. Conc. 0 20, Ext. Giyeytrh. Lug. 50, Tpecac. Luq. Ext. 0 20, Giyeer 50, Thermaca 200, Wild Depur 90, Lunctus Simplex 0 001 ba

Zubes (F W Hampilars & Co Ltd Derby) Ol Anis 0.2, Ol Menth Pip 0 13, Ol Caryoph 0 02 Menthel 0.3, Camph 0 01, Bals Tolu 0 07, Berzoin 0 07, Tinet Capsic 0 02 Gingern 0 02 the squeous extract of Marrub (1 in 15), Quassia (1 in 48) and Tutsilag Fol (1 in 60) 0 015, with Sucros et Glucos Lig ad 100

Leq ad 100 Zubes Cough Mixture (F W Hampshare & Co Ltd, Derby) Active constituents (*a) the chlorolorm extract (1 m 17) of 0.05% of Bais Tolus and 0.05% of Brazian, together with Ol Caropolo 0.02, Ebert 0.15 Gangeran 0.01, Ol Anas 0.1, Tinct Capse 0.01, Ol Menth Phy 0.19, Acad. Bens 0.15, Acrt Scill 25, Acad Acrt Di 30 Annutalon (regd) 1506 et Lauryl Salph) 0.14, Mel Depur 20 Glucose Leq 150, Success 12 0 - Zytoch Tablets (The Emac Ce, Romford) Ecch contains Aqueous Extract

of Garlie (4=5) 0 5 minim

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NEW DRUGS AND PROPRIETARY MEDICINES

SUPPLEMENT TO THE EXTRA PHARMACOPCEA VOLUME I. 24th EDITION

The main purpose of this section is to provide information on the new drugs and proprietary medicines that have been introduced since the publication in 1958 of the Extra Pharmacopera Volume I, 24th Edition In addition, modifications to a number of the statements on drugs and proprietary medicines in the main volume have been included where such modifications have been considered appropriate to the limited scope of this section

[P1 \$4B] Ahicol Tablets (Bootr) Each contains bendrofluazide (q v) 2.5 mg and reservine 0 15 mg. For the treatment of hypertension Date 1/, to 1 tablet mortung and evening

[B] Achromycin Ophthalmic Oil Suspension (Lederle) Eve drops con taining tetracycline hydrochlonde 1°, in plastic drop-bottles of 6 ml

[B] Achromycin V (Lederle) There are now also available capsules each containing the equivalent of tetracycline hydrochloride 50 mg buffered with sodium metaphosphate (See also I of I 24th Edn p 1470) [B] Achromycin V Pediatric Drops (Lederle) Contain in each ml tetracycline

equivalent to tetracycline hydrochloride 100 mg with citing acid and sodium citrate

[B] Achromycin V Syrup (Lederle) Contains in each teaspoonful (5 ml.) tetracycline equivalent to tetracycline hydrochloride 125 mg buffered with citric soid and sodium citrate

(For other preparations of Achromsein see Vol 1 24th Edn pp 1469-70)

Actal (Bayer Prod.) Sodium polyhydroxyaluminium monocarbonate hexitol complex available as tablets of 360 mg Antacid Dore 1 or 2 tablets to be sucked as required

[P1 17] Actifed (Burroughs Wellcome) Syrup containing in each fluid drachny triprolidine hydrochloride 0 \$8 mg and pseudo-phedrine hydrochloride (q v) 213 mg Tablets each containing triprolidine hydrochloride 25 mg and pseudoephedrine hydrochloride 60 mg. For the relief of respiratory congestion Dose one tablet twice or thrice daily children 1/2 to 1 tesspoonful of syrup

twice or thrice daily [P1 \$7] Actufed Compound Lincius (Burroughs Wellton e) Contains in sch fluid drachm tippfoldine hydrochloride I mg pieudocphedine hydro chloride (1 v) 20 mg snd codeine phosphate 7 5 mg For the treatment of simple Cough accompanied by bronchospism. Dose 1 to 2 tesponful a cery 4 to 6

hours children 1/a leaspoonful every 4 to 6 hours

Actriol (Organon) A non greasy cream containing in each g epicestriol 2.5 mg in tubes of 15 g. For the treatment of some vulgaria,

[B] Adcortyl (Squbb) Trismemolone (q v) available as tablets of 1 mg and 4 mg

[1] Adcortyl A (Scubb) Triamcinolone acctonide (q v) at a lable so an Omitment containing 0 1% in tubes of 5 g and 15 g and jara of 50 g as Lotion containing 0 1%, in plasmic bottles of 15 ml and as an acrosol Spray containing 3 3 mg in 50 g

[11] Advorty - A Parenteral (Synh) Transmelona wironate (1 +) in second suspension in vials of 5 ml containing 10 mg in each ml

[B] Adcortyl A with Graneodin (Squabb) Ountment and Lotion each con laming transciolone acetomide (q v) 0 1% promycin 0 25% and gramicidin 0.025". For combined steroid and antibacterial topical therapy

Adenosine Triphosphate, A.T.P CisHisOisNiPa=507.2

Accorrayme valuable in the transfer of phosphate bond energy and the deposit of glucose as glucogen. It plays a fundamental role in biological deposit of glucose as glucogen. It is given a subset of the second second second responses processes involving engineering of glucose and its administration is claimed to uncrease perpheral encultation and its administration is claimed to uncrease perpheral encultation and its interest the range of joint movement in their mated architection (Jubospann of osteoarthints: Cantra understell inflatence (Jubos-Ferreer, *Hele und Acta*, 1951, 18, 192)

Proprietary Name ADENOTRIPHOS

Ademotrphos (*Cons Laboratorus*)) Ademostne traphosphate ($q \neq y$) subjust as Tablets of 3 mg of the doshown salt and as Ampoules of 2 ml each containing 20 mg as the neutral sodium salt *Dase* by mouth initial 2 or 3 tablets 3 of 4 times daily for one weeker, included in meessary to 1 to 1 tables thrace daily By intramucular impection, initial 1 or 2 ampoules daily for 2 to 4 days followed by the same or tabl dosage every other day to a tablet 30 injections maintenance 1 or 2 tablets thrace daily and a course of 5 injections of 20 mg succer 5 months i a meessary to

Adwin Tablets (Clarnell) Each contains perscensmol (q v) 300 mg pharacetin 200 mg and caffene 30 mg Andgesse and antipyretic. Doss 1 or 2 solit 3 or 4 times duily Adwin Facilateria. A suspension containing in soch suspendiul paracetanol 75 mg phenecetin 30 mg and caffene 7 3 mg Dese children, ¹/₂ suspontil to ne tablespondiu three duily

Akuncton (Knoll Pharmethicals London) Bipenden (q v) svalable as Tablets of 2 mg of the hydrochlonde and in Ampoulas of 1 ml each containing 5 mg of the lactais

[P1 84B B] Albamyon GU (Uppohn) Tablets cach containing novobinoun (as calcium sale) 125 mg and sulphametituzole 250 mg For unnary tract infections Date 1 or 2 tablets 4 turne daily

(as cascium sus; 125 mg and supparameterized so mg for Unhart the intertions Date in 02 tablest 4 kmes daily [B] Albarayean T (Uppoln) Tablest sech containing novobican (as calcum saily 125 mg and tetracycline bydrochloride 125 m, Tor mared infections Date 2 tablets every 12 hours or m severe infections 2 tablets 3 or 4 times daily

[3] Albarnycza T Pzeliatro (Ujyoba) A suspension containing in each tesspoonful (5 ml) novobiocn 625 mg and tetracycline equivalent to 62 sug of the hydrochloride augmbled as granules for reconstruition with water before use Dose children 0 and per kg body weight daily, may be doubled or trebled in series microtions.

(For other preparations of Albamy can see Vol 1, 24th Edn, p 1421)

Alcopar (Burroughs Wellcove) Bephennum hydroxynsphthoste (qv) in dispersible granules 5g of granules contains the equivalent of 25g of bephenum base

Alcos-Anal (Canden) Outment containing sodium shis of unsturated fatty acids of cod liver oil 11° polytchylene glycol monododers letter 5° and chorothymol 01° polytchyposteries containing odum aits of unstanted fatty acids of cod liver oil 11° polytchyna sod chlorothymol 0033°. For the treatment of harmorthou's and pruntus an

Aldactone (Searle, UK) Spironolactone (qv) available as tablets of 100 mg

Aldocorten (Ciba) Aldosterone available in ampoules of 1 ml each containing 0.5 mg. For replacement therapy in acute and chronic adrenocortical insufficiency. Doze 0.5 mg by intraven us injection er infusion to be repeated several times daily if necessary.

(P1) Alka Donna (Carlton Laboratorie) Tablets each containing magtement trusticate 71/g grains aluminium hydroxide 4 grains and belladonna dry extract 1/g grain flavoured with peppermint oil For peptic ulceration and hyperacidity Date 1 or 2 tablets sucked slowly before meals [P1 \$1 \$4A] Alka Donna P (Carlton Laboratorics) As Alka Donna with the addition of phenobarbitone ¹/₂ gram in each tablet.

Alka-Scorb (Carlin Laboratone) Tablets each containing magnesium tristicate $T_{1_2}^{i}$ grains alumnium hydroxide 4 grains and ascorbic acid $I_{1_3}^{i}$ grain flavoured with peppermining of For peptic ulceration and hyperacidity without spasm. Date 1 or 2 tablets successful along

[P1 87] Altercut (Schering A G Berlin Pharmethicali London) Clemizole hydrochloride (q v) available in Armpoules of 1 ml each containing 10 mg as Dragées of 20 mg as an [exempt]Ountment (water soluble) containing 2% and as a Syrup containing 20 mg in each teaspoonful (5 ml)

(Pi \$4B] Allylæstrenol 17a Allylæstr-4 en 17-ol CalHarO=300 5

A progenogen which is given by mouth and which is claimed to have no androgenic or cattogenic properties. The progestion of effect is about eight times that of ethustence. Due for menorrhags 15 mg daily from the 16th to the 26th day of the mensional cycle for metric rhags 15 mg daily from the 16th to the 26th day of the theoremistral cycle for metric of withdrawal bleeding 15 mg daily to 26th day and then on the 16th day after the conset of withdrawal bleeding 15 mg daily to 26th day and the provide the 26th day and the provide the provided of the 16th to the 26th day and the provide the provided of the 16th to the 26th day and the provide the provided of the provided of the provided of the 16th to the 26th day of each cycle until conception then 15 mg daily throughout presenter (for threatened abortion 10 to 20 mg daily for failure of indiction 15 mg daily from the 16th to the 26th day of the cycle for 2 cycles.

Proprietary Name GESTANIN

Almacarb (British Drug Houses) Tablets each containing aluminium hydroxide mannessum carbonate co desed gel 375 mg pepperm nt flavoured for hyperacid ty Doire one tablet chewed and awallowed

Alphosyl Lotion (Stafford M fler) Contains allantoin 2% and a special coal tar extract 5% in a non greasy basis For the treatment of psoriasis

Altafur (Snith Lline & French) Fursitadone (qv) ava lable as tablets of 250 mg

Aludrox Co Tablets (*Wyrki*) Each contains dreid aluminum hydroide gid 420 mg and 1 phit meanism eachonite for mg. For papie ulcention and hydresodary. Doir one tablet to be sucked it regular internal between meals (#114141) Aludrox SA (*Wyrki*). Supersisting containing in each respond to (3 mb i luminum hydroxide gid +75 ml meapseum hydrox de 100 mg

butabarb (al 8 mg and ambutonuum bromude (q v) 2 5 mg and Tablets each containing dried aluminaum hydroxide gel 200 mg magnetium hydroxide 80 mg butabarbital 8 mg and ambutonum bromide 25 mg For peptie ulceration *Dose* 1 or 2 tablets or 1 or 2 tesspoonfuls of suspension 3 or 4 times day before mails and at bedume

(For other preparations of Aludrox see Vol I 24th Edn p 862)

Ambazone 14 Benzogunone amidinohydrazone ihiosemicarba zone monohydrate CallaiNaS H.O=2553

A bacteriostatic agent which is used for infections of the mouth and pharpix in the form of lozenges. It is especially active against Strepto coccus progenet Strep pneumonie and Strep upp trindens type Dose 10 mg 3 to 5 times daily after meals

Proprietory Same ISENSAL

[13] Ambramy cin (*Vubolas*) Terracy cl ne hydrochlor de available as Capsules of 250 mg and as an Oral Suspension containing the equivalent of retracycl ne hydrochloride 2 S^o₂

Ambutonium Bromide BL700B (3 Carbamoyl 3 3-diphenylpropyljethyldunethylammonium bromide CarllarON_Br=391 4

An anticholinergic drug administered by mouth in the treatment of gastro-intestinal hypermotility and hypersecretion. Tone effects are stated to be mild and may include dryness of the mouth, dysuna, constipation, blurring of vision, and dizziness Contra indicated in glaucoma, Dase 10 to 25 mg

Probrietary Name it is an ingredient of ALUDROX SA.

Aminosol Vitrum (Pamer & Byrne) Dialysed enzymatic casein hydrolysate available in oral preparations as Granules containing 25% as Powder, as Powder with Glucose containing 50% as a Syrup containing 10%, and as Tablets of 250 mg with vitamin supplements Also available for administration by injection as Solution with Glucose containing 3 3°, with glucose 5%, and as Solution with Glucose and Ethanol containing 3 3% with glucose 5% and alcohol 5%

Amisometradine (US.NF) 6 Amino 1,2,3,4 tetrahydro-3-methyl-1-methylallylpyrimidine-2,4-dione, CaH18O1Na=195 2

A non mercurial diuretic with actions and uses similar to aminometradine-see Vol I 24th Edn, p 906 Patients with mild orderna may be maintained satisfactorily on 400 mg or less daily, in severe cases, 3 2 g daily may he necessary Toxic effects the principal side-effects are nausea, vomiting, and diarrhose but they occur less frequently than with aminametradine Dose first day, 400 mg 4 times daily, thereafter, 400 mg twice daily

Proprietary Name Rolicrow

Proprietary Name robustow Amozai (Smith & Nophene) Cream and Gei tach containing a pentylaxy-benzamide (C₁H₁, O₂N - 207 3) 2% opentyloxy-tetophenone (C₁H₁₀O₂ = 206 J) 2° and ealicylos scid 1% Dusting Powder containing opentylaxy-benzamide 2% and hexablorophiane 0 3° For the treatment of fungous in fections of the skin.

(Pi \$4B) Amphactil (May & Baker) Tablets each containing chlorpromatine hydrochlonde 25 mg and dexamphetamine sulphate 5 mg. For mild depresave states with anxiety Dore 1 or 2 tablets three daily, the last dose to be taken several hours before bedume.

Amphomycin. An antibiotic substance produced by Streptomices canus

Amphomycin is used locally for dermatoses of bacterial origin

Proprietary Name it is an ingredient of EcoMYTHIN

Amphotericin B (NND) A polyene antibiotic isolated from a strain of Streptomyces nodosus

Amphotericin B is used in the treatment of deep seated mycotic infections particularly North American blastomycosis and histoplasmosis Lamited data suggest that the drug may also be effective against South American blastomy costs Amphotericin B has a chemotherapeutic effect on some cases of meningeal cryptococcosis which responds more favourably to it than to any previous sgent It is elso of value in the treatment of disseminated cryptococcosis The effect on disseminated coccidioidomycosis is variable, but other forms of therapy have hitherto proved inadequate Combined intravenous and intrathecal administration may produce a better response in patients with coccidioidal meningitis. Generalised systemic monuliasis may be favourably influenced with amphotericin B which appears to be more effective than nystatin It is usually given by slow intravenous injection in solutions of 0.1 mg per ml of 5% Dextrose Injection It has been given by intramuscular injection in a daily dose of 20 mg in 2 ml of 5% Dextrose Injection in conjunction with a local anæsthetic. For severe coccidioidal meningitis, it has also been given by intrathecal injection in doses of 0 5 to 1 0 mg every other day in aqueous solutions of approximately 0 25 mg per ml mixed with spinal fluid

Two cases of chronic monihal cystitis were effectively treated by daily instillations into the bladder of 15 mg of simpliotencian B dissolved in 100 ml or 400 ml of sterile water (Goldman et al., 2 Amer med Air, 1860 174, 339)

Amphotences B has been incorporated in a preparation of tetracycline with the object of preventing the overgrowth of yeasts which is a frequent complication of tetracycline administration

Toxic effects headsche, nausea, vomiting, chills, feier, excession administration can lead to an increase in blood urea nitrogen and to incombophichius at the size of injection Toxic effects occasionally en countred are diarthera, gastro intestinal eramp, antenia, and skin rash

Dote by intravenous injection, 0.25 mg per kg body weight rising gradually to 10 mg according to the response and toxic effects Doses of up to 15 mg per kg body weight may be given daily or every other day, provided no toxic symptoms develop

Incompatibility amphotenein B is precipitated from solutions by solutions of sodium chloride

Storage amphotencin B and its solutions should be stored at about 4° and protected from light Solutions should be used within 24 hours of preparation

^{*} Proprietary Namer FUNGIOUS at is an ingredient of MUSTECLIN F PAD-INTRIC DROPS and MUSTECLIN F SYRUP

[Pi \$45] Anabolex (Lloyd Hamol) Stanolone (q v) available as tablets of 25 mg

[P1] Anacol Tablets (Brock Parker) Each contains acetylsalicylic acid 3 grains, plenacetin 3¹/₂ grains caffeine ³/₆ grain codenie phosphate ³/₁₀ grain, and phenolphthelen ¹/₁₀ grain. Analgesic. Door 2 tablets innice daily or as required

Anaflex (Grutlich) A high molecular weight polyoxymethylene urea 10°, in Cream, Paste, and Powder Bactenostatic and antimycotic for the topical treatment of infections

[Pi \$4B] Anapolan (Imperial Clemical Pharmaceuticals) Oxymetholone $(q \vee)$, available as tablets of 5 mg

[91] Ancurone (Philip Harris) A tonic mixture containing in each two fluid drachnes ancurine hydrochloride 1 mg strychnine hydrochloride $l_{1 y g}$ grain a sodium acid phosphate 1 grain, and compound gentian infusion 40 mianus. Dois 2 testpoorlidis three daily before meals

Antibical Cream (Mey & Baker). Contains meppennine maleste 1 5⁴⁶, and nec oxide 15⁶, an a flexib-coloured vanishing-createn basis For sunburn insect bites and stings unteraris, and other pruntic conditions (For Anthical Lotion iese Vol. 1, 24th Edn p 119)

Anlidol (J.emi) Tableta esch containing o-(2 ethoxyethoxy)benzamide 250 mg phenacetin 200 mg and callerne 50 mg Analgesic and anupyretic Dore 1 or 2 tablets every 4 hours

Antihaemophilic Globulia (Crookes) Asailable in ampoules each containing 200 Oxford units of antihaemophilic factor activity—see Blood-coagulation Factor VIII p.193

Anturan (Gegy) Sulphinpyrazone (q v) available as tablets of 100 mg

Anusol (if arm) Suppositornes and Olatment containing bismuth subgulates 212%, bismuth oxide 0.87%, resortend 0.83%, for bismut 73% ane oxide 10.60%, and borte acd 17.83%, for hermorrhouds [8] Anusol HC Suppositorize acch containing in addition hydrocortisone acctate 10 mg [8] Anusol IIC Olatment containing in addition hydrocortisone acctate 10 23%, (Modification of empty is Nd.1, 2M has p. 250)

Aprinox (Boots) Bendrossuande ($q \vee$) available as tablets of 2.5 mg and 5 mg

Aquavit (Astro-Hewlett) Tablets each containing vitamin A 5000 unus, calcitetol 500 unus, aceurane hydrochlorade 5 mg, scholavine 5 mg, incomas mide 30 mg, pyridoxien hydrochlorade 2 mg, calcium pantothemas 8 mg, calcium acorbate equivalent to accorbate acid 100 mg, and tocophers) sectate 3 mg For vitamin deficiency Dess' for 2 tablets caluy children, i fablet day

Aramine (Merck Sharp & Dohme) Metaraminol acid tartrate in ampoures of 1 ml and 10 ml containing 10 mg in each ml For immediate administration in shock Dare by intramicular or subcutaneous injection 0.2 to 10 ml, by intravenous infusion, 1.5 to 10 ml in 500 ml of Sodium Chloride Injection of Destrose Injection

Arterochol (Leus & Burrous) A flavoured emulsion containing in each tablespoanful maize oil 8 33 g, pyridoxine hydrochloride 0 6 mg, and tocopheryl acetate 12 mg. For hypercholesterolarmia Doze 1 to 3 tablespoonfuls once to thruce daily

Ascozal (Aitta Heudeti) Tablets each containing ascorbic scid 100 mg, sodium percarbonate 70 mg, and copper subplate 0 2 mg. For use as a mouthwait or gargie (one tablet m 25 ml of warren weier) in gnyorius, pharyngus oraj fungous infections: and as a stronger solution (one tablet in 8 to 12 ml of warren water) for application in furunculouss and dermatomycoss

[P1 443] Astrnapax (Nicholas) Sustained-release tablets each containing ephtdrine resinste equivalent to ephedrine hydrochloride 50 mg, theophilline 65 mg and bromvialentone 200 mg For chronos bronchus and bronchus estima Dose 1 or 2 tablets on rising and on returning (Replaces Asmopax Ion Ex, Vol 7, 24th Edn p 72)

[P1 84B] Asmaval (Dutallers Co.) Tablata each containing theirdomide (q v) 12 5 mg and epbedrine hydrochloride 20 mg For prevention of attacks of asthma Dors I to 2 tablets thrace daily.

Aspellin (Radiol) A linument containing menthal 3.3%, camphor 0.6%, ecerylalicytic scid 1.2%, methyl salevylate 0.6%, elycenn 1.6%, strong smmonia solution 1.0%, circnelli sol 0.6%, industral methyl lated spin to 0.0%, and water to 100% For the treatment of acute rheumanic conditions, acatica, lumbergo, fibronis, museular truma, and unbroken childistas

Aturbane (Ciba) Phengluterimide hydrochloride (q v), available as tablets of 5 mg

[F1] Badaonal Gel (F B A Pharmaceuticals) Sulphathioures (q v) as a $10^{4}q$ neutral gel for use as a bacteriostatue and protective dreasing for burns, scalds, and wounds.

Barnethan Sulphate. 2-Butylamino-1-p-hydroxyphenylethanol sulphate, (C1: H1:0-N); H3SO4=516 7.

Barnethan sulphate is a perpheral vasoditor which is and to act on cardiac muscle and the perpheral atterolose It's used in the treatment of vasomotor disorders, such as acroeyanous and chilbana, in the treatment of gravitational leg utcers and bedrovers, and an some cases of thrombo anguns obliterans and artemocklerous Toxic offert large doses may cause tachy cardan Zone 125 mg 4 to 5 tumes daily

Proprietary Names VASCULIT, VASCULAT (Ger)

[P] 54B B] Batrillin (Woolley) Tablets each containing sulphabimidine 92 5 ma, sulphamerazine 92 5 mg, sulphadazane 65 mg, nicotinamude 10 mg, aneurna hydrochloride 25 mg, and generallin 1000 outurk. For a wuler state of bacterial infections Dose 2 to 4 tablets every 4 hours children, 1/2 to 2 tablets every 4 hours.

Becantyl (Horlick) Sodium dibunste (sodium 2 6-di t burylinghihalnes) 1 subhorate, Culling, SNa 342 4), available as a Syrup containing 14 mg in each taspoonful (3 ml) and as Tabletto f 13 mg For couch suppression Dare 2 teaspoonful or 2 tablett thrite daily (Moduranon of entry in Fol 1, 24th Edn., 9 37)

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Becomel (Crooker) An elizar continuing in each teaspoonful aneurine hydrochloride 0.7 mg. riboflavine 0.7 mg. pyridizme hydrochloride 0.35 mg. and nicotinamide 5.0 mg. Dose 2 to 6 teaspoonfuls dit by (T⁷iss preparation replaces B-Complex Crooker Elizar V al 1.2 th Edm. p. 164).

Becosym Ampoules with Vitamin B₁₁ (Rothe) Each contains aneurine hydrochloride 10 mg ritoflavine 4 mg micotinam de 40 mg pyridoxine 4 mg and cyanocibalamin 8 µg (For other Becosym preparations see Vol 1 24th Edn p. 165)

[P1 11 14A) Belladenal Retard Tablets (Sandoz Product) Slow release tablets each containing the total alkalonds of belladonna 0 25 mg and phenobarbitone 30 mg. For the symptomatic treatment of conditions associated with gaturointestinal spasm, hypermobility and hypersecretion. Dote one tablet night and morning (For Bielladonal set Vol 1 24th Eds p 228)

[P1 31 \$4A] Bellaphene Tablets (Brook Parker) Each contains belladonna dry extract V_{1g} grain phenoherbitone V_{ig} grain aluminum hydroxide 5 grains and ancurate hydrochloride 3 mg For gastr c or duodenal ulcerat on gastritis and diarrhea Doie 1 or 2 tablets invice daily after meals

[P181843] Bellergal Retard (Sandoz Product) Slow release tablets each containing the total alkalouds of bellsdonns 0.2 mg ergotamine tarizate 0.6 mg and phenobarbitone 40 mg. For the symptomatic treatment of a wide range of psychosometric disorders. Doie one tablet morning and erening (For Billergal Tablets tee F0.1 24th Eds. 9 228)

Bennaco (B.M. Laboratories) Tableta each continuing chloroquine phosphate 42 mg acetylail cylic acid 162 5 mg calcum carbonate 45 mg ascorbia acid 25 mg, and carne acid 15 mg For rheumato d arthritis. Dote 2 tablets thrice daily

Bemaphate $(B,M \ Laboratories)$ Chlorogume phosphate available as tablets of 250 mg

Bemasulph (B M Laboratoriei) Chloroquine sulphate available as tablets of 200 mg (equivalent to chloroquine base 150 mg)

Bendrofluazide Bendroflumethiazide Benzy droflumethiazide FT81 3 Benzyl 34 dihydro 7 aulphamoyi 6 trifluoromethy lbenzo 124 thia diazine 1_1 -d oxide C_1 H 40, N_3 S, $F_3 = 421$ 4

A powerful dimeter with an action listing about 18 hours used in the treatment of adems and hypertens on Benchrolluzide may potentate the effects of digitals ganglion blocking sgents and reserpane. Prolonged administration may lead to depletion of potassium although the drug appears to cause less disturbance of serum electrolytes than chlorothia zide Benchröthuzide is 100 collo times more potent than chlorothia zide Benchröthuzide is used alone in the treatment of hypertinasion with the collocation of the service of the service of the service with the service of the service of the service of the service table to the service of the service of the service of the service with the service of the service curthous Electrolyte unbalance particularly bypotalaemia may develop in patients on black dozace or night read of heating the service of heating the service of the service of the service of the service of heating the service of the service of the service of heating the service of heating the service of the service of

Dose initial 5 to 20 mg daily maintenance 2 5 to 10 mg daily

Proprietary Vames AFRINOS CENTYL HYDRIL B NEO NACLES NATURETIN (U.S.A.) it is an ingred ent of Asicol and QUADRIN

Benerva (Roche). Anturne hydrochloride now also available as Tablets of 300 mg in add uon to the strengths recorded in Vol I 24th Edn, p 151

Benzilonium Bromide 3 Benziloyloxy 1 1 d ethylpyrrolidinium bromide C21H21O2NBr=434 4

An anticholmergic agent given by mouth in the treatment of peptic ulcer and functional gastro intestinal disease Toxic effects doses of 60 mg or more may produce dryness of the mouth, blurred vision unnary heatancy, constitution is tomatity and drowsines, flowever, doses of up to 160 mg have been given without intolerable side-effects Dose initial, 10 mg thrite daily, increasing if necessary Proprietary Name Postryn

Benzonataie (NND) KM65 2 (ω-Methoxy octaethy leneoxy)ethyl p-butylaminobenzoate, C₁₀H₂₃O₁₁N=603 8

An antitussite agent which does not depress respiration. It may be green by mouth or, in doest of 5 to 10 mg, by subcutaneous or slow intravenous metching and the sheen used restally for children It acts within about 15 minutes after administration by mouth and its effects last for 2 to 8 hours Texet offects mild crythema, transient sham intration, and headache have been reported Dose by mouth, 100 mg 3 to 6 times daily

Proprietary Names TESSALON, TESSALIN (Scand)

Benzthrazide P1393 3-Benzylthiomethyl 6-chloro-7-sulphamoyl-2H henzo 1,2,4-thuadiazine 1,1-dioxide CithtaOtNiS_C!=432 0

A non mercural durate which is 10 to 15 times more potent than chlorothande. Its admanstranova is said to carry leas mix of depiction of potasium than chlorothazide. It potentiates the action of digitalia and the granition blocking agents Doses up to 200 mg daily can be guere for cardias failure Towe offert nausea and coming. There a more likely to be a significant loss of potasium an patients with it we disease or en daily can be assessed and the same state of the same state Dow draine 160 to 000 mg daily, maintenance, 25 to 100 mg on alternate day

Proprietary Name FOVANE

[B] Benzylpenicilin Intrathecal (Glass), Benzylpenicilin (sodium salt) in ampoules of 5 ml each containing 20 000 units

Bephenium Hydroxynaphthoate Benzyldimethyl(2 phenoxyethyl)ammonium 3 hydroxynaphthalene 2 carboxylate, C1,H1,O,N=443 5

An effective antheliminitie for the treatment of bookworm infestation, it is also markedly active an accarsis A angle dose is usually adequate when given early in the moming at least 2 hours before food, but in some cases 4 consecutive daily doses are necessary Date the equivalent of 2 to 3 g of bephenum base, prespective of age or weight.

Proprietary Name ALCOPAN

(B) Betamethasone 9α-Fluoro-11β 17α 21 - trihydroxy - 16β-methylprema 1.4 diene 3.20 dione, C₂₁H₂₂O₄F=392 5

"As anti, inflammatory sterood which it is claimed, does not cause retention of sodium ions and has lattle effect on polassium exerction in normal dosage. It is administered by mouth and is 6 to 10 times as potent as predinsione. It is used puncipally in the treatment of has freer, severe asiltman, theumatoid arthings, inflammatory should ease, altergee and shock Taxove effects and contain anducators in final assessment wilonly be possible after extensive climed use, but will, a street, altergee Date 0.5 to 1.5 mg three on four times data, preduced to a maintenance for chronic cases of 0.25 mg twice data eccording to the response of the patient.

Proprietary Name BETNELAN

Betaxan Elixir (Bayer Frod) Contains aneurine hydrochlonde 0 675 mr in each tespoonful (For other Betaxan preparations see Vol 1, 24th Eda, pp 152 and 165)

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[B] Beinelan (Glazo) Betamethasone (q v) available as tablets of 0 5 mg

Biaknesol Lotion (B orex) Contains precipitated sulphur 5% cetrumde 1% titan um dioxide 5% hamamelis water 20% and industrial methylated spir 445% For the treatment of sene

Bilevac (Weddel Pharmactut cal) Tablets each containing sodium taurogly cocholate 1 grain rhubarb ${}^{1}J_{0}$ grain, aloin ${}^{1}J_{0}$ grain, and peppermint oil q a. For use as a b hary sumulant and evacuant. Dose one tablet thrice daily of 2 tablets at night.

Biloptin (Schering A G Berlin Pharmethicals London) Sodium podste (q v) svalsble as capsules of 500 mg

Bilostat (Weddel Pharmaceuticals) Dehydrochol c acid svulable as tablets of 250 mg

[P] HAIJ Blimcz (Impraal Chemical Phennacritical) Tablets each containing subhalamidine 375 mg and 2, p-ansnaohenexensiu/honsmulo-6 6 methory primuline 125 mg and a Suspension containing the equ valent of one tablet in each fluid direction (3 5 ml) For the treatment of bacterial infections sens two to subhonamides and for prophylaus part culrity against complications securities with influenza and the common cald Dore initial + tablets or one tablespondul of suspension, followed by 2 tablets or 2 tasspoonfuls of sus persand al y

[B] Bincortar (Armour) Powder for mulfistion in capsules each containing hydrocortione accesso 15 mg and lactose 85 mg For the treatment of hay fever and bronchal asthma

[3] Biomyddia (Worney). A nasal opsy coast ang neonygan subplate 0.1% grans of a 0.00%, thonay lanne is dreadeded 1% phonylephants hydrochondro 0.25% and thoraconum boromide (a etuon a surface-scive spen with a muoditus estion) 0.01% with homoreaul 0.02% as a preservoirse. A batteri calal anthustamune decongestant and prucolytic spray for use n coryza, sanustis and hunits

[B] Biotexin (Glazo) Novob ocn, available as Tablets of 125 mg and 500 mg (as the sodium sail) and as a Syrup containing 125 mg in each teapoontial (5 ml) (as the calcium sail) (Modification of entry in Vol 1 24th Edn p 1421)

Biperiden. 1-(Bicyclo[2 2 1]hept 5-en 2 yl] 1 phenyl 3 p peridino propan 1-ol CuH4,ON-311 5

An antichologier of agent used in the treatment of paralysis aginans It is usually admunstered by mouth but in server cases it may be given by intra-enous or intramuscular injection. Toxic effect: b periden may cause dryness of the mouth blurred vision on gastra turnisation and occasionally mental confusion. When given by intra-enous injection it should be admunistered about as tolerance virtue. Contra indicated an 2 mg 3 or 4 times daily by intramuscular injection 10 to 20 mg daily in divided doese.

Proprietary Name AKINETON

Bisacodyl, 2-(4.4 Diacetoxydiphenylmethyl)pyridine CasHirOcN= 361.4

A laxitive acting in 6 to 12 hours when given by mouth and in lets than one hour when administered as a suppository 1t has little or no action on the small intestine and st as not absorbed *Dore* 5 to 20 mg by mouth 10 to 20 mg by rectain

Proprietary Name DULCOLAX (Vol J 24th Edn, p. 93).

Bismucyn (R)dar Laborstores). Suppose tor es conta name à smuth sod um utrrise in revo strengths. For skults 60 mag for chuldern 50 mg for the treatment of non duphthet its sore throat, Adaunutrator ane suppos tory to be inserted daily for two days at the const of symptoms

194 SUPPLEMENT TO THE EXTRA PHARMACOPEIA

Blood coagulation Factor VIII Antihamophilic Globulin A. Blood coagulation factor VIII is an antihemophilic globulin whose deficiency represents the classical harmophilia A (Nomenclature of Blood clotting Factors, Brit med J , 1/1959, 1292) It is given to patients with hæmophilia A during major surgical treatments and severe hæmor rhagic episodes if it is not practicable to give blood or plasma. Treatment should be finished within 14 days since the preparation is antigenic and sensitisation probably occurs after that time Normal human plasma contains 0 25 Oxford units of blood coagulation factor VIII per ml. Factor V111 is given by intravenous miection in a concentration of 200 Oxford units in 540 ml of Sodium Chloride Injection, the solution is unstable even at refrigerator temperatures and should be used within one hour of its preparation To dissolve factor VIII it is necessary to warm the solution to a temperature no higher than 37° and shake gently Dose by intravenous injection, sufficient to raise the level of blood-coards lation factor VIII in the plasma to at least 0 075 Oxford units per ml

Brasivol (Denter Laboratorat) Cleansing pastes containing graded particles of a non sulicon abrasive (lixed princhtic aluminium ouide) with hexeloborphane 1% in a detergent basis Supplied in three grades No 1 (fine) No 2 (medium) and No 3 (coarse) For the abrasive treatment of acne, by removing dead cells and unblocking plugged folloides

Bretyluum Tosylate 373 C 57 (o-Bromobenzyi)ethyldimethylam monium tosylate C13H24O3NSBr=414 4

Bretylum tosylate is an antihypertensive drug which acts by selectively blocking adrenergic nerves. Its hypotensite effect is postural being greatest when the patient is standing and exercising, and least when the natient is recumbent An oral dose is said to take effect in 11/, to 3 hours and to last for up to 9 hours individual response is most variable but an initial dose has been recommended of 100 mg thrice daily for the first day, 200 mg thrice daily for the second, and then an increase of 100 mg in the dose on the following or alternate days up to 400 mg thrite daily if necessary Maintenance doses have varied between 0 I g and 6 g daily Patients on bretylum tosylate may become senaitivo to adrenaline amphetamine, and other sympathomimetic drugs Lack of uniformity of effect can be attributed to variations in noradrenaline and adrenaline secretion to the enhancement of the postural hypotensive effect by exercise to the development of tolerance to the drug and to incompletor irregular absorption When a ganghon blocking agent is given con cutrently the results are more uniform It is claimed that this prevent the development of tolerance to bretylum Bretyhum may be used a conjunction with mecamylamine, pempidine rauwolfis hydrofluineth jazide or hydrochlorothiazide, when smaller doses of bretylium may be possible

"Recent reports on the effectiveness of herefulum toylate as an antihyperenaive dang are conflicting. In a trail of 4 patients, Lowther and Tunnet (Brit med. J w)1950 1049) found that shihough there was a temporary fail in blood pressure tolerance to the drug developed in evo diricks of the patients and the blood pressure role again an poite of study increase in dose Hurley et al (A are med Air, 1960 172, 2031) found the drug to be melfectuse in 11 out of 13 patients. It was porly absorbed and tolerance developed with prolonged therapy found (Practineer, 1960, 185, 471) also found that the drug was incompletely absorbed and that drug tolerance developed that the origin was incompletely doses varying from 300 to 1800 mg daily but not necessarily in 3 equal or evenly spaced doses and found that the dosage must be adapted to the individual pat ent. Montuschi et al (Brit med J 11/1960 1199) gave doses of 100 mg every 8 hours increasing the dose by 100 or 200 mg three tunes every other day and found the minimum effective dose to be 100 to 1800 mg thrice daily With a daily dose of 100 mg of hydroflu methiazide as an adjuvant for some of the patients successful control was obtained in 71% of 75 cases of severe hypertension They concluded that bretylum was not suitable for the treatment of benign hypertension and required careful supervision

Toxic effects are claimed to be mild and not prominent they include occasional faintness stuffiness of the nose parotid pain postural hypotension diarrhee nausea, lassitude and disturbance of urination Most of these effects have been reported by Montuschi et al (loc cit) but they found no evidence of dyspnica. Lowther and Turner (loc, cit) report these s de effects to be frequent and include also dyspnora and muscular weakness Hurley et al (loc. cit) found it necessary to discontinue treat ment in 3 patients out of 13 on account of the development of facial pain and severe abdominal symptoms Smith (loc cit) reported ind gest on paroud pain and blurred v sion and concluded that although these toxic effects are not necessarily prominent they may force a change of treatment. Contra indicated in phatochromocytoma in coronary or cerebral vascular disease and in hypertension associated with severe renal damage.

Dose determined by the physician in accordance with the needs of the patient

For further information on bretyl um tosylate see Bours et al. (Lancet ul 1939 17) Dollery et al. (Lancet #1940 296) Vernico Danell a nad Zamus (Lancet #1960 787), Campbell and Monusch (Lancet #1060 788) Doyle et al. (Brit med J #1960 422) and Morza (S. Afr. med J 1960 34 23) For a computinon of bretylum and guanethalpine set Lancet #11961 91

Proprietary Name DARENTHIN

Brevidil E (May & Baker) Surethon um brom de now also available as a 15% solution in multi-dose containers of 10 ml. (See also Vol. 1 24th Edn p 521) (Pi \$1 \$4A] Brietal Sodium (Lally) Methohexitone sodium (0 v) ava lable in crystalline form in rubber stoppered ampoules of 50 mL containing 500 mg. (Pt \$1 \$4A] Bronchodil (B \f Laboratories) Sublingual tablets each containing

isoprenaline sulphate 10 mg and amyloburbuone sodium 8 mg in a chocolate basis For the rel of bronchospasm in bronchutis and asthma Dore 2 tablets at the onset of an attack and repeated after 3 or 4 hours if required,

Brontyl (Lloyd Hamol) Proxyphylline (q v) available as Tablets of 120 mg and in Ampoules of 2 ml each conts ming 300 mg

Brosslamid (Smith & Nephen) 5 Bromosslavihydrozamic acid (T 40, B.5 H. C.H.O.SHr=232 0) in tablets of 500 mg A tuberculosistic agent undergoing cli nei truis not synabic commercially Doir 3 to 4 g duly with a probable maximum of 6 g daily

[P1] Brovon Asthma Inhalant, Pressurised (Moore Medicinal Products) Conta na atropine methonatrate 014%, adrenaline 0 50°, and chlorbutol 0 50% in an inert propellent. For the relief of asthma Dote 2 or 3 inhalations.

Brovon Bronchial Mixture (Moore Meder nal Products) Conta na ammonium chloride 20 grains, ammonium easbonste 20 grains, sodium iod de 12 gra na, liquid extract of squill 8 min ms 1 quid extract of pecacuanha 2 minima, infus on of senegs to 1 fl oz. Dose 2 tesspoonfuls with hot or cold water on tis ng and twice or ti nee during the day children, 1, to 1 testpoonful with (For other Brown preparations see Vol 1 24th Edn, p

 [P1] Brovonite (Moore Med enal Products) Enterio-coated tablets each contain ing methylephedrane bydrochloride 1 grann and theophylline 2 grans For releving bronch is spasm. Dose one tablet twace or three daily and at bedume.
[B] Broxii (Beecham Retearch Laboratorica) Fotassum pheneficialin (a y)

[4] BOULL (Declam Relearn Laboratoric) Folassium phenethicilin (q *)available as Tablets of 125 mg and 250 mg and as a Syrup containing 125 mg in each 5 ml (supplied in powder form for reconstitution with water before use)

BunamiodylSodium.Sodium 3 (3 butyramido-2 4 6 tri iodophenyl)-2-ethylacrylate C11H13O2NI2Na=661 0

A contrast medium for cholecystography and cholanguography Tone effects it is reported to have only minor side-effects such as mild cramp mauses and darthear There is an allergue restorion in apportantiately one per cent of patients Contra maketed in scute nephritis and ursema Dose 45 g by mouth 12 to 14 hours before examination.

Proprietary Names ORABILET (USA)

[P1 81 84A] Buthbel Tablets (McNel Laboratorics) Each contains butaber tri sodium 15 mg hyacigramme sulphate 0 133 mg hyacina hydrohomode 0-027 mg and etropica sulphate 0 667 mg For the treatment of gastro-intertunal disorders Dare 1 or 2 tablets half an hour before meshs and at bediume [P1 81 84A] Buttisol Tablets (McNel Laboratorics) Buttischingi sodium in

tablets of 15 mg 30 mg and 100 mg

Cafdis (Rechtt & Soni) Tablets each containing acetylasi cylic ac d 31/3 grains phenacetin 21/3 grains and caffente 21,3 grain th ealisium carbonate and citric ac 4 For the relief of pain. Does 1 or 2 tablets in water

[P111] Calergoi-Q. (Sonder Product) Tables task, contains opportuning a production of the second se

[pr] stu Bi (Laterpea V-Sulpha (Boord) Tablets ach contanna phenorymethyl pencilla 60 mg (as the celesum sit) and subpharmadne 50 mg and a Suspension containing in each 5 mg the equivalent of non tablet. For the transment of induction caused by praceilles sets two of tub/hommade-nu tury balka or 5 no 15 ml of supens on every 4 to 6 hours. (For shore Cak per V preparations two I 21 Min Set p = 1440

Calcium Ipodate Calcium β (3 dimethylaminomethyleneamino-246 tri iodophenyi)propionate (C₁₉H₁₃O₃N₃I₂), Ca=1234 0

A contrast medium used m chole-privariaphy and cholangiography 11 a damunisted by mouth. Tower effects occasional d arthus and allers, is reactions. Contra unknown as for Sodium lpodate p 255. Dour for chole-systemer privaria and the examption to examination or if the patient is fasting on the morning of the examination for fractionated chole-systemer privary as an internet privariant for the cholenge examples of g to the fasting patient 2 to 2¹/₂, hours before examination *Proprintary Name* Sour Discours 2¹/₂, hours before examination of the challenge examption of the contrast of the contra

Calpol (Calmic) Paracetamol (q v) a subble as tablets of 500 mg.

[B] Cambison Ointment (Horchar Horlick) Contains predition in two strengths 0 25% and 0 5% w h neomycia 0 16% as the hydrochlor or and NN di(4 mino-2 methylogunol 6 yllures hydrochloride 0 3 , for acuta dermatilis ecents and pruntus

Camyna (C H Bochringer Sahn Germany Pfizer). 4 11ydroxy 2-ozobens ozathuole (thuoxolone C,11,0,S-168 2) available as a Lotion contan ng

196

0.2%, and as a Tincture containing 0.5%. For the treatment of some, the incluse to be applied during the day and the lotion at hight.

[9] sr] Capriton Tablets (Aller & Hanbury) Each contains chlorphenuramne mulate 2 mg henylephrae hydrochlonds (b) mg, acetylailytics used 230 mg, phenacetan 160 mg, and calfeine 30 mg. For the relief of symptoms of the common coid. Dave on tablet every 4 hours maximum in 24 hours, 4 tablets [2] Carbopas (Anugen Laberatorea) Elfervescent tablets each containing annotairlying each 18 if g suscession 26 mg, and solution basebants 500 mg. One tablet in half a turnblerful of sater provides an effervescent solution of solum annotairlying each something and solution basebants 500 mg.

[PI 540] Carrocrin (Napp) Tablets each containing acetylcarbronal 200 mg mephenesin [50 mg, and reserpine 6.05 mg. For neuroses insomna, and hypertension *Dost* as a sedative, one tablet 3 or 4 times daily for insomnis, 1 or 2 tablets at beduine.

Carovit (Continental Laboratornet) Tablets each containing chlorophyll 10 mg vitamin A 500 units soluble siron phosphate 8 mg and calcum phos phate 60 mg For general debulsy Dose 2 or 3 tablets twice daily before meals

[P] \$403 Cavodil (Benger) Phenyprazune hydrochloride (q v), available as tab lets of 3 mg

[5] Celbenin (Beecham Research Laboratories) Sodium methicillus (q v).

[P1 \$1 \$4A] Censedal (May & Baker) Nealbarbutone ($q \neq$) available as tablets of 60 mg and 200 mg

Contyl (Leo Laboratorss) Bendrofluzzide (q τ) available as Tablets of 25 mg and 5 mg, and as an Injection in visits of 5 ml containing 5 mg in each mi

[9] Mij Centyl and Reserpine Tablets (Lee Laboratorie) Each contains bendroSuaude (a v) 2 5 mg and reserpine 0 1 mg For the treatment of hypertension, and the toxemus of pregnancy Date initial, 2 to 4 tablets, maintenance, 1 or 2 tablets daily

Cetal Tablets (Certuright) Each contains paracetamol (q v) 500 mg

[8] Chloramphenicol Sodium Succinate Sodium b(--) three-3 (3carboxypropionyloxy)-2-dichloroacetamido 1 p nitrophenylpropan-1-ol, C₁₁H₁₀O₁₀N₁C₁N₂=445 2

Uses, toxic effects, and contra indications, as for Chloramphenicol (Vol I, 24th Edn, pp 1408-9)

Chloramphenicol iodium succanate is a soluble salt of chloramphenicol which a suitable for intravenous, surranucular, and aubicatancous injection Date, by injection. 1 g every 6 to 8 hours, for menagitis in infants more than one month old and in chlidferen, up to 200 mg per kg body weight daily in divided dozes every 6 to 8 hours, for other conduous in infants more than one month old and in chlidfer angle dose for chlidfern at 10 mg per kg body weight daily in divided dozes every 6 to 8 hours. The maximum single dose for chlidfern at 12 These dozes rary be unjected by intra-enous or subcutancous injection as a 10% solution, or by deep intramuscular injection sa 2 50 to 40% solution

Proprietary Names ChildRomyCRYIN SLOCINATE KEMICETINE SUCCINATE (abroad)

Chlordantoin, 5-(1-Ethylpentyl)-3 (trichloromethylthio)hydantoin, CiultirOaNaSCla=347 7

Chlordantoin has fungicidal properties. It has been used in the topical treatment of vaginal monitasis.

Proprietory Name it is an ingredient of SPORDSTACIN

[P1 44B] Chlordiazeposide Hydrochloride. Methaminodiazeposide. 7-Chloro-2-methylamino-5-phenyl-3H-benzo-1,4-diazepine 4-oxide hydrochloride, C1,6H4,ON,2C1HC1=336 2

Chlordiazepoxide hydrochloride is used in the treatment of neurotic conditions accompanied by anxiety and tension and for some types of reactive depression It has been used as a muscle relaxant in the treatment of neuromuscular disorders and it may prove of value for epilepsy It is also claimed to be of value in the treatment of obsessional compulsive syndromes, schizophrenia, and chronic alcoholism. However, in a review of the actions and uses of the drug (To-day a Drugs, Brit med. J it/1960. 797) it is stated that in some patients obsessional symptoms and tension have been made worse by the drug, that there appears to be no place for it in the treatment of schizophrenia, and that its usefulness in the treatment of addiction to alcohol needs further substantiation. Tobin and Lewis (J Amer med Asr , 1960, 174, 1242) have reported favourably on its use in the treatment of 212 patients whose predominant symptom was anxiety Toxic effects most frequently encountered are drowsiness and atams and more rarely constitution, rashes, headaches, nauses loss of libido, and frequency of mucturition, Contra inducations it should be given with caution to patients with impaired renal or hepatic function Dose, daily in divided doses 30 mg, for severe cases, 40 to 100 mg. elderly patients, initial, 10 mg, children, 10 mg

Proprietary Name LIBSIUM.

Chlorhexidine Gluconate 1,6 Di(N p-chlorophenyldiguanido)hexane digluconate C₁₁H₃₀Ni₁sCl₂ 2C₆H₁₅O₇=597 8

Uses as for Chlorhenidine Diacetate (Vol 1, 24th Edn, p 1026) It is incompatible with soap the addition of hard water to solutions of chlorheridine gluconate may cause slight precipitation of insoluble chlorhexidine saits

Proprietary Aames HIBITANE, it is an ingredient of SAVLON HOSPITAL CON-CENTRATE.

[3] Chlormytol Ointmont (Parke Davis) Chloramphenicol 2°, and prednisolone 0 5% in an emolisert soft parallin basis. For the treatment of allergis and inflammatory derivatores

[5] Chloromycetin Successite (Parke Doos) Chloramphenical sodium successite $(q \cdot y)$ in visis each containing the equivalent of 1 g of chloramphenical

Chlorothiazide (BP Add USP) 6-Chloro-7 sulphamoylbenzo-1 2 4-thiadiazine 1 1-dioxide, CaHaOaNaSaCI=295 7

A non mercurial dimercie when is serve when given by mouth it increases the exerction of sodium and chlored soon and, to a itserse actent of bicarbonate and potassium nom. It does not normally exuse any change in the such base balance and is only alghtly less effective than the partriteral mercurial diarches. Its durates effects popara sites? Boosconted with for for 12 hours. Its semployan types of neghting, address of prevany aconst, causofield, by definition of ganging balance and gents, causofield is by definition, and durated by sents, causofield is by definition, and durated by

Toxic effects allergie reactions, nausce dizzinest, wekness, paras thesasa, photosensitivity epigatine discomfort, hypochlorzmie ikaloite, which may be treated by the administration of antinonium chloride except in patients with hepate discuse, and hypokalarme, which may be corrected with potasium chloride Arute pancreatum has been reported, and thrombocytopena, leukopena, and agranulocytous have occasionally occurred Patients with severe congestive heart failure and edema may develop a low salt syndrome and need the concurrent transfusion of hypertonic software of sodium chloride Contra indicated in severe renal or hepate menarment.

Dote 0 5 to 2 g in the morning in one or two doses

Proprietary Names SALURIC WARDUZIDE CHLOTRIDE (abroad) DIURIL (U.S.A.) MINZIL (Ital) NEO-DEMA (Canad) YADALAN (Span)

Chlorothiazide Sodium (NND) Sodium salt of 6-chloro 7sulphamoylbenzo 1 2,4 thiadiazine 1,1-dioxide $C_1H_3O_1N_3S_4ClNa=$ 317 7

A non mercurial diurctic with the same actions and uses toxic effects and contra indications as chlorothizade (see above) It is administered when diurcsis is urgently required or when chlorothizade is unable to be taken by mouth Doie 0.5 to 2 g daily by intra-enous injection

Proprietary Names LYOVAC SALURIC LYOVAC DIURIL (US.A)

ChlorphenoctiumAmsonate (2 4-Dichlorophenoxymethyl)dimethyl octylammonium amsonate (C₁,H₁,ONCl₂), C₁,H₁,O₁N₁S₁=1035 1

A cationic compound which is said to have bactericidal and antifungal properties. It is employed in the form of lozenges for the treatment of oral and pharvaceal indectons

Proprietary Nome it is an ingredient of PLANIDETS.

Chlorphenoxamine Hydrochloride 2 (1 p Chlorophenyl 1 phenyl ethoxy)ethyldimethylamine hydrochloride CiallysONCI HCl=340 3

Chlorphenorsamine hydrochlorade is used in the treatment of paralysis against. It reduces muscular negative and has a mild euphorant action but at has little effect on tremor *Toxie effects* are stared to be munor and to include dorwances duzzness, and dyness of the mouth but dones up to 600 mg daily have been given without ade effects. *Dose* 50 to 100 mg three daily

Proprietary Nomes CLOREVAN PHENORENE (U.S.A.)

Chlorproguani Hydrochloride N^A 3 4-Dichlorophenyl N⁴ iso propyldiguanide hydrochloride C₁H₁N₂Cl₂ HCl¹⁺³24 7 An animalanal drug with similar properties to proguani but with a

An animalanal drug with similar properties to programl but with a longer duration of action 1 ets used in the prophylaxs of melsins and es effective signist the aserual forms of all species and especially the primary exo-erythrocycle forms of *Plasmodum faltiparum* Date 20 mg weekly

Proprietary Name LAPUDRINE HYDROCHLORIDE.

[P1 \$4B] Chlorpropamide. Chlorglypropamide P 607 N p Chloro benzenesulphonyl N' propylures CasHigOsNaSCI=276 8

An antidabelic drug employed annihily to tablutamide which has the same contra midcatons and ionze effects (see p 266). Chioproparate has however, a more sustande hypoglycamic action Maintenance dotes of more than 750 mg daily should be assolded Excessive thypoglycamic response a the most commonly encountered serious reaction a few cases of *Drowneary have* Diabance Jose 500 mg daily with breakfact.

(P1 448) Chlorprothixene Chlorprothixan & 2 Chloro 9-(3 dimethylaminopropylidene)thiaxanthen C₁₀H₁₅NSC1=315 9

An antidepressant drug wh ch is said to have a sedative action greater than that of chlorpromazine. It has an anti emetic and an antihistaminic action and probably potentiates the section of narcoics and skoold So far it has many been used in the trastment of depressive state and the major psychoses. It may cracerbate sobarophrenic symptons when given alone Chlorprotinzens is usually administered by mouth but, in severe cases, a more rapid effect can be obtained by guing the initial doses by intramuscular injection.

Tone effects so far reported include dryness of the mouth, drowsiness, mild vertigo, moderate tachycardia, skin rash headache, and mild extrapyramidal effects High dosage has been known to lead to epileptiform fits

Dote daily in divided doses for major psychiatric conditions, initial 90 to 300 mg, maintenance 90 to 150 mg, for depression, initial 60 to 120 mg, maintenance 30 to 90 mg, children, for all disorders, 1 to 2 mg per kg body weight daily in divided doses

Proprietary Names TARACTAN, TRUXAL (Dan.)

Chlorthalidone G 33 182 2 Chloro 5-(3 hydroxy 1-ozoisoindolin 3-yi)henzenesulphonamide, CiaHaiOaNaSCi=338 8

Chlorthalidene is a long acting discrete Is acron is suit to last for 24 to 48 hours after a single card does of 100 to 200 mg it increases the exerction of sodium and chloride ions, but there is said to be only a single loss of protosium and beachosine Chlorthalidene may potentiate the extent of hypotensive sgents. Contra-adications care is necessary in giving the durg to digitaled passents and potentiate the method of the start of the start of the potentiate the start of the start of the start of the start of the potentiate the followed by 200 mg every other morming.

Proprietary Name HIGROTON

Chlorthenorazin 2 (2 Chloroethyl) 2,3-dihydro 4-oxobenz 1,3 oxazine, C10H13O3NCI=211 7

A mild analgesic with anti inflammatory and antipyretic properties Dose 500 mg up to 3 times daily

Proprietary Name it is an ingredient of VALTORIN

Chlorzoxazone (NND) 5 Chlorobenzoxazolinone 5-Chlorobenzoxazolone, C-H.O.NCI=169 6

A skeletal muscle relaxant with uses similar to zoxazolanune—see Vol I, 24th Edn, p 663 It is administered by mouth Taxie effects as for zoxazolanune, but less severe and less frequent Dose 250 to 750 mg 3 or 4 times daily

Proprietary Names FARAFLEE (abroad) it is an ingredient of PARAFON

[Pi taij] Cholozin (Rzarz) p-Thyrozone sedum [sodum dattrohyrozne sodum p.8 (4 hydroxy 3-4 sodopheroxy) 3-5 di-dobphery] proposts, C₁H₁O₁O₁N₁Ni =758 3) variable as solites of 2 org [its used in the treat and of hyperclosterolerance. Locate molecular duration in a content proceeding a largestice Dobt or Zahy if common New 1 stars by the necessary to reduce the does of an anticoogulating two concurrently.

Chrysocreme (Riker) An continent containing chrysarobia 10 grains in 1 on. The outment basis has the same plf as normal skin contains a precaling agent and reduces staring for the treatment of ance rosacce, protains and ince

Chymar (Armour) Lyophilsed chymotrypsin (q v) as lable in the following forms Chymar Buccal Tablets: each containing 10 000 Arm ur un in for the treatment of inflammatory cond mona both hoci and system of any origin dois one tablet 4 times daily dissolved slowly in the lower luxual

pouch with munumum swallowing and expectorsion. Chymar Aqueous a sterile stabilized injection is all if value constanting 5000 Armour units in 1 milincompatible with heavy metals at should be stored in a cool place for the reduction and prevention of inflammation address blood cartravisates and lymph effusions done by deep initianuscular smethons for chronic and recurrent condutions. 2000 Armour units units of the characterization and the Aqueous (Replacement of anny to Val. (2484 Lists p. 1374).

[B] Chymar Olntment (drwour) Contains in each g hydrocortamate hydrochloride (qv) 1 25 mg meany an 35 mg (as pulsitate) and proteolytac scivity (provided by a concentrate to phancreatic enzyment) 10 000 Armour units For the reduction of swelling and stchung associated with wounds, dermatum and sin infections

Chymar Zon (Armour) Stenle lyophilised chymotrypsin (q \forall) in vials of 100 Armour units supplied with 1 ml vials of Compound Injection of Sodium Chloride for use in catanct surgery

Chymoral (Armow) Tablets of trypsin and chymotrypsin (q v) seturity in a ratio of approximately art to one each providing total enzyme activity of 50 000 Armove unuts for the treatment of inflammatory conditions, both local and systemic, of any origin. Dose 2 tablets reduced to 1 tablet 4 times daily

Chymotrypsin. a Chymotrypsin

Chymotrybrun, a proteolytie enzyme obtained in crystalline form from mammalian parceras, is an ant inflammatory gent given by mouth, by mhalation, by intramuscular injection, and used topically as an ointment. Solutions are employed in cistanci surgery (see Pirste and O Donoghue, Brit med J, u)1960, 1629. Contra inducated in patients with severe liver disease or abnormal blood-clotung mechanisms.

Units Theoretical comparisons of different units are unreliable Recent work has shown that one Anton unit is equivalent to 160 000 Armour units (letter from R B Christie, *Pharm J*_u/1960 508)

Properties Names Chyman Chyman Con Chymo Tatpung Novo Gas TROLAV ZONULYEIN, II IS an ingredient of Chymonai, Lonuoase, and Tryptan Obtyment

Chymo-Trypure Novo (Etans Medical) Sterile freeze-dned crystalline chymotrypun (q ψ) in vals each containing 2 mg for dissolving in 10 ml of Compound Injection of Sodium Chloride for use in cataract surgery

Ciba 1906 (Caba) Thusmbutonne (q v) available as tablets of 500 mg

Circetyl (Parks Darcu) A fluid laxative containing in each testpoonful (5 ml) acceptorolisatin 2 mg and propylene oxide-ethylene acide polymer 100 mg Dor 2 testpoonful in before breaklast or at beclume children over 6 years one testpoonful infants, ²/₄ to ³/₅ testpoonful (Modification of entry in Vol. 1 21th Eds p 53)

[P1 \$7] Clernizole Hydrochloride 1 p Chlorobenryl 2 pyrrolidin 1 ylmethylbenziminazole hydrochloride C₂, H₂₅N₂Cl HCl=362 3

An anthustamine which is stated to produce slight drows ances oc casionally as its only side-effect in the usual dosage 1t can be given by mouth, or by injection, or used locally Dots by mouth, 20 mg 2 to 4 times daily, and 40 mg at night if necessary by subcutaneous, inta miscular, or idow intravenous singetcon, 10 to 20 mg 3 to 5 times daily

Incompatibility solutions of clemizole hydrochloride are incompatible with solutions of calcium salts

Proprietary Name ALLERCUR.

Clorevan (Evant Medical) Chlorphenosamme hydrochloride (q v) available at tablets of 50 mg

[P1 84B B] Codelprone (Merck Sharp & Dohne) Tableta each containing an inner core of predmissione 2 mg surrounded by meprobamate 200 mg and dried sluminium hydroxide gel 200 mg For the trestment of chronic rheumatic diseases inflammatory and allergic conditions and collagen diseases Date initial 2 tablets 3 or 4 times daily then reduced by one tablet daily every 4 or 5 days until the lowest effective level is reached

[5] Codelsol (Merck Sharp & Dahme) Prednisolone phosphate as alable as an Injection in vials of 2 ml, esch contaming 40 mg as prednisolone disodium phosphate, with micotinamide 50 mg For the treatment of severe allergie reactions adrenocortical insufficiency certain types of shock and acute life threstening infections Dore by intravenous or intramuscular intection, 20 to 100 mg maintenance 10 to 20 mg By intrasynovial injection 2 to 20 mg [B] Codelsol Eye Ear Solution (Merch Sharp & Dohme) Contains predinisolone phosphate 0.5% and neonycan suphate 0.5% in bottles of 2.5 ml. For inform

matory conditions of the eye and ear

[B] Codelsol Skin Lotion with Neomycin (Merch Sharp & Dol me) Contains prednisolone phosphate 0 5% and neomycin sulphate 0 5% in bottles of 15 ml For inflammatory skin conditions and the prevention of secondary infection,

Combizym (Lustpold Werk Munich Roberts) Tablets contain ng mulu valent digestive enzymes of snimal and vegetable origin including lipase amylase trypsin protesses cellulase, and henucellulases Jose 1 or 2 tablets during meals

[E] Compocillin-VK (Abbott) Phenorymethylpenicillin potassium, available as granules for preparing Solution 62.5 containing 62.5 mg in each teaspoonful

(5 ml) and Solution 125 containing 125 mg in each teappoonful (5 ml) [P] 54B B] Compocilius VK with Sulphas (Alboit) Filmiaba (film-coated tablets) each containing phonoxymethylpenicillin potassium 125 mg, sul phediazane 250 mg and sulphadim date 250 mg. Solution contain ng in cach reaspoonful (5 ml) phenoxymethylpenseilin potassum 62 5 mg subhadias ne 125 mg and subhadimidine 125 mg (suppled as granules for reconstit uon with watter before use) For the treatment of mixed infections. *Does* one i limtab or 2 tesspoonfuls of solution three daily in severe infections up to 2 Filmibs or 4 tesspoonfuls of solution every 4 hours (For other Compositing preparations see Vol 1, 24th Edn pp 1444-5)

[P2] Constrane (Ward Blenkmop) A cream containing I enotrane 0 05% and silicone MS 200 20°. For the prevention and treatment of bedsores and nankin rash.

(PI \$4E] Conovid (Searle U.K.) Toblets each containing notethynodrel (g v) 5 mg and 17a-ethynyl 3 methoxyæstra I 3 5(10)-trien 17-ol 0 075 mg For the control of fertility Dose one tablet every night for 20 nights start ng on the Sth day of each menstrual cycle

Conntin (Continental Laboratories) Sacheta each conta bing acetylitalicylic acid 5 grains citric acid 10 71 grains andrum hiearbonate 21 65 greins, and ascorb e acid 3 09 grains For colds, influenza and m nor sches and pains. Dose the contents of 1 or 2 sachets in water thrace daily

Coornassue Blue (Medical) (Imperial Chemical Plarmaceut calt) Sod um anoxynaphthonate (q v) 2% and 4% in ampoules of 5 ml the 4% solution contains 2 imidazoline 10% w/v as a aolubiliser

(Pt \$7) Co Pyronil Pulvules (Lilly) Capsules cach containing pyrrobutam na phosphate (q v) 15 mg methapyrilene 25 mg and cyclopentimme l)dro-chlonde 12 5 mg For the treatment of allergic reactions and rel ef of cough. Dore one capsule twice or thrice daily may be increased to 6 capsules daily in divided doses for severe symptoms

(P1 \$1] Corangil (Allied Laboratories) Tablets each containing in the outer costing glyceryl trinitrate 0 5 mg and, in an inner core, pentaerythnikol tetra nitrate 20 mg diprophylline 120 mg magnes um tr si cate 120 mg and papaverine hydrochlonde 60 pig For the prevention and treatment of attacks of angina pectoris

Cordocel (Clay & Abraham) A sterile powder containing Dustir g powder of Alum and Zane for Infants B1 C and hexachlorophane 0.3°, in envelopes of 60 crains

[8] Corlan Pellets (Glave) Each contains hydrocortisone sodium succuster equivalent to 2 5 mg of hydrocortisone For sphithous ulceration. Dore one pellet 4 times daily they should not be sucked but kept in the mouth in close proximity to the ulcer.

[E] Cortibiotic Skin Ointment (Roussel) Contains fram; cetin sulphate 1 5%, granucidin 0 005% and predintedane 0 5% For inflammatory condutions and pruntus (For other Contribute preparations see Vol. 1 24th Edn. p. 1416)

[#1418 B] Cortico-Gel (Crooket) Carticotrophin in hydrolysicd gelain solution for subcustancous or intramuscular injection available in vials of 5 ml in two strengths 20 units and 40 units in each ml Dose initial 20 to 30 units main tenance. 10 to 30 units daily

[3] Cortisporta Lotion (Burroughs Wellcowe) Contains in each ml poly myran B subplate 10 4000 units neomycan subplate 5 mg and hydrocortisone 10 mg in an aqueous vehicle. For the treatment of bacterial infection and manumation of the skin (See also Vel. J 24th Edu p = 1445)

[B] Cortocaps (Crooket) Capsules containing hydrocortisone acets to 0 5% and neomycen subplate 0 5% in a soft parafile basis For topical treatment of infectors of the eye and external ear

[B] Cortoderm (Crookes) A cream containing hydrocortisatic accuse 0.25 0-5 or 1% and colloidal calarante for dermatuis and pruntus. [B] Cortodern N contains in addition neoroycin aulphate 0.5%, for simular conditions when secondarily infected. (Modification of entry in Vol. 1 23th Edn p 1395)

[3] Cortral Spray (Pfusr) An acrosol apray containing bydrocortisate 100 mg in 2 fl as Tor local use in atop c dermatus, contact dermatus, and non specific ano-genital printics (For other Cortral preparations see Vol 1 24th Ear pp 486 and 490)

[P1 MB b] Cortrophia (Organon) Cortucotrophun freeze-dried for the preparation of Corticotrophia Injection available for intramuscular or subcutaneous use in vials containing 10 units and 25 units, and for intravenous use in vials con taining 30 units and 75 units (Modification of entry in Vol 1 24th Edn p 459)

[Pi 34D B] Cortucid (British Schering) A flu d cream containing subpacetamide sodium 10 0% and hydrocortisone scetate 0 5% For inflammatory type con ditions To be dropped into the eye every 3 hours until the condition improves

Coryzin (Richter) Tablets each containing quinine dihydrochloride 50 mg and ascorbic sord 150 mg For colds, influenza and nasal catarrh. Doise prophy lactic, one tablet twice or thrice daily therapeutic 2 tablets thrice daily for 3 to 5 days

Cremalga (Brook Parker) A crean containing methyl nuclinate 10% glycol salucylate 100% and capsion 015%. For the relief of fibrositis sciauca, lumbago muscular pain and atiliness, and theumat c condutions

[P1 MB E] Cremostrep (Merch Sharp & Dohne) A flavoured suspension contain ing succunylitu/phathuzole 10% airrpitomycin (as sulphate) 1%, and kaolin 10% For the treatment of d arthese Boss 4 teaspoonfuls 2 to 4 times daily before meals infants and children 1 to 2 traspoonfuls thrace da ly

Crolax (Crooket) Tablets each containing dioctyl aodium aulphosuccinate 50 mg and dihydroxyanthraquinone 50 mg For constipation. Doir 2 tablets at n.ght.

[B] Crystapen G Syrup (Glavo) Contains in each 5 ml benzylpenicillin (potasium sait) 200 000 unus (125 mg) supplied as granules for reconstitution with water before use

with water before use [6] Crystaper V (Glaso) Phenoxyn edwylpenentlin wyalable as Tablets (potessium sith) of [25 mg and 230 mg as a Syrup (potessium sith) containing in each tespoondi [5 m]) 125 mg (pupp) ed as granula for reconutint on w th water before use) and as a Suspension (calcius sith) in two strengths, 63 mg and 125 mg in each tespoondia (Sma)

(For other Crystapen preparations ses Vol 1 24th Edn p 1438)

[P1 \$7] Cyclizine Lactate (NND) (see also Vol. I. 24th Edn, p. 1112) 1-Diohenylmethyl-4-methylosperazinelactate C++H++N+C+H+O+=356 5

Cyclizine lactate has the same actions and uses as cyclizine hydrochloride and is given by intramuscular injection when cyclizine hydrochloride by mouth is not feasible Tonic effects, antidotes, and contraindications as for the antihistamines in general (Vol I, 24th Edo, pn 1101-2) Dose 25 to 50 mg by miramuscular injection.

Proprietary Names VALOID INJECTION, MAREZINE LACTATE (U.S.A.) [P1 \$1 \$4A] Cyclophosphamide B 518 NN-Di(2 chloroethal)-N (3hydroxypropyl)phosphorodiamidic acid factone, C,H,O,N,PCI,=261 1

A cytostatic agent which may be given by mouth or by intravenous or intramuscular injection Up to 22 g has been given by intravenous injection over a period of 8 months without blood complications Matthuas and Missewicz (Brit med J. 11/1960, 1837) consider that regular leucocyte counts are essential during therapy with cyclophosphamide and recommend a count every 3 to 4 weeks Toxic effects, which are less marked than with other evtostatic agents, may include a fall in leucocyte count, anorexis, nauses, and temporary alopecia Damage to bone marrow and a fall in the leucocyte count is said to be less with cyclophosphamide than with other cytostatic sgents Leucopenia may occur with full courses of treatment but the leucocytes recover within 3 to 4 days of reducing dosage or interrupting treatment. Dose initial 100 mg daily by intravenous injection, increased up to 200 to 400 mg daily to a total of 5 to 7 g, maintenance, 50 to 100 mg daily by mouth Propretary Name ENDOXNA, CYTOXIN (US.A), ENCOXIN (Ger),

PROCYTOX (Canad)

[B] Cycloserine (Lully) (Vol I 24th Edn, p 1412) Also svalable as Fulvules (espaules) of 125 mg

(B) Cycloserine and INH Pulvules (Lilly) Capaules each containing cycloserine 250 mg and isomazid 150 mg

Cyfol (Rybar Laboratories) Tableta each containing ferrous gluconate 300 mg . folio and 5 mg and cyanocobalamin 5 µg. For the prevention and treatment of macrocytic anamis and hydramis of pregnancy nutritional macrocytic anæmia, and iron deficiency anæmias, Dose one tablet thrice daily

Cytostatic E 39 Soluble (F.B.A Pharmaceuncals) 2,5-Di(ethyleneimino)-3 6-di(2 methoxyethoxy) p-benzoquinone, available in Ampoules of 10 mg, with aqueous solvent in separate ampoules of 10 ml , and in Capsules of 5 mg Similar in action to inproquene.

(P1 87) Daneral (Hatchst Horlicks) Phenaramino amunosalicylate (g v). svailable as tablets of 10 mg and 50 mg

Daraclor (Burroughs Wellcome) Tablets each containing pyrimethamine 15 mg and chloroquine sulphate equivalent to chloroquine base 150 mg Tor the treatment and suppression of malaris Dote prophylactic, sens immunes 2 tablets monthly non immunes one tablet weekly, therspectre, sens immunes one dose of 4 tablets, non immunes 4 tablets followed by 2 tablets in 6 hours and 2 tablets on the second and on the third day

Daranide (Merch Sharp & Dohme) Dichlorphenamide (q v), svalsble as tablets of 50 mg

Darcets (Clarnell) Lozenges each containing cetylpyridinium chloride 4 a g For the treatment of infections of the mouth and throat Dous one lozenge dissolved slowly in the mouth every 2 hours

Darenthin (Burroughs Belliome) Bretyluum tosylate (q v), available as tablets of 50 mg and 200 mg.

(P1 \$4B) Dartalan (Searle U.K) Thiopropazate hydrochloride (q v), available as tablets of 5 mg and 10 mg

Deaner (Riker) Deanol p acetamidobenzoate available as tablets each contain ng the equivalent of 25 mg of deanol (see below)

Deanol 2 Dimethylaminoethanol C4HitON=89 14

The administration of deemol produces an increase in well being and physical energy. The drug is effective in the treatment of general debility, mild depression chronic headache, and some bebavioural disorders it is usually administered by mouth bur it has been administered in clinical trials by intravenous and intramiscular injection. A dose of 50 mg has been given intravenously and up to 500 mg has been given daily by mouth to patients with seven or signified depression without producing serious side effects. Children with behavioural disorders have been given initial dose of 500 mg daily, with maintenne doses of 100 mg to 300 mg daily Tone effect are misor but may include dull head ache, slight consultation, muscle tension insomini and pruntus Contra indicated in grand mal. Dose by mouth, initial 50 mg daily in the morning, maintenance. 25 mg up to 3 times daily

Proprietary Name DEANER (as the p acetamidobenzonte)

[PI 87] Debendox (Merrell Nanonal) Tublets costed for delayed action each containing displanme hydrochlonde 10 mg doxilamine succustes 10 mg and pyridoxine hydrochlonde 10 mg For the relief of the natures and vorming of pregnancy Dave 2 tablets at bedrane in severe naures, one additional isolet on sing and in mod siternoon

[13] Decadron (Merch SI arp & Dolone) Dexamethatone (q v) available as a Skin Lotion containing 1 mg (as photphate) in each ml and as Tablets of 0 5 mg and 0 75 mg

[r] kejj Decaseryj (*Rosuti*) 10 Mehorydesryddiw (mchoseryddim 11 demthory (bornhorytesrynn Cyfley OA) - 2572 7) swildib as thleis a the single of a straight of the second of the straight of the straight

[B] Decaspray (Merch Sharp & Dohme) An secosol containing in 90 g dexa methatone (q v) 10 mg and neomycin sulplate 50 mg For the treatment of inflammatory and privice skin conditions Releases in each second dexameths sone 0 075 mg and neomycin sulplate 0 375 mg

[P1 \$1 \$4A] Degranol (Leda) Mannomusture dihydrochloride (q v) in am poules of 50 mg

Detrasil Capsules (Crooke) Each contants vitamin A 6000 units, caluferol 600 units ancutume hydrocholoride 2 mg ribolarine 3 mg principatine 0 smg cynnocobaian n 1 µg ascorb c sed 30 mg vitamin E 2 units, butun 25 µg folis caid 0 S mg nacontamated 20 mg pantotheans ead 3 mg iron 1 7 mg manganes 1 mg zuw 0 S mg sodine 150 µg and cobait 100 µg A vitamin and nunceria luwplement. Dave one capsule daily

Delaminoph (B.M Laboratories) Aminophylline available as enteric-coated tablets of 125 mg

[P1 8] 84A) Delamised (B M Laboratories) Enteric coated tableta each containing aminophylline 125 mg and amylobarb tone 16 mg. For the treatment of asthina chronic bronchitis, angina pectoris and cardiac failure. Doise 2 to 4 tableta three daily before meals.

[PI 443 II] Delta Butazolidin (Gogy) Tablets each containing phenyl butazone 50 mg and predn sone 1 25 mg For theumauc and related disorders Dore mutal 2 tablets 3 or 4 times daily maintenance 2 tablets runce or one tablet thnce daily

[9] Deltacortril (Iffier). Predmoslone available at Tableta of 1 mg and 5 mg and an Deltacortril Enteric un enterac-costed tableta of 2 mg Deltacortril DAtan continent containing predmoslone d ethylaminoacestae hydrochloride 0 25% on tubes of 5g and 15g for a slope and constat dermatuis and non-specific ano-genital pruntus. Deliacortril Intramuscular: an injection in vals of 5 ml. containing in each ml. predaisolone acetate 25 mg. (Modufication of entry in Vol. 1, 24th Edw. p. 497)

[20] Delta-Fenox Nasal Spray (Bools). Contains prednisolone 0 01%, phenylcphrine hydrochloride 0 25%, and naphazoline nitrate 0-025%, in a watermiscolle basis For allergic conditions in the nose.

[B] Deliz-Genacort (Genatoron) Predmisolone, available as tablets of 1 mg and 5 mg

[3] Defiastab (Band), Predmaolene, malable as Tablets of I mg, and S mg, Defiastab logicational predmaolene scenter in squares more normaarticular maction, available in vals of S ml, containing 25 mells Defiastab B-Tablets each contain predmatone 5 mg, dured alumnioum hydroxide gel 300 mg, and magnesium insulants 50 mg, (Modification of minter in Vol. 1, 24th Eda, pg, 47 and 1359)

[B] Demethylchlortetracycline. 7-Chloro-4-dimethylamino-1,4,4a, 5,5a,6,11,12a-octahydro-3,6,10,12,12a-pentahydrox7-1,11-dioxonaphthacene-2-carboxyamide, Cu₁H₁₀O₄N₄Cl=464 9.

An anthonce with similar scions and use to the tetracyclines-nec Vol. 1, 24th Edn. p. 1462. It is rapidly absorbed and alongly excreted and has approximately twice the antibacterial activity of terracycline For a review of information on domethyldholmetracycline scient $M_{\rm eff}$ and $M_{\rm eff}$ and

Proprietary Names LEDERMYCEN, DECLOMYCEN (U.S.A.).

Depinar (Armesr). A complex of symmosization with tune and immus and which on recommission forms a collocial supervision of a strategiest After superiors at breaks down alowly and is suid to provid a contacuous supply of symmosization and to municas a high concentration in the serior for several weeks, Available in vals of 2500 ge, with one val of 5 ml. of duluent, and un valis of 1000 ge with oor val of 2 ml. of duluent.

[8] Depo-Medrone (Upphn). Methylprednuolone scetate (q v) in a sterile squeous surpension for injection, in 1-mi, visis and in multi-dose visits of \$ mi, containing 4 mg, in each mi.

Depot-Glumorin (F B.A. Pharmaceuteali). Kallikrein (q, v), in ampoules each containing 40 hological units bound to a colloid of high molecular weight. For use in severe vascular diseases and enculatory distributes.

Dequadin Cream (Allen & Hanburys). Contains dequalinium chloride (see below) 0 4%.

Dequadin Pessaries (Allen & Hanburye) Each contains dequalinum chlonde (see below) 10 mg.

(For other Dequadin preparations see p.275 and Vol. 1, 24th Edn, p. 1336)

Dequalinium Chloride (B.P.C.). Decamethylenebis(4-aminoquinaldinium chloride), CasH. 18N (Cla=527 6.

An antibacterial and antibungal sgent active against many Grampositive and Gram-negative organisms, Sparochasto tuncent, Candoa albean, and Trubenpison spo. It is used in the form of locarges or paut in the treatment of inflections of the mouth and throat and as pessanes in the treatment of inflectional vagantas.

Propretary Name: DEQUADES, if is an angredient of DEQUADES CREAM, DEQUADES LOCENCES and PART (Vol. 1, 24th Edm, p. 1316), DEQUADES PRESAME, DEQUALONS-P, and DEQUASEON (Vol. 1, 24th Edm, p. 981).

[B] Dequalone-P (Alles & Hondurst). A non-greaty creat containing dequations in chiorde ($q \neq 0$ 0 4% and preducelone 0 25% in a hydrophilic base. For topical use in scute or chronic dermatese

DermaPbytex (Wynkt Laboratories) A paint containing borotannic com plex 10 92% in ethyl acetate and alcohol For the treatment of dermatomycos s

Detigon Antitussive Drops (FBA Pharmaceutical) Contain in each mil chiophedianol hydrochlor (e [1-e-chiorophenyl 3 dumethylamino 1 phenyl propan 1 ol hydrochlor de C₁, H₂ONCI HCI 326 3) 50 mg A tough sup pressant, Dwie 13 to 23 drops 3 or 4 tumes da ly

Detigon Linctus (*PBA* Pher neceti cals) Contains in each tesspoonful (4 ml) chlophed anol 14 mg (as citrate) and potassium guasacolsulphonate 80 mg A cough suppressant and expectorant, Dote 1 to 2 tesspoonfuls 3 to 5 times daily

[B] DexaCortisyl (Routed) Dexamethasone (see below) available as tablets of 0.5 mg and 0.75 mg

[4] Dexamethasone Delta 1 9π fluoro-16π methylhydrocortisone 9π Fluoro 16π methylprednisolone Hexadecadrol, 16π Methyl 9π fluoro prednisolone 9π Fluoro 11β 17π 21 trihydroxy 16π methylpregna 1 4diene 3 20-dione, C₂₃H₂,O₄F=392 5

Dexamethasone is a synthetic analogue of hydrocornsone with similar actions and uses but it is about twenty five times more potent. It does not have the sodium retaining or the polasisum exercing properties of hydrocornsone and is chefy used for its ant inflammatory and and allergie effects Dores of up to 15 mg daily have been given for active theumatic fever easile leukama the nephrotie syndrome and active permphagua Toxic effects and contra indications as for Predninone (Vol 1 24th Eng + 92) Due 0 75 to 45 mg daily ndivided dose

Prophetary Names DECADRON DETACONTEXT. DESTELAN MULLICORTEN ORADERON GANMACORTEN (U.S.A) tis an ingredient of DECASTRAY

[A] Dextelan (Glazo) Dexamethasone (q *) available as tablets of 0.5 mg and 1 mg

[19 PI *1] Destroutoramide Destrod phenopyrine D moramid VI C.P 875 R 875 SKF 5137 (+) 1 (3 Methyl 4 morpholino 2 2-diphenyl butyryl)pyrrolidine $C_{11}H_{12}O_{11}N_{1}=392.5$

An analysis stated in be of value up the control of severe pain and to have a spaje action 1 rm say obtenuise the section of barbiturates chlor promatme and anasthetie sgents Barbiturates given concurrently should be at haif the normal dosage it is given by mouth by rectum or by subcutaneous or intramuscular injection and similar analgesic effects are claured for the same dose whether g set by mouth by rectum or by infection Hasard (When Hasard (When do Flexibian Concentration Doses of up to 400 mg have been given duily in carcinoma. Destromorninale may course addictions Hasard (When do Flexibian Concentration particular and the same dose whether g set by propherical to do p 30) instea that it is difficult to be more that such argo Supplement to does not lead to any add ctoon or habr. The drug was found to have an addiction 1 ability equivalent to morphane in morph ne add ets and non toleant former op ate addicts (Pherm d 11937 336)

Tone effects it may cause I ghtheadedness dizeness and with h gher doses severe expiratory depression Antidote nalorphine Contra indications decitorionizant de must be used with care when presenbed with respiratory st mulants and for patients suffering from hepatic insufficiency with jaundice hypotens on and cerebral duesae

Dote mix initial dote 5 mg or post-operatively 2 5 mg, a further dote can be given after 2 hours if necessary, the use and frequency of the dote depending on the response of the part can. Max single dote 20 mg Propriary Norme PALFIUM DIMONLIN (as laritate) (U.S.A) JATAUMA (Nel) [P1 81] Dextropropoxyphane Hydrochloride(N.N.D.) (+) a 1 Benzyl 3 dimethylamino-2 methyl 1 phenylpropyl propionate hydrochloride C.H.O.N. HCl=375 9

An analgesic administered by mouth to alleviate pain associated with chronic or recurrent disease such as rheumatoid arthritis and migraine The drug is said to have httle or no liability to cause addiction. It causes local urritation if given by injection. Texas effects the drug occasionally causes a rash or gastro intestinal disturbance, large doses may cause drowsiness and dizziness Date 65 mg 3 or 4 times daily

Proprietary Names DOLOZENE DARWOW (U.S.A)

[P1 \$4B] Diabinese (Pfizer) Chlorpropamids (q v) available as tablets of 100 mg and 250 mg

Di Ademai (Squbb) Hydroflumethaszade (q v) available as tablets of 50 mg Di Ademai K tablets each containing hydroflumethiszide 25 mg, and potassium chloride 625 mg

Diaginol Viscous (May & Baker) Sod um acetrizoate 40% in dextran solution available in ampoules of 10 ml and 15 ml For hysterosalpingography (For other Diagonal preparations see Vol 1 24th Edn \$ 802)

Diagnex Blue (Squibb) Arure A carbacrylic resin for the determination of gastric acidity Each test unit includes 2 g of dye-reain courvalent to azure A dye 100 mg and 2 tablets each of 250 mg of callence sodium benzoate When the dye result and tablets are taken the dye as quantitatively released by the are over reals and couchs are made into over a quantizative present by the gastrin scale and as excreted and the unna The dye constant of the unne as semanted by comparison with colour standards indicates the gastrie scality (For Diagnes iss Vol 1 24th Edn p 810) [Pit MB] Dianabol (Giob) Methandienone ($q \cdot y$) available as Drops for pad-

latric use containing 1 mg in each ml. and as Tablets of 5 mg

[F1 84B] Dibotan (Boyer Prod.) Phenforman hydrochloride (q v.) ava lable as tablets of 25 mg

Dibromopropamidine Embonate 13 Di(4-amidino-2 bromophenoxy)propane embonate C11H11O1N.Br2C11H10=858 6

A bactenostatic and fungistatic agent used in the treatment of oral and pharyngeal infections

Proprietary Name It is an ingredient of PLANIDETE.

Dichlorohenamide Dichlorophenamide 4.5 Dichlorobenzene 1.3disulphonamide, C.H.O.N.S.C. = 305 2.

Dichlorohenamide is an oral diuretic which inhibits carbonic anhydrase and has actions similar to acetazolamide but also causes an in crease in chloride excretion Dichlorphenamide is used in the treatment of glaucoma. Toxac effects and contra indications as for Acetazolamide (Vol 1, 24th Edn, p 903) Dose mutal doses of 100 to 200 mg may be necessary in acute glaucoma followed by 100 mg every 12 hours until the desired effect is obtained Maintenance, 25 to 50 mg 1 to 4 times daily

Proprietary Name DARANDE

[F1 \$48] Diethylpropion Hydrochloride x Diethylaminopropiophenone hydrochloride, C1.H1.ON HCl=241 8

A sympathomimetic amine related to amphetamine and given by mouth to suppress appetite in obesity It is claimed that it does not lose its effectiveness with prolonged usage, but the Council on Drugs of the American Medical Association (J Amer med Ass, 1960, 173, 1737) states that there is little evidence that prolonged usage promotes con unuing loss of weight. Toxic effects it is claimed to have few and in frequent side effects and rarely to stumulate the central nervous system

The Council on Drugs (loc. cit.) considers that this statement lacks conclusive substantiation and also considers that chrome toxicity studies are inadequate Dore_25 mg 3_or 4 times daily before meals

Proprietary Names TENUATE TEPANIL (USA)

Dilavase (Organon) Isox
suprime hydrochloride (q v) scalable as tableta of 10 $m_{\rm g}$

[P1 54B] Dilosyn (British Drug Houses) Methdular ne hydrochloride (qv) available as a Syrup containing 4 mg in each tespoonful and as Tablets of 8 mg

Diloxanide Furoate Dichloro-N p-hydroxyphenyl N methylacet amide furoate C₄H₂O₈NCl₄ C₄H₄O₈--346 2

An americade which is used in the treatment of intestinal amechanis and may be of value in trust amethanse Dilexande furnate is stated to be more active than dilexande against Entamada initiofyrica. Toxic officers are stated to be not serious and rary include Baulonco. Due '500 mg three da ly for 10 days repeated if necessary children. 20 mg per kg body we ght dally in divided dones for 10 days repeated if necessary

Proprietary Name FURAMIDE

Proprietary Name for Dilozanide ENTAMIDS (Vol 1 24th Edn pp 604 and 1368)

Dimagel (Leurs) Dimagnes um aluminum tris licate a a lable as tableta of 500 mg Antac d adsorbent. Doie 2 tablets w th flu d between meals

[F1] Duragel Belladozna (Lour) Tablets each containing duragnes um alumnum tratiacate 500 mg and belladonna alkalo ds (h)osogan ne apoaro pune hyosens end belladonnen en naturally occurring proportion) 61 mg For gustare and duodensi uicer hypersecretion and gastro intestinal aparm due to näumnation Dave 2 to 4 tablets halt an hour before mela

[P1 \$4B] Dimethisterone 62,21 Dimethylethisterone 17a Ethynyl 17 hydroxy 62,21-dimethylandrost-4 en 3-one CaiHaiOa-340 5

Dimethisterone is an orally active progestogen with similar actions and uses to progesterone (Vol I 24th Edn p 970) Done 5 to 10 mg up to thrace daily

Proprietary Name SECROSTERON

Dimethoxanate Hydrochloride 2 (2 Dimethylaminoethoxy) ethyl phenothiazine 10-carboxylate hydrochloride CiriHitO4NaS HCl=394 9

An antituss e agent which acts on the meduillary centre but does not entirely suppress the cough reflex. It has muldi antispasmod e activity and local aneschetic action Doir 25 mg 3 to 4 times daily

Proprietary Name it is an ingredient of THORPAX SYRUP

Dimyril Capsules (Genatosan) Each contains isoanunile 21 5 mg For cough suppress on Do s one capsule 3 to 5 times daily to be swallo ed whole

Dimyril Cough Linctus (Genatosan) Contains in each teaspoonful (3 55 ml) isoaminile citrate (q v) 40 mg Dose one teaspoonful 3 to 5 times daily

[F1 34B] Diotrozin (Giazo) Tablets each containing thy rowine sod um 90 µg and lichtyronme soduum 10 µg. For the treatment of myrardems and other forms of hypothyro dum Dots ¹/₂ so 5 tablets daily

Direma (Dutillers Co) Hydrochlorothande (q v) available as tablets of 25 mg and 50 mg

Disamido (British Drug Houses) Disalpham de $(q \vee)$ available as tablets of 100 mg

Disprin Junior (Reckst & Som) Tablets each containing acetylad cylic acid 1/4 gram calcum carbonaste ²/3 gram and e tr e acid ²/3 gram. [B] Distaguaino Y Elistir Forts (Dut Hor Co) Conta na teach reaspoonful

(3 5 ml) phenoxymethylpenuallin 240 mg (See also Vol 1 24th Edn p 1445)

[8] Distaquaino V-K (Datallers Co) Phenoxymethylpentallin potassium available as a Suspension conta ning 125 mg in each traspoonful (5 ml) and as Tablets of 60 mg 125 mg and 250 mg the strengths are expressed as phenoxy methylpenicillin (Modification of entry in Vol I 24th Edn p 1445)

[PI \$4B] Distaval (Distillers Co) Thalidonude (a y) available as tablets of 25 mg and as Distaval Forte, tablets of 100 mg

Distant (Dutullers Co) Cyanocobalamus with polyneptide available as Elizar containing 20 μ g in each teapoondiu (3 5 ml) and as Tablets of 20 μ g, 100 μ g and 1000 μ g (See alto Duttent B₂₀, Vol 1 24th Edn β 550) (PI \$7] Distolyt (Dutillers Co) Tablets each containing chloreyclizine hydro-

chloride 10 mg and guaiphenesin (q v) 100 mg For the relief of cough. Dose 2 or 3 tablets 3 or 4 times daily

Disulphamide 5 Chlorotoluene 2,4-disulphonamide, CiH O,N,S,Cl = 284 8

A diuretic which inhibits the activity of carbonic anhydrase and increases the excretion of chlorides. It promotes the excretion of potas sium, and supplementary potassium may be required It potentiates the action of digitalis. In congestive heart failure the initial dosage is 200 mg by mouth daily for 5 days each week then reduced to 100 to 200 mg on alternate days A few daily doses of 100 mg are sufficient in premenstrual ordema Contra inducated in advanced liver dysfunction and in severely impaired renal function Dose initial, 100 to 200 mg daily. maintenance, 100 mg every other day Proprietary Name Disamine

Disubbine Blue Intravenous Injection (Imperial Clemical Pharmaceu ticali) A sterile solution of sulphan blue 6 2% in ampoules of 10 ml For intravenous use as a disgnostic aid in the study of changes in blood supply to various body tissues

Dithiazanine Iodide (NND) 33' Diethylthiadicarbocyanine Iodide 3 Ethyl 2 [5 (3 ethylbenzothiazolidin 2 ylidene)penta 1,3 dienyl]-benzothiazolium iodide CaiHai NaSa1=518 5

An anthelminitic which is particularly effective in the treatment of infestations by whipworms (Trichurs) and Strong loider It may also be used in the treatment of threadworm (Oxyuru) and roundworm (Ascars) infestations when piperazine has failed Tome effects the drug may cause nausea, vomiting, abdominal cramps, and diarrhora Contraindicated in renal disease Dose 200 mg thrace daily for 5 days in roundworm and threadworm infestations, for 5 to 10 days in whipworm infestations and for 7 to 21 days in Strong loudes infestations, children 50 to 75 mg 4 times daily for 5 days in threadworm infestations, 50 to 100 mg 4 times daily for 5 days in roundworm and whipworm infestations, and for 10 to 14 days in Strongylondes infestations

Proprietary Names TELNID, ABMINING (U.S.A.) ANELMID (Ital.), DELVER (U.S.A.) DILOMBENN (U.S.A.) PARTEL (abroad)

Ditophal. 15688, Diethyl Dithiolisophthalate, LTIP Lthyl dithiolisophthalate C11H1.O.Sa=254 4

Ditophal is administered by munction in the treatment of leprosy and tuberculosis of the skin, especially lupus vulgaris When given to lepinmatous patients ditophal produces a greater clinical improvement than other antileprotic drugs but after 3 to 6 months drug resistance may appear and the patients tire of the treatment. Ditophal is therefore best given with dapsone or thiambutosine and then discontinued after 3 months (Brit med J , u/1960 656) Dose 5 g daily by munction Proprietary Names ETISUL ETISLL T

[Pi \$i] Doloxens (Lilly) Dextropropayphene hydrochloride (q v) available as Pulvules (capsules) of 32 mg and 65 mg

[Pf stil Dolozene Compound (Luiy) Pulvules (espules) each containing dextroproporyphene hydrochlonde 32 nm phenascient 162 nm secti salegule and 227 nm and cafteine 32 4 nm For the treatment of pain associated with fever or inflammation Dure 1 or 2 capsules 3 or 4 times daily

[9] 83 84A] Dolviran (FBA Pharmaceuticale) Tablets each containing activisation and 200 mg phenacetan 200 mg codene phosphate 10 mg caffeure 50 mg and phenobarbatone 25 mg Analgesic Dore 1 or 2 tablets once to three daily

[P1] Donahel Syrup (Dalmat) Contains stropane methonitrate 0.025%, chloroform spint 5% purfied honey 20% glycerin 10% compound tattazine solutano 25% syrup 45% and water 19725°. For the treatment of cough Dore 2 teaspoonfuls when the cough a troublesome children $^{1}/_{0}$ to 1 teaspoon ful

(Pi fi H4] Donnata (Robin Co) Tablets each containing byosymme sul phate 0 1037 mg atropics uliphate 0 0194 mg byosane hydrobromide 0 0055 mg and phenobarbitone 16 5 mg Elkur each testpoonail (5 ml) is equivalent to one tablet For the treatment of a wide range of paraympathetic disorders. Date 1 of 2 tablets (5 or 10 ml of clux) 3 or 4 times daily

[7] if 14A) Donnazyme (Rob su Co) Tablets each containing in an enteric conted core parcetinu USNF 300 mg and ble salta 150 mg and in the puter hyrer hyroxyran ne suphate 0.0518 mg stropne sulphate 0.0097 mg hyroanne hyrotoromide 0.0333 mg phenobarb tone 81 mg and peptin USNF 150 mg For gastro neetund 4 sturbances *Dass* 2 tablets to be swallowed wholes fater each meal

[9] 441] Dosulfin (Grap). A matture of equal purts of subpheroxylune (q v) and auphanesature was lable as 8 yrup consump [10% of the mutest au phonesature stars and set a Syrup consump [10% of the mutest au phonesature and set Tablesis of 750 mg is a rapidly inderivation. In have either submerspreak in the block within 2 bloch of administration. In have long periods so that does need only be given at intervals of 8 to 12 hours in traves intervals of a star stars and the stars of the stars of the star phonesature in the stars of the stars of the stars of the star phonesature in the stars of the stars of the stars of the star phonesature in the stars of the stars of the stars of the stars phonesature in the stars of the stars of the stars of the stars of the phonesature is a star of the stars of the stars of the stars of the star phonesature is a star of the stars of the stars of the stars of the star phonesature is a star of the stars of the stars of the stars of the star phonesature is the stars of the stars of the stars of the stars of the star of the stars of the star phonesature is the stars of the stars phonesature is the stars of the star

Duromine (Riker) Phentern me ($q \neq$), available as capsules of 15 mg and 30 mg as an ion-exchange resus complex for austained release.

[DP181] Duromorph (Laboratores for Appled Bolog). Morphane in microcrystalline form in a long acting squeous autopens on for subcutaneous or intramuscular injection, available in ampoufes of 1 i ml each containing 1 grans.

[7] #HB Durophet (Ruke) Dexampletam ne 3 parts and zevo ampletamme 1 part bonded to an one-exchange result available at sunda of 7 mg 12.5 mg and 20 mg. For the treatment of obsety Dose one capsule of the strength gving satusfactory response to be taken at or ammediately after breakfast. Ehrmar (*Bioan Med col)* A subpared polyaschards derived from scaveed available as tolkits of 500 mg, expressening not leas than 1600 JE as units of antipeptionetic by Ehrmar AI tablets scaving not leas than 1600 to the source and an original statements and the second statement of the source of

[8] Ecomytrin (Warner) A non greasy amiment containing amphamycin (calcium ski) (q v) 0 S_0° and neomycin B (as the hydrochloride) 0 33°_{\circ} For the treatment of bacterial skin disorders (Neomycin B is one of the components of neomycin)

[B] Ecomytrin with Hydrocortisone (Warner) Ecomytrin with hydrocortisone 1%

Eczederin Cream (Approl n) Contains benzalkonium chlor de 0.05% calamine 20.88° and starch 2.09% an a lanolin cream basis For most acute or chron c skin disorders

[B] Efcortelan Soluble (Glaxo) Hydrocort sone sod um succuste in v als cach containing the equ alent of hydrocortisone 100 mg supplied with ampoules of Water for Injection 2 ml for atravenous nject on may also be used as a retenuon encena, hen dissolved n normal saline 100 ml

[3] Effortelan Soluble Intrathecal (Glaxo) Hydrocortuone sod um succanate in ampoules each containing the equivalent of bydrocortuone 10 mg for intrathecal injection.

[B] Efcortelian Solution Tablets (Glaxo) Each contains hydroco i some sodium succurate equivalent to hydrocortisone 100 mg To be dissol ed n 100 to 120 ml of normal salue for rectal nfus on.

(For oil er Efcortelan prepara onssee Vol 1 24th Edn pp 486 490 491 and 1398)

[3] Elestoi (F.B.A. Phormaceon ab) Thilets each containing chloroqu na phosphate 40 mg prednutone 0.75 mg and sectylial ryle scal 200 mg. For rheumato d arthritis and other rheumatic condutions Don 2 tablets three daily for 4 to 12 ecks then gradually reduced and changed to chloroquins phorphate 220 mg once daily

(Pi 81 54A) Eleval B (Richter) Tablets each containing amy lobarb tone 30 mg methylamphetamine hydrochloride 5 mg and aneurine hydrochloride 5 mg For anxiety states Dore one tablet in ce daily (For Eleval zes 1 ol. 1 24th Edn p 134)

[7] 44 [3] Elimit (Conden) Tablets each containing reserving 1 mg and orphenadame hydrochlonde (q v) 50 mg. For the treatment of psychoses and extrapyramidal disturbances. Do ϵ initial 6 to 8 tablets daily maintenance 1 to 3 tablets daily

Emplcamate 1 Ethyl 1 methylpropyl carbamate C,H i,O,N=145 2 A tranquilliser which is stated to act by inhib ing the transmiss on of nerve impulses through international circuits It is used in the irrestment

of anxiety and tens on and as an adjunct in the treatment of fractures and muscle stran and muscle para and inflarmat on *Toxet (fifter toxes* confilly reported are muld pastro-intestinal uppets headache dry mouth dizz ness papi tauton parachies a innormais mercased anx exp ristibil ty and skin rash. *Dore* 200 mg three daily before food and at night if necessary

Proprietary Name STRIATRAN

(pt still Easuld (Score U.A.) No ethymodel (q.) 98 5% and 17z c horyl in enthacystart 13 5(10) tent 17-61 13% n tables of 5 may and 10 mg For the treatment of var ous desorders of measturinon, for turly and prepus syn De 6 for meastrail desorder measurements provide the prepus syn meastrail desorder measurements of the syn tables the syn of the meastrail cycle. For entionerrooms 5 mg daty increased always over 7 we take 3 mg daty for a courte of 7 months For encurrent abortion 20 mg daty for g daty for a courte of 7 months For encurrent abortion 20 mg daty for the first 5 months of pregnancy increased if apotting occurs to 40 to 50 mg daily until the bleeding stops For threatened abortion 20 to 30 mg daily for 7 to 10 days and then 10 to 20 mg daily until term For infertility due to an inadequate luteal phase 5 mg dealy for the last 14 days of the menstrual cycle (Mod fi cation of entry in Vol I 24th Edn p 1395)

[P1 \$1 HA] Endozana (Word Blenkmop) Cyclophosphamide ($q \times)$ available in Ampoules of 100 mg (with sodium chloride 45 mg) 200 mg (with sod um chloride 90 mg), 500 mg (with sodium chloride 225 mg) and 1 g (with sodium chloride 450 mg) and as Tablets of 50 mg

Energi Elixir (Autolar) Conta as in each teaspoonful (4 ml) paracetamol (a v) 120 mg

Enterfram (Genatosan) A mixture containing in each 30 ml framycetin sulphate 300 mg and I ght kaolm 6 g. For the treatment of diarthera bacillary dysentery food po soning and gastro enterit a Dose 2 to 4 tablespoonfula 4 times daily children 1 to 4 teaspoonfuls 4 times daily

Entober (Ciba) Phanquone (q v) available as enteric coated tablets of 50 mg

Epanutin Parenteral (Parke Davis) Phenytoin sodium in v als of 250 mg to be d ssolved in 5 ml of diluent provided (propylene glycol 40% slcohol 10% and Water for Injection) to produce a solution containing 50 mg in each ml for intravenous injection (For other Epanutin preparations see Vol I 24th Edn o 1041)

(PI) Ephpect Forte (Clarnell) An elsur containing in each traspoonful 30 mg of guarphenesin and 10 mg of d phenamine citrate (2-diethylaminoethyl a-phenylbutyrate curate CreHatOrN CelleOr=455 5) For the treatment of cough in bronch us bronchiectasis bronchial asthma and other condit one requiring increased expectoration (For Ephpert Elium see Vol I 24th Edn b 1395)

Epidexa (Kerjooi) Contains pentacthylene glycol ether of dichlorocresol and dodecy l(ethoxycarbanoy imethyl)d methylammonium bromide in the following strengths Cream (5% and 2% respectively) Liquid (3% and 1%) and Powder (3% and 1%) For fungous infect one of the skin and nails

Episol (Crookes) Lotton, Cream, and Dusting powrder, each conta sung 5-chloro 2-(2 p-diethylaminoethoxyphenyl)benzothazole 0 5%. For the treat ment of athlete a foot and other fungous infections

[P1 \$45] Equadiol (II seth) Tablets each containing meprobamate 200 mg and ethinylorstradiol 0 01 mg For the treatment of menopausal symptoms Dose I to 4 tablets daily

[P1 \$4B) Equatrate (II seth) Tablets cach containing megrobamate 200 mg and pentaerythritol tetran trate 10 mg. For the prevention of attacks of angina pectors Dose 1 or 2 tablets 2 to 4 simes daily before meals and at bedtime.

[3] Erythrocia Filmtais (Abbot) Film-costed tablets each containing erythromycan stearate equivalent to 100 mg or 250 mg of crythromycin base [3] Erythrocin I.M. (Abbot) Erythromycin eth) succaste dissol ed in polyethylene glycol in simpoules of 2 ml mult dose yels of 10 ml and d sposable syringes of 1 ml and 2 ml contain ng the equivalent of erythromycan base 50 mg in each ml For infections caused by organisms sensitive to ery

thromyon Dose 100 mg utransmeals y every 6 to 12 hours [8] Erythrocin Lactobionate (Abbett) Erythromyon factobionate available as a sterile lyophilised powder m 10 ml vals containing the equivalent of 300 mg of crythromycn, For intravenous injection. [B] Erythrocin Oral Suspension (Abbett) Contains in each tempoonful (S ml)

erythromycan atearate equivalent to 100 mg of erythromycan base (The above Ery il rocan entries replace those on Vol.1 24th Edn p 1416)

Esidrex (Ciba) Hydrochlorothuzzde (q v) ava lable as tablets of 25 mg and 50 mg Esidrex K tablets each conta ning hydrochlorothuaz de 12 5 mg and potass um chloride 600 mg

[P1 87] Eskornade Spansules (Smith Klins & French) Sustained release capsules each containing isopropamide odde ($q \times 125$ mg phenylpropanol amine hydrochloride 50 mg and d phenylpraline hydrochloride 5 mg For nead congestion Date one capsule every 12 hours

Ethibalm (Eth ca Laboratories) A water miscible cream containing acetyl sal cyl c acid 17 5% For the relief of pain in lumbago and muscular stiffness,

Ethionamide Alphaethylisonicotinic Thioamide Alphaethylihoisonicotinamide 2 Ethylisothonicotinamide 1314 TH 2 Ethylpyridine-4 carbothonamide CaH ANS 166 25

Ethonamide is used in the treatment of pulmonary tuberculous where other drugs are unautible because of drug russian micro-organisms or intolerance. Tone effect occur in about half of the patients on a daily dosage of 1 g and may include anorexan nusses sulorthem vomiting and dustricos mental depress on heasthethe area memorthag a, gymecomastis and alopeca have been reported Dose 0 5 to 1 g daily in divided doses

Proprietary Vames TRESCATYL TRÉCATOR (Fr)

Ethoheptazine Citrate Heptacyclazine Wy-401 Ethyl 1 methyl 4 phenyl 1 azacycloheptane-4-carboxylate citrate CityHaiO.N=453 5

An analysise which is chemically alled to pethol as The clin caltrails so far reported do not suggest that it is lisble to cause addict on it does not supper to locates or depress could be or respirition. Etholicy taune cutrate has been found useful for moderately server pun of muscalosoletai organ and when yers on combustion with acceptale (e) a and the analysis effects are add into Tone offerit natures dura trees on gatter distributes and purnus Boyer 75 to 150 mg 3 or 4 unes daily

Proprietary Names ZACTANE (U.S.A.) it is an incredient of ZACTANN Ethosusymide PVI 671 a Ethyl a methylsuccinimide C.H., O.N.=

141.2

"Àn anteonyulant used in the treatment of petit mal if grand mal senures are present it may be admanistered in conjunct on with other anteonyulants Tone effects most frequently reported are assues gatine distress dreast methods and occus and along and Dose daily adults and chaldren of 6 years and over in tail doses of 500 mathing adjusted by small increments es 200 mg etry 4 to 7 days until mutal doses of 220 mg adjusted as above. Doses of up to 2 g ds h are not unusual for adults

Proprietary Names EMESIDE (see p 275) ZABONTIN

[P1 84B] Ethotom (N.N.D.) AC 695 3 Ethyl 2 4-d oxo 5 phenyl m d azolane 3 Ethyl 5 phenylhydantom C₁₁H₁₂O₁N₁=204 2

Proprietary Name PEGANONE

Etsui (Imperial Chemical Pharmaceutical) D tophal (q, v) in a perfuned cream for nunction containing 0° for use ma ally n irop cal climates. Etsui T is a similar cream for temperate c **i** mates

[P1 std] Euvernal (Kerfood) Subplaners $\{q \mid j \text{ available as tablet of 500 mg}$ [B] Evramycan (Wyath) Tracetyloleandomycan $(q \lor)$, available as Capsules ech containing the equivalent of 250 mg of cleandomycin and is a Suspension containing in each teaspoonful (5 ml) the equivalent of 125 mg of oleandom mjc n

Extingential (*Heidel Pharmacentuch*) Liquid containing in each fluid ounce soluble laver fraction 260 mg ferrous autophate 523 mg acorba acu 28 mg ancurne hydrochlonde 2 mg ruboffavne 2 mg, nicounnande 17.5 mg hydrod glucose 14 g and alcohed (59%) 364 mH For autophani aron deficiency and accondary anemas. Doise one tablespoonful thrac daily Capsules each containing dried line extrate 150 mg dred derona aufphate 200 mg isoorb e send 35 mg aneurne hydrochlonde 1 mg ruboffavne 1 mg and nicounanude 10 mg Daire one capsule thrace daily after meets

[P1 \$7] Fababistum (formerly known as Incudal) (F.B.A. Pharmaceuticali) Melbin drolun maphthalene 1 S disulphonate (qv) available as tableta of 50 mg

[B] Falapen (Duncan Flockhart) Benzylpenicilin, available as slow release tablets of 500 000 units Doze one tablet every 12 hours

Februlix (Boots) Elixir containing in each fluid drachm paracetamol (q v) 120 mg

[F1 548] Fentazin (Allen & Hanburys) Perphenazune (q v) svulable as Tablets of 2 mg 4 mg and 8 mg and as an Injection in ampoules of 1 ml each containing 5 mg

Feravol Syrup (Carlion Laboratories) Contains in each fluid drachin ferrous sulphate 3 grains, angeurne hydrochloride 0 4 mg riboflavine 1 0 mg secorbic acid 9 0 mg, and liquid glucose 20 grains Feravol Tablets (Carlion Laboratoriet) Dach contains ferrous sulphate

Feravol Tablets (Carlton Laboratorie) Each contains ferrous sulphate 3 grains aneurine hydrochloride 04 mg ribotlavine 10 mg and ascorbic scid 9-0 mg with a trace of copper

Ferrodic Tabless (Allen & Hanburys) Each contains ferrous iron (as car bonate) 50 mg ind ascort c as d 12 5 mg For the trainant of hypochronus examines including nutritional anoma and post gastrectomy iron deficiency Date 1 or 2 tabless to be sucked or thewed three daily after meals

Ferroids (Ruker) Tabless each containing iron armnosites (iron chelated with a complex of amino-acids) 350 mg (equ valent to 35 mg Fe) and aneurine hydrochloride 1 mg For the treatment of iron deficiency anzinas Dois 1 or 2 tablets 3 or 4 times daily

Ferrous Fumarate C.H.O.Fe=1699

Ferrous fumarate is administered by mouth for the prophylans and treatment of iron-deficiency anzemas. It is well sborbed and is said to be less likely to cause gastro intestinal disturbances than other orally administered iron compounds, *Usual doss* 200 to 400 mg (equivalent to about 65 to 130 mg of Fe) three daily

Proprietary Name FERSAM CFIRON (U.S.A.), TOLERON (U.S.A.) It is an ingredient of FERIMEMIN CAPSULES.

Fersamal (Glazo) Ferrous furnante (q v) available as a Syrup containing in each tespoonful (35 mil) 100 mg and as Tablets of '00 mg Unual dose 1 or 2 tablets or 2 to 4 tespoonful of syrup thrace dail) (Mod ficat on of entry in Vol 1 2 tablets)

Fertilol Cream (Vitamins Ltd) Contains in each g vitamin A 50 000 un ta and vitam n E 50 units in a bland basa containing wheat germ oil (New formula replacing that given in Vol I 24th Ada p 343)

Fibrindex (Ortho) Lyonhal sed standardised thron bin (human) for disg nost c use only in an poules each conta mag 50 N 1 II un te-for definition of N 1 II insteev Vol 1 24th Edin p. 983 Filon (West Pharmaceutcal Co) Tablets each containing 50 mg of phen metraane theolate (q, v) and 20 mg of phenbutrazate hydrokhonde [2 (3) metryl) 2 phenyhmorpholnolythigh in phenyhurytate hydrochlonde C₃H₂O₂N HCl=4019] For the treatment of obes ty Dose one tablet three dialy V_{15} to 1 hour before meals

Flagyl (May & Baker) Metronulazole (q v) available as tablets of 200 mg [P1 37] Flavelix (Fletcher Fletcher Σ Co) Linctus containing in each tea

spoonful (4 ml) mepyramine maleate 12 5 mg epidemne ity drochloride 10 mg ammonium chloride 90 mg and sodium e trate 40 mg An anthistamine and antispasmodie expectorant. Doie 2 tempoonfull 3 or 4 tumes daily

Fletcher's Disposable Unit Enema (Fletcher Fletcher & Co) An aqueous solution of sodium and phosphate 10% and sodium phosphate 3% in a plastic bag containing 41, fl or fitted with rectal tube

[Pi \$4B] Flexin (McNetl Laboratories) Zoxazolamine available as tablets of 250 mg

[B] Florinef Acetate Tablets (Squib) Fludrocortisone acetate in tablets of 0 I mg and I mg the higher strength as available to hosp tals only (For old er Floring preparation see Vol I 24th Edn, p 500)

[P1 440] Fluopromazine Hydrochloride Triflupromazine Hydrochlor ide (N.N.D.) 10 (3 Dimethylaminopropy)) 2 trifluoromethylphenothiazine hydrochloride CritHish, SF, HCI=388 9 Fluopromazine hydrochloride has similar uses to chlorpromazine

Fluopromszue hydrochloride has sumilar uses to chlorpromszue hydrochloride (Vol 1, 24th Ean p 386) in the treatment of psychoses and condutions characterised by vortung *Toxe effect* as for chlorpro manne except that justicke and blood dyscreases occur les frequently *Contra matetated* in patients under the miluence of alcohd, barburantes of opsiste. Dare 25 mg three daily by mouth rings to a maintenance dose if necessary of 50 mg three daily by mouth rings to a maintenance dose if necessary of 50 mg three daily by mouth rings to a maintenance dose if necessary of 50 mg three daily by dose turbarboard and hydroxic and the state of the state of the state of the state three states and the state of the state of the state of the state by mouth, for mental disorders 10 to 50 mg three daily, adjuted acording to the response by untransucular nycleion for all conditions 0 2 m 0.25 mg per kg body weight, by angle intravenous nycetom.

Proprietory Names VESTRAL SIGUE (abroad) VESPRIN (U.S.A.)

[P144B] Fluoxy mesterone (N.N.D.) Fluorohydroxy methyltestoster one Fluoximesterone 9a Fluoro 11 β 17 β -dihydroxy 17a methylandrost 4-en 3-one CyrH₂ng/SF-336 5

An anabolic and androgene agent which is about five times as active as methylectosteone If as actions and uses, toxic effects and contra indications are similar to those of other androgens (Vol 1 24th Edn, 973). Doese of fluorynestements of up to 20 mg or even 40 ms, daily have been given for inoperable carcinoms of the breast. *Doir* 2 5 to 10 mg daily

Proprietary Names ULTANDREN HALOTESTEN (U.S.A.)

[P1 543] Flupbenazine Hydrochloride. 10 [3 [4-(2 llydroxyethyl)piperazin 1 yl[props]) 2 trifluoromethylphenothiazine dihydrochloride, C., H₂₀ON₂SF₃ 2HCL-SIO 5 Fluphenazine hydrochloride is a phenothiazine derivative which is said

Fluphenazine hydrochloride is a phenothiazine derivative which is said to have a prolonged tranquillising action to bave virtually no redative effect and to be 10 to 20 times as potent as chlorpromazine Taur effett it is claumed that a de-effects are unlikely in the recommended dosage of

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1 to 2 mg, but larger doess are likely to produce the side effects characteristic of phenothazane denvatives as described under chlopromazine (Vol I, 24th Edn, p. 386). Contra indications as with other phenothazane dervatives, the drug is contra indication phasents with server de opression. Dour, for emotional stress and anxiety I mg daily which may be increased if necessary to 1 mg twice daily or 2 mg daily for patients with relatively server symptoms. Daily does above 2 mg should be given with cauton *Prophistry Name*. Moviers, Pessarin, US 20.4) Productive (US.A)

[8] Flurymal (Schering A G. Berken Pharmetheally London) Pessaties each containing hydrocortisone sodium hemistulphase 15 mg and hextechlorophane 5 mg For the treatment of leucoritives and nosi specific veginitis Adminitration first day, one petsary in the morthing and one in the evening second to fish day, one pessary at beclume

Forane (Pfizer) Benzthaande (q v) available as tablets of 50 mg

Frador (Ildl (John) Hills & Luca) A point containing menthol 0.25% prepared storar 6 7% and benzoin 10% in a spirituous vehicle. For application to mouth ulcers.

[B] Pramycort (Genalosan) Framycetin sulphate 0.5% and hydrocortisone acetate 0.5% in Ear- and Eye-drops in botiles of 5 ml, in Eye Olisitment in tubes of 3.5% in Edition in botiles of 20 ml, and in Olinitment in tubes of 10 g

Framygen (Genatoran) Framycetin sulphate 0.5%, in Creatin in tubes of 15g in Ear- and Eye-drops in bottles of 5 ml and in Eye Ountment in tubes of 5 5 g

Fremantol (Leda) Paroxypropues (p-Hydroxypropuephenner, C,H₁₀O₄ = 150 2) available as Tablets of 250 mg A pituitary genadotrophic hormone nitubitor, for the control for puturary byperatuivity Days inula 2 tablets three duly, maintenance, one tablet three daily Fremantol Okintment contains parographic 12%, for use in disorders of pigmentation

Fulcin (Imperial Chemical Pharmaceuticals) Griscofulvin (q v) available as tablets of 250 mg

Fungizone (Squibb) Amphotencin B (q v) available as a dry powder in vials each containing 50 mg

Furaltadone, Furmethonol 5 Morpholinomethyl 3 (5 nitrofurfurylideneamino)oxazolidin-2-one, C12H12O4N4=324 3

An antibacteral agent active against some staphylococci, most attreptococci, especially Step fractionenee, Boallut antikarai, Brabilar, many strans of Etchericha coli and some species of Cloirndum and Volno It has been used in the treatment of pullemearsy infections, abscesses, cellulits, pyrodermas, septicermas, wound infections, and urnary and intra uterne metections. Towe effect: gestre distress, naues, vomiting, diarticas, skan reactions cosmophila and diplopin, Alcohol should not be given to patients taking furnitadone Contra indicated in pepticu leteand renal or hepatie dysfunction. Doir 250 to 500 mg with food 4 tunes daily, infants and young children, 22 to 550 mg vielt, body-weight daily with food in 4 divided doses

In a leading article an Brit med. J_{*} 11961, 264, an which three papers on furnitatione by MCobe et al., Brynes and Godinauth, and Matsi (Aver Digl J. Med, 1960, 265, 927 962, and 963) are reviewed, it is considered that the general conclusion to be drawn from the findings of these vorkers is that unvisione the an more potential conclusive and less introduceral activity than appears argumentally to have been thought and that there appears do not present indication for the use of furnisations in preference to an appropriate surface.

Proprietory Name ALTAFUR.

Furamide (Boots) Diloxande furests (q v), available as tablets of 500 mg

Furazolidone (USNF) (see also Vol. J. 24th Edn, p. 1188) 3 (5 Nitrofurfurylideneammo)oxazolidin 2-one, C₄H₁O₄N₈=225 2

In addition to its local use in vaginal trachonominis' furnohidone us given by mouth in bacterial entennast and danchoza Tora affecta o far reported after oral administration mellude nausca, vonunce for all enge rankes Dose 100 mg 4 tunes daily, children under 1 years for 16 mg 4 tunes daily, 1 to 5 years 25 to 33 mg 4 tunes daily, 5 years and over 50 mg 4 tunes daily

Storage it should be kept in well closed containers protected from direct sunlight

Proprietory Names FURDROVE TRICOFURON (U.S.A.)

Furoxone (Smith Kline & French) Furazolidone (q v) available as Tablets of 100 mg and as a Suspension containing in each tablespoonful 100 mg with hadin and pectua.

[P1 51] GT 50A (Gentlich) An injection in ampoules of 5 ml, each containing calciferol 500 000 units ancurate 5 mg neorigmane 0.25 mg and carbachol 0.08 mg (Madification of entry in Vol 1 24th Edn p 1396) [P1 51 54B] GT 50B (Gentlich) Of similar composition to GT 50A but contains

[P1 81 846] GT 508 (Grittlet) Of similar composition to GT 50A but contains ensuring 1 mg and progesterone 5 mg in place of aneurine, (Modification of entry in Vol. 1 24th Edn p 1396)

Gastrolav (Armour) Lyophilised chymotrypsin (q v) in capsules of 7 mg for use in diagnostic gastric lavage

[B] Genacort (Gratosan) Hydrocorusone in a non greasy Gream and a greasy Ointment (Hydrocorusone Ointment BP) in two strengths 0.5% and 1%, Louon contains hydrocorusone sectate in three eitengths, 0.2%, 0.5% and 1% in an squeous vehicle (Modification of entry in Vol I 2 24h Edn p 1326)

Genden (Denter Laboratories) Tablets each containing leptazol 100 mg and motime acid 50 mg and Elixic containing in each teaspoonlul the equivalent of one tablet. For the treatment of semile retrogression Dors one tablet or one teaspoonlul of cluxic twice or thrace daily

Genzpiez Capsules (*Parle Daws*) Each contant runn 25 mg cholme diphotopen citre 20 mg rhobavines 5 mg snacoblasma 2 µg vitarna B Sunis vitamin A 5000 unus, ancurne monomitsis 5 mg sacorb e acid 30 mg montanimel 5 mg Taka Dassies 1 gran 6 mora sulphate 30 mg copper ulphate 4 mg mangances sulphate (monohydrate) 4 mg tanta sulphate 2 mg ment. Davi one capsule dally

[P1 54B] Gestanin (Organon) Allylarstrenol (q v) available as tablets of 5 mg For the treatment of dysfunctional uterine bleeding premenstrual tension hab tual and threatened abortion and unpaired fertility

Gevodini (Gastilich) Tablets each containing 4 appropriate and the second state of the

[P1 \$4B] Glucophage (Rona Laboratories) Metformin hydrochloride (q v) available as tablets of 500 mg

Glumorin (F B A Pharmaceuticals) Kallikrein (q v) in Ampoules each containing 10 biological units and Tablets each containing 30 biolog cal units. A vasodilator for use in disorders of the circulatory system

Glyceryl Triacetate (U.S.N.F. 1955) (see also Vol I 24th Edn p 1372) Triacetin. CaHirOa=218 2

Glyceryl triacetate has been reported to have fungistatic properties and it has been applied topically usually as a 25% solution or cream, in the treatment of certain superficial mycotic infections. According to

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Knight (J Soc connet Chem 1959, 10, 307) glyceryl tracetate acts by providing a constant level of mildly fungistatic acetic acid, the acetic acid being liberated after enzymatic hydrolysis of the ester bond by selerases from lungi serum and skin

Proprietary Name GLYPED

Glycinal (Medo Chemical) Tablets each containing dihydroxyaluminium anninaectate 750 mg magnesium tra licate 250 mg and peppermint oil qs A long acting antacid Date 1 or 2 tablets to be sucked at frequent intervals. (blodification of entry in Vol 1, 24th Edn p 864)

[P1] Glycodine (Dincen Flockhart) A addative cough muture containing in each fluid drachm pholocdine 0 123 grain solution of 1000 7 18 minims, syrup of wild cherry 7 18 minims and glycein 44 68 minima. Doie 1 to 2 tesspoonfula 3 or 4 times duly

Glypod (Imperial Chanacal Pharmaceutical) Glycetyl suscetate (q v)available as a Cream containing 25% in an emollient basis For the prevention and treatment of superficial dermatophytoses especially athlete s foot and dhohe teth

[9] still Gresuton ($B \Rightarrow A$ Pharmacentical) Capsules each containing annurne hydrochlonde 3 3 mg yeast extract 33 mg cyanocobalami μ_{g} vitamin A palmutic 2500 unita vitamin E 15 mg kallikrein ($q \lor 1$ 5 biological units res erpice 0.033 mg and theophylline 15 mg For genatire disorders. *Done* 1 or 2 espiales daily

Griscolulvin Curing Factor 7 Chloro-4 6 di methorycoumeran 3 one 2 spiro 1' (2 methory 6 methylcyclohex 2-en-4 one), C₁₁H₁₁O₄Cl= 352 8

An antibotic for the systemic treatment of range orm and farus infections Treatment of range orm of the scale pholud late itsels 4 weeks, but 6 months is usual for range orm of the nails, the duration of the treatment depends on the type of infection and the tume required for the replacement of infected tassas Grassolulum may potentiate the effect of klobel Jane given are outward which, saw and transien, but Dore minul, 2g daily for severe cases, maintenance 1 g daily children, 20 mg per kg body-weight daily

Proprietary Name FULCIN, GRISOVEN FULVICIN (U.S.A) GRIPULVIN (U.S.A), LANGREL (Dan.)

Grisovin (Glazs) Gracofulvin (see above), available as tablets of 250 mg

Guauphenesin (see also Vol I, 24th Edn under Respenyl p 506) Guaucol Giycerol Ether Guaucyl Glyceryl Ether 3 (a Methoxyphenoxypropane 1 2 doi.0, Cu₃H₁₂O₄=198 2

An expectorant which liquefies mucus It is said to cause no gastric irritation and to be non toxic even in very large doses. Doie 100 mg every 2 hours

Proprietary Names RESPENTI (Vol. I 24th Edn p 506) REDREANIN (Ger), it is an ingredient of Distoirt, Permonenae Expectosant, Robitussin, and STRUSON

Guanethidine Sulphate SU 5864 N-(2 Perhydroazocin-1' ylethyl)guanidme sulphate (CinHanNd) HaSO4=494 7

An anthypertensive drug which acts by inhibiting the perpheral sympathetic nervous system it is satisfied for all types of hypertension and can be given in conjunction with reserver it is administered by mouth as a single daiy does, and does up to 150 mg have been given Tone effects durithes and muscular pain and weakness, overdoesge produces orthoustic collapse, nauses, massi stuffices, and burring of vision may also occur Contra indicated in pheochromocytoma or recent myocardial or cerebral infarction Care is necessary in treating patients with renal failure. Dose muital 10 mg daily for one week increasing by 10 mg daily every week to an average maintenance dose of 30 to 60 mg daily

For s comparison of bretyl um and guanethidine see Lancet, 1/1961 91 Proprietary Name ISMELIN

Halopenium Chloride p Bromobenzy! 3-(4-chloro 2 sopropyl m tolyloxy)propyldimethylammonium chloride CisHasONBrCla=475 3

An antibactenal and antifungal agent. It is used topically in the treat ment of infections of the mouth and throat, Dose 5 mg

Proprietary Name it is an ingredient of TRILLETS

Harker's Disposable Enema (Harker Stagg) A mixture of sodium and phosphate and sodium phosphate an a plastic bag of 120-ml capacity fitted with a catheter When the bag s folled with water and the contents dissolved the solution contains acdium as d phosphate 18% and sodium phosphate 8%

Hexadimethrine Bromide NNN N Teiramethylinexamethylenediamine-trunchylene bromide polymer $(C_{14}H_{16}N_{3}Br_{3})_{n}$ where n may be 30 to 45

A hepara antagonat admanistered by slow intravenous sujection in concentrations of 1 mg in 1 mi of Sodum Cholned injection at 5°₂ Destroise Injection Tone effects trans ent hypotension Contra and cations the drug must be given with care to patents with impaired cardiovascular or respiratory function Doie 1 mg per 100 units of heparan by intravenous sujection repeated in meessary

Proprietary Name FOLYBRENE.

Hexopal (Bayer Frod) inosatol hexaniconnate, a misble as tablets of 200 mg For the treatment of Raymaud s duesse, scrocyanosis, and childkins Do e minual 2 tablets thrace daily increased if necessary up to 16 to 20 tablets daily

carry carry channes (inperial Conversed Phormanent schi) Chierbrauchne wurkhte se Hichardschinken (set vol 1 24th Dala, po 1000) up powier form nod as proji Levenges such containing 5 me with bentocarri 2 mg, and as chierbraic disc gluconates ($q \cdot y$) an the following preparations Alatilespile Creams on taming 1% an a water particule bas 6 Concentrative containing 5, with surfacesare segret in a red-coloured spurous solutions Chierbraic for containing 25th ($Q = 10^{-1}$ for the following streparation (Licensia Scalution containing 25th (Data (Licensig of the entores muder Hindraw in Vol 1 24th Edn 1/25) screen (d there product waves formely preparation that bu ducated)

Histamal (Richter) Assal nebul ser containing mepyramine malente 0.5% ephedrine hydrochloride 0.75% and chlorbutol 0.5% in isotonic solution. For local splication in hay fever and colds

[P1 448] Hostacain Special (Heckul IIori ch) A local anesthetic n dental cartridges of 1 8 ml containing in each ml butylamino-V-(6-chloro-2-methyl herwijacetamide (hostacain) phosphate 20 mg proca ne phosphate 10 mg adrenaline 0 02 mg and methyl hydroxybenzostel 0 mg Dote ior infiltration angethesa 0 5 to 1 0 ml for block anesthetics, 1 5 to 1 8 ml

[P1 84B] Hostacam with Noradrenaline (Hoechi Horlicki) A local snesthetic in dental cartridges of 1.8 ml containing the same anarthetics as Hostacam Special (see above) but with noradrenaline 0.04 mg in each ml, instead of adrenaline.

[B] Humatin (Parke Data) Paromonycan sulphate available as capsules each containing the equivalent of 250 mg of paromomycan $(q \vee)$

Hypolin (Perints / Anterine C3 A) are presententiation (q +) Hypolin (Perints / Anterine C3 A) are green dan infert an fluid containing chloroxylenol 2-benzyl-t-chlorophenol (CayligOCI=2187) sodiari = phenylpheniae (CayligOCI=1923) chlorocersol, and odu um perintehloropheniae (CoOCI_N=2383) with an anionic emult for in alcohol available

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as Hycolin Concentrate, containing 16% of the mixed phenols, to be diluted 1 in 160 for general ward and theatre use, for the storage of instruments, thermometers and sutures, for the disinfection of baths and sinks and for preoperative skin preparation, as Hy colin Standard, containing 12% of the mixed phenols for disinfecting blankets and infected linen and for routine disinfection and cleaning of kitchens and bathrooms in strengths from 1 in 200 to 1 in 80. and as Hycolin Antibacterial Cream, containing hycolin 2 5%, equivalent to 0.4°_{O} of the mixed phenols, in a vanishing-cream basis, for use as a hand cream for nursing and medical staff as a nassi bactericide, as a dressing for the umbilical stump of newborn infants, and as an obstetric cream.

Hydratene Tablets (Coates & Cooper) Each contains the couvalent of chloral hydrate 4 grains and paracetamol (q v) 6 grains in the form of a complex For insomnia in the presence of pain Doie 1 or 2 tablets

Hydrenox (Boots) Hydroflumethuszide (q v) available as tablets of 50 mg . and, as Hydrenox-M tablets of 25 mg

Hydril (Leurs & Burrow) Hydrochlorothiande (q v), available as tablets of 25 mg (Hydril-25) and of 50 mg (Hydril-50)

Hydril B (Lewis & Burrows) Bendrofluszule (q v), svalable as tablets of 2.5 mg (Hydril B 2.5) and of 5 mg (Hydril B-5)

Hydril F (Leuis & Burrows) H; droflumethazade (q v), available as tablets of 25 mg (Hydril-F-25) and of 50 mg (Hydril F-50)

Hydrochlorothiazide Chlorhydrothiazide, SU 5879 6 Chloro-3,4-dihydro-7-sulphamoylbenzo-1.2.4 thusdiazine 1.1-dioxide, C.H.O.N.S.Cl =297 8

Hydrochlorothiazide has similar actions and uses to chlorothiazide (p 198), but it may be effective for patients in whom chlorothiazide is ineffective or produces side effects. It is about 10 times more potent than chlorothiszide, the maximum effect is attained after a few hours and a residual effect may persist after 12 hours Toxic effects and contra indisations as for Chlorothiazide (p 198) Doie, daily in one or two doses in the morning initial, 25 to 200 mg, maintenance, 25 to 100 mg

Storage it should be stored protected from light

Proprietary Names DIRESTA ESIDEX HYDRIL HYDROSALURIC HYDRO-THIDS, DICHLOTRIDS (USA) HYDRODIURIL (USA) ORTIC (USA) it is an ingredient of ESIDREX K, HYDROSALURIC-K, SALUPRES SEEPASIL-ESIDRER, SERPASIL-ESIDRER K, and TENSIVAL.

(B) Hydrocortamate Hydrochloride (NN.D) Ethamicort; Hydrocortisone Diethylaminoacetate Hydrochloride 21-Diethylaninoacetory-118 17a-dihydroxypreen-4-ene-3.20-dione hydrochloride, Calli, O.N. HC1=512 1

A glucocorticoid for topical application in the treatment of dermatoses It is used similarly to hydrocortisone but it is said to be twice as potentsee Vol I, 24th Edn, p 481. Proprietary Names MAGNACONT (U.S.A), it is an ingredient of CHYMAR

OINTMENT

[8] Hydrocortistab Soluble (Boots) Hydrocortisone sodium succinate as dry powder in vials each containing the equivalent of 100 mg of hydrocortisone, supplied with ampoules of sterils water for intravenous injection (for other Hydrocortuitab preparations see Vol. I, 24th Edn, pp 486 and 490)

[Fi B] Hydrocortisyl Skin Spray (Rousel) Contains hydrocortisone 0 5% (For other Hisdrocortus) preparations see Vol. 1, 24th Edn pp 486 and 490)

Hydroflumethiazide. Trifluoromethylhydrothiazide. 3.4-Dihydro-7-sulphamoyl-6-trifluoromethylbenzo-1,2,4-thiadiazine 1,1-dioxide, C,H,O,N,S,F,=331 3

Hydroflumethiazide has similar actions and uses to chlorothiazide (p 198) but the excretion of potassium caused by hydroflumethiazide is said to be less than with chlorothiazide. It is about 10 times as potent as chlorothiazide. Toxic effects and contra inducations as for Chlorothia zide (p. 198). Doise initial, 100 to 200 mg daily in one or two doess in the roothing, maintenance 50 to 100 mg daily or an alternate day.

the roorning, maintenance 50 to 100 mg daily or on alternate days Propriatory Names DI ADEMIL HYDRENOX, HIDRENOX M HYDRIF-NACLEX RONTYL (Day), SALURON (U.S A) at is an ingredient of DI ADEMIL K and RAUTRAZ.

[B] Hydromycn-D (Boat) Predmaslone 0 5% and neomy un sulphate 0 5% in Ear/Eye Drops in bottles of 3 ml, Ear/Eye Olintment in tubes of 3 g Dotion in bottles of 15 ml and Olintment in tubes of 5 g and 15 g For in flammatory condutions earber with infection or to prevent secondary infection. (Ruse replace the Hydromycni preparational described in Vol. 1 24h Edu, p 491)

HydroSaluric (Merch Sharp & Dohme) Hydrochlorothiazide (q v) available as tablets of 25 mg and 50 mg

HydroSaluric-K (Merch Sherp & Dohme) Tablets each containing hydrochlorothiazide (q v) 25 mg and potassium chloride 572 mg

Hydrothide (Medo-Chemicals) Hydrochlorothiazide (q v) available as tablets of 25 mg

Hydrox chloroquine Sulphate (BP Add.) Hydroxychloroquin Sulphate 7 Chloro-4-[4-(N ethyl N 2 hydroxycthylamino)methylbutyl aminolquinoline sulphate, C₁₀H₄ON₂CL H₃SO₄=434 0

An antumalarial drug with a marked effect on the lesions of discoid lupus erythematosus. It may also prove of value in the treatment of rbeumatoid arthritis and has been used in the treatment of giardiasis For the treatment of malana an initial dose of 600 mg is followed 6 to 8 bours later by a dose of 400 mg and a further 400 mg on each of two successive days To eradicate infection by Plasmodium falciparum and to terminate an acute attack by P estar, a single dose of 800 mg has been used Weekly doses of 400 mg prevent recurrent attacks of P unuar For discoid hipus crythematosus the initial daily dose recommended is 800 mg to 1200 mg which is reduced after acveral weeks either gradually or abruptly depending on the response of the patient. The dosage given for this condition ranges from 400 to 2000 mg daily. In the treatment of theumatoid arthmus the initial daily dose is 800 to 1200 mg which may be reduced to 400 mg daily after the remission of symptoms For giardiasts, doses of 200 mg thrice daily for 5 days havo been used

Taxe effects, which may be avoided by decreasing the dose, may include gattor intestinal disturbances, and, less frequently, demainting, transitory giddiness, headsches, lassitude, and mervousness. Vausi disturbances have occasionally been reported Contra underated in hepaic discase or if skin reactions occur. The drug should not be given to patients with psontase or a history of piornass.

Dose see above

Storage it should be protected from light Proprietary Name PLAQUENIL

(The above entry replace the entry in Vol 1, 24th Edn. p. 1170) (The above entry replace the entry in Vol 1, 24th Edn. p. 1170) (F1 44B) Hydroxyprogesterono Caproate (NJN D) 17a Hexanoyloxypregn-4-enc 3,20-dione, C. gr-H24 6

A projectogen with similar uses to progesterone (Vol 1, 24th Fdn, p 970) but with a longer duration of action Toxic effects large douts occasionally exacerbate existing asthma, epdepsy and migrane Dois by intramuscular injection as a single dose, 125 to 250 mg

Propretary Name: PRIMOLUT-DEFOT (see p 277), DELALUTIN (US.A) It is an ingredient of PRIMOSISTON

Hygroton (Gergy) Chlorthalidone (q v), available as tablets of 100 mg

Hypaque 85% (Bayer Fred) Sodnum dustrizente 23 13% and the N-methylglucamme salt of dustrizence and 56 67%, in squeeze solution in ampoules of 20 ml For argocardiography and pultaments a steragoraphy Door 30 ml, intrarenously, children 1 to 2 ml per kg body-weight (See also Vol J 74th kdn, p 802)

Hypertensin-Giba (Che). A polypepide containing the following annoacids appragne, argunne, values, prosens, hustidne, prolute and phenylalaune, in 2 ml ampoules containing 05 mg of freeze dired powder. For the treatment of severe states de shock or collapse Date is for continuous intravenous infusion in a concentration of 1 µg per mi at an inside late of 1 ml per monute which may be adjusted if discessary to manual the blood pressure

[B] Icipen V (Imperial Chemical Pharmaceuticals) PhenoSymethylpenicillin, svailable as a Syrup (supplied as granules for reconstrution with water before use) containing in each tesspoonful (5 ml) 150 mg (as the poissium sail) and as Tableta of 300 mg (is the poissium sail)

Hidar (Roche) Azapetane phosphate, available as tablets of 25 mg

[A] Hosono (Luky) Erythromycen estolate, available as Pubrules (capuler) at 125 mg and 230 mg and as a Suspension (tupplied as granules for reconstitution with water before use) containing in cash tastponthil (5 ml) 125 mg For infections due to organisms sensitive to crythromytan Dois 230 mg every 6 hours, children, file to estycondulus of suspension every 6 hours

[1] 148] Impramme Hydrochloride, N-(y-Dimethylaminopropyl)minodibenzyl Hydrochloride 1-(3-Dimethylaminopropyl)-4,5-dihydro-2,3-6,7-dibenz-1H azepine hydrochloride, C₃H₄,N₉,HCl=316 9

An antidepressant drug chuchy used in the treatment of endogenous and anvolutional depressive states it is given by mouth or by inframucular injection. Tone effects include dryness of the mouth, inchysardia, blurred vision, sweating, and cosmophila, and usually disappert as treatment is continued Contra indicated in cpilepsy and schuzophrenna. Dose by mouth, in divide doses initial, first and second day, 100 mg, raing by 50 mg daily to 250 mg daily, and this dose is continued until there is clinical improvement, maintenance, 50 to 150 mg daily

Proprietary Name TOFRANIL.

[B] Inapasade (Smith & Nephree) Granules processed with fat in packets each containing sodium annuosalicyliste 6 g and isomazid 150 rng For the treatment of tuberculosis. Doir the contents of one packet twice daily

Inproquone, 2,5-Di(ethylenennino)-3,6 dipropoxy-p-benzoquinone, C1.1H22O4N2=306 4

A cytostatic agent used for the treatment of chronic leukamia, Hodgkins disease, and some sectorms and carcinomis it is at similarities of the mouth and by injection, intravenously or directly into the turnour Tane effect gastin-intestinal disturbance, rables, skin miritation, and thrombocytopenia Contra-indications improquone should not be given is adolescents or at the same time as radioterapy. Done 5 mg thrice daily with food, 5 mg rising to 20 mg daily if necessary by intravenous injection

[P3] Intralgin (Roker). An application containing benzocaine 1 86%, salicylamide 4 65%, and isopropyl alcohol 60% Also Gel containing benzocaine 2% and salicylamide 5%, for strains, aprenns, and unbroken chilplains.

[P1 81 84A] Intraval Sodium Suppositories (May & Boker), Thiopentone sodium in suppositories of 125 mg, 250 mg, 500 mg, and 750 mg (See also Vol 1, 24th Edn, p 260] [B] Iproniazid Phosphate (N.N.D.) N-Isonicotino) I-N'-isopropylhydrazine phosphate, C₁H₁₀ON₂, H₂PO₄=277 2.

Ipromazid phosphare has been used for us tuberculostatic action (see Ipromazid, Vol. 1, 24th Edu. p. 1207), but owing to the frequent side-flicts, it is now rarely used except for the treatment of a ginga pectors and moderate or severe depressive states which have failed to repond to other treatment. Ipromazid optentiates the action of slabbl, barbiturates, occane, ether, pethidne, phenylephnne, and procame. Totave differit these are frequent and samilar to those caused by us-

Toxic effects: these are frequent and similar to those caused by usnazid (Vol. 1, 24th Edn, p. 1202) but also include reversible psychone personality changes, postural hypotension, neurological side-effects such as vertige and muscular weakness, perpheral cedema, dypanea, gastro-intestinal disturbance, importence, and mild hypochromic anama. The note senous store effects, although probably of low incidence, are jaundice and fulfimisting hepsitus. *Contra-milicitants:* liver disease, impared renal function, and possibly schurophrenia and epilepsy.

Dote, duly as a single dose for non-tuberculous conditions. initial, 100 to 150 mg, continued until there is clinical improvement, maintenance, 50 to 100 mg.

Proprietary Name: MARSILID.

Ismelin (Ciba) Guanethidine sulphate (q v), available as tablets of 10 mg. and 25 mg

Isoaminile Citrate, Y-Dimethylamino-a-isopropyl-a-phenylvaleronitrile citrate, CisHeiNi, CiHeO;=436 5.

An antitussive agent which is said to have no side-effects. Usual dois 40 mg, 3 to 5 times daily,

Proprietary Name: DIMYRIL

[P1 84B] Isocarboxazid. Ro 5-0831. N-Benzyl-N'-S-methyliso-oxazol-3-ylcarbonylhydrazine, C1, H1, O4N,=231-3.

A mono-anime oxidar inhibitor used in the treatment of depression and anguna pectons. It potentiates the action of alcoho, bushburrares, cocame, ether, pethidine, phenylephrme, and procame. Tene effects: as for I promazid Photophate (see above) but less frequent and seldom severe. Contra-andicated in real dysfunction. Dore, dairy as a single doze, initial, 30 mg, continued until there is claucal improvement; maintenance, 10 to 20 mg Mar. dairy doss 30 mg.

Proprietary Name. MARFLAN.

Isopropamide Iodide (N.N.D.). R-79, SKF-4740. (3-Carbamoj-3,3-diphens)propyl)methylds-isopropylaminonium iodide, C₁₁, 10N, 1 =480 4.

An anticholinergic compound used in the management of peptic uler and hypermothity and hyperacdity of the gastro-internal inter. Tame ffects: drycase if the mouth, blurring of the vision, difficulty of unnation, and constipation. Contra-indicated in glaucoma, prostate hypertrophy, and pylone or duodenal obstruction. Usagi date: 5 mg. every 12 hours.

Proprietary Names TYRIMIDS, DARBID (U.S.A), PRIAMIDS (Fr. and Bidg), It is an ingredient of Eskonnan and STELARD. [9] \$7] Isothupendyl Hydrochlorade, D 201 10 (2 Dimethylammo propyl) 9 thia-4 10-diaza anthraceme hydrochloride C1eH1:N5 HCl= 321 9

An anthantamme with luttle sedates effect Dosso of up to 64 mg daily have been given, but Alexander and Harvey (Scot md 2) 1960, 3 183 suggest that a daily dose of 45 to 60 mg should not be exceeded in ambulant painets because of the greater muchence of sude effects at higher dosage Dose 4 to 8 mg 3 to 4 times daily by mouth 10 mg by intramuscular or thow muterenous.

Proprietary Names NILERCEX ANDANTOL (abroad) THESUBISTIN (U.S.A) it is an ingredient of THORPAX STRUP

Isozsuprine Hydrochloride. 5029 Cas 40 Phenoxyisopropyl nor suprifer 1 p Hydroxyhenyl 2 (1 roethyl 2 phenoxyishylamino)propan 1-ol hydrochloride C₁₄H₃₇O₁N HCl \approx 317 9

A vasodiator which is stated to have a direct action on arternal muscle and a slight adrenolytic effect. Jone dfiert is in claimed to be free from s de-fiects an the usual dosage Transment palpitation and dizzuness may occur Uraud dose initial by mouth 10 to 20 mg 3 to 4 times daily reduced to a maintenance dose as required by intramuscular injection 5 to 10 mg twice or thince daily

Proprietary Names DILAVASE DUVADILAN (abroad) and VASODILAN (U.S.A)

[P1 44D B] Yeax (Boots). A parture containing in each fluid ounce neomycan subpate 300 mg subplaguandine 4 g and 1 ght kool n 6 g For the treat ment of distributes and beaulity dysentery Does in ta 2 kiblerpoonfuls then one tablespoond 4 unres daily children, initial one traspoonful to one tablespoonful according to see then 3/4 no 2 teaspoonfuls 4 turnet daily

Iversal (FBA Pharmaceuticale) Ambazone (qv) svalable as troches each containing 10 mg

Jadit (*Hael it Hoticki*) 4-Chloro 2 hydroxybenhoubjanuć, svaluble n no Olainene contanna (10³), with sal cj e and 2³, and n Pevder sal Solution each contanna (10³, with sal cj e and 1⁴). For hungous infections of the kun expecially shifter foot. [3] Jadit H Olnizons and Solution each contan in add tom hydrocortisone 0 5%. For hungous infections with inflammation

Jundvite (Boai) A syrup containing in each fluid ounce vitamin A 14,000 un to ancurine hydrochloride 28 mg r bollavine 34 mg nicounamide 28 4 mg ascoto c ac d 85 2 mg and existered 1400 un ta A vitarina supplement for growing children, for nurs ng and expectant mothers and for convelocent Date 2 teappointigh stime child whydright β_1 to 2 teappointigh store daily

Jurvel (Vicamor Lie) Tablets each containing vitamin A 5009 units cal circled 300 units answires hybricabloride 25 mg profiles are 25 mg prodame hydrochlor de 25 mg in containin de 50 mg tocopheryl actate [00 mg and ascobe acd 50 mg Eitikir containing the equivalent of one tablet in each 2 fluid directims A detary supplement to pre ant nutritional defects putricularly no ld age

Kallikrein, Calherein,

A hypotentive substance isolated from the pancreas and urane of mammals it has been used as a vasiod isotro for penpheral vascular and coronary artery disease. It may be administered by mouth or by intra muscular injuscicion. Toxic effects at any cause flushing discusses and syncope. There are several proprietary preparations of kallikrein and the manufacturers literature through the consult of or information on doasge

Proprietary Name: GLUMORIN PADUTIN (Vol. I 24th Edn p 994) it is an ingredient of DEPOT GLUMORIN and GRESSITION

Kanamycin. An antibiotic produced by strains of Streptoryces kanamyceticus, C14HesNaO11=484 5

Kanamycin has similar actions to neomy cin (Vol I 24th Edn, p 1419) and is used in the treatment of infections which have failed to respond to other antibiotics. It is usually given by intramuscular injection and because it is not easily absorbed from the gastro-intestinal tract, it should not be riven orally except for gastro-intestinal infections. It can be used by intraperitoneal instillation as a 2 5% aqueous solution, of as a 0 25% solution to irrigate body causties and abscesses. Intrathecal injections should probably not exceed 5 ml of a 0 25% solution For the inhalation treatment of respiratory infection at may be administered as an aerosol containing 250 mg in 1 ml of water diluted with 3 ml of normal saline.

Toxic effects oral administration causes few side-effects but parenteral therapy with kanamycin can cause damage to the auditory nerve (some turnes preceded by tinnitus and dizziness) and cosinophilia, sensitisation skin rash, fever, headache, and parasihesia occasionally occur Contra indications kanamycin should be used with care and at a lower dosage in patients with renal impairment

Dose by intramuscular injection not more than 15 mg per kg body weight daily in divided doses for 5 days, by slow intravenous injection as a 0 25% solution 15 to 30 mg per kg body weight daily in divided doses pre-operatively by mouth 1 g bourly for 5 doses and 1 g every 6 hours for 36 to 72 hours by mouth for Singella and Salmonella m fections 15 to 30 mg per kg body weight daily in divided doses, by mouth for amorbiasis 30 to 150 mg per kg body weight daily in divided doses for 10 days

Proprietary Names (as the sulphase) KANNASYN KANYCINE (Fr) KANACINE (Belg) KANTREX (USA)

Kannasyn (Bayer Prod) hansmycin sulphate powder in vials of 143 g equivalent to 1 g of kanamycin (q v) To be d isolved in Water for Injection for intramuscular use

[PI \$4B] Kethamed (Medo-Chemicals) Pemoline (c v) available as tablets of 20 mg

Konakion (Roche) Phytomenadione (q v), now size svalable in Ampoules of 0 5 mi each containing 1 mg (See also Vol 1 Zith Edn, p 875)

Levoral (Colmuc) Described as a 65% concentrate of lavulose for use as a sweetening and energising egent in all conditions where sucrose is conus indicated Lavosan lavulose in 20°, and 40°, solution in 10 ml ampoules for intravenous injection.

[P1] Lævotonlne (Calmic) An eliur contsunung in each 100 ml lævilær 41 g sodium sad phosphäte 500 mg caffene 500 mg argel ning nurste 45 mg and mangaises chloride 20 mg. For the treatment of neurathenas and debility Dose 1 or 2 test poonfuls thrace daily before meals.

Lapudrine Hydrochloride (Impenal Chemical Pharmacruticals) Chlorproguanil hydrochloride (q v) available as tablets of 20 mg

[PI \$4B] Largactil (May & Baker) Chlorpromanne hydrochloride now also

[P] 443) Largaciii (11dy & Dawr) Chioppennine (urochorne war aslable as Tablets of 50 mg (are Vol I Jah Edn p 397) [B] Ledercort (Lederle) Transcinologe (qv) available as Tablets of 2 mg and 4 mg Ledercort Accetonide Cream and Olatenest each conjun tran cinclone acctonide (q v) 0 10 and are svalable in tubes of 5 g and 15 g

[PI \$4B] Lederkyn Acetyl Pædlatrie Suspension (Lederle) Contains in tacl teaspoonful (5 ml) the equivalent of 250 mg of sulphannethoxypyridatins (q v) as the N⁴ scetyl derivative (See also Vol 1 24th Ldn, p. 1260)

[B] Ledermycin (Lederle) Den ethylchloreetracycline (q v) availat le as Capsules of 150 mg as Drops conta min 60 mg in each md as a Syrup containing 75 mg in each teaspoonful (5 md)

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Lonium (Bayer Frad) A cream with a non alkaline basis, containing bithionol 1% and selenium sulphide 2 5% For dandruff and seborrhoue dermanus of the scalp

[91 \$40] Leviton (British Schering) Overs (oval tablets) each containing methyl pentymol carbamate 150 mg and dexamphetamine aulphate 5 mg. For mental and emotional disturbances where annety is associated with depression Dose one over siter breakfast and one after hunch

[P1 \$4B] Librium (Rocke) Chlordizzepoxide hydrochloride (q v) available as capsules of 5 mg and 10 mg

Lignax Ginimeni (Willows Frances) Contains ignocaine hydrochloride 2% zine oxide 10%, Peru balasm 5%, dry extract of hamamelis 1% and men thol 0 1%. For hermorrhouts

Lignax Suppositories (Willows France) Each contains lignocune hydro chloride 1 grain zinc oxide 3 grains, Peru balsam I grain bismuth subgallate 2 grains dry extract of hamamelis 1 grain and menthal ¹/₁₀ grain For hæmorrhoids

Lignostabs (Bosch). Lignocame hydrochloride in a 2% solution, P1 4401 Lignostab-A Lignostab-M (2000) (P1 448) Li

Linosclerin Capsules (Um Pharma) Each contains ethyl hinoleste 400 mg, pyridaine hydrochloride 3 mg and tocopheryl sectate 2 mg For the treat ment of stherosclerous and hypercholesterolemus Dots initial, 2 capsules three daily for 20-30 days imantenance, 2 to 3 capsules daily

Lipostabil (Nicholas) Capsules each containing a selected fraction of soys bean phosphatides (providing a and B leachins) 200 mg and private bydrochoride 15 mg For the prevention and restment of circuitatry disorders Dour 4 capsules daily with meals (Modification of entry in Vol 1, 24th Edn p. 1134)

Lipotriad (Lenes) Capsula containing, in such dose of three, choine bistartise 700 may, insuto 314 mg, methoanes 44 mg, crancooklaum 3 µg, sasaune bydochlands f mg, inbolevne 1 mg, incotanaude 10 mg, pyradeane bydory NyCet 1 mg, stall g mg of despatishenoi [handread] bydrarda bydray NyCet 1 mg, stall g mg of despatishenoi [handread] bydrarda bydray NyCet 1 mg, stall g mg of despatishenoi [handread] bydray NyCet 1 mg, stall g mg of despatishenoi [handread] bydray NyCet 1 mg, stall g mg/stall bydraw 1 mg of the distribution of semile maxiliar degeneration, arterioscientor retunopathy and distribution retunopathy Duo 3 copsules three data, perichally after mesh

Lobak (Bayer Prod.) Tablets each containing 450 mg of paracetamol (q v) and 100 mg of chlormezanone (chlormetharanone 2 p-chlorophenylpethydro-3 methyl 1,3 thuzni-4-one 1,1-douide, $C_{\rm H}H_{\rm H}O_{\rm S}VSCI=273$ 7) For backache Doie 1 or 2 tablets thnce daily

(P1] Lobidan (Um Pharma) Tablets each containing folduine subplate 2 mg magnetum carbonate 125 mg and calcium phosphate 180 mg. For use as a smoking deterent, Date 3 of 4 tablets daily with mesis for 3 to 5 days then 2 tablets daily for 3 to 4 days.

Lormudase (Berger) An ultra fine homogeneous powder for inhalation containing chymotrypsin [q \times) 00 f Anson unit and isoprenaline aufphate 0 I mg in a cartridge for dispersal in a Lormulizer (a specially designed pocket disperser) For use in chronic bronchtum with difficult expectorston

Lormupren (Breger) Stoprenalme suffates 0 I mg in a fine homogeneous powder for inhalaton contained in a carindge for dispersal in a Lomulizer (& specially designed pocket disperser) For use in chronic bronchuts and attima.

Lorezano No 3 (Imperial Chemical Pharmaceuticali) Cream shampoo, containing gamma benzene bezachlonide 2% in a detergent basis. For the treatment of head lice intestations (for other Lorezans preparations see Vol. 1, 24th Eds. p. 559) Lyovac Saluric (Merck Sharp & Dohme) Chlorothazide sodium (q v) as a sterile powder, in viak combaning the equivalent of 500 mg, of chloro thazade, to be dissolved in Wattr (for instructions use.

[Pi 44B] Lysinex (Lloyd Hamol) Tablets each containing Llysine monohydrochloride 300 mg and stanolone (q v) 10 mg For the treatment of protendeficiency conditions Doie one tablet 3 or 4 times daily

Madecassol (Leda) Assetutoside (the active principle of Centella anatuc) available in Ampoules of 25 mg for subcutaneous or intramuscular injection, as an Ointment containing 0.5% with tryptin 0.25%, and as a Powder containing 2% with tryptin 1%. To excelent cicatrisation and grafting

[F1 54B] Madrabon (Roche) Sulphaduncthoxine (q v), available as Tablets of 500 mg, as Drops for children containing 200 mg in each ml (10 mg per drop) and as Syrup containing 250 mg in each tespsonful (5 ml.)

[PI 81 844] Mannomustine Dihydrochloride, B C.M., Mannitol Mustard 1,6-Di(2 chloroethylamino)-1,6-dideoxy p-mannitol dihydrochloride, C., Hyd, O.N.Cl., 2HCl=378 1

A cytostanc drug uzed in the treatment of malignant hematological discasses, particularly chronic lymphatus leukemis, Hodgan's discase, Brill Symmers's discase, recutolosanooma, muliple myclomas, and polycythamis Tosie effects nausca and vomiting Tosie effects on the bone marrow have been reported (Barlow et al., Brit med J., jul)939, 2008) Suggeited date 30 to 100 mg every other day by intravenous injection to a totiol of 600 to 800 mg

Proprietary Name DEGRANOL.

[P] 84B] Marbadal 'C' Vaginal Tablets (F B A Phormacrytical) Each contains subpatoiznude (q v) 500 mg and subcattrol dipropionate 50 mg with earbohydrates and dispersing sgents For the treatment of leucorrhoms and vagnings Administration I tabletto be inserted every evening for 6 to 10 days

Marevan (Evans Medical) Warfarm sodium, available as tablets of 1 mg, 3 mg, 5 mg, and 10 mg

[P1 54B] Marplan (Roche) Isocarboxazid (q v) available as tablets of 10 mg [B] Marssild (Roche) Ipromazid phosphate (q v) available as tablets each containing the equivalent of 25 mg and 50 mg ipromazid

[P1 \$7] Mebhydrolui Naphthalene-1,5-disulphonate. 5-Benzyl-1,2,3,4tetrahydro 2 methyl-y-carbolme hydrogen naphthalene-1,5-disulphonnet, (C₁₁H₂Ny)₂, C₁H₂O₂S₈=841 ?

An anthistamine which is stated to have no hypnotic or sedative effects Toxic effects gastic upsets Dore, daily in divided doses 100 to 300 mg, children, up to 2 years 50 to 100 mg, 2 to 5 years 50 to 150 mg, 5 to 10 years 100 to 200 mg

Proprietary Names FABAHISTIN, it is an ingredient of REFACAN

Medapsol (Imperial Chemical Pharmaceuterali) Di(p-aminophenyl) sulplioxide (DDSO) formerly available for clinical trial as tablets of 100 mg Antileprotic, Does instal, 50 mg daily, raising to 100 mg within 3 to 4 weeks.

[B] Medihaler Cort (Riker) Hydrocortisone acetate 30 ing per ml in a auspension in a pressumsed apray delivering a dose of 1 2 mg Medihaler Iso Fortie (Riker) leoptenaline audpiat 10 mg per n i in a

Medihaler Iso Forte (*Kiker*) isoprenaline subhata 10 mg per n 1 in a pressurised spray delivering a dose of 0 4 mg Forth creisel of bronchial asthma. (For other Medihaler preparations ice Vol. I, Zith Lida, p 1396)

[1 11 4A) Medomin (Gregs) Hepublishinal available as tiblets of 200 mg [B] Medro-Cordex (Upphn) Tablets each containing methylpreduceione [a v) 1 mg and acceptaticylic acid 300 mg For the relief of musculoakeltal information Dote 1 or 2 tablets 3 or 4 mmer daily [B] Medrone (Ugohn) Methylprednisolone (q v) available as tablets of 4 mg [B] Medrone Veriderm (Ugoh). An o niment, with a basis approximating the l p ds of human skin, containing methylprednisolone(q v) 0.25% in tubes of 5 g

[P1 3] 34A] Megobar (Aucholas) Tablets each containing phenobarbitone 30 mg and bemegnde 3 mg. A general sedative with reduced danger in case of over dosser. Doir 1 to 3 tablets daily

Meladinine (Satory & Moore) Methorsalen available as a Paint containing 1% and as Tablets of 10 mg

(FI \$4B) Melleril (Sandoz Products) Thuondarune hydrochloride (q v) sva i able as tablets of 10 mg 25 mg 50 mg and 100 mg

[P1] Melosan (Allud Laboratorei) Silver-costed tablets each containing dired ferrous sulphine 100 mg aneurine hydrochlonde 15 mg ribofisiume 1 mg inconnamide 5 mg ascribes cad 10 mg dry extract of nux vomice 15 mg and köls powder 120 mg Hernatine and ionic, Dori 1 or 2 tablets thrice daily (Modification of entry in Vol. 1 24th Edn. 9 J38)

[P1 \$1B] Meisedin (Boots) Methaquaione hydrochloride (q v) available as tablets of 150 mg

[7] Hill Manapar, Tablata (Nuboku). Each cantant scharflestradiol 0.01 main einitean 9 mg and honormicions. 30 mm Manapar, Fortis Tablata For disorder of the manpung. Dost 1 bibliet 2 n4 unso dury sfort moli-[7] Hill Menopar, Antiperintic Cream, contains sublexited 0 V_{2} , testoterons 0 V_{2} , metrotenes bydrochland 0 V_{2} , and the short of the manpung DVM, metroteness bydrochland 0 V_{2} , and because by V_{2} for menopung pruntus vulves and senile vaganus (Modification of entres in Vel. I 24th Edn p 561 and p 560)

[PI \$40] MEP (Independent Research Laboratories) Meprobamate available as tablets of 200 mg (MEP 2) and 400 mg (MEP 4)

MER 29 [Merrell National] Triparanol (q v), available as tablets of 250 mg Merbentyl Dospan (Merrell National) Dicyclomine hydrochlonde in long acting tablets of 60 mg (For other Merbentyl preparations are Vol. I 24th Eds p 217)

Meroces (Merrell National) A detergent antibacterial solution containing cetylpyndimum chloride. For infections of the throat and mouth To be used full strength or with an equal youtume of mater as a gargie or mouthwish.

[PI \$4B] Metamsustac (Pharmax) Methylamphetamine hydrochloride in austained-action tablets of 7 5 mg and 15 mg

Metanium (Iergue) Olisionent constanong titanum dioude 20%, titanum percude 3%, diunnum sai cyteis 3%, and titanum titanate 01%, in a si cone and parafin basis and Dusting powder containing titanum dioude 25%, titanum percude 5% titanum saiorfate 1%, and t tanuum tanaste 0.2%, For inflamed sim lesions and bediores (Modification of entry in Vol 1 24th Edn p 1353)

[8] Metastab (Boots) Methylprednisolone (q v) available as tablets of 4 mg

[P1 140] Metformin Hydrochloride L.A. 6023 N²N³-Dimethyldi guanide hydrochloride, C₄H₁₁N₄ HCl=165 6

A hypoglycam c signit for oral admanstration. It is stated to be most suitable for middle aged and elderly diabetes. It should not be used in conjunction with tolbutamide and similar drugs but can be given alone or with multilen when it is given to diabetes already receiving multip the doage of multin should be reduced of period with *Southerna Content* increases of multiple and the statement of the statement of the increases of multiple and the statement of the statement does after food, mutal 15 g resume slowly over 8 days to 30 g usual municipance, possibly 1 to 15 g.

Proprietary Name GLUCOPRACE.

(P1 \$4B] Methandienone Methandrostenolone 17 Hydroxy 17a methylandrosta 1,4-dien 3-one, CyaH., O.=300 4

An anabolic agent which is stated to have little progestational or astrogenic effect it is also claimed to be of use in the treatment of osteoporosis Dose, daily initial 10 to 20 mg, maintenance 5 to 10 mg for courses of 4 to 6 weeks with intervals of 2 to 4 weeks, infants up to 2 years, 0 04 mg per kg body weight, children 0 5 to 2 mg for courses of 4 weeks with intervals of 4 to 8 weeks.

Protrictary Name DIANABOL

[Pi \$48] Methaqualone Hydrochlonde, TR 495 2-Methyl 3-otolyl-4-gunazolone hydrochlonde, C1.H1.ON, HCI=286 8

A hypnotic which has no analgesic action Methaoualone hydrochloride takes effect within 20 minutes and the effect lasts for 6 to 8 hours It is also active when administered by suppository. It potentiairs the effect of chlorpromazine, pethidine, codeine, and dextromethorphan Alcohol increases the depressant effect of methaqualone on the central nervous system Toxic effects mild gastric upsets Some patients are resistant to a hypnotic dose of 300 mg and only develop confusion. giddiness and headache Dose hypnotic, 150 to 300 mg at night sedative. 75 mg once or twice daily Children, hypnotic, 75 mg at night. Proprietary Name MELSEDIN

[P1 \$40] Methdilazine Hydrochloride, 10-(1-Methylosrolidin 3vimethyl)phenothiazine bydrochloride, C. II., N.S.HCI=332 9

An antihistamine which is stated to be of value in the treatment of pruntus and various allergies. Its action is eaid to persist for up to I2 hours after a single oral dose. Methdulazino may potentiate the action of slephol, analgesics, and sedatives Usual dote 8 mg twice dails

Proprietary Names DILOSYN TACABYL (USA) (PI \$4E) Methocarbamol AHR 85 2 Hydroxy-3 e-methoxyphenorypropyl carbamate C. HuON =241 2

A sheletal muscle relaxant which acts centrally It has similar effects to mephenesin carbamate (Vol I, 24th Edn, p 405) but has a slower and longer action Toxic effects drowsiness, vertigo, blurred vision, headaches, nausea, skin eruptions and fever

Dose, by mouth initial, 1 5 to 2 0 g 4 times a day for 48 to 72 hours, maintenance, 1 0 g 4 times a day By intramuscular injection not more than 500 mg into each buttock every 8 hours followed as soon as possible by oral therapy By slow intravenous injection of a 10% solution, maxmum of I g not more than thrice daily for not more than 3 consecutive days The recommended dose by mouth for children is not more than 30 mg per lb body weight daily in divided doses. Proprietary Samer ROBASIN NELBARY (U.S.A.)

Methocidine (Rons Laboratories) Nesal and throat spray in usot nic solution, containing in each 100 ml methoeiden (gram cidin formaldehyde or hydroxymethylgramicid n a broad spectrum antibiotic) 10 mg, ephedrine lavulinate 900 mg and cetylpyridinium chloride 25 mg. For general infections of the nose and throat,

[P1 \$1 \$4 1] Methohexitone Sodium Methohexital Sodium. Sodium a-(1)-5 allyl 1 methyl 5 (I methylpent 2 ynyl)barbiturate, C1.11,0.N.Na .. 284 3

Methohexitone sodium is a very short acting barbiturate which is given intravenously for the induction of general anarsthesia or as the sole anæsthetic for minor operative procedures which do not require muscle relaxation. It may, however be employed with skeletal muscle relaxants.

It is injected intra-recould for induction anasthesia as a 1% solution at the rate of approximately 1 in levery 5 seconds or it may be administered as a 0.2% solution by continuous intra-recoust drup for the manteriance of general massthesia at the rate of approximately 1 drop per second Methohexitone sodium is more potent than thiopentone sodium but is not absorbed by the farty tuscues and is more rapidly eliminated so that the total dosage of the two drugs is approximately the same after 3 hours ansathesia

Tone effect The Council on Drugs of the American Medical Asso cation (J Amer med Att 1960 113 676) instes that the admustration of metholexitone sodium may cause respiratory depression and spinor and occasioned post anarchicte intervent and fail in body temperature II administered in madequate dosage or at an incorrect rise there may be musicle twitching or more severe conculsive moviements. Contra and cations at should be used with causion in patients with respiration disease congenitive heart failure anorem and cityme observed others and exploring the failure anorem and cityme observed disease congenitive heart fullier anorem and cityme observed other bachurates the drug is probably contra indicated in patients with severe heaping doys the severe of the severe of the severe of the severe other bachurates the drug is probably contra indicated in patients

Dose for induction of anzsthesis 50 to 120 mg for intermittent administration in the maintenance of general anzsitiens when sup plemented by a gaseous anzithetic and oxygen, 20 to 40 mg at intervals as required e.g. every 5 to 7 minutes

Storage aqueous solutions are stated to be stable at room temperature for at least 6 weeks

Proprietary Names BRISTAL SODIUM BREVITAL SODIUM (USA)

Methotrexate (USP) Amethopterin 4-Amino N^{10} methylpteroyl glutamic Acid a Methopterin $N \neq [N (2 + Diaminopterid 6 ylmethyl) N methylaminolhenzovi L(+) glutamic acid C.J.H. <math>O_N = 4545$

A folic and antagonist which it is stated, may produce remissions within 2 to 4 weeks in all types of action and subacute leukamia. It appears to be more effective in children than in adults and the most frequent response is seen in children with lymphablastic leukamia.

Toxic effects alopecia stomatitis ulceration of the mouth diarrhoza and gastro-intestinal harmorrhage Antidote folinic acid Contra indicated in pregnancy

Dote children under 2 years 1 25 to 2 S mg daily and children 2 to 12 years 2 5 to 5 mg daily reduced gradually when remission is well established to a maintenance dose of 5 to 10 mg weekly Adults may need initial doses of up to 10 mg daily

Methotrexate (Lederle) Methotrexate (see above) available as tablets of 2.5 mg

[P14B] Methatrimeprazine Levomepromazine 7044 R P (-)-10-(3-Dimethylamino 2 methylpropy)] 2 methoxyphenothiazine $C_{13}H_{14}ON_3S = 328.5$

A phenothazane derrative used in the treatment of psychotic patients and stated to act similarly to chlorponouzane in the reduction of psycho motor activity (Vol 1, 24th Ldn p 390), it has also been used in the treatment of moderate depression it can the used as an alternative to chlorponizane when given alone or with analgesics or narrotics for the relief of pan and anytery Methoriumeprasine is usually administered by mouth and it is not well tolerated by injection A limited number of doses may, however be given by interminedule information of used and 250 ml of normal saline by slow intravenous injection. It should not be injected subcutaneously Intramuscular doses of 25 mg have an effect approximately equivalent to 50 mg given by mouth.

Toxic effects similar to those of other phenothazine compounds as described under Chlorpromazne (Vol I 24th Edn pp 386 90) Sideeffects reported include drowsmess asthenia dryness of the mouth postural hypotens on tachycardia and agranulocytosis. Co itra indi cations as for Chlorpromazine (Vol I 24th Edn p 390) Some nre scribers consider that patients receiving methotinmeprazine tolerate electroconvuls on therapy poorly

Dose for ambulatory patients an initial daily doso of 25 to 50 mg by mouth in divided doses increasing slowly to the most effective doso with minimum s de effects for patients in bed en initial daily dose of 100 to 200 mg by mouth in divided doses increasing slovly to doses of up to 1 g daily which is maintained for some time and later reduced if possible to the minimum effective dose for patients in bed by intramuscular or intravenous injection up to 50 mg repeated 3 or 4 times in 24 hours if necessary. The suggested dose by mouth for children is not more than 40 mg daily in divided doses

Storage methotrimenrazine should be stored protected from light Proprietory Nomes (as the acid maleate and the hydrochlande) VERACTIL NOZINAN (Fr)

[B] Methylaredaisolone (N.N.D.) 6 Methyldelta 1 hydrocortisone 116 17a 21 Trihydroxy 6a methylpregna 1 4-diene-3 20 dione CallaOa =3745

A glucocortico d with the same actions and uses as prednisolone (Vol I 24th Edn p 495) Methylprednisolone has a greater anti inflammatory effect than prednisolone and causes less retention of sod um and water Toxic effects and contra indications as for Prednisone (Vol I 24th Edn p 492)

Dose daily in severe or acute conditions 12 to 40 mg in mild or chronic conditions an initial dose of 6 to 20 mg reduced by decrementa of 2 mg every 7 days to a maintenance dose of about 3 to 10 mg in acute sbeumatic fever 0 5 mg per lb body we ght until the crythrocyte sedimentation rate has been normal for 7 days Proprietary Names MEDROVE METASTAB MEDROL (US I) it is an in

eredient of MEDRO-CORDEX and MEDRONS VERIDERM

[8] Methylprednisolone Acetate 2I Acetory 118 17a dihydroxy 6a methylpregnz 1 4-d ene 3 20-dione CaiHanOa=416 5

This has the same uses toxic effects and contra and cations as methyl prednusolone Retention enemas containing 40 to 120 mg of methyl predn solone acetate in d luted normal saline have been used in the treatment of ulcerative colitis Dose by intramuscular injection 40 mg every 2 weeks to 40 to 120 mg weekly according to the cond tion by intra articular injection 4 to 80 mg every I to 5 weeks

Proprietary Names DEPO MEDROVA DEPO MEDROL (USA) at is an ingredient of NEO-MEDROVE VERIFICIAN

Metronidazole 8823 R P 1 (2 Hydroxyethyl) 2 methyl 5 n tro mid azole C.H.O.N.=171 2

Metronidazole is sa d to be effective in the oral treatment of Trich omonos anymalis infections of the genuto-uninary trace in males and females It has no marked inhibitory effect on the growth of Döderlein s bacillus It has no action against Candida For a summary of information on the use of metronidazole in the treatment of trichomonianis see Lancet 11/960 1238 Taxet effects sud effects so far propried include gatto intestinal upsets unpleasant taste furred tongue and transient skin rashes Done 2000 mg thince daily for 7 days followed if necessary after a few days by a second course of 300 mg three daily for 7 days Proprietary Name Fixer.

[F1 54B] Mezuran (Imperial Chemical Pharmaceut cali). Tablets each containing sulphadumidne 500 mg and phenazopyridina hydrochloride (q > 1.50 mg. For the treatment of genute urnary milections. Done 2 tablets every 6 hours

[P1 440] Midicel (Parke Down) Sulphamethoxypyridazine (q, v) available as Tablets of 500 mg and as a Suspension containing in each reaspoonful (5 ml) the equivalent of 250 mg as the N^3 accify derivative

[B] Millicorten (Ciba) Dexamethasone (q v) available as tablets of 0.5 mg and 1 mg

Millophyling (Dater Pharmacentacai) 3-74 Dischylamanoethyl 13-dameth fisantine campionsubjonair ($C_{adHe}O(N^{-2}-51)$?) *vanible in 5 ni Arapoules each consumng 700 mg and as Tablets of 100 mg For use as a cardiac and rego retory tumbulant and as an sdynami to muscular ford. Date by mouth 3 to 6 tablets daily in dended doses siter food by intramuscular angetion 10 2 angoules daily

[P] 44B] Moditen (Squabb) Fluphenazine hydrochloride (q v) available as an Elize containing 0 5 mg in each ml and as Tablets of 0-25 mg and 1 mg (Pi 64B) Mornidine (Scorie U.K) Pipamazine (q v) available as tablets of 5 mg

Multrate (Richter) A syrup containing in each fluid ounts vitamin A 50 000 umits ansurane hydrochlondo 40 mg rhofisanne 20 mg pyridogine hydro chlonde 4 mg skoath e sid 400 mg caladerol 10 000 um is and nacitamende 120 mg For use as a dictary supplement. Dose 1 to 2 tespoonfuls duly children 1/6 to 1 tespoonful duly

Muripana (Norgine) Tablets each containing glutamie acid hydrochloride 500 mg and pepsin 35 mg For the treatment of hypochlorhydric atates Dore 1 or 2 tablets with each meal

Mycil Spray (Britch Drug Houses) Chlorphenes n 1% in an aerosol apray For athlete a foot and other fungous infections (For other Mycil preparations see Vol. 1 24th Eds. p 1334)

Mydrilate (Ward, Blenkinsop) Eye-drops containing cyclopentolate hydro chloride in two strengths 0.5% and 1%

[P1 \$1 \$4A] Mylodex A (Brook Parker) Tablets each containing desam phetamine sulphate 5 mg and amylobarb tone 32 mg

[PI 41 444] Mylomidat (Archola) Tablets each contunung amylokuchione 100 mg and benegrie 10 mg. Science with reduced danger, in case of over douge Dow technice (Archola) Science and Archola (Partice) (Partice) (21) Myteciclic (R (Squid)) Pactification Drops contuning in each and phosphate potent sted tetracycline equivalent to tetracycline hydrochloride 100 mg and amphotencine 18 (squid) Pactification Drops containing in each bargoordiu (3 mj) phosphate potentiated tetracycline equivalent to tetracycline hydrochloride 135 mg and amphotencine 113 mg. Dowr shifting, 51 et 510 body meght (13 body nearby 13 mg, 14 mg,

NaClex (Claxe) Hydroflumeth azide (q y) ava lable as Tablets of 50 mg and as Half Strength Tablets of 25 mg

Note In U.S.A., NaClex (A. H. Rob ns Co Inc. Richmond Va) is a proprietary name for benzthiande

[P1 \$40] Nardii (Warner) Phenelzune $(q \vee)$ available as tablets of 15 mg., as the bydrogen sulphate

[D P1 \$1] Naroben (Smith & Aphene) Phenazoeine hydrobromide (q v) available in ampoules of 1 ml rach containing 2 mg

[B] Naseptin (Imperial Chemical Pharmaceuticali) A create containing chlor hexidine hydrochloride 0 1°, and neonsycin sulphate 0 5°. For nasal application to nasal carrier of staphylococci

Naturalax (Johnson & Johnson) A flavoured syrup containing dioctyl s idium sulphosuccinate 2 mg in each mi

Navadrez (Cibe) 6 Chloro 3-cyclopentylmethyl 3 4-dhydro-7 sulphamoyl benzo-1 2 4 thadiazane 1 1-dioxide (CisHigOaNaSiCl=3/9 9) available as tablets of 0 5 mg

A during which is such to carry only a slight ratk of potasuum depictor. A door of 0.3 cm by mouth a equivalent is during action to 30 cm of chlorothanade. It is used for the treatment of adams hypertension, and premeasure adamnited concurrently may have to be reduced. Convis induces it imus be given with caution to putsents with supsured (candid the state of the state of a low still detail to a state of the state

[Pi \$1 \$4A] Nealbarbitone Alneobarbital, Nealbarbital. 5 All; 1 5 neopentylbarbituric acid, C13H1:0aNa=238 3

Neilburbitone is stated to be a daytume sedative which rarely produces downings and has a duration of action internolate between smjobarbitons and phenobarbitone. Doese of up to S00 mg three daily has e been given Toxee (first similar to those of other barburates (to 1, 24th Edn, p. 233) Side effects so far reported include nautra, vomiting, dargeness, unscalamess, and fatuge Usual dow 60 to 200 mg three daily, starting with the lower dose and adjusting to the needs of the material.

Proprietary Names CENSEDAL NEVENTAL (Swed)

[P] \$1 \$4A] Nebrinal (Wonder) Timed release tablets each containing pentobarbitone 50 mg and mephenesia 225 mg For incomnia Dote 2 to 4 tablete half an hour beloce beditime

and here-Gartef Lotion (Upoha) Contains indicommune section 0.5% or π^{10}_{2} both with accomman singlence 0.5%. For reforming millimmation and pretering infection. (For other Non-Cortef proportionaires 1 of 1.24th Ear. p. 391) [19] New Medicard Verifiert (Upohe). An onlinean, with a basis approxiimating the lipids of humans sint cause main methylericlinisions secture (4.7) 0.25% and alconvoir an ulphace 0.5%, in tubes of 5.2 for the treamment if unflammatory and allergic sinn condutions and control of secondary sinn infection.

Neo NaClex (Glazo) Bendrofluzzide (q v) available as tablets of 2 5 mg and 5 mg

[91] Neo-Rybarez (Rybar Laboratornet) A loqued inhulant contaming adrena has 0.4% pituitary (posterior lobe) extract 0.2% p tuitary (natiroi lobe) extract 0.2% aropuin embidante 0.1% paravenne hydrochloride 0.1%, benzoctane 0.12%, and muculute bas a to 10%. For the relef of transhall subma and benchus (Mod faction of energine Vol I 24th Eds p 49)

[P1 8] 84A] Neostal (Anglo-French Drug Co) Tablets each set taning reserves 0 25 mg, phenobarbitate 15 mg and theophiline 60 m, For hypertension. Doer matul one tablet twice on three dairy maintenance one tablet daily.

Nestargel (Verile) A thickening powder containing cerstonia 96*, and calcium lactate 4° . For the directive treatment of regurg ration and vomining in infinits Doe 2°_{10} or 2°_{10} are each feed.

Neutrapen (Burroughs II elleone) Penseillinase (q v) in vals rach containing 200 000 units, the addition of 2 ml of water yields an isotonic solution. Nez Drops (Rybar Laboratores) Nasal drops containing naphazoline hydrochloride 0.05%, phenylephene bydrochloride 0.25%, chlorbuiol 0.5%, sod sodium chloride 0.9%, (This preparation was formerly known as Rybanlool, see Vol I, 24th Edn, p. 59)

[B] Nialamide. N-Benzyl-β pyridine-4-catboxyhydrazidopropionamide, CteH₁₄O₁N₄=298 4

À mono amne ordase unhubur which appears useful in the treatment of psychiatric disorders characterased by depression I trus be used in conjunction with electrocomplision therapy. It is said to reduce the frequency and severity of attacks of anging pectors Niabunde prolongs the central depresant effect of herobachiote, augments the hypotensive effects of chorohizarde, and may possibly enhance the effect of momuna, blurred vision, dizaness, drynness of the mouth, increased awaeting, and some increase in blood pressure in hypertensine patients Contra indications it should be used with care in renal or hepatie disease and in epilepsy Dose install, 75 to 100 mg daily, increased or decreased accounting to tolerone and response

Proprietary Name NIAMID

[8] Nizamid (Pfier) Naizmide, available as tables of 25 mg and 100 mg. Nicopyron (Trommadoff, Aachen Gromas Edinato) 1,5 Durathyl 2phenyl-t-(pyratine 3 carboxysmado)pyraxol 3-one, available as Pills of 200 mg, and as Suppositiories each containing 400 mg For the rule of rheumatio and incursings pain Dore 1 or 2 pills or one suppository trives or their c daily

[Pi 87] Nilergez (Imperial Chemical Pharmacrutical). Isothipendyl hydrochloride (q v) svailable as an Injection in ampoules of 1 ml esch containing 10 mg, as Sustained-Action Tablets of 12 mg as a Syrup containing 2 mg in each testpoonful (3 5 ml) and as Tablets of 4 mg

(Pl \$4B] Nitoman (Rache) Tetrabenazine (q v), available as tablets of 25 mg

Nivaquine (May & Baker) Chloroquine sulphste, now size available as a Syrup containing the equivalent of 50 mg of chloroquine base in asch fluid dirachin (See Vol 1, 24th Edn. p. 1170)

[B] Nivemycin (Boots) Neonycın subhate available as an Eye Ointment containing 0 5%, in tubes of 4g as a Lotion containing 0 5%, as an Ointment containing 0 5%, and as Tablets of 500 mg

Nobscuttane (Epour Medical) A transported plastic wound dressing consisting of an acrylic real usualized at a maximum of activities extens, when applied to the size and allowed to exaporte it leaves a touch elastic protective film impervious to bacters and other constrainties, a validate impression and the protective of the size of the and 300 ml (Madufaction of emprise Fell, 220, Eds.), 2107 [Nobscuttane D] and 300 ml (Madufaction of emprise Fell, 220, Eds.), and the size of the size of the disapplication of the size of the disapplication with a brush (Fer Nobscutane Marking Isk see Vell, 1 24th Eds.), p [137].

Nobepyrol (*Evan*, *Midual*) A preparation similar to Nobecutane leaving on evaporation a plastic film constaining relate coal tast \$3% and therm 0.6% with small amounts of phenolic and aromatic substances, available in pressured pray packs of \$5 g

Noradran (Norma Chemical) [9111] Bitaba esch dose consists of one puck sublinguist teblet continuous esperantime vehybate 10 mg and one plans white tablet continuous generations en under 23 mg. theophyline 123 mg. constitution on endine the second state of the second state of the transformer of the second state of the second state of the second transformer of the second state of the second state of the first state of the second state of the second state of the other second state of the second state of the second state of the other second state of the second state of the second state of the other of the second state of the second state of the second state of the other of the second state of the sec [91] Noradran Inhalant (Norma Chemicali) Contains isoprenalize sulphrate 1%, diprophylling 5%, and paparenne hydrochloride 0 99%. For the quick relief of stimum attacks

[P1 44B] Norethisterone Norethindrone (N.N.D.), Anhydroh)droxy-19 norprogesterone, Ethnylnorprogesterone 17a Ethnyl 17 h)droxyestr 4-en 3 one, C₃4H₁O₁=298 4

A projectional spirit, 'It has a light entropenic effect but is stated to have no androgenic action. It is taked in the prelimination of primary and secondary amenorhold in its stated in the prelimination of the state has also been given for dynthmictanal uterms bleedinger at increasing it when given from the 5th to the 25th day of the menitrual cycleonic bleedward to mibitor outsion. There is not yet radificient evidence to establish the drug in the treatment of dynamorthese prementirual tension and threatment and habitual abortion. Towe (Pfritt in inflamsics and lethargy Prolonged therapy generally decreases libble Dote for amenorthese menitrual irregularuses and dynthmictional utermic bleeding 10 to 20 mg daily from the 5th to the 21rd day of the menutrual cycle, to prevent menitrustance 70 to 30 mg daily

Proprietory Namer PRIMOLUT N NORLUTIN (USA) as the accetate it is an ingredient of PRIMODOS

[P1 \$4B] Norethynodrel 17a Ethynyl 17 hydroxyastr 5(10)-en 3-one C2aH2aO2=298 4

Noreithynodrel as a steroid which is an active progetorgen when given by mouth and which also has a slight intrinsic estrogene action, it as free of androgenic activity. It is used for the control of ferality and is and not to affect subsetyratic conceptions and pregnamy. For estimating the provide the subsetyratic resolution of the subset of the Amer med. An 1961, 175, 229 consider that the constant use of noethynodrel for a two jear period for contractplive purposes has been med and the subsetyratic resolution of a stream bleednes, a site subset of the subsetyratic resolution of a stream bleednes, see real months in endometrions and recurrent and that the estimation as the subsetyration of the corrent of a stream bleednes, see real months in endometrions and recurrent and threatened abortion at it is also of value in inferting whet on an interquire likely hase

Taxe effects may include naises and vomunity, distances and an increase on weight during the fairs cycles of distantiation, there may be an increase in premenstruit lemion. About 5% of all cycles may be associated with beakfounds bleeting of the gravity of the cycles may be apple parameterized by the economic beam exports the first one apple parameterized by the economic beam exports the first one parameterized by the economic of the economic beam economic outlation may occur later

Dose 5 to 30 mg daily

Proprietary Names it is an ingred ent of Covovio and ENAVID

Norflex (Riker) Orphenadrane e trate (q v) available as long act ng tableta of 100 mg

[91] Novaikal (Anglo-French Drug Co) Tablets each containing magness mitrusilicate 600 mg, belladonna dry extract 3 mg and asculue acid 10 mg i or peptic ulere and allied conditiona Dose 1 or 2 tablets to be chewed every 4 hours preferably before meals.

[D P1 \$1] Numorphan (British Drug Houtes) Oxymorphone hydrochlorida (q v) available as an injection in ampoules of 1 1 ml containing 1 5 mg in 1 ml Nu-seals Ammonium Chloride (Lally) Ammonium chloride in entericscaled tablets of 71/3 grains

Nu seals Aspirin (Lilly) Acetylszlicylic acid in enteric scaled tablets of 5 grains and 10 grains

Nu-scale Ferrous Sulphate (Lully) Ferrous sulphate in enteric scaled tablets of 5 grains.

Nu scals P.A.S (Luly) Ammossi cylic acid in enteric-sealed tablets of 500 mg equivalent to acdium aminosalicylate 690 mg

Nu-scals Potassium Chlorade (Lally) Potassium chlorade in enteric scaled tablets of 5 grains and 71/a grains.

Nu seals Sodium Chloride (Luly) Sodaum chloride in enteric scaled tablets of 500 mg and 1 g

Nu-seals Sodium Salicylate (Lally) Sodium salicylate in enteric sealed tablets of 5 grains and 10 grains.

Nycets (Potter & Clarke) Passilles each containing tyrothricin 1 0 mg and etylpyrid n um chloride 2 5 mg For infections of the mouth and throat, Dote one passille to be sucked each hour

Nystatin Dusting Powder (Squibb) Contains in each g nystatin 100 000 units in purified tale. For application to the skin and external car

Nystatun for Suspension (Squibb) A dry powder producing after recon stitution with water a suspension consuming in each ril nystatun 100 000 units, (See also Vol I I Ith Edn p 1422)

[P1 81 84A] Œstrad (Brook Parker) An eluxir containing in each tesspoonful ethnajlastradiol 0 01 mg with phanobarbinone sodium 0 227%, sodium bro mide 1 843% and glyceryl tru trate solution 0 416%. For the relief of menopausal conditions. Doi: 1 to 4 tesspoonfuls.

OnychoPhytex (Wynist Laboratories) A paint containing borotannic com plex 9 92% in alcohol and ethyl acetate For the treatment of onychomycosia

Orabilix (Guerbes Parss Bengue) Bunamuodyl sodium (q v) svailable as tablets of 750 mg

[B] Oradexon (Organon) Dexamethasone (q v) available as tablets of 0 5 mg and 0 75 mg

[8] Orapen V K (Independent Research Laboratorier) Phenoxymethylpenicillin potassium assilable as tablets of 125 mg

[9] 418 3] Orzszereg (Dzniklar Ca) Suspension containing in each testpoonful (Sm)) sterptonyon SOD mg (subpatte) ubplachamidne SOD mg and light kalun 1 Sg and Tablets each containing surphomy and 250 mg (sa subpatte) and subplatmindne 250 mg For the treatment of bacterial ublectation of the interational track including batiliary dynemictry initiatile guitto enterina bacterial interational track including batiliary dynemictry initiatile guitto enterina bacterial interational track including batiliary dynemictry initiatile guitto enterina bacterial including Dairy and 2 testpoontib (10 mJ) of suppens on Containing one testpoonful of suspersion or 2 tablets 4 turnes dairy initiation and children halt the solid tosage.

Organidin (Dentr Laboratores) 23 (2 and 3 Indopropyi denealony) propan 1-al yanishi as Tablets of 30 mg is an Elizic containing 12° and as a Solution containing 30 mg in each ml for promoting expectiontion in bronchi astima bronch us bronchectuses a unutin and post-operatorily Dore 2 tablets or one tesspoonful of elizar or 20 drops of solution 4 times daily with flu di.

[Pi \$4B] Orisulf (Ciba) Sulphaphenazole (q v) available as Tablets of 500 mg., and as a Suspension containing 500 mg in each teaspoonful (5 ml)

Orphonadrine Citrate, Mephenamine Citrate, Dimethyl 2-(a otolylbenzyloxy)ethylamine citrate, CraHasON CaHaO,=461 5

Actions and uses, toxic effects contra indications, and dose as for Orphenadrine Hydrochlande, p 238

Proprietary Name NORFLEY.

Orphenadrino Hydrochloride (NND) BS 5930, Mephenamine Hydrochloride Dimethyl 2 (a o tolylbenzyloxy)ethylamine hydrochloride, Ci,14,14,00,HCI-305 9

Optimization produces a reduction of voluntary muscle spasm and has a supportant effect 11 has been used in the symptomatic management of Parkinson a disease 11 relatives mgdity hus has little effect on tremos, which it may even accombine There as not yet sufficient evidence to establish it sues on other parallel condutions due to saletal muscle spasm, in Ménnère s disease, in dizzaness, and in psychiatry for its antidepressant action

Tonc effects so far reported include nauses, dryness of the mouth dizzness, mild excitation, occasional hallucinations, gastro intestinal upsets, urnary retention, bluring of vision, and an increase of tinnitus when used for the treatment of Menkre s discusse Contra indications care is necessary in patients with glaucom, tachyarida, and ignurary retention.

Dose 50 mg thrice daily, adjusted according to response and sideeffects

Proprietary Name DISIPAL (Vol I 24th Edn p 658) it it an ingredient of ELIMIT

[P1] Otalgan (Serumwerk Baile Uniclem) Ear-drops containing phenazone 5% and procame 1% in anhydrous glycerin. For painful effections of the middle ear.

Otamidy1 (May & Baker) Ear drops containing dibromopropamidine isethionete 0 15% and di(p-amidiaophenyi)amine dibydrochlorids 0 5% in an organic solvent. For the treatment of outic externs and chronic suppuratus other media

[F2 B) Olotrane (Ward Blanknup) An adheuve car paint containing I enotrane 0 1% predinsolone 0 5%, and carbopol 0 75%, with alcohol and distilled water, in tubes of 5 g For the treatment of chronic outs externs and eitus media

[P1 34B] Ovestin (Organon) Estinol available in Ampoules of 1 ml tach

Ozazine Elizar (Route) Contains an each fluid drachm piperazine hydrate 71/a grains

[Pi 14B] Oxymetholorie 17 Hydroxy 2 hydroxymethylene 17a methylandrostan 3-one, CatH, 0,=332 5

An embodic agent which is stated to have no progrational and a mammum androgene effect. It is claured to enumbate growth and to correct physical development or loss of weight hy promoting the retention of motogen and element essential to theformation of body numes. Contra android in prostauc earnones I is should be given with are to patients with circulatory failure or real dysfunction. Dure daily 's to 15 mg for courses of 30 to 45 days with intervals of 10 to 15 days, for severe cases, an initial course of 20 to 30 mg for 7 to 10 days followed by 5 to 15 mg for 4 to 8 weeks, children, 5 mg for courses of 30 days with intervals of 15 to 30 days.

Proprietary Names ADSOVD (see p 275) ANAPOLON

19 1: 11] Oxymorphone Hydrochloride Oxmorphone Hydrochloride, Oxydamorphone Hydrochloride 7 8-Dihydro-14-hydrosymorphanone hydrochloride, C₁₁II₁O₁N, HCI=337 8

Oxymorphone bydrochloride is an analgesic. It is usually administered by eubcutaneous or intramuscular injection in this treatment of severe pain, and by intravenus injection as an adjunct to anasthesia if a cts in 10 to 20 minutes after subcataneous superiors and in 10 to 15 minutes after minutescalar uncerton and us effect lasts for 4 to 6 hours. The analgence effect of 1 mg is stated to be equivalent to 8 to 10 mg of morphine. It has been administered rectally in the form of a suppository Doses of up to 25 mg have been given by snycetion in the treatment of neoplastic disease. Take affects as for morphinner—see Vol. 1, 24th Edu, 9 090—but the side effects are stated to be less with oxymorphone Addiction to oxymorphone can occur after prolonged administration but its hability to cause addiction is claimed to be less than that of morphine or prelindane.

Due by subcutaneous or intramuscular injection, as an analgesic, 1 5 to 5 mg, pre-operatively 0 3 to 1 5 mg As an adjunct to anisthesia, by intravenous injection as a 0 03% solution 0 3 to 0 6 mg, supplement ed by doses of 0 15 to 0 3 mg

Proprietary Name NUMORPHAN

Oxyphenbutazone G 27 202 Hydroxyphenylbutazone 4-Butyl 1 phydroxyphenyl 2 phenylpyrazolidine 3 5 dione C1, H200, N3=324 4

Oxphenuluzzone is stated to have anti inflammatory, antipyretie, and analysics properties I thas been used in the treatment of inflammatory conditions and rheumatic diseases *Towne difecti* which may be produced are gatro interinal upset sails and fluid reintion akin risk and more rately, leucopenia. Castro intestinal upsets which are tusually midder than with phenylbutizone, may be lessened by the concurrent adminitration of a sodium free anised Contra indicated up patents with eardae, renal and hepatic diarage reprior ulceration drug altery and blood dyscrassas *Unud doer* instead 400 to 600 mg daily after food.

Proprietary Names TANDERIL, TANDEARIL (U.S.A.)

PCM (Napp) Paracetamol (q v) available as tablets of 500 mg

Pabalato-Sodium Free (Rohm Co) Enten-coated tablets each con tunne potessame adicylate 200 mg end potessum p semandemater 300 mg [8] Pabalate HC contains in addition in each tablet hydrocontione 25 mg For theomatod arthritis and feumatic conditions when restricted sodium intukia desurable Dore initial 6 to 8 tablets duity increased if necessary to control symptom

[0 Fi Si] Falflum (M C P Fure Drugt) Dextromoramide (q v) available as bitartrate in Tablets of 5 mg (base) and in Ampoules of 5 mg and 10 mg (base)

(D Fi S1) Pannergan (Moy & Boler) Pre anarchetic solutions in five forma PHO in 2 ml snpoules consuming pethadise hydrochiored 100 mg and promethaane hydrochiords 50 mg SF50 m 2 ml singulate containing peth itom by dirachiords 50 mg SF50 m 2 ml singulate containing peth itom by dirachiords 50 mg Format have hydrochiords 510 mg, and hyoric chloride 100 mg promethaane hydrochiords 50 mg, and hyoricm hydrobornide 0.43 mg F100/25 m 1 ml ampoulate containing pethidine hydrochiorde 100 mg and promethaane hydrochiords 25 mg, and AP100/25 ml rnl, chloride 100 mg and promethaane hydrochiords 25 mg, and AP100/25 ml rnl, chloride 100 mg and promethaane hydrochiords 25 mg, and AP100/25 ml rnl, chloride 100 mg, and promethaane hydrochiords 25 mg, and AP100/25 ml rnl, chloride 100 mg, and promethaane hydrochiords 25 mg, and AP100/25 ml rnl, chloride 100 mg, and promethaane hydrochiords 25 mg, and AP100/25 ml rnl, chloride 100 mg, and promethaane hydrochiords 25 mg, and AP100/25 ml rnl, chloride 25 mg, and promethaane hydrochiords 25 mg, and AP100/25 ml rnl, chloride 25 mg, and promethaane hydrochiords 25 mg, and AP100/25 ml rnl, chloride 25 mg, and promethaane hydrochiords 25 mg, and AP100/25 ml rnl, chloride 25 mg, and promethaane hydrochiords 25 mg, and AP100/25 ml rnl, chloride 25 mg, and promethaane hydrochiords 25 mg, and AP100/25 ml rnl, chloride 25 mg, and promethaane hydrochiords 25 mg, and AP100/25 ml rnl, chloride 25 mg, and promethaane hydrochiords 25 mg, and AP100/25 ml rnl, chloride 25 mg, and promethaane hydrochiords 25 mg, and AP100/25 ml rnl, chloride 25 mg, and promethaane hydrochiords 25 mg, and AP100/25 ml rnl, chloride 25 mg, and promethaane hydrochiords 25 mg, and AP100/25 ml rnl, chloride 25 mg, and promethaane hydrochiords 25 mg, and AP100/25 ml rnl, chloride 25 mg, and promethaane hydrochiords 25 mg, and AP100/25 ml rnl, chloride 25 mg, and promethaane hydrochiords 25 mg, and AP100/25 ml rnl, chloride 25 mg, and promethaane hydrochiords 25 mg, and AP100/25 ml rnl, chloride 25 ml rnl, and promet

Panaleve (Higgleworth Ltd) Paracetamol (q v) are lable as an Elizie containing 120 mg in each fluid drachm, and as Tablets of 500 mg

Pancreozymin (Boots) Vials each containing 100 units of pancreozymin in the form of a dry powder to be dissolved in Water for Injection. For use with secretin as a disgnostic agent in pancresite and gull bladder dysfunction. Dose I to 2 units per kg body weight by allow intravenous injection Pancrex (*Panet & Byrne*) Pancreann BP, synthble as sumer-conted Granules and as Povder. Pancrex V, punctum and approximately factimes the tryptic activity of pancreann BP, available as Powder, somit starench equivalent in tryptic activity to pancreatin BP 033 g. Pancrex V Porter Tablets each equivalent in tryptic activity to pancreatin BP 031 g. (*Vielafantos of the Pancrex mintes uv Vel. J. 246 Edu*, p. 953).

Panets (Ward, Blenkintop) Paracetamol (q v), available as tablets of 500 mg Panok (B.M. Laboratoriei) Paracetamol (q v), available as tablets of 500 mg

(1) is (A) Parabal (Vier I) Paramaceuta (C) Tables and correspondence in the parameter of the parameter o

Paracetamol (see also Vol. I, 24th Edn, under Panadol, p. 25) Acetamnophen (U S.N.P), 4'-Hydmxy acetamide, p-Acetamidophenol, C.H.O., W-151 2 A white odouries, crystilline powder with a bitter tast Silphtly soluble in cold water, more soluble in hot water, soluble in alcohol, chiroform, and propriene glycol, slightly soluble in citer

An analgesic and antipyrete with an analgesic action approximately equivalent to that of acetylsabicylic acid There have been no reports of undestrable side-effects such as gastric arritation, subphamoglobinary and metharmoglobingrams. Dore, every 3 or 4 hours, adults 1 g, children, 3 to 7 years 250 mg, 7 to 12 years 500 mg

3 to 7 years 350 mg 7 to 12 years 500 mg Proprisery Mame Calloc, Crast, FCM, RANDOL (Vol 1, 24th Edn, p. 25), PANLEYN, PANTER, PANE TABALGH (Vol 1, 24th Edn, p. 1399), AMADIL (US 34), TALLOON (US 34), sit as a negrellas of ADWIN TABLITS, ADWIN FEDLATIC, ENDLE, FIDELE OF WORDY, IFTDATEYN, LOAN FRAM-BLENT, THOTPHENG, and TYLENDE LEINE, TABLET BLENT, THOTPHENG, and TYLENDE LEINE, TABLET

Parafon Tablets (McNeil Loboratories) Each contains chlorzozazona (q v) 125 mg and paracetamol (q v) 300 mg Muscla relaxant and analgence Dore 1 or 2 tableta 3 or 4 tumes desity.

Parenzyme Aqueous (*Herrell-National*) Lyophilised trypun in visis of 25 mg, to be dissolved for use in aqueous dilorn's ml For tha treatment of animmatory disorders *Dost* in ml, dily by intrumucular appendix. Parenzyme B buccell tablets each containing tryping 3 mg for to use in tonjunction with Parenzyme Aqueous or solne. Dost one tablet 4 times daily

[8] Pargonyl (Roussel) Paromomycus sulphate, available as capsules each containing the equivalent of 250 mg of paromomycus (q v)

Parnate (Smith, Line & French) Tranyloppromine sulphate (q +), available as tablets of 10 mg

[8] Paromornyczin, p Glucosaminedcoxystreptamine D ribosediaminohexose, C₁₂H₄₁O₁₄N₈=-615 7. An antibiotic substance derived from cultures of certain streptomyces apecies, one of which is Streptomy ers rimonus forma peromonycaus

"Parformmycan's used in the treatment of intestinal annochans, bacillary dysentery, silomolious, and other pastro-metatumal infections. It is also employed for pre-operative gut sterilasiton and the suppression durogen-forming bacteria in the gastro metatumal tract of patients with hepsine coma. It is given by mouth and, since it shall be a support without the superstantian of the support of the support virtimize infections.

Towe effect abdominal cramps, pruntus ani, and heartburn have been reported. Larger doses may cause instal constitution, followed by moderately severe diarthors, and prolonged dosage may result in

super-infections by non susceptible organisms. If given by injection in high or prolonged dosage, paromomycin may cause renal damage

Doze for americasis, 25 mg per kg body-weight daily in divided doses for 5 days, for infections by Singella spp and Escherichia coli, 25 to 50 mg per kg body-weight daily in divided doses for up to 7 days, for infections by Salmonella spp and other less sensitive organisms, 100 mg per kg body-weight daily in divided doses for up to 7 days, for preoperative sterilisation of the gut, 500 mg 4 times daily for 4 days, for infections associated with hepatic coma, up to 6 g daily in divided doses for 2 to 6 days Dote for children for amochiasis, 25 mg per kg bodyweight daily in divided doses for 5 days, for bacillary dysentery, 50 to 100 mg per kg body-weight daily in divided doses for up to 7 days.

Proprietary Namer (as the sulphate) HUMATIN, PARGONYL.

[P1 \$4B] Parstelin (Smith Kline & French) Teblets each containing transfeypromine sulphate (q v) 10 mg and trifluoperatine hydrochloride (q v) 1 mg For the treatment of depression with anxiety Date 1 to 3 tablets daily

Pasade (Smith & Nephew) Granules of anhydrous sodium aminosalicylate processed with fat, equivalent to sodium aminovalicylate 96 4% or aminosalicy-he acid 70%

[8] Pasinah-302 (Wander) Cachets each containing sodium aminosalicylate 2 g and isoniazid 50 mg [2] Pasinah-6PH (Wander) Cachets each containing sodium aminosalicylete

1 67 g and moniazid 33 3 mg

(For other Pannah preparations see Vol 1, 24th Edn p 1206)

PASkallum (Glenwood) Potasaum aminosalicylate, available as Powder in bulk and in single-dose 'Envules of 3 g, and Tablets of 500 mg

Pill Pavacol (Ward, Blenkunop) A synp containing in each 100 ml, papavenne hydrochloride 20 mg, pholodine 100 mg, tolu blaum 45 mg, ciore ou 20 mg, wesk ginger unetire 01 ml, anne ou 7 mg, capacitan incurre 04 ml, pepper munt ou 20 mg, glycerm 10 ml, sloohol 21 ml, chloroform 0.25 ml, and this do the second seco [Pil Pavacol Pastilles. Each contains pepaterme hydrochloride 1 mg, pholcodine 4 mg., phenocude 2 mg., tolu balsam 0 9 mg., clove oil 0 4 mg, weak gunger tuncture 0.001 ml, same al 0.14 mg cappicum tuncture 0.004 ml, peppermant ol 0.44 mg, and chloroform 0.003 ml. (Modification of entry in Voi 1, 24th Edn, pp 93-6)

[P1 84B] Peganone (Abbott) Ethotom (q v), available as tablets of 500 mg

[P1 \$4B] Pomoline Phenilone, 5-Phenylisohydantoin 2-Immo-5 phenyloxazolidin 4-one. Call O.N.=176 2

A stimulant of the central nervous system, which is said to have an action intermediate between that of amphetamine and caffeine Pemoline is claimed to stimulate respiration depressed by morphine and to shorten barbiturate anæsthesia Usual dose 20 mg after breakfast and lunch. Proprietary Name KETHAMED

Pempidine Tartrate. Pempidine Hydrogen Tartrate 1,2 2,6,6-Pentamethylpiperidine hydrogen tartrate, CasHaiN, CallaOa=305 4

An autonomic ganglion-blocking agent with an action resembling that of mecamylamine (Vol I, 24th Edn, p 735) but it is more rapidly eliminsted The action of peripidine tartrate lasts 5 to 8 hours. It is used in selected cases of severe essential hypertension and malignant hypertension The hypotensis c effect is enhanced by chlorothiazide. The ingestion

of alkalinising agents may interfere with the excretion of pempidine and thereby enhance its effect

Toxic effects as for Hexamethonium Bromide (Vol I, 24th Edn, p 721) Contra indicated in glaucoma, pyloric stenosis, and uramia Care must be taken when the drug is given to patients with renal disease and cerebral or coronary insufficiency

Dose initial, 1 to 75 mg every 8 hours, the interval being later shortened to every 5 hours and the dose adjusted by increments or decrements of 2.5 mg according to the response of the patient, maintenance, 2 5 to 20 mg 4 times daily

Proprietary Names PEROLYSEN TENDRISAL

[B] Penicillin V Potassium Syrup (Lally) Contains in each teaspoonful (5 ml) phenoxymethy [penicillin potassium 62 5 mg (supplied as granules for reconstitution with water before use)

(B) Penicillin V Suspension (Dutillers Co.) Contains in each teaspoonful (5 ml) phenoxymethylpenetillin 60 mg as the potassium salt. (For other Penetillin V preparations see Vol 1, 24th Edn, p 1445)

Penicillinase. An enzyme produced by many strains of bacteria. The commercial product is obtained by fermentation from cultures of Racillus cereus

Penicillinase destroys penicillin and is used in the treatment of allergic reactions to penicillin, although its action is too slow for it to be effective in immediate anaphylactic reactions. In such cases penicillinase should be injected as soon as possible together with adrenaline and other supports of measures. In delayed reactions to penicilin, pericilinase is best given with concurrent administration of antihistamines or corticosteroids Contra indications penicilinase may act as a protein antigen and ana-phylactic reactions have been reported, patients who have received penicilinase previously should be tested for sensitivity Dose by intramuscular injection, 800 000 units repeated after 3 or 4 days if necessary

Proprietary Name NEUTRAFEN

(PI \$48 El Penutriad (May & Baker) Tablets each containing phenorymethyl penicillin potassium equivalent to 60 mg of free acid sulphadimidine 167 mg , sulphediazine 167 mg , and sulphethiazole 167 mg , and granules for Suspension containing after reconstitution the counsalent of one tablet in each testpoonful (3.6 ml.) For the treatment of infections due to penicillan- and sulphonamidesensitive organisms Dore initial, 2 to 4 tablets or 2 to 4 tespoonfuls of suspension followed by 1 to 3 tablets or teaspoonfuls every 4 to 6 hours

[P2] Penotrane (Ward Blenkinsop) Phenylmercuric methylene bis(2 naphthyl [2] Penduraha (1) and Dimanopy Friengunerence mentyten to the information of a substantial ($S_{\rm eff}$) and $S_{\rm eff}$) now sho swellable as Detergent containing 0 4%, as [7] al) Jelly Urethrait containing 0 05% with enchocaine 0 3%, and es Pessarles, Strong, each containing 5 mg (For other Penotrans preparations see also Constrain, Outram and Vol 1, 24th Edn. p 893)

[P1 \$1 \$4A] Pentothal Rectal Suspension (Abbott) Theopentone sodium in an emulsion of light mineral oil with sodium carbonate buffer 100, supplied in a disposable plastic syringe graduated for a total dosage of 2 g of this pentone sodium in increments of 200 ing

Pentral Tempules (Armour) Controlled-disintegration capsules each containing pentaerythritol tetranairats 30 mg I or the treatment of angune pertoris. Dore one capsule morning and evening

Perdilatal (Smith & Nepler:) Buphenine hydrochlotide, now also evailable as Forte Tablets of 6 mg (See also Vol I 24th Fdn, pp 64 and 1362)

Perihemin Capsules (Lederle) Each contains cysnocobalamin with in trinsie factor concentrate 2/3 U S P unit (oral), ferrous fumarate (q v) 168 mg

folic acid 0.67 mg and ascorb c acid 50 mg. For hypochronic and hyperchronic anamas Dore one capsule three daily with or after meals (Mod field on of entry in Vol $X \ge 24h$ Dar $p \ge 822$)

Perintrate S.A. (Warner) Pentacrythritol tetran trate in sustained action tab lets of 80 mg. For the prevention of attacks of ang ns pectors. Does one table before breakfast and one before the even ng mesil (See also Vol I 24th Lin p 145)

Perolysen (May & Baker) Pemp dane tartrate (q v) available as tablets of 1 mg 5 mg and 10 mg

(P1 44B) Perphenazine (NND) 2 Chloro 10 (3 [4 (2 hydroryethyl) p perazin I yl]propyl]phenothiazme C₁ H₁₁ON₁SCI-404 0

A phenotinizane derwatwe wheth has a depressant action on sub contrad bran centres. It produces sedatom without hypons and has lufte or no effect on blood pressure. It does not potentiate the action of other central depressants such as barbarentes or volatile anascheta It has marked anti ensuite propert est Ir is used chiefly in the treatment of anxiety tension and psychomotor hypersentivity nauses and vomung It is usually administered by mouth but for the numediate relief of acute symptoms it may be given by intramuscular injection.

Toxic dicer, the side effects reported are associated with extra pyramidal dysfunction and usually but not always have occurred at high dosage levels. Common symptoms are dystonia involving muscles of the neck and houlder itermors swollen tongue subvation and blurred vision. These symptoms are said to be reversible on discon tuming the drue.

Contra inducations injections of perphenazine should be given with care to patients with coronary disease or severe hypericasion Per phenazine is contra indicated in patients with leucopenis and in patients being treated with drugs liable to cause depression of the bone marrow

Does by mouth, for sample anxiety and tens on states 2 mg three daily for achievaphrena and acute mane states 8 mg three of four times daily uncreased if necessary to 64 mg daily an divided doses for neuces and vorting 2 to 4 mg three daily By intramuscular upretum 5 to 10 mg every 6 hours followed as soon as the seute symptoms sub side by coal administration

Storage solutions should be protected from light

Proprietary Namer FENTALIN DECENTAN (Ger) TRILAPON (US.A)

Persantin (C If Backmager Solar Germany Pfiker) 2,6-D [dd] bydroxy edvyllamino] 4 d a percharprimido[34 d a)pyrnadine av si lable in Am poulea of 2 ml. containing 10 mg and as Tablets of 25 mg. For necessing the blood flow and the supply of origins to the heart in coronary multillenery Acute property at influence on and anging periors *Data* by promute 23 m 50 mg three property at influence on and anging periors. Bost by results 23 m 50 mg three or three daily

[P1] Pertusa (Boots) L netus for children containing in each teaspoonful ephedinne hydrochloride $M_{\rm MR}$ gram and heliadonna tincture $1/t_{\rm R}$ m mms, with tolu ipecacuanha and c ir cacid For the relief of cough Dote $M_{\rm R}$ to 2 traspoon fuls every 4 hours.

[0 Ft 51] Pethilorfan (Roche) Now also available in ampoules of 1 ml each containing pethidane hydrochloride 50 mg and levallorphan tartrate 0 625 mg (See edito Vol 1 24th Edits 9 531)

Phanquone 11925C Phenquinone 47 Phenanthroline 56 quinone CisH₆O₅N₃=210 2,

Phanquone is stated to be effective in the treatment by mouth of acute and chronic intestinal amounts s and other protozoal infections including giardiasis trichomoniasis and chilomastiziasis It is also stated to have some antibacterial activity *Toxic effects* nausea and vomiting *Dose* 50 to 100 mg thrac daily for 5 to 10 days, repeated if necessary after an interval of 1 to 2 weeks

Proprietary Name ENTOBES.

[0 P1 81] Phenazoczne Hydrobromide. N1H 7519 Phenethylazoczne Bromide 123456 Hexahydro S-hydroxy 26 methano-611 dimethyl 3 phenethyl 3 benzazoczne bydrobromide hemihydrate, C11H1:0N 11Br, 1/H10-4114

A narcuic analgesis stated to have semilar account to morphuse but to course leas respuratory depress on and womings. It may be pointained by phenothazmes and some sedants and analgesise. Dones of phenazones hydrobromules of more than 3 mg may be gyren for severe pain. In obstetre use, the total dose during labour and delivery need seldom exceed 6 mg. When given by paramuscular angeotion it sets in 5 to 20 mm utes and by intravenous injection it acts is selfer lasts for 1 to 6 hours

Tonce effects these are sumilar to those caused by other narcouse drugs and tonce effects so far reported are reparatory depression hypotension brady cardia and consupation Antidoter levallorphan and nalorphine Contra indication summar to those of other narcouses as described under Morphine (Vol 1 24th Edn p 909) The drug must be given with ears to iddetiy and debutated patients

Dose by intramuscular injection, 1 to 3 mg every 4 to 6 hours by intravenous injection I to 2 mg

Proprietary Names NARPHEN PRENADOL (U.S.A.)

Phenazopyridine Hydrochloride 26-Diamine-3 phenylazopyridine hydrochloride $C_{11}H_{11}N_4C1=2497$

Phenizopyridine has a local analessic effect on the unogential mucois and is used in the treatment of initiation enumerical by infection of following instrumentation. It is rap dly clamatsted by the kinkerys and colours the unne orange or red it has also been used top calley as 0 it to 10% solution Taxie effects it has occasionally eaused leadache vert go, coles and in high dosage metharmoglobinarma. Contra validatted in glomerular nephritis unermis severe hepatitis and pyelonephritis of pregnance Doir 2000 ng threise daily before food

Incompatible with medicaments containing mercury silver, or sulphur, and with mineral acids

Propertary Names PTRIDIUM (see Vol I 24th Edn, p. 1197) MALLOPHINA (U.S.A) PHENAZODINE (U.S.A) PTRAZOFEN (Dar.) URIDINAL (U.S.A), it is an ingredient of Vizeruna

(P1 \$4B) Phenelzine Phenethylhydrazine Cali, N.=136 2

A mono amme oxidase ministor stated to be eliferito en the treatment of reactive and endogenous depress on Toxic effects postural lypotension nervousness headache nauses vomiting const pation, dowy meses atsua impoience and depress Owner indications the dring favour be gy en with care to patients with impaired here functions the dring favour be given to dry reduced us a maintenance disciple for the individual patient.

Proprietary Name NARDIL, as the hydrogen sulphate

Phenethylamine Citrate, C.H.,N C.H.O. = 313 J

Phenethylamine citrate is stated to be a sedative with a peripheral action on the autonomic nerious system and to act as an antisparmodic and antihistamine It potentiates the effect of barbiturates Unual dose 15 to 30 mg every 4 hours after food

Proprietary Names at is an ingredient of RYBROL, THEOPHEN and THEOPHEN RETARD

[PI \$48] Phenformin Hydrochloride PEDG Phenethylbicuanide Hydrochloride Nº & Phenethylformamidunyliminoures Hydrochloride N¹ Phenethyldiguanide hydrochloride C10H11N1 HCl=241 7

A hypoglyczemic agent which has been admin stered by mouth in the treatment of most forms of d abetes mellitus and has been found to be most effective in the treatment of stable elderly diabetics who require small doses of insulin Phenformin hydrochloride may also be effective in the treatment of labile diabetes and suvenile d abetes supplemented by insulin although Walker et al (Brit med J 11/1960 1567) consider that its use in juveniles cannot be recommended at this stage Phen formin can be used alone or in conjunction with a sulphonylurea or insulin. If insulin has been given in doses of more than 30 units daily it should be decreased slowly by not more than 10% every 3 or 4 days as the dosage of phenformin hydrochloride is increased.

Toxic effects anorexia nauses vomiting and diarrhers occur as reversible side effects proportionsly to the dose and occur in about 25 per cent of patients receiving more than 150 mg daily. In unstable diabet on there may occur ketonuria and an acidos s which is controllable by the intravenous administration of sodium bicarbonate and not sodium lactate (Welker et al loc cit.) Contra indicated in acidos s coma infections pregnancy and before or after surgery The drug must be administered with caution to patients with hepstic disease

Dose 25 mg twice daily increasing if necessary by 25 mg daily every 3 or 4 days to a satisfactory maintenance dose (usually 50 to 100 mg daily in divided doses) according to response and toxic effects

Proprietary Names Dipotes DB1 (USA)

Phenglutarimide Hydrochloride 10870C \propto 2 Diethylaminoethyl α phenylglutarimide hydrochloride C₂₇H₂₂O₂N₂ HCl=324 9

An anticholinergic agent given by mouth in the treatment of paralysis ag tans and stated to reduce muscular rigidity tremor and excessive secretion of saliva Toxic effects dryness of the mouth blurring of vision tachycardia and difficulty in urinating Contra indicated in glaucoma. The drug should be given with care to patients with prostatic hypertrophy or pyloric constriction Usual dose 10 to 20 mg daily in divided doses Up to 50 mg daily may be given Proprietary Vame ATURBANE.

(Pi 34D) Pheniprazine Hydrochloride JB 516 & Phenylisopropyl hydrazine Hydrochloride N = Methylphenethylhydrazine hydrochloride C.H. N. HCl-186 7

A mono amine oxidase inhibitor which is reported to be of value in the treatment of all types of depress on It can be used alone or in com bination with electro-convuls on therapy Pheniprazine hydrochloride potentiates the action of reserp ne phenothiazines barbiturates and amphetamines

Taxic effects pheniprazine may occasionally cause postural hypotens on Larger doses may also lead to constipation diff culty in unnating increased sweating ordema of the ankles blurning of vision dryness of the mouth skin rashes, insomma, nauses and vomiting, and dizziness

The administration of pheniprazine hydrochloride should be discontinued if a defect of red green colour vision develops Contra indicated in viral hepatitis and liver dysfunction

Dose initial, 12 to 24 mg daily until a response has been obtained usually in 4 to 14 days, after which the dose is halved to 6 to 12 mg and given for a further 14 days, maintenance, the dose is again halved to 3 to 6 mg daily Pheniprazine hydrochlonde may be given in single or divided doses preferably early in the day. It should not be withdrawn abruptly at the end of a course of treatment but slowly decreased over at least one month

Proprietary Names CAVODIL CATRON (U.S.A.)

[P1 \$7] Pheniramine Aminosalicylate Dimethyl(3 phenyl 3 pyrid-2 -ylpropyl)amine p ammosalicylate, CathaNa C.H.O.N=393 5

An antihistamine with similar actions, uses and toxic effects to pheniramine maleate (Vol I, 24th Edn, p 1122) Dors 20 to 50 mg twice or thrice daily

Proprietary Name DANERAL

[P1 \$4B] Phenmetrazine Hydrochloride (BPC) The name approved by the British Pharmacopera Commission for 3 methyl 2 phenyl morpholine hydrochloride For actions and uses see under Preludin, Vol I 24th Edn. p 134 Toxic effects it occasionally causes dryness of the mouth skin rashes, and insomnia Large doses and prolonged treat ment may lead to addiction and severe mental depression Dore 23 mg thirty minutes before breakfast and lunch, and also in the late afternoon if necessary

Proprietary Names PRELUDIN (Vol J. 24th Edn. p. 134), PRELUDIN TAS LONGETS

Phenmetrazine Theoclate R 382 3 Methyl 2 phenylmorpholine 8 chlorotheophyllinate C11H15ON C1H1O,N.Cl=391 9

An anorectic agent with similar actions and toxic effects to phenmetra zine hydrochloride. Usual dose 30 mg

Proprietary Name is is an ingredient of FILON

2 Phenyl tert butylamine az Dunethylphenethyl Phentermune amine, C10H11N=149 2

Phentermine is a very weak sympathomimetic drug with an anorectic action it is used in the treatment of all types of obesity It is claimed that it has a negligible stimulating action on the central nervous system, that it is not cumulative, and that drug tolerance develops more slowly than with other anorectic agents It is marketed as a complex with an ion exchange resin to give a more sustained release of the drug Toxic effects dryness of the mouth and early waking Dose 15 to 30 ing at breakfast time

Proprietary Namer (as a resinate) DUROMINE IONAMIN (U.S.A.)

Phenyltoloxamine Citrate, Phenyltolyloxamine Citrate PRN (2 o Benzylphenoxyethyl)dimethylamine dihydrogen citrate, CitlatON, C.H.O.=447 5

It has the general properties and uses of the antihistamine drugs as described in Vol 1 24th Edn p 1102 Toxic effects average or large doses may cause drowsiness dryness of the mouth, nausea vonuting dizziness and nervousness

Dose 25 to 50 mg 3 or 4 times daily

Proprietary Names ANTIN (Dan) BRISTAMIN (IJ S.d.) it is an ingred ent of RINUREL, Phenyltoloxamine is an ingredient of PHOLTEX.

Phisobex (Bo)er Prod) Herschlorophane 3% in an emuls on containing landin white soft paraffin and a detergent. For cleansing and disinfecting the skin

[P1] Phoftex (Riker) A mixture containing in each traspoonful (4 ml) phofeo dine 15 mg and phenykolozam ne (see phenykolozamine cirtate) 10 mg both in the form of ion-exchange resin complexes for sustained release. For use as a cough suppressint, Date one tesspoonful on retining and on rising.

Phyldrox Suppositories (Carlton Laboratories) Each contains aminophyl 1 ne 360 mg for adults or 150 mg for children

(#1 444) Phyldrox Tablets (Carlton Laboratoric) Each conta na theophylline (28 mg epiceline hydrochonde 25 mg and phenobarbitine 8 mg supplied Plans for prompt exton and Eateric Costed for delayed exton For the symptomatic rel ef of sathma and hay fever Date one plan tablet three daily or as required one plan tablet and one coated tablet on erting

Phytomenadione The pame approved by the British Pharmacopicia Commission for phytonadione-see Vol I, 24th Edn p 874

[0 Pt 81] Pipadone Compound Tablets (Burroughs Wellcome) Each contains dipipanone hydrochloride 25 mg and cyclenne hydrochloride 50 mg. For the rel of of pain Dois $\frac{1}{1}$ to $1^{2}f_{1}$ tablets every 6 hours. (See also Vol I 24th Edm p 353)

[F1 54B] Pipamazine, 10 [3 (4 Carbamoylpiperidino)propyl] 2-chloro phenothiazine CaiHatONaSCI=402 0

A phenothizzne derivative which acts as an ant emetic and is used in the treatment of the nauses and vomuing of pregnancy it has ittle tranquilising effect in normal doses it is usually given by mouth but has been given by intramuscular injection in doses of 5 and 10 mg in the treatment of post operative vomiting

Tone effect pipamazne may have the side-effects characteristic of phenohaznes such as drowness or chostate hypotension depression of bone marrow, and extra pyramidal effects on high donsge Contra indications depression of hemopotents function. Pipamazne should be used with caution in patients with hypotension or for patients taking other duras which depress the central nervous system.

Dose according to the needs of the patient. The usual dose is 20 mg da ly in divided doses

Proprietary Name MORNIDINE.

Pspazothato Hydrochloride. 2 (2 Piperidinoethory)eth) [9 thia-4, 10-diaza authracene 10-carboxylate hydrochloride, $C_{11}H_{11}O_{1}N_{1}S$ HCI= 436 0

Pipazethate is stated to be an anistussive agent which acts on the cough centre and does not depress respiration. It is claimed that pipa zethate has no side effects or contra indications. Done 20 to 40 mg 3 of 4 times daily

Proprietary Name SELVIGON

[91] Planidots (May & Baker) Lorenges each containing dibromoproparaid ne cmbonate (q v) 1 mg chlorphenott um simonate (q v) 1 mg and butyl simuloterzoste 4 mg For the relief of painful conditions of the threat and mouth Doze one lozenge to be sucked every 3 hours total daily dose 4 to 6 lozenges.

Plaquenii (Boyer Prod.). 11 droxychloroquine sulphate (q v.) available as tablets of 200 mg (Mod f cation of entry in Vol. I. 24th Edn. p. 1171)

Pleniron (Kerfoot) Ferrous aminoscenosulphate staliable as a Liquid conta u ng 170 mg (equivalent to ferrous non 30 mg) in each mL and as Tablets of 225 mg (equivalent to ferrous non 40 mg) For the treatment of ston deficiency snammes Dose unstal, 30 drops of liquid 3 or 4 times daily or 2 tablets to use or thrace dealy for 10 to 14 days maintenance, 20 drops of liquid twice daily or 1 or 2 tablets daily

Plesmet Syrup (Coster & Coster) Contains in each tesspoonful ferrous amnoactrosulphate equivalent to 25 mg of Fe and ancurne hydrochloride 1 mg For the treatment of tom defisience yansmuss Dave to 2 tesspoonful twice or thrace daily children ¹/₂ to 1 tesspoonful twice daily (For Planet tabless set Vol 2 42th Edn p 1360)

Polybrene (Abbott) Hexadimethrine brounde (q v) available in ampoults of 10 ml containing 10 mg in each ml

Portyn (Parke, Daver) Benzionnum bromude (q v) available as Kapseals (capsules) each containing 10 mg

[8] Potassium Phenethicillin, BRL 152, Penicilin 'B', Potassium a phenoxyethylpenicilin. Potassium 6 (a phenoxypropionanido)penicillanate, C., Hi, Q.N, SK-402 5

An authorize which is administered by mouth and which has a similar authorizent alcoin to phenorymetrypometilian and henzy plennilian, but which has been stated to be acrue sgamst some prendim resistant organism notably staphylococce. Fokssium phenchiculian and papers to be slightly less effective against streptococce and pneumococc than phenosymethylpencilian and bensylpencilian and very much. Itse effective sgamst *Hemosphalu nylames* and *Proteu* than henzylpencilian (Garrod, *Brut ed. 7*, 1/1960, 527). In a study of the relative seturity of phenosymethylpencilian points of the distribute seturity of phenotechical phenosymethylpencilian points and the seturity of the two drugs on strans of *Slaphylocecu aseas* which produce pencellnarse.

Toxic effect duarhars Contra indications it should not be given to patients sensitive to penicillin. It is not recommended for chronie or deep seated infections such as subacute bacterial endocarditie, meningties or synchilis.

Usual dose 125 to 250 mg three daily Doses of up to 500 mg may be given for more severe infections

Proprietory Names BROSIL ALPEN (USA) CHEMIPEN (USA) DARCIL (USA) DRAMCILLIN 5 (USA) MARIPEN (USA), STACILLIN (USA) Note Strailin (Ges) contoms poletanium benzylpenailin und sulphonamulet

[B] PreCortisyl (Round) Prednisolone available an solution in water miscible vehicles as a Skin Cream containing 0.25% or 0.5% in tubes of 5 g and 15 g, and as a Skin Lotion containing 0.25% For prioritis and dermatuus [B] PreCortisyl Intravenous (Round) Prednisolone 21 hemasucenate, in

[10] Predicational Interacences (Remoth) Predessolate 21 hornauscentate, in supported et 31 million echo consumer 25 mg masshorma solution solution to be mini-term and the second solution of the second solution second solution second solution second solution second solution solutions and the second solution second solution second solution second solutions (as a second solution second solution second solutions) and second solutions (as a second solution second solution) and second solutions (as a second solution second solution) and a second solution second solution second solutions (as a second solution) and a second solution second solution second solution (as a second solution) and a second solution second solution second solution (as a second solution) and a second solution second solution second solution (as a second solution) and a second solution second solution second solution second solution (as a second solution) and a second solution (as a second solution) and a second solution second solution (as a second solution) and a se

(For other PreCortus) | preparations see Vol 1, 24th Edn pp 497 and 495)

[11] Prednelan (formerly known as Delts Ef Cortelan) (Glazo) I reducedone available as tablets of I mg and S mg (as the acciate)

[B] Predneian N Injection (Glass) Contains predisione actists 25 n g and neomycan subplate 5 mg in each mi available in ampoules of 1 ml and in visia of 5 ml For untra structule supercose in the resturent of theumatoid arthruts oules arthruts traumatic arthruts gouty arthruts, and burnuis Dore 1 to 6 ml [4] Predsol (Gázo) Prednasolone disadum phasphate available in the following preparations for the treatment of uniformations a Crearin containing 0.25% or 0.5%, an tubes of 5g and 55g. Drops for Eye or Ear containing 0.25%, or 0.8% or 10 and 10 and 10 and 18 yo Onitment containing 0.5% in tubes of 3g a Lotion containing 0.1% or 0.25% and an Olintment containing 0.25% or 0.5% or 10 base of 5g and 5g.

[3] Predsol Injection (Glazo) Predintolone disodium phosphate in ampoules of 1 ml each containing the equivalent of predintolone 20 mg. For the treatment of acute adrenal failure in severe shock and adrenal crises as in Addison a disease and Summonds a disease Dore mutal 1 to 5 ml repeated until resposite occurs maintenance 1 ml at autuble instrails.

[3] Predsol Nasal Drops (Glaxo) Contain predatelone d sodium phosphete 0 1% in isotonic buffered solution. For the treatment of hay fever and rhunus

[8] Predsol Betenition Enema (Glazo) A buffered solution of predissolone dissdum phosphate containing the equivalent of predissolone 20 ng in 100 ml. in a disposible plastic bag with sectal table. For self administration in the treatment of ulcerative colus.

[B] Predsol Suppositories (Glaze) Each contains prednisolone 5 mg as prednisolone disodium phosphate For all forms of procting.

[B] Predsol N (Glazo) Cream, Drops for Eye or Ear, Eye Omiment, Louon, and Omitment, as the corresponding Predsol preparations (above) with the ad duton of neonycan sulphate 0 5% For the treatment of infismmatory con diutons when infection is present or suspected.

[B] Predsol-N Nasal Spray (Glaxo) Contains prednisolons disodum phos phate 0.025% neomycin sulphate 0.5%, and naphazoline nitrete 0.025% in squeous solut on. For inflammatory allergic cond tions of the nose

Prefacese (Thrapenic Products Faust & Johnson) An effervescent powder containing in each avoirdupois ounce paracetamol $(q \vee)$ 1 g assorbic acid 100 mg and dectrors monohydrate 23 For influenze leventh colds and hecdaches Dose 1 to 3 level desserspoonluls in a tumbler of water every 3 or 4 hours.

[Pi \$4D] Preludin Tablongets (C H Boelringer Sohn Germany Pfizer) Phenmetrazume hydrochloride (q v) in long acting tablets of 50 mg

[91] Fratan (k-mil Haurschied London) Tablets such containing (-)2immo-34 duments 5 phenythicased dume througevents 15 nm epicerium duceysmate 15 nm e theophyll ne 50 nm and phenazone 400 nm Solution for inhistion and ord use containing (-)2 tuments -4 dumentyl 5 phenyllatazol dume theophyllin 7 ylacetite 30 nm and epicetime theophyllin 7 ylacetite 30 nm in esch g Autopotten of 1 nd containing (-)2 tuments -4 dumentyl 5 phenyllauzolaiae theophyllin 7 ylacetite 30 nm and epicelinue theophyllin 7 short the section of 1 nd containing (-)2 tuments -4 dumentyl 5 phenyllauzolaiae theophyllin 7 ylacetite 30 nm and epicelinue theophyllin 10 kes followed by 71 for 10 hild terservit must easily solution 10 kes 20 disposineom fluid 3 or 4 tumes duly ampoutes one supected subcutaneously or, in stevere cases 2 to 3 ampoutes intravenously

[1] 1411] Primodos (Scherng A G., Briton Pharmethicals London) Tablets each conta nong norethusterone acetale (see norethustrone) 5 mg and ethinyl cristiadiol 0.01 mg For early diagnos a of pregnancy and for the treatment of amenorrhose

[91 34B] Primogyn Depot 100 mg (Scienng A.G., Brian Pharmethicals London) (Estrad ol undecennate studiable as a desa ol y solution containing 100 mg per mi in ampoules of 1 ml For the long term treatment of prostant cancer Dave one ampoule every 3 weeks by intramuncular injection. (For Pringym Depot ites Vol. 1 24th Eak p 961)

[P1 \$4B) Primolut N (Schering A G Berlin Pharmethicals London) Noreth sterope (q v) available as tablets of 5 mg (For Primolut Depot res p. 277)

[P1 44B] Primosiston (Schering AG, Berlin Pharmethicalt, London) An injection in ampoules of 1 mL each containing hydroxyprogesteronce exposute (q_{i}) 1/25 mg and estrated berzoate 10 mg in solution in a mixture of castor oil and benzyl benzoate For the treatment of functional uterne bleeding due to cyture glanduist hyperplasm 2 Date 1 mL hy intermuscults injection

Prepsen (Westminuter Laboratorie) Granules containing in each full dose (160 grans) piperazine phosphate 4 g and standardised senna (containing 28 mg sennousdes A and B) For the treatment of threadworm and roundworm infestations Dose adults and children over 6 years, 4 teaspoonfuls, children under 6 years 210 3 teaspondius, fellowed by a drink.

[PI 54B] Fro Banthine with Dartalan (Scorle U.K.) Tablets each containing propantheline bromule 15 mg and thoproparate hydrochlonde (q = y) a mg for the treatment of pepte udics and functional dyspepts as and anxiety tension states presenting gastro intestmal symptoms Date 3 to 5 tablets daily (For other Pro Bentime Proparations use Vol J, 24th Eds. p. 224)

Procelium Dusting powder (Genatoran) Contains zine undecenoate 5%, and sodium propionate 5% in an absorbent powder basis Antiny cone,

[P1 543] Prochlorperazine Maleate (N N D) 2-Chloro-10 [3-(4 methylpiperazin 1 yl]propyl]phenothiazine dimaleate, CaoHatNaSCI,2CaHaOa =6061

A phanothazine derivative which has actions and uses similar to ehlorgromazine but which is 4 to 5 times a potent. It produces less hypotension than chlorgromazine, its potentiating action on other depresants of the central nervous system, its antispasmodia activity, and its anthistamune activity are less than those of chlorgerazine its given by mouth in the treatment of nauces and vomiting, neuroses, and mild emotional disturbances. It is also used in the treatment of Menkre's synchrose 1 fur also demonstread on a chlorgherazine donasi at a used in severe paychastric disorders such as chlorghtrathy, main and perspose if it may be administered in the form of a suppository

Taxic effects, antidotes, and contra indications similar to those of other phenothizane compounds, as described under chlorpromazine (Vol I, 24th Edn, pp 336 to 390)

¹ Date for mild embound disturbances, nauses and vomiting Ménutery syndrome, and an surd veropo, 5 to 10 ng utree or four times dialy, adjusted according to the response of the patient. For psychoic patients in hospital, 10 nm three of tour times dialy mercased gradually if accusary the issual effective does as 75 to 125 mg dualy. For easter magnane a ningle does of 20 mg followed n 2 hours if necessary by a further 10 mg. For children weighting 20 to 29 hg, 25 mg once or twate dialy, max 7 5 mg dualy, 30 to 39 hg, 25 mg twate or thince dualy, max 10 mg dualy, 40 to 35 hb, 25 mg three dualy to 5 mg twice dualy, max 15 mg dualy.

Proprietary Names STEMETIL, COMPARING (U.S.A.), TEMENTIL (Fr.).

[F1 MB] Prochlorperazine Methanesulphonate. 2-Chloro-10-[1-(4 methylpperazin - 1 - y1) propylphenothuzine dimethanesulphonate, Cu₂HL₄(N, SCI 2CH, O, S = 566 Z.

A water soluble salt of prochlorperazine which is suitable for deep intramuscular injection. Actions and user, toxic effects, and contraindications, as for Prochlorperazine Malaete Usual dose 25 mg twice or thrace daily by deep intramuscular injection.

Proprietary Names STEMETIL, TEMENTIL (Fr)

[P1 81 2] Proctosedyl (Roused) Ointment and Suppositories each g of ontment and each suppository contains canchorains hydrochloride 5 mg.,

250

hydrocorusone 5 mg and framycetin sulphate 10 mg For the treatment of hamorrhoids (Modification of entry in Vol I 24th Edn p 1397)

Proxyphylline 7 (2 Hydroxypropyl)theophylline C10H14O2N4 == 238 3

A theophylline derivative which is stated to act as a coronary vasodilator and bronchodilator and to have little or no gastric s de effects. Usi al dose by mouth 120 to 480 mg 3 or 4 times daily by intramuscular or intravenous intection 150 to 300 mg

Proprietary Names BROWTYL PUROPHYLLIN (Suns) THEON (Swed.)

[P1 MB] Prozine (B3 psh): Capulles each containing meprohamate 200 mg and promature hydrochloride 25 mg. For the treatment of severe resistant neuroses mild psychot e d sturbance and the vomining of pregniney. Dote for neuroses 1 or 2 capsules 2 to 4 times daily for scalle states 1 or 2 capsules twice or thince daily for vomining of pregnancy. I capsule one twice daily of the daily for vomining of pregnancy. I capsule one to twice daily

[P1] Pseudoephedrine Hydrochloride d-y Ephedrine Hydrochloride, d Isoephedrine Hydrochloride (+) 2 Methylamino 1 phenylpropan 1 ol hydrochloride C gHy_0N HCI-201 7

A nasal decongestant and bronchodilator

Proprietary Name SUDAFED (USA) t is an ingredient of ACTIFED and ACTIFED COMPOUND LINCTUS

Pulmodrine Expectorant (Medo Chemicale) Contains in each 4 ml, guai phenesin $\{q, v\}$ 50 mg and methylephedrane hydrochloride 0.5 mg For the sumulation of expectorsion n bronchial existrit Dous $\frac{1}{2}$ to 1 tablespoonful 3 or 4 ume da ly ch liters $\frac{1}{4}$ to 1 tespoonful

Pulvogen Dusting powder (Genetosan) Conta as hexachlorophane 0 25% ichthammol 2% and z ne uzude 4% an an absorbent powder bas s Tor inter tings hyperh drons and the prevention of bedstores and naph in rath

[3] Pariomyn (Calmo) Tabjets each coult mag neonyona subjets 5 mg and 6 (Schlorz 5 Morzynheny) subjet 6 + 00 mg. For the related of sore through and the prevention of monal al infections in pair rate rate, rang table been fill Prezimies BD (Stark 6 Molecul) Call Prezimies BD (Stark 6 Molecul) Call (For other BD (Stark 6 Molecul) Call (For other Processing stark 6 Molecul) Call (Star 1 and a solution atomicality 1 5 g in tubes of 8 for douse of 4 to see day) (for other Processing stark 6 Molecul)

Pyrazinamido (Mer & Sharp & Dohme), Available as tablets of 500 mg (See Vol I 241) Edn p 1208)

181 17) Pytrobutamine Phosphate (VND) 1 (4-p Chlorophenyl 3 phenylbut 2 enyllpyrrol dine diphosphate CasHatNCl 2H, PO4=507 9

An ant histamine with a low incidence of redail e and other s de effects Dore 15 mg 3 or 4 times daily

Proprietary Name til an ngred ent of Co PTRONIL.

Pyrvinium 6 Dimethylamino 2 [2 (2 5 dimethyl 1 phenylpyrrol 3 yl)vinyl] 1 methylquinolinium CasHa Na=382 5

An anthehmning used in the prestment of thread some infestations (oxyunas 3) it is however not sufficiently active to be used against roundworm infestations (ascansa s) It was first used in the form of Pyrronium, Chorido-see y (0) I 24th Lab p 1386-and treatment for 5 to 8 days was necessary It as here marketed as Pyrinium Embon ato (Pyrron Parnote it 10 γ A) and since a single does of the emhonite clears the m aporty of threadworm infestations the sailt is no v more commonly used

Toxic effects are not serious but may include Lastro intestinal irrilation nausea and somiting Contra-nd ration: it should be used with care a pauents with receal or hepsite damage. Dose of pyrunium chloride 1 5 to 2 mg per kg body weight daily in divided doses for 5 to 8 days Dose of pyrunium embonate a single dose of the equivalent of 5 mg of base per kg body weight.

Proprietary Name: of pyrvinium chloride Pooint (USA) of pyrvinium embonate Vanguin (UK and USA) Povan (USA)

[P1] Quadran (Burrows Lykow) Tablets each containing bendrofluzzide (q v) 0.5 mg homatropane methylöromode λ mg, extract of valeras BP C, 1934 10 mg and paraestanol (q v) 250 mg For the treatment of premenstrual tension and period param Dore 1 or 2 tablets three daily at the first sign of dis comfort max. 6 tablets daily

Quantral (Trecend) Capsules each containing caffeine citrate 250 mg., peppermant oil 53 mg aneurine hydrochlonde 2 mg, and chlorophyll 3 3 mg For the relief of mild depression and anxiety states. Dose one capsule three daily after food

[P1 \$4B] Rastinon (Hoechst Horlacks) Tolbutamide (q v) available as tablets of 500 mg

[PI 34B] Rautrax (Squbb) Tablets each containing hydroflumethisside (q v) 50 mg rauwolfia (whole root) 50 mg, and potassium chloride 625 mg For hypertension Doze initial, 2 to 6 tablete daily minitenance 1 or 2 shiles daily

Redoxon Effervescent Tablets (Roche) Each contains ascorbic acid 1 g (For other Redoxon preparations see Vol 1 24th Edn p 194)

[Pi 37] Refagan (F.B.A. Phormaceuticals) Tabless such containing esticy lamide 200 mg phenaeetin 200 mg andydrous eaffens 50 mg and methydrolina naphtikalen 15 disulphonate (q v) 15 mg. For colds, nulternas and caurth of the upper responsiony tract. Dose one tablet three duity in severe infections, 2 tables 3 or 4 tames duity.

[Pi 31] Renotin (*Blacke*) Ethylmorphine hydrochlonde 1°, in a colloidal rel basis For the treatment by iontophorens of migraine, neurits lumbage, scatter and myalgia

Rheumaprin (Ruchter) Tablets each contanung toluble and ran equivalent to acetylsalogile caid 5 grans salecilatuide 2 grans and aneuran hydrochloride 10 mg For the treatment of rheumauc condutons and the relief of psin Dote 3 to 6 tablets daily crushed and taken with water, children, one tablet when required.

Rheusalate (Willows France) A water soluble paste contain ng diethylamine salecylate 10% sal cylamide 2% and ethyl nuceunate 2°. For the rel ef of pun due to fibrositie sprants and atranus

[B] Rhinocort (Lents & Burrows) A nesal apray containing phenylephrine hydrochlonde 0 12% sphedrine hydrochlonde 0 5% predateolone 0 01% and neomycan sulphate 0 06% in an aqueous vehicle. For inflammatory conditions of the nose

Rhomer (Roker) Experiance strike, available is an Elizit containing 18%, and as Tablets of 300 mg For the treatment of threadworm and roundworm infestions. Dues threadworms 2 tempooffuls of elizit or 4 tablets inter duily children one tempoofful of elizit or 7 tablets one to three day a scoreding to age Roundworms 2 tempooffuls of elizit or 4 tablet three duily children. One tempooffuls of elizit or 4 tablet three or third elizit of the age Roundworms 2 tempooffuls of elizit or 4 tablet three or three duily according to tage to 2 tempooffuls of elizit or 2 to 4 bables times or three duily according to tage

[P1] Raddovydran Elizie (Raddil) Commans methlephednen 10 mg drostra lagud extract 03 ml guauphenema (q γ) 63 mg uncture of chloroform and morphane 05 ml. accorbe acd 63 mg and tola syrup to 3 ml 'ror subma and bronchutu Dase one teaspoonful every 3 hours and at brillame (For other Ruddory drn preparations see Vol. 1 2416 Edg PA 83 and 310

Riflavin Tablets (Brook, Parker) Each contains riboflavine 10 mg

[P1] Rikospray Benzocalne (Rikr) An acrosol conta mng benzocane 20% and cetyloyridinuum chloride O 1° in a water muscible basis Limolijent and analgesic for top cal application is muscues membranes. Rikospray Silicone (Riker) An serosol containing aluminium dihydroxy allantomate 0.5%, cetylpyridinum chloride 0.1%, and terpineol 1.0%, in a subcone velucle. For the prevention and treatment of bedsores and napkin rash and protection of coloriomets and ileostomizes

Rinnel Tablets (*Worney*) Each contains paracetamol (q v) 150 mg., phenacetin 150 mg, phenylpropanolamine hydrochlonde 25 mg, and phenyl oloxamine curate (q v) 22 mg. For the treatment of common cold, sinusita, hay fever, and thinorrhea. Dore 2 tablets mutually, then one every 4 hours, children from 6 to 12 years, half the adult dose

Ristocetin (N.N.D.) Animicrobial substances produced by Nocardia lurida,

Two crystalline components have been isolated ristoctin A and ristoctin B. This antibiotic is effective against a wide range of staphylococcal, pneumonoccal, and streptococcal infections by Streplococcal facility, particularly baterical endocristics, it is atomistical by slow infrarenous drip in isotomic saline or destrose solution as a 2 to 25% solution.

Take effects cosmophils, thrombocytopens, depression of white cell count and relative neutropens, skur rish, alterge resitons, free, durbtos, and thrombophlebins if the drug is administered in too high a concentration or too quickly Contra indications it is advisable to give lower doese to elderly patients, to infants, and to patients with read dysfurction

Date, expressed in terms of instocetin A, daily in divided doses every 8 to 12 hours 25 mg per kg body-weight, for severe infections, initial doses of 50 to 75 mg per kg body-weight are advisable

Storage there is claimed to be no significant loss of potency in solutions stored at refrigerator temperatures for one month.

Proprietary Names RISTON SPONTIN

Riston (Imperial Chemical Pharmacrusteals) Rustoceum A and B (see above), available as a sterile powder in visils containing the equivalent in activity to 500 mg of ristoceum A.

Risunal (Gesslech) An continent containing 5% of \$-diethylaminobultyr aniske hydrochloride (C₁(I₄ON₁)ICI=210 8, s local anartinetic), 3% of proprintenzone (2,3-dimetriy) I-phenyl 4 isopropylprinzol 3-one C₁(I₄ON₁ =220 3) 1 3% of entryl incontaste, and 3 5° of benryl ancouraste. For the creatment of hirotexise, theumatum, and alloc condutons

[21 44] Rohazin (Kohns Co) Methocarbamol ($q \vee$) stability as Tablets of 500 mg, and as Robazin Injectable us ampoults of 10 ml each contampng methocarbamol 1 g Contra anducarbow. Robazin Injectable should not be given to patients with renal dysfunction because of the presence of polyethylene givel 500 m the vehicle

Robitussin (Robins Co) An expectorant muxture containing in each teaspoonful (5 mi) guauphenesin ($q \neq$) 100 mg Dose 1 to 2 teaspoonfuls every 2 to 3 hours, children, $\frac{1}{q}$ to 1 teaspoonful three daily.

Rolleton (Searle U.K.) Amisometradine (q v), available as tablets of 400 mg

[B] Rovamycin (May & Baker) Spiramycin now also evailable as Capsules of 250 mg (See also Vol. J. 24th Edm. p. 1449)

Rovigon (Rache). Tablets each containing vitamin A palmitate 16.5 mg (30 000 units) and tocopheryl acetate 70 mg. For use as a vitamin supplement in old age, Doie one tablet 3 or 4 unes daily

Rubraton-B (Sgubb) An clinir containing in each tempoonful (5 ml) fetric ammonium citrate 170 mg colloadal ferme hydroxide 19 5 mg, cytaocobalamin 4 μ g, anceutine monomirate I mg, ribofavine I mg, nicotnamide 5 mg, pantotheme acid 1 5 mg, pyridoxine bydrochloride 0 5 mg, and alcohol 12% For azarma promotion of growth, and mild vitamin B complex deficiencies. Dois children 1 to 2 tearpoonfuls three daily (For Rubraton ice Vol I, 24th Edn, p 526)

(P1) Ruticam (Robert) Ampoules containing in 2 ml procaine hydrochloride 100 mg soluble rutin 50 mg, and cyanocohalamin 15 µg in a bullered isotonic solution F or the treatment of menals and physical deterioration due to ageing

[P1] Rybarex (R; bor Loboratons) A liquid inhalant containing adreading 0.4%, pituitary (positraro lobe) extract 0.2%, atrophue methodizate 0.1% paywerine hydrochlonide 0.0%, benzoarene 0.2%, and fur indophenol 0.1% in a salare basis For the relief of bronchial asthma, bronchuits, and bronchial catarth (Modification of entry in Vel J, 24th Edin, p. 48).

[91] Rybartylin (Rybar Ledoratorei) An inhistant containing adrenatine $0.4\%_c$ pitutary (posterior lobe) extract $0.2\%_c$ stroppic methonitrate $0.1\%_c$ papaverne bydrochloride $0.08\%_c$ and bernzoeane $0.2\%_c$ For the relief of astimma. (Vodificution of entry in Vol 1, 24th Edn, p 49)

[P1 81 84A] Rybrol (Rybar Laboratoriet). Tablets each containing phenethylanune citrate (q v) 4 mg dexamphetanune sulphate 2 5 mg, phenobarbitone 8 mg, theophyline 120 mg, and epbedrine hydrochloride 25 mg. For asthma suscented with anxiety Dose 1 or 2 tablets every 4 hours

S7 (Calmic) Di(S-chloro-2 hydroxyphenyl) sulphade, available as a Cream contraining 1%, for fungous infections of the slin and mucous membranes as S [clip containing 1%, for the treatment of oral thrush outs externs and othis media, and as a Powder containing 1%, for schletes foot and shied fungous infections

[PI HB] Salupres (Merck Sharp & Dohme) Tablets each containing hydrochlorothamde (q v) 12 5 mg, reserpine 0.0625 mg, and potassium chlonds 572 mg For the treatment of mild to moderate hypertension Dose 2 to 8 tablets daily

Saluric (Merch Sharp & Dohme) Chlorothazide (q v) svailable as tablets of 500 mg

[P1] Sancos (Sandoz Product:) A lanctus contisting in each tesspoonful (4 ml) pholeodine 4 mg, menthol 0 38 mg, glycerin 600 mg and syrup 4 2 g 1 or the treatment of unproductive cough Done 2 tesspoonfuls

[P1] Savion Antiseptic Lozenges (Imperial Chemical Pharmacenticali) Each contains chlothexidine hydrochloride 5 mg and benzocuine 2 mg For the treatment of mouth infections, sore threat, and largingue

Savion Hospital Conceptrato (Impered Chemical Pharmatrutuch) A concentrated antisectic solution for general purposes, containing chlorheridine gluconate (q v) 1 5% and cetturing 15%

(For other Saulon preparations see Vol 1, 24th Edn, p 366)

[P] Bi US-Chernproct (Scherug A G. Berler Pharmethicali, Londow) Olintmeth continuing previouslone of 95%, encheckame hydrochloride 05%, herachlore phane 0.5%, and clemizole undecensors 10%, and Suppositories rath containing previouslone 1 any, canchocame hydrochloride 1 mg, herachlore phane 25 mg, and clemizole undecensors 5 mg. For hiermorrhoids pruntis and, and and heuret.

Scorvite (Wigglesworth Ltd) Effervescent tablets each containing ascothic acid 500 mg

(P1 \$40] Secergan (Astra Heulett) Trunethyld phenothaun 10 -ykasbonylethyljammonum bromde, available as tablets of 150 mg For the treatmet t of peptic ulcer, gastritis and apastic colstis Dose 1 of 2 tablets J or 4 tunes daily

Secretin (Boot) Visis each containing 80 to 100 units of secretin, the internal secretion of the duodenum, in the form of a dry powder to be dissolved in 10 ml of Wester for Invection For use as a diagnostic agent in parcicastic and gail bladder dyfunction. (For Secretian Method see Vol. 1 24th Edm of 1397) [P1 \$48] Secretarian (British Drug Houses). Dimethisterane (q v) available as tablets of 5 mg

[P1 \$1 \$4A) Sedasma (B.M Laboratories) Enteric-coated tablets each contain ing aminophylline 125 mg amylobarb tone 8 mg and hydraue hydrobromide 0 1625 mg. For the treatment of cardiac asthma Doise 2 tablets thrice daily preferably before meals

Selora (Exper Fred) A soduum free salt substatute containing potass um iodide 001%, hydrated calcum subsets 1% glutume acid 13% potassum glutumate 561% and potassum chloride 92 05% (Replaces Neoselarom, Vol 1, 24th Edn p 1221)

Selvigon (Smith, Klue & French) Pipazethate hydrochloride (q v) available as a Syrup containing 20 mg in each teaspoonful $\{3.5 \text{ ml}\}$ and as Tablets of 20 mg

[Pi tell] Serpasal Endrezs (Che) Tables each containing reserves 0 15 mg and hydrochlorokuzed (α_Y) 10 mg. For the treatment of hypertensions Serpasal Endrezs K tableta have the same composition with the adduton of posissium chloride 600 mg enclosed within an enterior cast to avoid pasteric tritistion. Date 2 to 3 tablets daily (For other Serpasi preparations see Vol I Juh Edn p 160)

[2] Sigmamycin Syrup (Pfizer) Contains in each teaspoonful (5 tril) tetra cycline 83 3 mg and oleandomycin 41 7 mg Dose 2 teaspoonfuls every 6 hours. (For Sigmanycin copruls itse Vol. 1, 24th Edu, p. 1470).

Silbelax (Silter) Tablets each containing dioctyl sodium sulphosuccinate 100 mg and phanolphthalein 32 mg For the treasment of consupation Dose 1 or 2 tablets at bedune

(PI \$4E] Sinaxar (Armour) Styramata (q v) available as tablets of 200 mg

Shefron (Smith Klow & French) A randit everymann layed consuting of deblorodium correctance (CCL, F=120 9) 15% and trailordoucomethace (CCL, F=137 4) 85%, contained under pressure in a metal cansier futed with an oulet value designed to ever this content in a fair pct, which reaches the an oulet value designed to every the content of the second the content of the second second second second second second tend of the second second second second second second tend of the second second second second second second second realistic second second second second second second second second realistic second second second second second second second second second realistic second s

Sodium Anozynaphthonate Trisodium 4 anilno-8 hydroxy 1,1 azonaphthalene 3,6,5 -trisulphonate, C_3 , $H_{14}O_{18}N_3S$, $Na_1=695$ 6

A dye used in the intestigation of cardiovaicular functions by a dyediutoto technique and an estimation of dye an the plasma. The dye is at first retained in the vacular system and concentrations in blood and plasma can be readily determined, the nutual half like of the dye in plasma is 15 to 30 minutes. The dye is removed from the serum proteins by the liver where it is broken down and partyl excreted by the blue Colouriess metabolites are excreted manify in the unne. The dye does not trum the sim blue *Toxie effecti* naises, vomining, and rigon have been reported in some patients with single doses of 250 mg or more *Dass* 50 in 100 mg mays be repeated several times up to satiol of 500 mg

Proprietary Name COOMASSIE BLUE.

Sodium Ipodate Sodium β -(3-dimethylaminomethyleneamino-2,46 tri iodophenyl)propionate, $C_{12}H_{12}O_3N_3I_3N_5=620.0$

A contrast fieldum used in choice;stography and choiangography Tone effect occasionit nauses, vomining distributes and utursarial kinn reactions Contra indications is should be given with care to patients with liver and leading disasses, Garase as disease, and rodine hypersteniation, for fractionated choice;statagography, an additional doise of 3 g early in the moming 3 hours before the extension, story, for log congorithm of the story of the story of the story of the story of the moments of the story of the story of the story of the moments of the story of the st 6 g early in the morning to the fasting patient 2 to $2^{1}/_{s}$ hours before examination

Proprietary Name B LOPTIN

Sodium Ironedetate Ferne Monosodium Edathamil The hydrated iron chelate of the mono sodium salt of ethylenediaminetetra acetic acid Cieling, Na, Reise Hajo-385 f

Sodium ironedetate is used in the treatment of all forms of anamua due to iron deficiency *Toxic effects* gastro-intestinal irr tation occurs less frequently than with many other iron preparations but occes onal nuld nauses or diarthose may occur particularly with higher dosace.

Dose 200 to 400 mg thr ce daily

Proprietary Name SYTRON

[B] Sodium Methicillin. BRL 1241 Dimethozyphenecillin Sodium Methiculin Sodium Sodium 6 (2 6-dimethozybenzamido)penicillanate monohydrate C, Hi, O. NSN 8 Ho. 420 4

Methodin has an action resembing the other pencultum but t has a narrower range it is less southe than benapipencultum and phenary methylpencultum segants tereptococcu and less active than benapipen altuagunts Gram negative species. It is active agunts some other Gram positive coccu methoding paragramosci. Its chief use is most likely to be lococci resultant to benapipencultum south of the south of the souther benapipencultum segants tens twe strans. Sodium methoding does benapipencultum segants tens twe strans. Sodium methoding does not cause cross restance to other ranks of the size of the souther of the souther solutum methoding can only be given by uncertain It is usually your instrumucultarly but can be given introvously in a 2004 gold on does of 3 to 5 mg dissolved in a teleast 1 ml. Contra moderate in pairing sensitive to other pencelling.

Although no strains of supplicecce: restant to sodium methodillin have been reported discussive strains with equilations for extra and as a been found in laboratory tests by Jevens (*Bert mod J 1*)(96). 124) and it is considered (bd 1996) 133) bett be andersmaps are well have shalkile are drag hould be condemned and that it should be reserved for serous infections for which sens truty tests suggest is use on which a betterned all first in accordent of servers acute infections when treatment has to be surred before laboratory studies can be completed

Dose by intramuscular injection. 1 g every 4 hours later reduced to every 6 hours children 100 mg per kg body we ght daily in 4 equally divided doses infants up to 5 kg body weight 500 mg daily in 4 equally divided doses

Storage Sodium methicilin po vder should be kept in a cool dry place and solutions at refrigerator temperatures Neutral unbuffered solutions lose about 20% of activit y after 7 days at 5° or 2 days at 23°

Proprietary Names CELEUNIN STAF CILLIN (U.S.A.)

Sodium Versenate (Riker) Trisod um hydrogen edets e (q v) available in 5 ml ampoules containing n each ml 200 mg

Softamiycin (Roused) Franzystan subjete zv lable si Tableta of 230 mg for intettini stutenpsi and darbares of bar crisi on n. Do s t toti of 12 s spread over 3 to 8 days Softamycia Nebuliser contant franzycti a subjete 125% grazunoti 0.000 /s and phenylephanie bylorokho do 025 m bulifered isotome salme For the treatment of sci e coryst. Softamycia Softamycia Onitement contant f anyceta molphate 15 /s and grain da ho 035, m s witer macble bas, For the treatment of primary ind secondary inte uses Sociatop 271 (Mol factors of primary sv 047 JAB biss, b 140) Solu Biloptin (Schering A G., Berlin Pharmethicals, London) Calcium ipodate (q v), available in bottles of 3 g

Soventol (Knoll Phars sethicals London) 4 (A Benzylamlino) 1 methyl piperidine available as a Jelly containing 2% flactate for the relief of pruritius and as Tablets each containing 50 mg of hydrochlonde Antihustamine Dose one tablet every 6 or 8 hours

Soventol C (Knall Pharmethicals London) Dragees each containing 4-(Nbenzianilino) I methylpiperidine hydrochloride 25 mg and propylhexedine hydrochloride 20 mg For hay fever primitius, and motion sickness Doie 1 to 3 dragees every 6 hours

[Pi 34b] Sparine Latab (Wyeth) A resu complex of promazine available as delayed release long-acting tablets each containing the equivalent of 50 mg of promazine hydrochloride

[P1 840] Sparme Suspension (Wyeth) Contains in each teaspoonful (5 ml) the equivalent of promazine hydrochloride 50 mg

(For other Sparine preparations see Vol 1 24th Edn p 398)

[11114A] Spastipaz (Nichola) Sussaned release tablets each containing the ream bonied equivalent of hysocynamic sulphate 0.35 mg stroping sulphate 605 mg, hysocine hydrobronide 0.025 mg and anylobritutione 650 mg. For the treatment of gestro intestinal spasing, gentro-unnary spasin, motion sciences, and parkinsonian Dore ¹/₄ to 2 tablets an the morning and on retining

Spironolactone SC-9420 7a-Acetylichio 176 hydroxy-3 oxo-17apregn-f-enc-21-carboxylic acid y lactone, C24H24O4S=416 6

A synthetic steroid which blocks the action of aldosterone on the dotal renal tubule I thas been advocated as an aid in the management of orderna resistant or parity resistant to the conventional durettos such as the mercurated and thuscated, which act manify on the proximal renal tubule it appears to act syncrystocally with these other durettos and is such as the sector as a strong state of the sector as about such as the sector as a strong strong strong and the discontinuous administration of activity is about 48 to 72 hours after discontinuous administration of activity is about 48 to 72 hours after discontinuous administration of activity is about 48 to 72 hours after discontinuous administration of activity is about 48 to 72 hours after

Town efficit the side effects so far reported have been mild and infrequent, they include drowaness, mental conflusion, and maculopapular or erythematous cutaneous eruptions. Spironolactone does not cause potassum depiction built it may promote polassum retantion and should be administered with caution to patients with raised serum potassum levels.

Dose 100 mg four times daily for a minimum period of 5 days

The value of spironlactone has been firmly retablished its widespread and indiscrimants use may however lead to some disappointing results and to criticism of its lack of efficiency in certain endematous suites. This can be expected if aldotecrone antagonats are administered where orderns is principally due to factors other their hyperpaloisteronsm—Lamet alf1900 1335

Proprietary Name ALDACTONE

Spontin (Abbott) Ristocetin A and B (q v), available as a sterile hyphilised powder in vials representing 500 mg of ristocetin A activity

Sporostacin Chlordantom Cream (Ortho) A taginal cream containing chlordantom (q v) 1% and benzalkantum chlorde 0.05%. I or the treatment of fungous infections of the vulvo vaginal area, particularly moniliasis

1P1 \$4B] Stanolone (N N D) (see also Vol 1, 24th Fdn, p 978) Androstanolone 173 Hydroxy-5z androstan-3-one, Cydf 20 4

In addition to its use by intramuscular injection in the treatment of cancer (see Vol I, 24th Ldn, p 978), this steroid is also used by mouth

to promote the anabolism of protein Contra indicated in prostate carcinoma Doie, daily by mouth 100 to 125 mg for 15 days every month or 50 to 75 mg may be given for 2 months followed by an interval of month Children 8 to 15 years, 25 to 50 mg for 15 to 20 days every month Infants and children up to 8 years, 12 5 to 25 mg for 10 to 15 days every month

Proprietary Names ANABOLIX, ANDROLONE (USA), NEODROL (USA), PROTEINA (Fr) STANAPROL (Scand), at is an ingredient of Lysinex.

[B] Stechn (Squbb) Tetracycline hydrochlonde available as Capsules of 50 mg and 250 mg, and as Tablets of 50 mg and 250 mg

[B] Stechn-V (Squbb) Tetracycline hydrochloride with added zodium meta phosphate, svalable as capsules of 50 mg and 250 mg

[P1 84B] Stelabid (Smith, Kline & French) Tablets each containing trifluoperazine hydrochloride (q v) 1 mg and asopropamide iolide (q v) 5 mg For the trestment of peptic ulcer and nervous gastro intestinal disorders. Doie one tablet 2 or 3 times duly

[F1 54B] Stelader Spansules (Smith, Kline & French) Sustained release capsules each containing influoperazine hydrochloride (q v) 2 mg and deximphetamine sulphate 10 mg. For the treatment of oberny Dore one capsule every morning

[P1 54B] Stelazine (Smith Klne& French) Trifluoperszine hydrochloride (q v), available in Ampoulos of I ml each containing I mg, as Spansules (sus tained release capsules) of 2 mg, and as Tablets of I mg and 5 mg

(Pi tell Stemotil (May & Baker) Prochtoprenzue, svilable as producerse anne malatei (or) in Suppositories each containing 5 mg and 3 Tablete of 5 mg and 25 mg Alvo svalable as prochtoprenzue methaneuhopants (or) in Suppositories (or annum 2 125; na mapoulos of 1 ml Subate for) in Solutions for mytecion constante, 125; na mapoulos of 1 ml Storte Strips containing 33 mg in each teaspoonful (3 e ml) (Auditations of may m Vol 1, 2 kin Ean, p 30).

Ster-Zac Bath Concentrate (Hough Horeason) Contains hexachlorophane 10%. For the prevention of cross infection was baths in surgical wards. Drive itoms one flog to be added to the bath with surging

Ster-Zac Powder (Hough, Hostanon) A dusting powder containing breachlorophane 0.33% and zine oxide 3%. For the prevention of staphylococcal separs and cross infection in newborn infants and as a prophylactic against maphin rash, becaries, and skin infections,

 $|r|^{*}$ is 14.4) Stamplete (ff 3*cth*) Elux consumn an each tempoonful (4 nd) honobarbance 25 mg, desauphertannes subjects (5 mg, successing hydrothomatic 25 mg, desauphertannes subjects (5 mg, successing hydronomial (2 mg, and alcohol 11%). For the treatment of muld depression and large transmits for obsers parts on a sedenation gute. Does for depression, one testigonital twice our three daily after meals, for during patients, one testigo 25 mg, and the sedenation of the sedenation of

Strepsils (Boots) Lozenges each containing 2,4-dichlorobenzyl alcohol 1 2mg and anyhnetacresol 0.6 mg. For the treatment of manor infections of the mouth and threat Dots one lozenge every 2 or 3 hours.

[B] Streptomycin Sulphate, Intrathecal (Glaro) Ampoules each containing streptomycin sulphate 50 mg or 100 mg, as dry powder

(9) 6.00 [Strengthand Stargenston (10) 62 [July 10] [July 10] [Strengthand [Strengt

Structuran (Merck Shorp & Dohme) Emplemente (q v) available as tablets of 200 mg

[P1 \$4B] Styramate & Hydroxyphenethyl carbamate C.H.O.N=181 2

A skeleial muscle relaxant which is reported to act only on the polysynaptic pathways of the extrapyramidal fract to inhibit the transmission of impulses which maintain muscle spasm. The limited clinical evidence to far available indicates that it may be of value in relevang conditions involving skeletal muscle sparm including spasm secondary to acute trauma and femated disk fibrositis, artificities burnits muscular fracmages e J anter med data; 1006 J72 698

Toxic effects the incidence of aide effects has been low but drowsiness vertigo headache and untrearnal eruptions have been reported

Doie determined according to the response of the patient initial dose 200 mg four times daily, gradually increased as required to 400 mg four times daily

Proprietary Name SINAXAR.

[#148] Suiphadimethozine 4 p Aminobenzenesulphonamido 26 dimethoxypyrimidine C13H4:04N4S=3103

A subfixianticle with projerties similar to those of subhamethoxypridazine II is rapidly absorbed and very alowly accretical Liffective blood concentrations are maintained for at least 24 hours after each dose is that only a single daily dose is required. Toxic effect, contra and cations and uses are the same as those of the subhamandes in generalset Vol 1 24th Edn, pp 12424 - the dhandle without so that subhaparition of the terms rulphonomides see first and J suffys, 432 Date in muld condensate indecionos, if go in the first day, followed by 0 3g daily, in severe infections 2 g on the first day, followed by 1 g daily the dosage for children are cluded an proportion to body weight

Proprietary Names MADRIBON MADRIQID (U.S.A.)

[7] 44B 8] Sulphamagna (13 yen) A flavoured auspenson contain ng in each 30 ml activated attapulate (a hydrated magnesum alumnuum alucate) 2 g aircptomyen 200 mg (as sulphate) philabiluaziole 2 g and sul phaduame 500 ng i or the treatment of distributa Dore 2 tablespoonfuls 3 or 4 times duly

[P1448] Sulpham ethoxypyridazine (NND) Sulphamethopyrazine 3 p-Anunobenzenesulphonamido-6 methoxypyridazine, C₁₁11₁₀O₂N₄S= 2003

A subponancie which is rapidly absorbed and very ilowly excreted yielding effective blood concentrations for longer periods than the older subponancies so that fower doage and less frequent administration are required lesk concentrations in the blood are treated or which a few hours thereafter to about half the original level in 24 to 48 hours. The thera period collection of subplantbhootypyridzame are the same as those of the subphonamules in general—see Vol I, 24th Edn, p 1244 II:s admansured is tred as tables or, in the form of its N³-asely identity, as a supposing. The recommended dosage should not normally be exceeded and therapy should be huntred to 5 to 7 days or unit the patient has been supposed by honarmules (Vol I, 24th Edn, pp 1242 3), the modence of real toxicity is said to be lower than with other subphomamides (Vol I, 24th Edn, pp 1242 3), the modence of real toxicity is said to be lower than with other subphomamides. For a some parts on of the entere subphomamides (1999, 482, Dave 1 to 2 g on the first day, followed by 500 mg daily, the dosage for cluidren is reduced in proportion to body-weight.

Proprietary Names LEDERAYS (Vol I, 24th Edn, p. 1260), MIDICEL LYNER (U S A), SULTIRENR (F) The A³ acetyl derivative is an introduced of MIDICEL SUSPENSION and LEDERARY ACETAL PRODATES CLASSION

[P1 34B] Sulphaphenazole, C 17922, Sulphophenylpyrazol 5 p-Aminobenzenesulphonamido-1-phenylpyrazole, C+H1(O,N,S=314.4

A subhonamode with properties sumilar to those of subhamethors, preducine Peak concentrations in the blood are attaned within 10 4 hours after administration and pradually decline over 24 to 36 hours. The therapeutic indications are the same as those of the subhonsmutes in general—see Vol 1, 24th Edn, p 1244. It is suit to be particularly suitable for preventing upper respiratory traction the environment of tables or as a subpersion For a comparison of the new resultion subles or as a subpersion For a comparison of the new result of 2 days, followed by 0.5 g twice dualy for a further 3 days, the dosage for children is reduced in propriorin to body-neight.

Proprietary Names ORISULF, ORISUL (Senss)

[P1 \$46] Sulphaproxyline. Sulphapyroxyline p-Amino-N¹-(p-isopropoxybenzoyl)benzenesulphonamide, C14H11O4N1S=334 4

A subplonamide which is rapidly absorbed and slowly excreted, it a used in conjunction with subplamerazine in the proprietary preparation Dosulfar (p 211)

[PI \$4B] Sulphathiourea. RP 2255, Sulphathioearbamide. p-4minobenzenesulphonylthiourea, CrH+O_NS2=231-3

A sulphonamide with antimy cotic and bacternostatic properties which is applied topically in the treatment of anticted wounds, huma and scalds, impergo, pyoderna, and followiths It is usually upplied in the form of a 10% water miscible gel which forms a transparent, elanic, protective film

Proprietary Names BADIONAL, FONTAMIDE (Tr)

[91 \$4B] Sulphatolamide The paramobenzenesulphonylthiource salt of p sulphamoylbenzylamme, $C_2H_{10}O_2N_1S_1C_1H_2O_2N_2S_4 \approx 417.5$

A bacternostatic agent which is claimed to be effective granst all nucro-organisms causing secondary infections in leucorrlutes, particularly against anaerobic organisms. It has been mainly used in the form of signal tablets in the treatment of treatmoments and second

Proprietary Name MARBADAL

(PI 448) Sulphaurea, A-p-Anunobenzenesulphenylutes, C₁H₁O₂N₂Sr 215 2

A sulphonamude which is rapidly excreted and which is used in the treatment of urmary infections. It is claimed that it acts independently of the pH of unne and that there as less possibility of crystalluna than with other sulphonamides. It is given by mouth and may also be given by intravenous injection or influsion, or occasionally by deep intramuscular injection Doie formuld infections, 1 g three daily for senious infections, 2 g every 3 to 5 bours.

Proprietary Name EUVERNIL

Sulphinpyrazone G 28 315 Sulphoxyphenylpyrazolidine 4-(2 Ben zensulphinylethyl) 1,2 diphenylpyrazolidine 3 5 dione, $C_{13}H_{49}O_2N_3S = 4045$

An analogue of phenylbutazone It has a much stronger uncosunc effect than phenylbutazone but much weaker analgess and ants inflam matory effects. It is indicated in the long term treatment of chronic gout, it has no direct effect on acute gout. Its effects hunted almost exclusively to enhancing unste exerction through the kindrys by blocking tubular resorption of urate it lowers the serum urate level and also promotes the absorption of tophi and urate deposits

Tone effects so far reported have been mild and manyly limited to gatter intestand disturbances, but side effects associated with the admunitation of phenylbutazone and other pyrazoles may possibly occur (see under Henylbutazone, Vol 1, 24th Edits, p. 29). Unicke other pyrazolise, it appears to have very likele effect on electrolyte balance and leeping the unne alkalance by gauge polasium ascette or rodum brazbonate. As with other uncourse agents acute attacks of gout may be prespirated during the nutual stage of treatment Small does should therefore be given at first and then gradually uncreased seconding to the pattent srepopate and the level of une acid on the blood Course under the inpattent with peptic ulcer or with a known intolerance to phenylbut atone or other pyrazoles. It should not be grown with saleplates or tensand during the surface of the balance of period balance or the phenylbut during the surface of the during the nutual to a should be the during the surface of the surface of the possibility of gatro intestinal during the surface of the surface of the possibility of gatro intestinal during the surface of the surface of the surface of the phenylbuta

Dose daily, in divided doses 200 mg at first, gradually increased to 400 to 800 mg depending on the clinical response and the blood urate level, after the blood urate level has been controlled, the daily maintenance dose may be reduced to as low as 200 mg

Proprietary Name ANTURAN

iPI 410] Sultran Vaginal Tablets (Orthe) Lech contants subpathazole 171 mg subpactamede 143 mg, and N-subpannithemarned 185 mg For the treatment of vagmatis and certaints Administration one tablet to be inserted twice daily for 10 days

[P1] Surfadil Cream (Lelly) Contains cyclomethycaine sulphate 0.5°, and methapyrilene hydrochloride 2% in a vanishing cream basis. For allergy insect bits and priorities

[P1] Sustac (Pharman) Glyceryl transfrate in sustained action tablets each containing 1/12 grain or 2/12 grain

[P1 31 444] Sustacol (Pharmax) Sustained action tablets each containing how stropine methylbromide 7.5 g and phenobarbation 72.5 g.g. For the treatment of spastic conditions of the gastro intestinal tract. Doir one tablet to be taken before breakingst and as a a bedimme

Synkavit (il che) 2 Methylaspith 14 viene d (1 hydrogen phespite) now site available in Ampoules of 1 mil each containing 1 mg (as the sodium said) (See Li 24th Eán p 374)

[P1] Synuson (International Laboratories) Tableta each containing guaphenesia (q v) 1¹/₁ grains prepared specacuanha ³/₈ grain, ephedrine bydrochloride ¹/₆ grain and phenacetin 4 grains For the treatment of sinusitis mesal congestion, and extarth Dose one tablet twice or thrace daily

Syrup of B₁₀ (Vitamns Ltd) Contains cyanocobalamin 10 µg in each ml To improve appetite and digestion in debility Date 1 or 2 teaspoonfuls daily

Sylron (Parke Davis) An elixir containing in each teaspoonful (4 ml) sodium ironedetate ($\alpha \times$) equivalent to 27 5 mg of iron Dois one teaspoonful increasing to 2 teaspoonfuls three daily infants 10 lb, 2 to 5 minums three daily 20 lb 5 to 10 minums three daily

Tabalgun Elizir (West Phormaceutical Co) Contains paracetamol (q v) 120 mg in each 5 ml (For Tabalgun tablitis see Vol. I, 24th Edn p 1398) (Pl 34B] TACE (Merred National) Chlorottuneenee, now also available as Tab-

lats of 24 mg (See also Vol 1, 24th Edn p 969)

[B] Tampovagan 'N' (Camden) Pessanes each containing nonycin sulphite 20 mg in a faity basis. For vegnal infections resistant to other forms of therapy Administration one pessary to be inserted at night and one in the morning half as hour before mang (For other Tampougan preparation see Vol. 1 24th Eds)

Tanderil (Geuy) Oxyphenbutatone (q v) svailable as tablets of 100 mg [P1 84B] Taractan (Rochy Chlorprotharene (q v) svailable in Ampoule's of 2 ml each containing 30 mg, and as Tablets of 5 mg, 15 mg, and 30 mg

Tardrox (Carlton Laboratoriei) A cream containing chlorohydroxyquinol ne 1 5% and tar 1°_{\circ} in a non gressy basis. For the treatment of eczema and paramase

[P] 37] Tocaldring (Abboti) A syrup containing in each fluid ounce methapyin lane hydrochloride 50 mg/destromethorphan hydrobromide 30 mg/enmonlum echloride 320 mg/ecceutana laydie extract 0 5 minum, menhol 1/g grap and syrup 24 5 grammes For the treatment of irritant and unproductive cought-Date 1 to 2 tespoonlis every 4 hours.

Telmid (Lilly) Dithiszanine sodide (q v), available as tablets of 25 mg and 100 mg

Tenormai (Imperial Chemical Pharmaceuticali) Pempidine tartrata (q v), available as tableta of 1 mg 5 mg and 10 mg

[P1 54B] Tensaval (Dittillers Co) Tablets each containing thalidomide $(q \vee)$ 12 5 mg and hydrochlorothuzide $(q \vee)$ 12 5 mg For the rel of of premension tension Dore on a tablet twice daily

[FI \$4B] Tenuate (Merrell National) Diethylpropion hydrochloride (q v) available as tablets of 25 mg

[P1] Trapacol (Brock, Parker) A sedure cough elux contanung in exh tespondia photodas 4.2 are, terps hydratise 2.16 are, neurabol 3.24 are, and exclipted 0.03 ml. Dar. 1 to 3 tespoonful: children, ¹/₁ to 1 tespoonful-[R] Terra-Courti Spray (Physic) A pressure and are proportium hydrocourt sone 50 mg, and expertureschare [50 mg, m 1 fl or For infected dermatoses. For other Terre Courtin preparations are Vel.1, 23th Eda, p. 1465)

[8] Terramycan Onstment (Pizer) Contains oxytetracycline hydrochloride 3°5 in a toft paraffin bass [8] Terramycan Ophthalamic Olonment with Polymyzia B Sulphate

[11] Terramycin Ophthalmic Olutiment with Polymyxin B Sulphale (Pfizer) Contains an each ge exytetracycline S mg (as hydrochloride) and poly myxin B 10 000 units (as sulphate) in a soft parafile basis. For the prophilasis and topical treatment of superficial scular infections. (Vod fication of estry in Vol 1 24th Edit os 1458)

(For other Terramycan preparat ons see I of I 24th Edn pp 1466 S)

Tersavid (Rode) 1 Benzyl 2 povaloyihydranne svalahte as tableti of 50 mg as the hydrochloride A muso an ne ostilose inhibit r given for the symptomatic relief of angine pectran. Does initial 3 to 4 tableti do 19 f σ 2 weeks raised if no obvious improvement to 6 to 8 tablets daily for 2 weeks maintenance. It o6 tableti daily

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Tessaion (Ciba) Henzonstate (q v) available in Ampoules of 1 ml each c naming 5 mg as Petles of 100 mg and as Suppositories each containing 50 mg

i^{ff} ⁶⁴BJ Tetrabenazine Ro 1 9569 1,2,3,4,6,7 Hexahydro 3 isobutyl 9,10-dimethoxy 2-oxo 11bH benzo[ajquinolizine, $C_{18}H_{47}O_3N \approx 317.4$

Tetrabenazine is reported to have central effects resembling those of reception 1s at thought to interve ne in the intrabolism of the physiolgical mono manes, such as serotomi and norsdrenaline, and that this saturby is mainly limited to the brain. Unlike testerpine it appears to have little perpheral activity and its effects persist for only 24 to 36 hours. If has been suggested for use in the treatment of acute and chronie mental disorders in which the major factors are hallucinations and deliusions, ameriy and agaitation and psychomotor overactivity it appears to have usually well tolerated the principal side effects so far reported being trainsent restlements and drownies high dosage can cause pseudo parkinsoniam. It should not be used with reserpine or simuediately after a course of pronizad or animals mono anime oxidas inhibitors

Dote determined according to the response of the patient and the type and severity of the condition under treatment Initial daily dose 100 to 150 mg increased if necessary up to 200 mg daily maintenance dose 50 to 75 mg

Proprietary Name NITOMAN

(*1 148) Thalidomide, K 17 & Phthalinudoglutarimide, C12H100,N3= 238 2

A non barbturne sedative and hyponote It sets within 10 to 20 munutes sitter administration, the sedative effect lasting about 4 to 5 hours It is said to be relatively free from side effects but it occasionally causes duraness and nauses, high dosage may cause contipation. It has been reported [] McC Murdoch and G D Campbell, But ined J_{ij} [1558] 84] that thalidomide appears to have a mild but definite antithyroid acturity when given in dores of 200 mg or more

Dote as a sedative, adults 25 mg twice or three daily, infants and children 12 5 to 25 mg according to age once to three daily as a hypnotic, adults 50 to 200 mg at bedume, infants and children 25 to 50 mg at bedume.

Proprietary Names DISTAVAL CONTERGAN (Ger.), SOFTENON (Sutur), at is an ingredient of ASMANAL TENSIVAL VALCES, and VALGRAINE.

[PI 81 44.3] Theophen (R) for Laboratora) Tablets each containing phenethyl ismos cutate (or y 15 mg amploarbatome 10 mg, ephedrum byfurcklorids 25 mg, and theophylines 120 mg. For the relef of arthans Theophen Retard tablets have the same componention with a disambergration time of a 10 s hours. Date 1 or 2 Theophen tablets every 4 hours and one Theophen Retard tablet at bediume

Thiambutosine. DPT, SU1906, Thismbutosine, Thuocarbanilide $N \neq Butoxyphenyl N \neq dimethylaminophenylthioures, C_{13}H_{14}ON_3S = 343 5$

An antileprote drug which has been subjected to extensive trais during the last few years with promising resulting—see T. F. Davey *et al.*, Leprony Rev. 1958, 29, 25, J M. B. Garrod, durit, 1959, 30 210, T. F. Davey, Trans. R. Soc. trop. Med. Myg, 1960, 54, 199, and Unit med J., u/1950, 655

Thumbutosine is reported to be less toxic than dapsone and slightly more active, having a more rapid effect on the bacilli than is usual with dapsone. Owing to its low toxicity it is particularly useful in the treat ment of deb litated patients the full therapeutic dose can be given at il e beginning of treatment and it is considered to be a valuable alternative drug in such compl cations of dapsone treatment as persistent crythema nodosum psychosis and neuritis Thus thiambutosine is especially useful in the earlier stages of treatment Drug resistance may develop after 2 or 3 years so the drug should be withdrawn within that penod Dose 1 to 2 g daily adjusted according to the response of the patient.

Thuambutosine has given encouraging results in combination with dapsone and ditophal-see T F Davey Leprosy Rev 1959 30 141 Proprietary Name Class 1906

[PI \$48] Thiopropazate Hydrochloride (N V D) 2 Chloro 10-(3 [4-(2 acetoxyethyl)piperazin 1 yllpropyllphenothiazine dihydrochlonde C1,H1,O,N,SCI 2HCI=519 0

Thiopropagate has actions similar to those of chlorpromagine, It has been used in neurouc and psychotic states including anxiety tension, abnormal excitement psychosomatic conditions, barbiturate or alcoholid addiction the agitated states of cerebral arteriosclerosis and of cataton e or paranoid schizophrenia

Toxic effects large and occasionally average doses may cause pseudopatkinsonism, with muscular rigidity tremors fixed facies and drooling other effects occasionally encountered are blurning of vision dryness of the mouth hypotension constipation nasal congestion and dermatoses Contra indicated in patients with convulsive disorders severe depression liver damage or under the influence of barbiturates alcohol narcotics or other central nervous system depressants Antidotes as for Chlor promazine Hydrochloride (Vol I 24th Edn p 389)

Doze in psychoses 10 mg thrice daily adjusted up or down by steps of 10 mg daily according to the therapeuuc response in neuroses 5 mg the ce daily adjusted up or down in steps of 5 mg daily according to the therapeut c response Max daily dose 100 mg Proprietary Names DANTALAN DANTAL (USA) it is an ingred ent of

PRO BANTHINE WITH DANTALAN

[PI SIB] Thioridazine Hydrochloride 10-[2-(1 Methylp perid 2yl)ethyl] 2 methylthuophenothrazine hydrochloride C, HasNaS, HClas 407 1

A phenothazine derivative with tranquallising properties similar to those of chlorpromazine It has been similarly used in the treatment of neurotic and psychotic conditions. It has little anti-emetic action of potentiating effects on anæsthetics alcohol and barbiturates

Toxic effects its side effects have been reported to be milder and less frequent than those of other phenothazine derivatives (see under Chlor promazine Vol 1 24th Edn p 386) the most common aide effects have been drowsiness dizziness faintness dryness of the mouch, nasal stuffiness and transient ordems and leucopenia Contra-indicated in severely depressed and comatose atates

Dose determined according to the response of the patient and the type and severity of the condition under treatment. In severe conditions 150 to 600 mg daily in moderate conditions 75 to 200 mg daily in mild conditions 30 to 100 mg daily ch ldren under 5 0 5 mg per lb, body weight daily children over 5 1/4 to 1/8 the adult dose

Proprietary Names MELLERIL MELLARIL (U.S.A.)

Throtepa TESPA, TSPA, Trethylene Throphosphoramide Trii azirdinylphosphne sulphide, C₆H₁₅N₂SP=189 2 (See also Vol I, 2th Edn, p 947)

Thiotepa has continued to be used with varying results in the palliation of a variety of neoplastic diseases. The more consistent results have been seen in carcinomas of ovarian or imanimary origin

Thio-Tirx (*Lederl*) is available to hospitals only as a dry sterile powder in vuis of 15 mg it should be stored at reingerator temperatures of 2° to 10° Solutions for nucetion are prepared numericately before suc by dissolving the powder in Wires for Injection or an Sodum Chloride Injection if a precipited is present the solution should be discarded as this represents polymerisation to less active compounds

BREAST CANCER. Thurty-four cases of breast cancer at various stages were treated with either thusteps alone or thioteps and testosterone Masked in hibitory effects were obtained in 30 patients the most satisfactory results being obtained in the group receiving thiotepa and testosterone. The thiotepa has administered intramuscularly in an aqueous solution containing 5 mg per ml In the 11 patients who received thusteps slone 15 mg of the drug was given two or three times weekly until the white cell count fell below 3000 per c.mm. Therapy was then stopped and recommenced when the blood count had re Autory was the texturent texport and recommended when an encode count and re-turned to pre treatment levels. In the other 23 patients the individual dose of thorepa was eventually increased to 30 mg on alternate days until a total dose of 180 to 300 mg depending on response and blood counts was given a second similar counts was given after an interval of 3 to 6 weeks. In some patients a third course was given after an interval of a month others were placed on a maintenance dose of 15 to 30 mg of thioteps at intervals of between 2 and 4 weeks Testosterone propionate was given intramuscularly in doses of 200 n g five turnes a week beginning one week before the course of thioteps and con tinuing for 2 weeks after completion of the thioteps injections. Six patients with pleural and peritoneal effusions had thioteps 30 mg in 30 ml of normal saline instilled direct into the cavity after paracentesia this was in addition to the normal course into the cavity and participations balls where it material out formal course of intransucular supervisions Daily blood coursis were carried out during treatment and if the total white cell cours fell below 2000 the theorem supervisions were temporarily scopped but the hormone therapy conjunced Simple masteetamy was carried out in 11 previously untreated cases and cophorectomy in pre-menopsusal patients. Regression of tumour growth was obtained in 8 of 11 patients treated with thioteps alone and in 22 of 23 patients receiving thioteps and testosterone Four patients showed no response and died within 4 weeks of commencing therapy Four other patients died after a period in which the progress of the disease was arrested. In patients showing regression of tumour growth there was an improved sense of well being with disappearance of pain anorcaus and anticety there was a gain of weight and disappearance of anorms when present A trial of surgery and chemoherapy is opposed to surgery and and anon is advocated for early breast cancer -G W Watson and R L Turner Brit med J 1/1959 1315, see also Brit med J 1/1959 1336

Elsevin patients with advanced and mestatute breast cancer were treated as advecated by Nation and Turner Within none month 7 had died and diedely appeared to have been hastened by an arrivership panoptopena directly at a nultime remoin two had pretrait attensions being 2 and 4 months respectively, and the common year and the second particular second being 2 and 4 months respectively, and the common year at the second particular second being 2 and 4 months respectively and the common year at the second particular second particu

[P1 37] Thorpax Syrup (Imperial Chemical Pharmaceuticali) Each teaspoon ful (3 5 ml) contains dimethioxanate hydrochloride (q v) 25 mg and isothi pendyl hydrochloride (q v) 1 25 mg For the relief of cough Dote one teaspoon ful 3 or 4 times daily the fast doss at bedranc

Thovaline (*llon Laboratories*) An continent containing tale 7.4°, light kaolin 3 5%, and oxide 21 8%, cod liver oil 2 15% and wool fat [075°, For chil blains, becknores, and naphan rash.

[P1 \$4B] Tofranil (Gagy) Impramine hydrochloride (g v), available in Ampoules of 2 ml each containing 25 mg, and as Tablets of 10 mg and 25 mg

[PI \$4B] Tolbutamide (BP Add, USP) (See also Vol 1, 24th Edn, p 789)

Toficutamide is used in the treatment of mild or moderately severe uncomplicated diabets mellinas in clicity diabetics whose insulin requirement is not more than 40 units daily *Tance effects* the adminitration of toficutamide may occasionally cause skin reactionas, gastrointestinal upsets, and leucopenas *Contra indicanous* juvenile diabetes, untable diabetes, ketoss, and imparted renal or itser function. Dour in divided doses, 2 to 4 g on the first days 1 S to 3 g on the second, 1 to 2 g on the thirty, and 0 S to 1 S g daily ag a maintenance dose.

Proprietary Names RASTINON, ABTOSIN (Ger), DOLIPOL (Fr) IPOCLICOVE (Ital) MOBENOL (USA), ORINASE (USA)

Transid (Duncan, Flockhari) Polyaminostyrene, an ion-exchange resin available in peppermunt fisyoured tablets of 300 mg For use as an antatid. Dore 2 to 4 tablets

Tranylcypromine Sulphate trans (±) 2-Phenylcyclopropylamine sulphate, (C₃H₁₁N)₁ H₃SO₄=364 5

Transleppromine is an anticlepressant drug which area by inhibiting mon-anne oxidate. It has been used in the treatment of all types of depression and involutional melancholia, doses of [0 mg twice daily can similarly be given concurrently with electro onvolution therapy Tone dfectr transleppromine may cause resideances misonina, weakness, dfectr transleppromine may cause resideances misonina, weakness, utoristic and the state of the state of the state of the deviation of the state of the state of the state of the caution to patients with invocandial infarction, coroary attery disase with angung of effort, or herpital over rend disease.

Usual date 10 mg morings and afternoon for 2 to 3 weeks, when the moring dose is increased to 20 mg if there is no response when a satisfactory response has been obtained, the dose is gradually reduced to an optimum maintenance level Intense dose 20 mg in the moring and 10 to 20 mg in the afternoon for one week then the total daily dose is increased by 10 mg every few days af there is no response, which attistic actory response main being we days af there is no response, which attistic actory response tare being the total daily dose for mer maintenance level the total daily dose should not exceed for mer maintenance level.

Proprietary Names PARNATE it is an ingredient of PARSTELIN

Trasylol (F B.A Pharmocentucals) A tryptin and kallikrem inacurator obtained from animal glands available as a sterile isotomic solution in annovates of S ml each containing 5000 kallikrem anactivising units. For the treatment of participation or parameteria metrovas by informations infusion.

Trescatyl (May & Baker) Ethionamide (q v) available as tablets (250 + a

[8] Triacetyloleandomycin (USNF) The triacetyl ester of oleandomycin lt has the same actions and uses as oleandomycin—see Vol I,

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24th Edn p 1422 It is more rapidly and completely absorbed than eleandomycin phosphate and produces higher blood levels it is ad m a stered by mouth in capsules or as a suspension Dose tie equivalent of 250 to 500 mg of olcandomycin base 4 times daily children 30 ng

(base) per kg body weight daily in divided doses Good results were obtained in the treatment of staphylococcal and strepto coccal infect one of the unnery tract by administering triacetyloleandomycin in conjunction with a transpondent of realization of the standard state and sta

Proprietary Names EVRAMYCIN CYCLAMYCIN (USA) TAO (USA)

[8] Tri Adcortyl Olntment (Squab) Contains in each g transmolone sectomide (q v) 0.1% networks 2.5 mg, granne dn 0.25 mg, and hystam 100 060 units in tabet signal 5.5 g For the treatment of while range of demanders with a there is and 5.5 g. For the treatment of a supernetect on a To be demanders with a thereined by bacterial or monit al supernetect on a To be

 [8] Triamcinolone (NND) Triamcortisone 9x Fluoro 11B 16x
[7,21] tetrahydroxypregna 1 4 diene 3 20 dione CuiH₁₁O₁F=394 4 A glucocort coid with actions and uses similar to those of prednisone

and predinsolone but with a greater potency Toxic effects withdrawal tymptoms and contra indications as for Cortisone Acetate and Predni sone (Vol 1 24th Edn pp 453 454 and 492) the incidence of a de effects is usually lower than with the other steroids and it does not appear to cause sodium retention it may cause anorexia loss of weight, and

Dote varies with the response of the patient and the type and severity cutaneous erythema. of the condition under treatment Usual initial dosage 8 to 20 mg daily in 3 or 4 divided doses after a satisfactory response has been achieved the maintenance level is reached by gradually reducing the initial daily

dos in decrements of 2 mg every 2 or 3 days Proprietary Name: ADCORTIL LEDERCORT ARISTOCORT (U.S.A) KEN

(a) Triamcinolone Acetonide (N N D) 9a Fluoro 118 21 d hydroxy 162 17a isopropyl denedioxypregna I 4 diene 3 20 d one Civili 10 F=

It is used top cally as a 0 1% cream lotion outment or spray in the treatment of the various dermatoses which respond to topical cortico steroid therapy Like other steroids at should not be applied to infected areas inless appropriate animicrobial therapy is concurrently employed Proprietary Vamer ADCORTYL-A LEDERCORT ACETONIDE KENALOG (USA)

it a an ingredient of TRI ADCORTYL ODITMENT (Pi 148) Trifluoperazine Hydrochloride SKF 5019 10 [3 (4 Methyl piperazin 1 slpropyl] 2 trilioromethylphenothiazioe dihydrochloride

A phenothuzine derivative used in the treatment of psychotic states C. H., N.SF, 211C1-480 4

n pnenoimazine derivative uses in the description of populate nates mild mental and emotional disturbances psychosomatic cond tions and nusea and somuting Toxic effects antidotes and contra indications sunses and young a set of the compounds, as described uncer

Chlorpromazine-see Vol 1 24th Edn pp 386-390 Dote determined according to the response of the patient and

type and seventy of the cond tion under treatment Usual dow by mouth in mild conditions and sausca and somiting 1 mg twice on 7. in creased if required by 1 mg daily every second day to a manane of 6 mg daily Usual dose by mouth m psychone states 10 mg daily m divided doses increased after one week to 15 mg daily multiformer increases of 5 mg daily at 3 dgs intervals but not fatter with orthor lattory control has been attained the dose may be gradually reduced until an effective maintenance level is reached. Usual daily dose by intramuscular injection for the control of autic psychole states 1 to 3 mg in divided doses at intervals of not less than 4 hours, orsi medication should be substituted at the same dorage or slightly higher, as soon as satisfactory response is obtained the total daily dose by injection should not exceed 5 mg

Proprietory Names STELAZINE at 18 ar ingredient of AMYLOZINE SPANNULSS (see p. 275) PARSTELIN STELADID and STELADEX,

Trillets (Burroughs Welltonie) Lorenges each containing halopenium, chloride (q v) 5 mg framycetin sulphate 1 mg., and lignocame 2.5 mg For the treatment of mouth and throat infections Dose 4 lorenges in the brist hour then one set required

[P1 B] Trilocan (All ed Laboratories) Outment containing predinsolance 0.3^{*} , aractinocaine 0.8%, anylocaine 1.0%, and benzalkonjum chloride solution 0.3% in a water soluble bas s. For the relief of inflammation and irritation and the control of bacteral and fungous skin infections.

[P1 540] Trimeprazine Tarirate (N.N.D.) Alimemazine 10 (3 Dimeth slammo 2 methylpropyl)phenothiazine tarirate, $(C_{14}H_{18}N_1S)_4 C_4H_6O_6 = 747$ 0

A phenothusine densitive with a pharmacological setuity intermediate between promethasine and chlorpromizene ils anthistianua estion is greater than that of promethanne and its actions on the central nervous system reiemble those of chlorpromizene. It has a stronger spannolytic action but a weaker anti adrenalme action than chlorpromizene. Ils andprunto action is more proconueed than any of its other effects and iss principal indication is in the symptomatic treatment of scute and chronic purture it has also been used for oral prencication in chldren about to undergo ancetteess. It is administered by mouth as tables of strup preferably after meils

Toxic effects antidates, and contra underations similar to those of other phenothazane compounds as described under chlorpromazane and promethazane (Vol I 24th Edn pp 386 to 390 and 1104) the most common side effect is mild and transient drowsmess

Dote determined according to the response of the patient and the type and seventy of the condition under treatment. Usual dosage in purities adults 10 to 40 mg children 7 to 15 mg daily in 3 or 4 davided doses in the pre assesshed to medication of children 1 to 2 mg, per lb body weight one hour before operation.

Proprietary Names VALLERGAN TEMARIL (USA) THERALENE (Fr) It II AN Ingredient of VALLEDRINE COUCH LINCTUS.

(p) 537 Triominue (H andre) Sile verteser Tablets each contain og phonji hoponandismos bedrochidnet 80 ng, meps renne makate 23 ng, at å phen runnar malaste 25 ng, and Syrup containing un each fluid direhm the equ valent of one quarter tablet for the sel of of humorthes and nasal congett in of the common cold Dore one tablet three da ly, chuidren 6 to 12 years, i tessoonful of syrup three dauly.

[P1 37] Triotussie (Wander) Tumed release Tablets each conta ning phenyi propanolamune hydrochloride 12 S ng mepyrar me maleais 6 23 mg phenie amine maleate 6 25 mg noncapine bydrocehloride 20 mg terpin hydraite 00 mg and paracetsmol (q v) 160 mg For the schef of the total cold syndrume Lour 2 tablets c ery 6 to 8 hours maximum 6 tablets in 24 hours Suspension con ta ning in each fi id drachm the equivalent fone tablet Do e 1 to 2 teaspoon fuls every 3 to 4 hours children 6 t 12 years 1/1 1) I teaspos nful children

Triparanol 2 p Chlorophenyl 1 [p (2 diethylanunoethoxy)phenyl] under 6 years in proportion

1 p tolylethanol CarHarOsNCl=438 0 An inhibitor of the biosynthesis of cholesterol from its immediate precursor, desmosterol (24 dehydrocholesterol, C1,H4O-384 6) has been used in the treatment of conditions associated with abnormal cholesterol metabolism such as atherosclerosis. It is compatible with anticoagulants vasodilators and other cardiac drugs, and may be used concurrently with them it is not a substitute for the standard therapy used in cardiovascular conditions Toxic effects no serious side effects at the normal doesge level have so far been reported, larger doses have caused nauses and transient albumunuma it has been reported to have mild astrogenic activity Contra indicated during pregnancy Dose 250 mg

The clinical value of triparanol in the treatment of arterial disease is still once daily, preferably before breakfast undecided It will often produce a moderate fall in blood-cholesterol especially If the initial level is high but in place of cholesterol desmosterol accumulates and this may well be as a therogenic as cholesterol. The low ening of cholesterol may persuit for only a few months though an increase of dosage may control

this secondary rise -Lancet 11/1960 968

[91 s7] Tripectol Cough Lincius (Willows Francis) Contains in each fluid dachm antaroline hydrochlorde 12 Sing pholeodine 40 mg and ephedrine hydrochlorde 80 mg For the treatment of post influenzal cough bronchita hydrochlorde 80 mg For the treatment of post influenzal cough bronchita brochail asthma whooping cough and inflammatory and estarthal conditions of the remaining of the second starthal conditions of the respiratory tract Dose 1 or 2 teaspoonfuls thrice daily and at bedume children 6 to 14 years 1/2 to 1 teaspoonful

Trisodium Hydrogen Edetate The trisodium hydrogen salt of ethylenediamine NNN N tetra aceuc acid, C10H100,Na Na =358 2

A chelating agent which chelates calcium ions thereby decreasing serum calcium. A slow intravenous injection has the effect of mobilising calcium from the sheleton and the calcium chelate is almost completely excreted by the kidneys within 6 hours. The drug is administered by slow intravenous injection the concentration suggested is a 1% solution in isonne Sodium Chloride Injection or Dextrose Injection at the rate of 500 ml in 2 to 3 hours A 0 4% solution of trisodium hydrogen edetate is used topically in the treatment of corneal opacities resulting from band keratitia or lime burns Blood preserved with trisodium

hydrogen edetate as an anticoagulant can be stored for 3 to 4 weeks Toxic effects it may occasionally cause mild nausea, diarrhera, abdom

inal cramping pans and reactions of the skin and mucous membranes, these can be mitigated by the administration of 25 to 75 mg of pyridoxine hydrochloride daily A burning sensation in the arm above the site of injection, numbress round the mouth griddness and drowsiness may usually be relieved by slowing the rate of administration Ilypocalcemnic tetany can occur if trisodrum hydrogen edetate is administered too rapidly or in too concentrated a solution distidute an intravenous

Dote by slow intravenous injection, 5 g daily For children, a dose of injection of a calcium salt. 60 mg per kg body weight has been used without untoward reduction

of serum calcium Proprietary Name SODIUM VERSENATE

TroInstrate Phosphate (NND) Amunotrate Phosphate Trieth anolamme Irimitrate Diphosphate Transtrotrethanolamme Diphosphate Tri(2 nitrosysthi)Jamine diphosphate CAH, PO, 480 2

Trointrate phosphate has a midd persistent vasollarin, effect on small blood vessols It produces some connervy stochlaritouton Its action is slower but more prolonged than ejcenj itmitrate or anyl mitten kormati dosage does not appreciably lower blood pressure or cause tachycardia. Therapeute response to trointrate appears to be variable and umpredictable It as used for the prophysics of short atracks of angena pectors. No significant effect may be obtained before the third of a diamatization and the maximum effect may not appear until affer the seventh day Overage to us slow emet of action it is unsuitable for the besidable, duciness, nause, and youring *Contra indicated in glucoma*. Date 2 to 4 mig four turnes daily before meals the last dose at bediane doses up to 6 mig four turnes daily before meals the last dose at bediane

Proprietory Names BENTONYL and PRAENITROYA (Vol J 24th Edn p. 146) VASONED METAMINE (USA) NITHETAMIN (USA)

(Fit ii ii ii) Tropenal (Vitamus Ltd) Tibles each containing phenoburb tone 32 mg ansunce hydrochlonde 5 mg raboflavins 5 mg, pyridaine hydrocollarvitz mis, polennamical bing, shoat botter bendyng from any recent data and the state of the state of the state of the state of the for long particular of the state of the state of the state of the for long particular (Madifation of entry m Vet 1 2016 Eds p 1350)

Trophysan (Crooke) Nutritional infusion solutions presented in five forms combining assential amino acids aminoscenic acid, trace minerala, vitamuna and (in some forms) sorbitol

[8] Tryptar Outment (Armow) Contains in each g uryptin 5000 Armour units chymotrypin (q v) 5000 Armour units becitracin 500 units and poly myan B sulphats 5000 units in a water musichle basis For the treatment of superficial skin lesions indolent ulcers, and burns (For oil or Tryptar preprintion tee Vol. 1 24th Edn 9 991)

[B] Tumeson (Horchst Horlacks) Outment containing in each g predition (as acetate) 2 5 mg and supponeted distillate of bituminous shale oils (Tumenol Animonium) 30 mg For the treatment of chronic eczerula.

Tylenol Elixir (McVeil Laboratorist) Contains in each teaspoonful (5 ml) paracetamol (q v) 120 mg

[P1] Tympalgin Ear Drops (Silten) Contam phenylmercunc nutrate 01%, benzocane 15%, ephedrane 1%, phenazone 5% chlorbuid 1%, poiasuum hydroxyquinoline sulphate 01% in propylene glycol. For ontus n clus and outie externa

Tyordae Gum Pastilles (Dales Pharmaceuticals) Each contains tyrothici i 0.5 mg in * chewing gum basis

Tyrimide (Smith Kline & French) Isopropamade todide (q 1) available as tablets of 5 mg

(Pt) Tyromist (British Science) A spray containing tyrothricin 0.02%, eetin mide 0.05% and smethocame bydrochloride 0.05%, in an aqueous schicle For the relief of sore throst.

(PI \$4D) Ultandren (Ciba) Fluoxymesterone (q v) available as tablets of 1 mg and 2 mg

Uniplex (Weddel Plarmaccuteab) Tablets each conta n ng ancunne hydrochlonde 1 mg ribollavine 1 mg nacounsimale 5 ng and granulated whole liver extract 125 ng Tar vitamin B deficiency Date 3 tablets do 19

Ureaphil (Abboti) Urea as an anhydrous hophliaci, sterie, prioren free powder supplied in units of 80 g for preparing intravenous inject on by the addition of Dextrose Injectum S⁶ or 10⁵ or inter auger solution S⁶. or 10° . Used for the promotion of dimensis following surgery burns or trauma the concentration and total design (from 100 mg to 1000 mg per kg body weight) leming governed by the severary of the condition under treatment.

Ureline (Ward, Blenkonsop) \Rightarrow Dirthylsulphamoylbento e acid (C₂₁H₄₄C₄NS = 257 3) valiable as tablet of 500 mg. For the treatment of gout and hyper uncamia associated with other condutions. The uncosume effect of Urelin is integrated by cirities and saleylates. Dose 1 g daily celebiant should be then constructively for some weeks

Uvistat Sunscreen Cream (Word Blockmap) 2 Hydroxy 4 methoxy 4 methilbonzophenone in a vanishing cream basis For the prevention of subbut asd other conditions precipitated or suggravited by ultraviolet light

(#148B) Valgts (Dutillers Co.) Tablets each containing thalidonude (q v)50 mg scetylsalicylic acid 250 mg and phenacetin 250 mg For insomina sistociated with pain, Date 1 or 2 tablets at night

[PI 81 84B] Valgraine (Duthlers Co) Tablets each containing ergotamine lattrate 1 mg and thaldomide $(q \vee)$ 12.5 mg For the treatment of migraine Dore 1 or 2 tablets to be repeated is necessary siter 2 hours

[PI 44B] Valledrine Cough Linctus (May & Baker) Contains in each tes spoonful (3 6 m) i immergraine istriate ($q \neq 12.5 mg$ pholoidime 4 mg (as cliste) and ephedrine hydrochloride 7 5 mg Dose 1 or 2 tesspoonfuls twice or three daily children H_2 to 2 tesspoonfuls

[P14b] Vallergan (May & Baker) Trumeprarme tartrate (q v) available as a Syrup containing 2 mg in each ml and as Tablets of 10 mg Vallergan Forte Syrup contains trumeprarium tartrate 6 mg in each ml

[9] 37 Valoid (Burrought Wellcome) Cyclizing lactate (q v) available as an Injection in ampoules of 1 ml each containing 50 mg also cyclizing hydrochloride available as Tabless of 50 mg

Valtarin (C. H. Bochringer Sohn Germany Pfizer) Tablets each containing chlothenoxann (q v) 250 mg and phenacetin 200 mg An analgesic and antipyretic Dore 2 tablets three daily

Vancocin (Lilly) Vancomycin hydrochloride (q v) available in ampoules of 500 mg for the preparation of intravenous infusions

Vancomycin Hydrochloride (N N.D) The hydrochloride of an antibiotic substance produced by strains of Streptomyces orientalis

Vancomjern is highly actuse against staphylococci, streptococci, and preumococci it is not recommended for rowine treatment or in mild infections but is specifically indicated in patients critically if with staphylococci infections resistant to the antimicrobial action of the combinity used antibiotes in row only be starting of the rowing and at the next of injection.

Toxic effects average doses have caused febrile reactions and macular rashes large doses or prolonged treatment can produce tinnitis, auditory impairment, and thrombophlebitis Contra inducated in patients with tinpaired renal function

Dore adults 500 mg every 6 to 8 hours by intravenous infusion or 2 g daily by continuous intravenous infusion. Children 20 mg per pound body vencht daily by intravenous infusion. Tor intermittent infusion 100 to 200 md i notome deutrose or saline to a concentrated solution contaming 500 mg of vancomycin hydrochloride in 10 ml of Water fr i fuection and the dilated solution is administered by intravenous infusion over a period of 20 to 30 minutes. For continuous mfu son 1 to 2 g of vancomycin hydrochloride is added to a sufficiently large volume of iostome deutores or saline to permit the daily dose to be infued by intravenous infusion over a period of 24 hours

Proprietary Name VANCOCIN

Vandid (Riker) Vanillic acad diethylamade avaulable as a 5°, solution for injection in Ampoules of 2 ml and 5 ml and as an Intravenous Infusion in infusion bottles of 540 ml containing 0 6°, A respiratory sumulant (Medifica ion of entry in Vol 1, 24th Edn p 1393)

Vanquin (Parke Davis) Pyrunium embonate (q v) available as a flavoured suspension containing the equivalent of 10 mg of anhvdrous base in each ml. Doze a single dose of 5 to 6 teaspoonfulls children a single dose equivalent to 5 mg of base per kg body weight

Varidase Buccal Tablets (Lederle) Esch contains streptokinise 10,000 units and streptodomase 2000 units For the control of inflammation and orderna sociestic with trauma or inflection. Does one tablet abovy dissolved in the mouth 4 times daily for at least 3 days. (For other Varidate preparations see Vol 1 24th Edn. 9 762)

Variderm Gintment (Pause & Bywe) Contains in each g the extract from fresh bovine placents 500 mg. For the treatment of slow healing wounds,

Vasculit (C H Bachringer Sohn Germany Pfizer) Bamethan sulpliste (q v) available as Drops containing 1°_{ee} and as Tablets of 12.5 mg

Vascutonex (Calme) A water nuscible cream containing diethylamine salicylate 10% and glycol salicylate 10%. For the relief of pain in rheumatic affections

Vasomed (Meda Clemicals) Trobutrste photphate (q v) available as tablets of 2 mg

[1] V-Ci IK (Luly) Phenoxymethylpenicilin potasium available as Pulvules (capsulei) of 123 mg and 250 mg as a Syrup containing 12 mg an each 5 md (supplied as granules for reconstitution with water before use) and an Tablets of 60 mg, 125 mg, and 250 mg, all strengths expressed as phenoxymethyl periodilin

[PI bit B] V-Cli K Sulpha (Lulp) Tablets each containing phenosymethyl pencillin poissium courselent to phenosymethylpencillin Distance and Parliantic Suspension contributions for any and Parliantic Suspension contributions of the suspension contribution of the suspension contribution of the suspension excit of hours chuldren M_3 to 2 teapoonfuls of the suspension excit of hours

[91 84B] Versetil (May & Bake) Methotnimeprazine (q, t), available in Ampoules of 1 ml each containing 25 mg of the by drochloride, and as Tablets of 5 mg and 100 mg of the acid malesite

Versitol (Bill & Soni) Concentrated protein hydrolysate at a viscous liquid containing anano acuis (16 to 18°_{\circ}) and ample polyrephiles (24 to 17°_{\circ}), with minerals and some members of the vistamin B complex Dote 1 tespoonful 3 to 5 times daily

[Fi 84B] Vespral (Squib) Fluopromaane hydrochloride (u v) ava lable as an Injection containing 20 mg in each ml in ampoules of 1 ml and visits of 5 ml and as Tablets of 10 mg and 25 mg

(Pt Att) Villescon Liquid (C III Borhmeyer Sahr Germany, Pfiner) Contant in each teapoordid 3 mil providmente hydrochorde (1 a propsibleneth) hydrorolidne bydrochloride) 23 mg, aneurane bydrochloride 17 mg, robolitavine 10 mg, prytokume hydrochloride 05 mg, and neuranamde 50 mg (2 or the treatment of dehity in convolutements and in the aged, Done 2 to 3 teapoonfols twice or thruce da by before media.

[19] Hill Villescon Tablets (C II Bookranger Sohn German, Ifizer) Exch conta na prolintane bydrocklosade (I x propspherechylpyrodulane hydrochlande) 10 mg anevarne hydrochlande 3 mg rikoläsine 3 mg priodaine hydrochlande 15 mg necennamide 15 mg, and ascerit excisio 3 mg 10 considescence stress strain, or overwerk Dure 1 er 2 tablets twee duly

[8] Vioform Hydrocortisone (Cob) Cream, Lotton, and Olintment each containing adochlorbydroxyquinoline 3% and hydrocritisons 1%, for the treatment of a wide range of also affections (For other Vioform perparations are Vol. 1, 24th Edn. p. 602). [8] Viomycan P (Distillers Co) A maxime of equal proportions (in terms of vompan bass) of viomycan sulphate and viomycan partothenate with the addition of 0 1% of edetic and as a stabilising agent Available in visit contain ing the equivalent of 1 g of viomycan bass. It is said to be better tolerated than the sulphate alone and less likely to cause add-effects

[8] Vionaciane (Ciba) A mixture of womycin sulphste and viomycin pantothenate, available in vials containing the equivalent of 1 g of viomycin base. It is said to be better tolerated then the sulphate alone and less likely to cause inde-effects.

[Pi] Virugoa (Bojer Prod.) Tablets each containing N'-(ininomorpholino methyl) guandine hydrochlonde (ABOB) 100 mg, stropine methonitrate 0 1 mg, and hyoscue methonitrate 0 1 mg

Varigon has been shown to have some beneficial influence in the prophylaxy and treatment of influences and other write undersons, including non influences upper respiratory infections in an assessment of the drug in Brit med J, (1961, 45, its is concluded that no the basis of the works for graphilished its hardly possible to farms a clear estimate of his therapeutic value. For a discussion influence with the source of the state of the source of the source of 1961, the source of the source of the source of the source of the 1961, Whenlie with the source of the source of the source of the 1961, below the source of the 1961, the source of the source of

Dose prophylactic one tablet three daily children, ¹/_a tablet three daily therapeutic, 2 tablets three daily children ¹/_a to 1 tablet three daily Both in prevention and treatment it should be given for a mainton of 7 days (preferably 10 days), even if a rapid chinesia response is obtained

Other Proprietory Names FLUMIDIN (Swed), also FLUMADON, STENITOL (Ger)

VoSoL Ear Drops (Dever Laboratorea) Contain propilens giveol diacetate (1,2-discetaxypropane) 3%, accus escit 2%, benzethonium chlerale 0 (02%), and propilene giveol For outune externs where there is an infective element present, Administration 5 drops instilled 3 or 4 times daily, prophylactic, 2 dropt in each ese might and morning

[P1 \$4B] Wardamate (Lense & Burrows) Meprobamate, symbols as tablets of 400 mg

Warduzide (Lenss & Burrows) Chlorothiazide (q v), available as tableta of 500 mg

Warfarm Sodium (B ard Blenhmop) Available in Ampoulus each containing 50 mg, and as Tablets of 3 mg, 5 mg, and 20 mg

Weildorm (Smith & Nyshen) Duchburghenzione, a complex of thoral budnet and phenzanen, studielle as sa Ellitei contaming 2¹/₂ grants in cachfind dirichm, as Pardiarite Tablets of 2¹/₂ grans, and as Tablets of 10 grans Scitture and hypotonc. Bore as a seditive 4¹/₂, to 1 tablespondiul of cluir or 1/₂ to 1 tablet, children, 1 to 3 trappoontivis of riture or 1 to 3 prediative tablets as a hypotonc. Bore as the sedimer 4¹/₂, to 1 tablet, children, 1 tablets, as a hypoton. Bore as the sedimer 4¹/₂ to 1 tablet, children, 2 to 6 tempoontia of eluter or 2 to 6 prediative tablets (Modefication of entry in Vol. 1, 2/the Educ 7 500 and 100 a

Wescodyne Surgical (Bengar) A detergent germutidal solution containing polychosypolypropoxypolychoxyethanol sodime complex 15 65%, nonylphenoxypolychorychanol sodime complex 15 11%, and hydrogen chloride 0 165% Thus tolution provider available adame not less than 2 4% and should be dulard 16 oz. to 1 gallon for use for thermometer instrument, and rown disanfection.

Xanthocillin. An antibiotic complex produced by Pencillium notatum It is used as an antiseptic for topical application in the treatment of infections of the mouth and throat.

Proprietary Namet it is an ingredient of LYVOLTY and LYVOTRACIA

Xylocane (*Airte Healett*) Preparations of lignocane and lignocane bydochloride formerly marketed under the name of Xylocane by Duncan Hockhard & Co Lud (see Vol 1 24th Edn pp 431 and 434) see now made and marketed by Astar Heviett Li Li a addition the following preparation as now sensible [PI 44B] Xylocane Solution for Insection with Noradrenaline containing lignocane bydochloride 2% and noradrenality 1 \$0,000

Xylometazoline Hydrochloride 2 (4-t Butyl 2 6-dimethylbenzyl) 2 imidazoline hydrochloride, CiaHaiNa, HCl=280 8

A nasal vasoconstructor which decongests and drams avolten nasal nuccas Its effects are said to last 4 to 6 hours It has been applied topically as a nasal solution (0 1%) or nessl spray (0 05 or 0 1%). Your effects are mild but may nethode rebound congestion, slight stangeng, dry nose, headache, drowsuness lightheadedness paiptiations, and a disagreeable taste

Proprietary Name OTHININ (USA)

Xylotox Ointment (Willows France) Contains lignocaine 5% in a watermiscible basis For rapid surface suresthesia of mucous membranes.

Xylotox Oral (Willow: France) A solution of henocaine hydrochloride 2% in a viscous basis For surface anesthesia of the upper digestive tract. Dose I dessertsponful to I tablesponful of tablesponful of

(For other Xylotox preparations see Vol I 24th Edn p 431)

Zactiziti (W) eth) Tablets each containing choheptszine citrate (q v) 75 mg, acetylisalicylic acid 325 mg and calcium carbonate 97 mg. For the relief of pain Dore 1 or 2 tablets 2 to 4 times daily.

Zarontin (Parke Datt) Ethosuxumide $(q \cdot)$ available as capsules of 250 my Zanulysin (Maw) Chymotrypsin $(q \cdot)$ in simpoules each containing 0.2 mg For use as a 1 in 5000 solution in catarate surgery

[P1] Zynocin (Dut ller Co) Lozenges each containing aanthocilin (q v) 1 mg and benzoesine 5 mg For the treatment of sore throats accompanying respiratory infections Doire 1 or 2 to be sucked slowly every 2 hours

If Zynotracian (Dutiliers Co). An ontiment containing in each $p \equiv zas$ bactracus 500 un is xanthocillin (q > 0 + 5 mg and hydrocortuone 10 n_k, in a wool fast and parafin basis for the treatment of commonly occurring infections of the sk n superfic al wounds and hurns, and infectiona of the outer ear

ADDENDA

[Pi Hil] Adroyd (Parke Davis) Oxymetholone (p 238) available as tablets of 5 mg

[P1 81 84A] Amylozine Spansules (Smith, Kline & French) Sustained release capules each containing amylobash ione 64 8 mg and influoperazine hydro chloride (p. 267) 2 mg For the rel of of agitation approchemision and insominia Date one capsule night or morning as required maximum 3 capsules daily

Astrafer IV (Attra Hendert) A h gh molecular weight non-carbohydrate complex in solutions solution available in anymoules of S rul containing the equivalent of 20 mg of travilent uon an each ml For the treatment of iron different parama. Date by show intrivenous injection a seconding to the harmoglobin deficiency approximately 150 mg of iron a needed for women and 200 mg for men to increase the hemoglobic notice to by the per 100 ml of blood. A trial does of 2 ml thould be given first and subsequent doese should and be more than 5 ml daily multi he total sclouds doe has been given

Dantyi (Les Laboratorie) A powder supplied in sachets each containing stannosilicylic and i g phenyl p animosilicylate 3 g and sucrose 3 g For the treatment of suberculosis Doie the contents of one sachet three daily in water or milk preferably with main meals

Dequadin Tulle (Allen & Hanburyi) A sterile bacteriostat o gauze dressing impremated with a soft non uncating basis containing dequations acceted 0.4% For application to varione and other unletter inflected wound a burns and schla operation wound a incased abscesses and varicoss ecterns. [For other Dequadin preparations use p 206 and Vol 1 24th Edn p 1326]

[#1 \$43] Distaval (Dutillers Ca)-see also p 210 Also as a lable as a Suspension containing 50 mg in each teaspoonful (5 ml)

(f) 41 Distavone (Duniller Co) A dry powder in vals each contains procume pencillin 300 000 units henrylpencillin (potssaum solt) 100 000 units and terptonycan sulphate equivalent to 500 mg of serroloxycan base, with sus pending and stabilising spens. For the preparation of aquivous suppensions for inframuscular injection. (Modification of enviry is Vol 1 24th Eds. p 1441)

Emeside (Laboratories for Applied Biology) Ethosuximide (p 214) available as expandes of 250 mg

Endurum (Abbott) Methyclathuszade (methyclothuszde 5-chloro 3-chloro methyl 34 dihydro 2 methyl 7 sulphamojibenzo-124 tihud aznae 11 diozade (74,10,10,26,26,360) 33 wariable sa tablets ol 25 mej and 5 mg A durette with an action issting at least 24 hours after a single dose. Dose 25 to 10 mg once daily

(P1 448] Euphoramin (R) day Laboratore) Tablets each containing meproba mate 300 mg and methylamphetanine hydrochlonide 5 mg For the treatment of depression associated with tension and anxiety Dose one tablet rule or three desity the fast dose should not be taken later than 4 hours before bedume

Febramine (Boots) Cetoxume hydrochlonde [(N benzylandino)acetamidox me monohydrochloride CysHy, ON [IGI=291 6] available as tablets of 100 mg An antibultum ne Dote one tablet 5 of 4 times dely

Framygen (Genatosan)--see also p 217 Also available as Sterilo Powder in containers of 500 mg and as Tablets of 500 mg

Gastrografin (Schemy A G Bein Pharmethicali Lendon) A 16° , advecus isolucon of the solution methyldocaten ne shi of distinction and with added favouring agents and a verting agent. A modification of Ungerafin (Vol. 1 24th Loip D20) for use as a constant medium in the radiological intertugation of the gastro-intestingl track. It may be given orally or receasily with or w thool barrun molinate Gina (Bayer Prod.) ProparyImitrate the trimitrie acid ester of 2-ethyl 2 by Jroxymethylpropane 13 dual (FTTM) etrymit etitinal trim trately assible a tablet of 10 mg A coronary rasod lator for relief of pain on anging pretors Doze one tablet tubliogually at the first warning of an attack. To prevet a stacks one tablet the daily

Hayphryn (Bayer Prod) A nasal apray containing phenylephnne hydrochloride 0.5% and thenyldiamine hydrochloride 0.1% in a plasue atomiser This product was formerly marketed under the name Neophryn with Anth's tamine (see Vol I 24th Eds p 61)

[P1 84B] Levonor (Genatoran) Levo ampletamine algunate $[(-) \alpha methy]$ phenethylamine algunate] available as tablets of 5 mg For reducing we ght by controlling appet te Dore one tablet thrace daily one hour before meals

Lucofen (Warner) 1 β Chlomphenyl 2 methylprop 2 ylamune hydrochloride (C₁₀H₄₁NCl HCl=220 2) available as tablets of 25 mg. For reducing we ght by controlling appetite *Dose* one tablet the ce daily before meals of 3 tablets daily with breakfast

[Pi 343] Majepti (May & Baker) Thiopropersize Methanesulphonate-7843 R P. Thiopersize Methanesulphonate NN D methyl 10-D-(4-meth) persize i tylpropyl/phenothazme 2 sulphonamide dimethanesulphonate C_H(H₂₀Q)NS, 2CH(Q)S - 633 9-waihble as a Solution containing 0.75° an ampoules of 1 ml and as Tablets of 1 mg Smg 10 mg and 23 mg

Thiopropersame is described as a psychootrective signal for use in the treatment of chicospherena and seven mains for the treatment of schurospherena mode seven mains for the treatment of schurospherena mode seven and the schurospherena terminet and schurospherena terminet and schurospherena terminet and schurospherena terminet period after which the drug is alorgedy subdrawn. The continuous 'neuhod employ after which the drug is alorgedy subdrawn. The continuous' method employ a forest dataset and neurological disturbances are several at a se space for schurosphere and the schurosphere and

Desclosing may occur not only in petents during in patient treatment but after discharge from horpstal on maintenance thereary. Actie positioning could also occur in child levies and the administration of so may of promethation by discubilized by interminediar insystems as an articles with or of promethation by discubilized being restored as a studies without the intransmustar injection of 10 md of parallelyide children should be given doars in properties to their arge Bashumates and other properties of bottom the treatment of the rage Bashumates and other properties of the parts of personal bound of the studies o

The manufacturers literature should be consulted for detailed information on initial dosage and maintenance therapy toxic effects, and contra indications

Matronal (Secrete UK-) Conservative (1 trans-conservative-depherapimenthyl-persame $C_{\rm eff}({\rm Hy},{\rm Hy},{\rm -358}$) so validable as tabletic of 15 mg An and material properties toxic effects and uses of the annihitation as described in Vol 1 24th Edu op 1101 3 Large dosen may potentiate the effects of barburates. *Dose* one tablet three daily increased if necessary is a total of 90 mg daily in divided doses

[B] Mycufradin Veriderm (Uppoin) An oniment, with a basis sporozimiting the lipids of human skin containing neomycin sulphate $0.5^{\circ}_{0,i}$ in tubes of 1 oz For the treatment of skin infections (For other Mycufradin preparations see Vol 1 24th Eds p 1420)

Ospolot (F B A Pharmacentural) Tetrihydro-2 p-sulphamoylphenyl 12thazne 11 dioxude (C₁13 QO₁₅S₂ = 200 H g For the trastment of all forms of splicpy except prot mal 1 tray he used slone or un combination with other anticonvulsants Doir 1 to 3 tablets da i yn divided dioxes chidren ⁴/₁ to 2 tablets dairyn divided dioxes.

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Periactin (March Sharp' & Dahm) Cyprobeptishen hydrochloride 14-65dioentolo, 2/2006/prishtershydrochlored-1-antehydroperatine hydrochloride mono hydrate Cylla, N, HCI H, O--341 9, available at tablet of 4 mg. An antagaonsi of both histmane and aerotaonus, used an the treatment of allenge and particuconditions Dose initial one tablet 3 or 4 times daily, to be adjusted according to response

[P1 \$1 \$4.h] Potensan (Medo-Chemacali) Tablets each containing dexamphetamine subplate 0.75 mg, sohambine hydrochlorida 5 mg, strychnine hydrochloride 0.5 mg, and smylobarbitone 15 mg. Dose 1 or 2 tablets three daily after meals (Modification of entry in Vol. 1, 24th Edn, p. 129)

[9] 44B] Primolut-Depot (Schering A G., Berlen Pharmsthicals, London) Hidroxyprogesterone caproste (p 222), available as a solution containing 125 or 250 rag per rul in benzyl benzoste and castor oil, in ampoules of 1 rul (Vloidfaction of entry in Vol 1, 24th Eds. p 971)

[9] til) Pro-Actidi (Burroughe Wellcome) Trapcolutione hydrochloride an susinned-action habiles of 10 mg with an antihistamune action lasting over a period of 19 to 24 hours Dete sdults and children over 10 years, one tablet swillowed whole between 6 and 7 pm, very severe cases 2 tablets every 24 hours (For Actual its Vol 1, 24 h Eas, p 1126)

Suppose (Sign). A germendal detergent stated to contain about 50% of the aumnonum soil of N-kuryl tereschory summe suppose acid. It is used in a dubtion of 1 in 10 for damfetting surgeal instruments and utenuis and for geneed use Signate FT contains the active constituent of Sproan 12% and Bactor FT. (benzylLuryldamethylamnonum bromide) 25%. It has sumlar user to Stoosan and ja used in a dubtion of 1 in 2011 water

Softramycin (Round)-see sho p. 256 Also svalshis as Sierila Foreder in multi-does value of 3 +m. each contanue [10 mg or 500 mg, supplet with 3-m1 ampoules of stenle sectomes soft-ent For use as dustang-ponder and in the preparation of solutions for insublication cost infected exprise, for compretes, for subcompactival nucleon, and for sectomal soft-for a pricing paralin to wounds, burns, versione where, and before the solution of a pricing paraline to wounds, burns, versione where, and before the solution of the solut

Sterioderm (Willow, France) A bastemedial gel containing heavyliarophane 0.01%, ophinylphenol 0.01%, and incorport alcohol 45% in an inter selly basis with a pH of 3.3 to 6.5 For rubbing must the hands siter scrubbing with toop and water before medical or augustal procedures

Tryptical (Merck Sharp & Dehmol. Annumpyine hydrochlonde [5 (1domethylanmoprophylashekidenuolajdy) chlarpti[1,4]stare. C₃Hi₂Mi,11Cl=313 9), available as an lajertion in 10-ml, vala contaming 10 mg in each ml, and as Tablets of 10 mg and 25 mg An antidepressant drug which relieves anxiety Contra indicated in glacotra, Tryptical thould note be even consurtedly with other analogeneating drug which relieves anxiety results of the second start of 2 mg in the second start of the second start of the second start of 2 mg in the second start of the second start of the second start of 2 mg in the second start of the second start of the second start of 2 mg intervenue second start of the second start of the second start of 2 mg intervenue second start of the second start of the second start of 2 mg intervenue second start of the second start of the second start of 2 mg intervenue second start of the second start of the second start of 2 mg intervenue second start of the second start of the second start of 2 mg intervenue second start of the second start of the second start of 2 mg intervenue second start of the second start of the second start of 2 mg intervenue second start of the second start of the second start of 2 mg intervenue second start of the second start of the second start of 2 mg intervenue second start of the second

Viacutan Tullo (Ward, Elembraco) An antareptic non adherent gauze dressing impregnated with methargen failter methylenebul? naphthyl-a aufhonstell, in a water toloble polytethylene glyool basis for application to burns, ulcers, pressure sorce, infected wounds, and lacerations (For other Viacuton preparations ise Vol. 24th Eds. p. 1167)

MANUFACTURERS OF PROPRIFT ARY MUDICINUS

The names and addresses of the manufactuters (or 1 str butors) f the propr etary medic nes mentioned in the Extra Pharn acone a Volume 1 74 h Ed t on and n the section on Ne v Drugs and Proprietary Med unes on pages 185 to 277 of this Supplement are listed below in alphabet cal order of the abbreviated names used in the texts of the two publications

This I treplaces that on pages xxv to xxxx of the Extra Pharmacopera Volume I 24th Edit on and records the changes that I are occurred since the comp lation of the original list

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