



DEPARTMENT OF MEDICAL & SANITARY SERVICES

Pharmacopœia of the Ceylon Hospitals.

T. B. SINGANAYAKE

NINTH EDITION

Kondavil West

KONDAVIL

and by order of Government

Kondavil

PRINTED AT THE
CEYLON GOVERNMENT PRESS,
COLOMBO.

1942.

Price Rs. 1.



S. Paramaswara.
Medical College.
Colombo. CEYLON.



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Cough Mixture.

Pot nit grv
Tr Spicacae m v
Spt Aether Nit m f
Tr opia Camph m xx
Aqua chloro oij

Sodii Bi Carb gr f
Spt Ammon. Atom m f
Spt Chloro f m xv
Tr Card Co m xv
Aqua menth pipis oij

Mist Aetheris Co.

Ammon Carb grt
Liq Ammon Fort m f
Aetheris m vi
Aqua Menth pipiad oij
(For exhaust ion after coughing)

Mist Carbon Tetrachloride

Carbon Tetrachlori m f
olei Chloropodi m f
Paraffin Mollis ad oij
(For Anchylostomiasis. To
be followed by a diet most
if necessary)

Mist Arsenic Acida.

Liq Arsen Hydri m iii
Aqua phosph Acid m xx
Syrup Nutanti q ss
Aqua. qd oij
(asa Jonic)

Mist Codeine

Codeine Phosph gr ss
Syrup Flori Sod m fv
"Prun Virginica m xv
Aqua chloro fasa oij

Mist Copaliba

Copailba m f
Liq Balsam m fv
Aqua cinna ad oij
(Copailba emulsi in with
Liq Polian & equal of the)

S. Paramaswara,
 Medical College,

Colombo

T. K. SIVAGNAM

L. A. M. P. (Cey)

Kondavil West

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Asthma mixt.

℞ of Menthae gt

Crocote m $\frac{iii}{iii}$

Trucilage qss

Sodii Bicarb. gr $\frac{xv}{xv}$

Pot Iod. gr $\frac{ix}{ix}$

℞ Stramon m $\frac{v}{v}$

Liq Arsenicalism $\frac{iii}{iii}$

℞ Camph Co m $\frac{xxx}{xxx}$

Easton's Syrup $\frac{ss}{ss}$

℞ q uen ad

T. K. SIVAGNAM
 L. A. M. P. (Cey)
 Kondavil West
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PREFACE TO NINTH EDITION.

OWING to the war it has been found necessary to enforce economy in drugs. With this object in view a list of essential drugs, which it is proposed to stock in future, has been prepared by the Emergency Drugs Committee. Consequently the revision of the Pharmacopœia for Ceylon Hospitals to exclude non-essential drugs from the formulæ for wartime use has been necessitated. Advantage has been taken of the revision to add some new matter. The vitamin and hormone preparations available for issue have been included. A separate section has been devoted to Dermatological formulæ. To ensure uniformity of treatment in the venereal clinics that have been established in various centres, a standard treatment has been briefly outlined.

Parts 5, 6 and 7 of the Eighth Edition have not been reproduced as their revision was not considered necessary at present. Reference must therefore be made to the Eighth Edition for any information contained in those sections.

In view of the rationing of food and the necessity for finding substitutes for the staple articles of diet, a memorandum on dietetics has been appended.

The valuable assistance rendered by several members of the Department in compiling this edition is gratefully acknowledged.

PHARMACOPŒIA
OF THE
CEYLON HOSPITALS.

SECTION I.—MEDICAL.

Capsules.

Recipe :—

Amyl Nitritis 5 minims
in each glass capsule.

For inhalation.

Haustus—Draughts.

1.—HAUSTUS CHLORALIS ET BROMIDI.

Recipe :—

Chloralis Hydratis 10 grains
Sodii Bromidi 30 grains
Tincturae Aurantii 5 minims
Aquam Chloroformi *ad* 1 ounce

2.—HAUSTUS PARALDEHYDI.

Recipe :—

Paraldehydi 60 minims
Tincturae Aurantii 10 minims
Aquam Chloroformi *ad* 1 ounce

(can be given with $\frac{1}{2}$ to 1 ounce of arrack if desired.)

3.—HAUSTUS MORPHINAE.

Recipe :—

Liquoris Morphinae Hydro-
chloridi 30 minims
Aquam Chloroformi *ad* 1 ounce

Injectiones—Injections.**1.—INJECTIO ADRENALINAE.***Recipe :—*

Liquoris Adrenalinae Hydro-	..	5 to 10 minims
chloridi (B.P.)		

2.—INJECTIO ATROPINAE.*Recipe :—*

Atropinae Sulphatis	..	1/100 grain
Aquam Destillatam	<i>ad</i>	15 minims

3.—INJECTIO CALCH GLUCONATIS.

Available in ampoules containing 5 and 10 c.c. of a 10 per cent. solution of Calcium Gluconate.

4.—INJECTIO CAMPHORAE AETHEREA.*Recipe :—*

Camphorae ..	..	3 grains
Aetheris ..	..	5 minims
Oleum Olivae ..	<i>ad</i>	15 minims

5.—INJECTIO DEXTROSI.

Available in ampoules containing 25 c.c. of a 25 per cent. solution of grape sugar.

6.—INJECTIO DIGITALINI.*Recipe :—*

Digitalini ..	..	1/100 grain
Aquam Destillatam	<i>ad</i>	15 minims

7.—INJECTIO EMETINAE.*Recipe :—*

Emetinae Hydrochloridi	..	1/3 to 1 grain
Aquam Destillatam	<i>ad</i>	15 minims

8.—INJECTIO EMETINAE CUM STRYCHNINA.*Recipe :—*

Emetinae Hydrochloridi	..	1/3 to 1 grain
Strychninae Sulphatis	..	1/60 to 1/30 grain
Aquam Destillatam	<i>ad</i>	15 minims

9.—INJECTIO EPHEDRINAE.

Available in ampoules of $1\frac{1}{2}$ c.c. containing $\frac{1}{2}$ grain of Ephedrine Hydrochloride.

10.—INJECTIO HEXAMINAE COMPOSITA.

Available in ampoules of 5 c.c. containing,

30 grains of Hexamine,
12 grains of Sodium Salicylate, and
3 grains of Caffeine Sodium Salicylate.

11.—INJECTIO HEPATIS.

Available in ampoules containing 2 c.c. of Liver Extract.

12.—INJECTIO HYOSCINAE.

Recipe :—

Hyoscinæ Hydrobromidi	..	1/200 grain
Aquam Destillatam	ad	10 minims

13.—INJECTIO INSULINI.

Available in 5 c.c. vials containing 20 units of Insulin per c.c.

14.—INJECTIO LOBELINAE (for adults).

Available in ampoules of 1 c.c. containing 10 milligrammes of Lobeline Hydrochloride.

15.—INJECTIO MORPHINAE.

Recipe :—

Morphinæ Hydrochloridi	..	$\frac{1}{4}$ grain
Aquam Destillatam	ad	10 minims

16.—INJECTIO MORPHINAE CUM ATROPINA.

Recipe :—

Morphinæ Hydrochloridi	..	$\frac{1}{4}$ grain
Atropinæ Sulphatis	..	1/100 grain
Aquam Destillatam	ad	10 minims

17.—INJECTIO MERCURAMIDAE (NEPTAL).

Available in 1 c.c. ampoules containing 0·92 gramme of active product.

18.—INJECTIO NIKETHAMIDI (CORAMINE).

Available in ampoules containing 1·7 c.c. of a 25 per cent. solution of Nikethamide (B. P.).

19.—INJECTIO PITUITARII (POSTERIOR LOBE EXTRACT).

Available in $\frac{1}{2}$ c.c. and 1 c.c. ampoules. 1 c.c. contains 10 international units.

20.—INJECTIO SULPHANILAMIDI.

Available in ampoules containing 5 and 10 c.c. of a 5 per cent. solution of Sulphanilamide and 10 c.c. of a 10 per cent. solution.

21.—INJECTIO SODIUM—SULPHAPYRIDINI (DAGENAN SODIUM—M & B 693).

Available in 3 c.c. ampoules containing 1 gramme of Sodium Sulphapyridine.

Linimenta—Liniments.

1.—LINIMENTUM CAMPHORAE.

Recipe :—

Camphorae	..	1 ounce
Olei Cocois Nuciferae	..	9 ounces

2.—LINIMENTUM TEREBINTHINAE.

Recipe :—

Saponis Mollis	..	30 grains
Olei Terebinthinæ	..	240 minims
Aquam Destillatam	ad	1 ounce

Linctus.

LINCTUS SCILLAE COMPOSITUS.

Recipe :—

Aceti Scillae	..	30 minims
Tincturae Opii Camphoratae	..	15 minims
Glycerinum	ad	60 minims

Misturae—Mixtures.

(Adult dose = 1 ounce, unless otherwise stated.)

1.—MISTURA ALBA.

Recipe :—

Sodii Sulphatis	..	90 grains
<i>Vel</i> Sodii Sulphahtis Exsiccati	..	45 grains
Magnesii Carbonatis	..	15 grains
Aquam Menthae Piperitae		
<i>Vel</i> Aquam Cinnamomi	<i>ad</i>	1 ounce

2.—MISTURA ALKALINA.

Recipe :—

Sodii Bicarbonatis	..	10 grains
Sodii Citratis	..	30 grains
Tincturae Hyoscyami	..	20 minims
*Tincturae Tinosporae	..	30 minims
Aquam	<i>ad</i>	1 ounce
*(Sinhalese	..	Rasakinda
Tamil	..	Sindil)

3.—MISTURA AMMONII CHLORIDI.

Recipe :—

Ammonii Chloridi	..	10 grains
Tincturae Aurantii	..	10 minims
Aquam Chloroformi	<i>ad</i>	1 ounce

4.—MISTURA ASTHMATICA.

*Asthma mixture**Recipe* :—

Sodii Iodidi <i>or Pot Iod.</i>	..	5 grains
Tincturae Belladonnae	..	10 minims
Tincturae Stramonii	..	15 minims
Tincturae Adhatodae <i>Lobeli Asth.</i>	..	30 minims <i>15 minims</i>
Tincturae Scillae <i>or Symp Salb.</i>	..	20 minims
Aquam Chloroformi	<i>ad</i>	1 ounce

5.—MISTURA ASTRINGENS.

Recipe :—

Cretae	..	15 grains
Tincturae Opii	..	15 minims
Mucilaginis	..	q. s.
Aquam	ad	1 ounce
<i>To Caltheda</i>		<i>15 minims</i>

6.—MISTURA BISMUTHI SEDATIVA.

Recipe :—

Sodii Bicarbonatis	..	10 grains
Bismuthi Carbonatis	..	10 grains
Liquoris Morphinae Hydrochlori	..	10 minims
Aquam	ad	1 ounce

7.—MISTURA BROMIDI.

Recipe :—

Sodii Bromidi	..	20 grains
Aquam Chloroformi	ad	1 ounce

8.—MISTURA CALCII LACTATIS.

Recipe :—

Calcii Lactatis	..	20 grains
Aquam Chloroformi	ad	1 ounce

9.—MISTURA CARMINATIVA.

Recipe :—

Sodii Bicarbonatis	..	10 grains
Spiritus Ammoniae Aromatici	..	20 minims
Aquae Chloroformi	<i>or Sp. Chloroform</i>	$\frac{1}{2}$ ounce
Aquam Cinnamomi	ad	1 ounce

10.—MISTURA DIAPHORETICA.

Recipe :—

Sodii Citratis	..	10 grains
*Tincturae Aeruae Lanatae	..	30 minims
Liquoris Ammonii Acetatis	..	120 minims
Aquam Cinnamom	ad	1 ounce

*(Sinhalese	..	Polkudupala
Tamil	..	Kamppulikirai)

11.—MISTURA DIURETICA.

Recipe :—

Sodii Citratis ..	..	30 grains
*Tincturae Aerusae Lanatae ..	..	30 minims
Tincturae Hyoscyami ..	..	15 minims
†Tincturae Tinosporae ..	..	30 minims
Aquam ..	ad	1 ounce

(to which 10 to 15 minims of the Tincture of Digitalis may be added if desired.)

*(Sinhalese ..	Polkudupala.
Tamil ..	Kampulikirai.)
†(Sinhalese ..	Rasakinda.
Tamil ..	Sindil.)

12.—MISTURA HEPATICA.

Recipe :—

Sodii Salicylatis ..	..	10 grains
Ammonii Chloridi ..	..	10 grains
Tincturae Aurantii	2 or 3 grains	10 minims 15
Aquam Chloroformi	infused with	ad 1 ounce
3 or 4 Capsica	3 m.	
1 or 2 Beratairi Leaf	3 ss.	

13.—MISTURA HYDRARGYRI IODIDI.

Recipe :—

Liquoris Hydrargyri Perchloridi	25 minims
Sodii Iodidi ..	.. 10 grains
Spiritus Ammoniae Aromatici..	.. 15 minims
Aquam Cinnamomi	ad 1 ounce

14.—MISTURA INFLUENZA.

Recipe :—

Sodii Salicylatis ..	..	10 grains
Sodii Citratis ..	..	10 grains
*Tincturae Aerusae Lanatae ..	..	30 minims
Liquoris Ammonii Acetatis ..	..	120 minims
Aquam Cinnamomi	ad	1 ounce
*(Sinhalese ..	Polkudupala.	
Tamil ..	Kampulikirai.)	

15.—EMULSIO OLEI VITAMINATI.

Recipe :—

Olei Vitaminati	..	60 minims
Mucilaginis Acaciae	..	q. s.
Aquam Cinnamomi	<i>ad</i>	1 ounce

16.—EMULSIO OLEI VITAMINATI COMPOSITA.

Recipe :—

Olei Vitaminati	..	60 minims
Creosoti	..	3 minims
Extracti Nucis Vomicae Liquidi		1 minim
Tincturae Opii Camphoratae	..	30 minims
Mucilaginis Acaciae	..	q. s.
Aquam	<i>ad</i>	1 ounce

17.—EMULSIO OLEI RICINI COMPOSITA.

Recipe :—

Olei Ricini	..	60 minims
Phenolis Liquefacti	..	2 minims
Tincturae Opii	..	10 minims
Liquoris Hydrargyri Perchloridi		30 minims
Mucilaginis Acaciae	..	q. s.
Aquam Chloroformi	<i>ad</i>	1 ounce

18.—MISTURA QUININAE.

Recipe :—

Quininae Sulphatis	..	
<i>Vel</i> Quininae Bisulphatis	..	7½ grains
Acidi Sulphurici Diluti	..	q. s.
Aquam	<i>ad</i>	1 ounce

19.—MISTURA RHEUMATICA.

Recipe :—

Sodii Salicylatis	..	15 grains
Sodii Bicarbonatis	..	15 grains
Spiritus Ammoniae Aromatici	..	15 minims
Aquam Chloroformi	<i>ad</i>	1 ounce

Liq Ammon Aromat
Sig. sup. Aromat

J. T.
J. T.

20.—MISTURA SALINA.

Recipe :—

Sodii Sulphatis	..	120 grains
Vel Sodii Sulphatis Exsiccati	..	60 grains
Aquam Cinnamomi	ad	1 ounce

21.—MISTURA SALINA PRO TUSSE.

Recipe :—

Sodii Bicarbonatis	..	10 grains
Sodii Chloridi	..	3 grains
Spiritus Ammoniac Aromatici	..	15 minims
Aquam Cinnamomi	ad	1 ounce

22.—MISTURA SIMPLEX PRO TUSSE.

Recipe :—

Tincturae Adhatodae	..	30 minims
Sodii Citratis	..	10 grains
Spiritus Ammoniac Aromatici	..	15 minims
Tincturae Opii Canphoratae	..	20 minims
Aquam Chloroformi	ad	1 ounce

23.—MISTURA SODII IODIDI PRO TUSSE.

Recipe :—

Sodii Iodidi	..	3 grains
Ammonii Carbonatis	..	3 grains
Sodii Bicarbonatis	..	15 grains
Spiritus Ammoniac Aromatici	..	15 minims
Aquam Chloroformi	ad	1 ounce.

24.—MISTURA STIMULANS PRO TUSSE.

Recipe :—

Ammonii Carbonatis	..	2½ grains
Tincturae Adhatodae	..	30 minims
Tincturae Opii Camphoratae	..	20 minims
Tincturae Scillae	..	20 minims
Spiritus Ammoniac Aromatici	..	20 minims
Aquam Chloroformi	ad	1 ounce

25.—MISTURA SODII CITRATIS.

Recipe :—

Sodii Citratis ..	∴	30 grains
Sodii Bicarbonatis ..	∴	15 grains
Liquoris Ammonii Acetatis ..	∴	60 minims
Aquam Chloroformi	<i>ad</i>	1 ounce

26.—MISTURA SODII IODIDI.

Recipe :—

Sodii Iodidi ..	∴	5 grains
* Tincturae Coscinii ..	∴	30 minims
Aquam Chloroformi	<i>ad</i>	1 ounce
*(Sinhalese .. Weniwel		
Tamil .. Maramanjil.)		

27.—MISTURA SODII BICARBONATIS CUM COSCINIO.

(replacing Soda and Gentian Mixture.)

Recipe :—

Sodii Bicarbonatis ..	∴	10 grains
* Tincturae Coscinii ..	∴	30 minims
Aquam ..	<i>ad</i>	1 ounce
* (Sinhalese .. Weniwel		
Tamil .. Maramanjil)		

28.—MISTURA STIMULANS.

Recipe :—

Ammonii Carbonatis ..	∴	5 grains
Spiritus Ammoniae Aromatici ..	∴	60 minims
Aquam Chloroformi	<i>ad</i>	1 ounce

29.—MISTURA TONICA ET STIMULANS.

Recipe :—

Ferri et Ammonii Citratis ..	∴	10 grains
<i>Vel</i> Liquoris Ferri Perchloridi ..	∴	5 minims
Liquoris Arsenicalis ..	∴	2 minims
Extracti Nucis Vomicae Liquidi		1 minim
Spiritus Ammoniae Aromatici ..	∴	20 minims
Aquam Cinnamomi	<i>ad</i>	1 ounce

30.—MISTURA TETANUS.

Recipe :—

Sodii Bromidi ..	15 grains
Chloralis Hydratis ..	15 grains
Liquoris Morphinae Hydrochloridi ..	30 minims
Tincturae Hyoscyami ..	20 minims
Aquam Chloroformi ..	ad 1 ounce.

Pilulae—Pills.

(Quantities to make one pill.)

PILULA DIURETICA (GUY'S)

Recipe :—

Pilulae Hydrargyri ..	1 grain
Scillae Pulveratae ..	1 grain
Digitalis Pulveratae ..	1 grain
Extracti Hyoscyami ..	1½ grains

Pulveres—Powders.

1.—PULVIS ALKALINUS.

Recipe :—

Sodii Bicarbonatis ..	20 grains
Magnesi Carbonatis ..	20 grains
Bismuthi Carbonatis ..	20 grains

2.—PULVIS ASPIRINI COMPOSITUS.

Recipe :—

Acidi acetyl-salicylici ..	5 grains
Caffeinae Citratis ..	2 grains

(to which Codeine $\frac{1}{4}$ grain may be added if desired.)

3.—PULVIS ASTRINGENS.

Recipe :—

Bismuthi Carbonatis ..	15 grains
Ipecacuanhae et Opii Pulveris ..	5 grains

Solutiones—Solutions (for Subcutaneous or Intravenous Injection).**1.—SOLUTIO GLUCOSI (5 PER CENT.)***Recipe :—*

Glucosi ..	..	1 ounce
Aquam Destillatam	ad	1 pint

2.—SOLUTIO GLUCOSI ET SODII CHLORIDI.*Recipe :—*

Glucosi ..	..	$\frac{1}{2}$ ounce
Sodii Chloridi ..	..	45 grains
Aquam Destillatam	ad	1 pint

3.—SOLUTIO SALINA—NORMAL SALINE.*Recipe :—*

Sodii Chloridi ..	..	80 grains
Aquam Destillatam	ad	1 pint

Suppositorium—Suppository.**SUPPOSITORIUM MORPHINAE.***Recipe :—*

Morphinae Hydrochloridi ..	..	$\frac{1}{2}$ grain
Saponem Durum	ad	15 to 30 grains

Tabellae—Tablets.**1.—TABELLA ACETARSONAE. (STOVAR SOL.).**

each tablet contains 4 grains.

2.—TABELLA CHINIOFONI. (QUINOXYL.)

each tablet contains 0.25 gramme.

3.—TABELLA EPHEDRINAE.each tablet contains $\frac{1}{2}$ grain of Ephedrine Hydrochloride.**4.—TABELLA FERRI CARBONATIS SACCHARATI.**

each tablet contains 5 grains.

5.—TABELLA MEFACRINAE HYDROCHLORIDI
(IN PLACE OF ATEBRIN.)

each tablet contains $1\frac{1}{2}$ grains.

6.—TABELLA PAMAQUINAE (IN PLACE OF
PLASMOQUINE.)

each tablet contains $\frac{1}{8}$ grain.

7.—TABELLA SULPHAPYRIDINI—(DAGENAN—
M & B 693.)

each tablet contains 0·5 gramme.

8.—TABELLA SULPHANILAMIDI.

each tablet contains 0·5 gramme.

9.—TABELLA THYROIDEI.

each tablet contains 2 grains of dried Thyroid
Extract.

SODIUM DIPHENYL HYDANTOINATE CAPSULE

each capsule contains $1\frac{1}{2}$ grains of
Sodium Diphenyl Hydantoinate

VITAMIN PREPARATIONS.

Vitamins A & D—Oleum Vitaminatum.

1 gramme contains 2000 international units of
Vitamin A and 100 international units of Vitamin D.
Vitamin B₁—

(1) Tablets—each tablet contains 1 milligramme of
Aneurine (Thiamine) Hydrochloride.

(500 international units.)

(2) Ampoules—each ampoule (1 c.c.) contains
2 milligrammes of Thiamine Hydrochloride.

(1000 international units.)

Vitamin B₂ Complex—

Nicotinic Acid—each tablet contains 50 milli-
grammes of Nicotinic Acid.

Riboflavine—

(1) Tablets—each tablet contains 1 milligramme of Riboflavine.

(2) Ampoules—each ampoule (2 c.c) contains 1 milligramme of Riboflavine.

Vitamin C—

(1) Tablets—each tablet contains .05 gramme of Ascorbic Acid.

(1000 international units.)

(2) Ampoules—each ampoule (5 c.c.) contains 0.5 gramme of Ascorbic Acid.

(10,000 international units.)

Vitamin E—available in capsules, each capsule contains 3 minims equivalent to 75 minims of Wheatgerm oil, or 6 milligrammes of tocopherol

Vitamin K—

(1) Tablets—each tablet contains 10 milligrammes of Vitamin K.

(2) Ampoules—each ampoule (1 c.c.) contains 5 milligrammes of Vitamin K.

SECTION II.—SURGICAL.

Injectio Quininae cum Urethana.

Recipe :—

Quininae Dihydrochloridi	..	0.26 gramme (4 grains)
Urethanae	..	0.13 gramme (2 grains)
Aquam Destillatam	<i>ad</i>	2 c.c.

Lotiones—Lotions.

1.—LOTIO ACIDI BORICI.

Recipe :—

Acidi Borici	..	..	17½ grains
Aquam	..	<i>ad</i>	1 ounce

2.—LOTIO PHENOLIS—CARBOLIC LOTION.

Recipe :—

Phenolis Liquefacti	..	1 ounce
Aquam	..	<i>ad</i> 1 pint

(for immersion of surgical instruments.)

3.—LOTIO CHLORI *Vel* E. C.—E. C. SOLUTION.

The Electrolytic Chlorine solution (1 per cent.) is diluted in the proportion of 2 drachms to 1 pint of water, for use as a disinfectant.

This may be used for the treatment of burns of the body or for granulating burn wounds.

4.—LOTIO EVAPORANS—EVAPORATING LOTION.

Recipe :—

Ammonii Chloridi	..	5 grains
Spiritus Chirurgicalis	..	$\frac{1}{2}$ ounce
Aquam	..	<i>ad</i> 1 ounce

5.—LOTIO ACRIFLAVINAE—ACRIFLAVINE LOTION.

1 in 1000 solution.

6.—LOTIO HYDRARGYRI BINIODIDI ALCOHOLICA
BINIODIDE SPIRIT LOTION.*Recipe* :—

Hydrargyri Perchloridi	..	10 grains
Sodii Iodidi	..	38 grains
Spiritus Chirurgicalis	..	1 pint

(will not corrode metal instruments.)

7.—LOTIO HYDRARGYRI PERCHLORIDI—PER-
CHLORIDE OF MERCURY LOTION.

1 in 2000 solution.

8.—LOTIO SODII SULPHATIS—SODIUM SULPHATE
LOTION.

(saturated solution 1 in 1.)

9.—LOTIO ASTRINGENS.

Recipe :—

Zinci Sulphatis	..	1 grain
Aluminis	..	1 grain
Aquam	..	<i>ad</i> 1 ounce

10.—LOTIO HYPERTONICA.

Recipe :—

Sodii Sulphatis	..	52½ grains
Aquam	..	<i>ad</i> 1 ounce

11.—LOTIO SALINA—NORMAL SALINE.

Recipe :—

Sodii Chloridi	..	4 grains
Aquam Destillatam	..	<i>ad</i> 1 ounce

12.—LOTIO NIGRA—BLACK WASH.

Recipe :—

Hydrargyri Subchloridi	..	3 grains
Liquorem Calcii Hydroxidi	..	<i>ad</i> 1 ounce

13.—LOTIO PLUMBI CUM OPIO.

Recipe :—

Tincturae Opii	..	20 minims
Liquorem Plumbi Sub-Actatis	..	
Dilutam	..	<i>ad</i> 1 ounce

Mistura Eserinae.

Recipe :—

Eserinae Sulphatis	..	1/32 grain
Liquoris Strychninae Hydrochloridi	..	3 minims
Sodii Sulphatis	..	60 grains
Aquam Cinnamomi	..	<i>ad</i> 1 ounce

OLEUM ANTISEPTICUM—CATHETER OIL.

Recipe :—

Phenolis Liquefacti	..	½ ounce
Olei Arachis	..	2 ounces
Olei Ricini	..	7½ ounces

Pastae—Pastes.**1.—PASTA BISMUTHI—BISMUTH PASTE.***Recipe :—*

Bismuthi Carbonatis	..	$\frac{1}{2}$ ounce
Paraffini Mollis	..	1 ounce

2.—PASTA BISMUTHI ET IODOFORMI—B. I. P. PASTE.*Recipe :—*

Bismuthi Carbonatis	..	60 grains
Iodoformi	..	45 grains
Paraffinum Liquidum	<i>ad</i>	1 ounce

3.—PASTA ZINCI COMPOSITA—LASSAR'S PASTE.*Recipe :—*

Zinci Oxidi	..	120 grains
Amyli	..	120 grains
Acidi Salicylici	..	10 grains
Paraffinum Molle	<i>ad</i>	1 ounce

4.—PASTA SULPHONAMIDI—SULPHONAMIDE PASTE.

5 gramme packets of Sulphonamide should be provided. Mix the Sulphonamide with Acriflavine (1 in 1000) to make a thick paste—Maximum dose of powder—6 packets.

(for application to contaminated wounds).

Pulveres—Powders.**1.—PULVIS ACIDI BORICI COMPOSITUS.***Recipe :—*

Acidi Borici	..	60 grains
Amyli	..	120 grains
Zinci Oxidum	<i>ad</i>	1 ounce

2.—PULVIS IODOFORMI ET ACIDI BORICI.

Recipe :—

Iodoformi ..	..	120 grains
Acidum Borici..	<i>ad</i>	1 ounce

3.—PULVIS ZINCI ET AMYLI.

Recipe :—

Zinci Oxidi ..	..	..
Amyli ..	<i>ad</i>	partes aequales

Unguenta—Ointments.

1.—UNGUENTUM ACIDI BORICI.

Recipe :—

Acidi Borici ..	..	60 grains
Paraffinum Molle	<i>ad</i>	1 ounce

2.—UNGUENTUM ZINCI.

Recipe :—

Zinci Oxidi ..	..	60 grains
Paraffinum Molle	<i>ad</i>	1 ounce

3.—UNGUENTUM ACIDI BORICI ET ZINCI.

Recipe :—

Acidi Borici ..	..	30 grains
Zinci Oxidi ..	..	30 grains
Paraffinum Molle	<i>ad</i>	1 ounce

4.—UNGUENTUM HYDRARGYRI AMMONIATI
• DILUTUM.*Recipe* :—

Hydrargyri Ammoniati	..	48 grains
Paraffinum Molle	<i>ad</i>	1 ounce

5.—UNGUENTUM ICTHAMMOLIS ET BELLADONNAE.

Recipe :—

Icthammolis ..	..	30 grains
Extracti Belladonnae	..	30 grains
Paraffinum Molle	<i>ad</i>	1 ounce

Burns.**1.—TANNIC ACID JELLY—(FOR FIRST AID TREATMENT).***Recipe :—*

Acidi Tannici ..	..	90 grains
Tragacanthis ..	..	6 grains
Chloroformi ..	..	3 minims
Spiritus Vini Rectificati	..	10 minims
Aquam Destillatam	<i>ad</i>	1 ounce

2.—BETTMAN METHOD OF TREATMENT OF BURNS.

- (1) Anaesthetise patient.
- (2) Wash with soap and water.
- (3) Dry.
- (4) Paint 5 per cent. Tannic Acid Solution (freshly prepared).
- (5) Dry by hot air (if available).
- (6) Paint 10 per cent. Silver Nitrate Solution.

Repainting may be done over areas where scab is thin.

SECTION III.—OBSTETRICAL AND GYNAECOLOGICAL FORMULAE.**Injectiones—Injections.****1.—INJECTIO ERGOTINAE.***Recipe :—*

Ergotinae Citratis	..	1/100 grain
Aquam Destillatam	<i>ad</i>	15 minims

2.—INJECTIO ERGOMETRINAE.

Available in ampoules of 1 c.c. containing 0.5 milligramme of Ergometrine.

3.—INJECTIO LÖBELINAE (FOR INFANTS).

Available in ampoules of 1 c.c. containing 3 milligrammes of Lobeline Hydrochloride.

4.—INJECTIO OESTRONAE (FOLLICULAR HORMONE).

Available in two strengths :—

- (a) Ampoule containing 1 milligramme of Oestradiol Benzoate (10,000 international Benzoate units).
- (b) Ampoule containing 5 milligrammes of Oestradiol Benzoate (50,000 international Benzoate units).

5.—INJECTIO PROGESTERONAE (LUTEAL HORMONE).

Available in ampoules of 1 c.c. containing 2 milligrammes (2 international units) of Progesterone.

6.—INJECTIO PITUITARI OBSTETRICA (OXYTOCIC PRINCIPLE).

Available in ampoules of $\frac{1}{2}$ c.c. containing 5 international units.

7.—INJECTIO PAPAVERETI (Opoidine).

Available in ampoules of 1 c.c. containing $\frac{1}{8}$ grain of Papaveretum.

8.—INJECTIO PAPAVERETI ET SCOPALAMINAE.

Available in ampoules of 1 c.c. containing $\frac{1}{8}$ grain of Papaveretum and $\frac{1}{150}$ grain of Scopalamine Hydrobromide.

9.—INJECTIO VERATRONAE.

Available in 1 c.c. ampoules.

Misturæ—Mixtures.

1.—THREATENED ABORTION MIXTURE.

Recipe :—

Sodii Bromidi . . . . .	..	10 grains
Tincturæ Opii . . . . .	..	10 minims
Liquoris Viburnæ Prunifolii . . . . .	..	30 minims
Aquam Chloroformi	ad	1 ounce

2.—MISTURA QUININAE CUM ERGOTA.

Recipe :—

Quininae Bisulphatis	..	2 grains
Extracti Ergotae Liquidi	..	15 minims
Aquam Chloroformi	<i>ad</i>	1 ounce

(If water is hard a few drops of acid are needed to dissolve Quinine.)

3.—MISTURA QUININAE CUM OPIO.

Recipe :—

Quininae Bisulphatis	..	2 grains
Tincturae Opii	..	5 minims
Spiritus Ammoniac Aromatici	..	15 minims
Aquam Chloroformi	<i>ad</i>	1 ounce

Solutions for Vaginal Douches.

1. Alum, $\frac{1}{2}$ drachm to a pint of water.
2. Boric Acid, saturated.
3. Dettol, 1 ounce to a pint of water.
4. Liquor Iodi Mitis, 1 drachm to a pint of water.
5. Mercury Perchloride, 1 in 1000 and 1 in 2000.
6. Hypertonic Saline, 2 drachms of Sodium Chloride to a pint of water.
7. Normal Saline, 80 grains of Sodium Chloride to a pint of water.

Solution for Vaginal Tampon.*Recipe* :—

Icthammolis	..	60 grains
Liquoris Iodi Mitis	..	60 minims
Glycerini	..	1 ounce

Tabellae—Tablets.

1. Tabella Oestronae, (follicular hormone) each tablet contains 1000 international Benzoate units of Oestrodioi Benzoate.
2. Tabella Pituitarii, (anterior pituitary hormone), each tablet contains 150 rat units.

SECTION IV.—FORMULAE FOR THE SKIN.

Lotiones—Lotions.

1.—LOTIO CALAMINAE.

Recipe :—

Calaminae	..	..	30 grains
Zinci Oxidi	..	..	20 grains
Glycerini	..	..	60 minims
Liquoris Calcii Hydroxidi	..	..	240 minims
Aquam	..	<i>ad</i>	1 ounce

2.—LOTIO CALAMINAE CUM SULPHURE.

Recipe :—

Iethammolis	..	..	5 grains
Sulphuris Precipitati	..	..	2 grains
Calaminae	..	..	60 grains
Zinci Oxidi	..	..	60 grains
Liquoris Plumbi Subacetatis			
Fortis	..	..	$\frac{3}{4}$ minim
Olei Coccois Nuciferae	..	..	150 minims
Adipis Lanae Anhydrosi	..	..	6 grains
Liquorem Calcii Hydroxidi		<i>ad</i>	1 ounce

Unguenta.

1.—UNGUENTUM CALAMINAE.

Recipe :—

Calaminae	..	..	88 grains
Paraffinum Molle		<i>ad</i>	1 ounce

2.—UNGUENTUM WHITFIELD.

Recipe :—

Acidi Salicylicii	..	..	24 grains
Acidi Benzoici	..	..	33 grains
Olei Coccois Nuciferae	..	..	360 minims
Paraffinum Molle		<i>ad</i>	1 ounce

3.—FOUR OINTMENTS.

Recipe :—

Unguenti Picis Carbonis. . .
 Unguenti Acidi Salicylici.
 Unguenti Hydrargyri Ammoniatu Diluti.
 Unguenti Zinci $\bar{a}\bar{a}$ partes aequales.

4.—UNGUENTUM ACIDI SALICYLICI.

Recipe :—

Acidi Salicylici	..	8 grains
Paraffinum Molle	ad	1 ounce

5.—UNGUENTUM PICIS CARBONIS.

Recipe :—

Liquoris Picis Carbonis	..	30 minims
Paraffinum Molle	ad	1 ounce

6.—UNGUENTUM SULPHURIS COMPOSITUM.

Recipe :—

Sulphuris Sublimati	..	$\frac{3}{4}$ ounce
Calcii Carbonati	..	$\frac{1}{2}$ ounce
Picis Liquidae	..	$\frac{3}{4}$ ounce
Paraffini Mollis	..	$1\frac{1}{2}$ ounces
Saponis Mollis	..	$1\frac{1}{2}$ ounces

Pigmentum Iodi Compositum.

Recipe :—

Iodi Sublimati . .	..	5 grains
Sodii Iodidi . .	..	10 grains
Acidi Boracici . .	..	10 grains
Acidi Salicylici	..	25 grains
Tincturae Benzoini Compositi	..	60 minims
Liquoris Picis Carbonis	..	30 minims
Spiritus Chirurgicallis	ad	1 ounce

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SECTION V.—FORMULAE FOR THE EAR,
NOSE AND THROAT.

Collunarium—Nasal Wash.

COLLUNARIUM-ALKALINUM.

Recipe :—

Sodii Bicarbonatis	..	3 grains
Sodii Chloridi ..	..	3 grains
Phenolis Liquefacti	..	1 minim
Glycerini ..	..	45 minims
Aquam ..	<i>ad</i>	1 ounce

Gargarismata—Gargles.

1.—GARGARISMA PHENOLIS.

Recipe :—

Phenolis Liquefacti	..	3 minims
Glycerini ..	..	60 minims
Aquam ..	<i>ad</i>	1 ounce

2.—GARGARISMA ACIDI TANNICI.

Recipe :—

Acidi Tannici ..	..	12 grains
Aquam Cinnamomi	<i>ad</i>	1 ounce

3.—GARGARISMA SODII PERMANGANATIS.

Recipe :—

Sodii Chloridi ..	..	5 grains
Liquoris Sodii Permanganatis	..	5 minims
Aquam ..	<i>ad</i>	1 ounce

4.—GARGARISMA ZINCI SULPHATIS.

Recipe :—

Zinci Sulphatis	..	5 to 10 grains
Aquam ..	<i>ad</i>	1 ounce

5.—GARGARISMA SODII CHLORATIS.

Recipe :—

Sodii Chloratis	..	20 grains
Glycerini ..	..	72 minims
Aquam ..	<i>ad</i>	1 ounce

Guttae Pro Auribus—Drops for the Ears.

1.—GUTTAE ANTISEPTIC.

Recipe :—

Acidi Borici ..	..	20 grains
Phenolis Liquefacti ..	..	20 minims
Spiritus Vini Rectificati ..	..	$\frac{1}{2}$ ounce
Glycerini ..	<i>ad</i>	1 ounce

2.—GUTTAE COCAINAE.

Recipe :—

Cocainae Hydrochloridi ..	..	10 grains
Phenolis Liquefacti ..	..	10 minims
Aq am Destillatam ..	<i>ad</i>	1 ounce

3.—GUTTAE PHENOLIS.

Recipe :—

Phenolis Liquefacti ..	..	8 minims
Glycerini ..	..	1 ounce

4.—GUTTAE ACIDI BORICI.

Recipe :—

Acidi Borici ..	..	15 grains
Spiritus Vini Rectificati ..	..	1 ounce

5.—GUTTAE SODII BICARBONATIS.

Recipe :—

Sodii Bicarbonatis ..	..	10 grains
Glycerini ..	..	1 ounce

Nebulae—Sprays.

1.—NEBULA PHENOLIS.

Recipe :—

Phenolis Liquefacti ..	..	1 to 2 minims
Sodii Bicarbonatis ..	..	6 grains
Glycerini ..	..	20 minims
Aquam ..	<i>ad</i>	1 ounce

2.—NEBULA ALKALINA.

Recipe :—

Sodii Bicarbonatis	..	3½ grains
Sodii Chloridi ..	..	2½ grains
Aquam ..	ad	1 ounce

3.—NEBULA MENTHOL.

Recipe :—

Menthol ..	..	4½ grains
Paraffini Liquidum	..	1 ounce

4.—NEBULA MENTHOL COMPOSITA.

Recipe :—

Menthol ..	..	5 grains
Olei Eucalypti ..	..	5 minims
Olei Cinnamomi	..	5 minims
Paraffinum Liquidum	ad	1 ounce

Pigmenta—Paints.

1.—PIGMENTUM ACIDI CHROMICI.

Recipe :—

Acidi Chromici	..	10 grains
Aquam Destillatam	ad	1 ounce

2.—PIGMENTUM CUPRI SULPHATIS.

Recipe :—

Cupri Sulphatis	..	15 grains
Glycerini ..	..	120 minims
Aquam ..	ad	1 ounce

3.—PIGMENTUM FERRI PERCHLORIDI.

Recipe :—

Liquoris Ferri Perchloridi	..	60 minims
Glycerini	120 minims
Aquam ..	ad	1 ounce

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4.—PIGMENTUM IODI COMPOSITUM (MANDL'S PAINT).

Recipe :—

Iodi	6 grains
Sodii Iodidi	20 grains
Olei Menthae Piperitae Vel Olei Cinnamomi	..	5 minims
Glycerinum ..	ad	1 ounce

Unguentum Menthol.

Recipe :—

Menthol ..	..	8 to 10 grains
Paraffinum Molle	ad	1 ounce

Vapores—Inhalations.

(1 drachm to be added to 1 pint of hot water and the steam inhaled.)

VAPOR MENTHOL.

Recipe :—

Menthol ..	..	15 grains
Spiritus Chirurgicalis	..	30 minims
Olei Eucalypti ..	..	5 minims
Aquam Destillatam	ad	1 ounce

MISTURA SODII CHLORATIS.

Recipe :—

Sodii Chloratis	..	10 grains
Sodii Salicylatis	..	10 grains
Liquoris Ammonii Acetatis	..	120 minims
Aquam Cinnamomi	ad	1 ounce

SECTION VI.—FORMULAE FOR THE EYE.

Collyria—Eye Washes.

1.—COLLYRIUM ACIDI BORICI.

Recipe :—

Acidi Borici ..	..	10 to 20 grains
Aquam Destillatam	ad	1 ounce

2.—COLLYRIUM HYDRARGYRI PERCHLORIDI.

Recipe :—

Hydrargyri Perchloridi	..	1/12 grain
Aquam Destillatam	<i>ad</i>	1 ounce

3.—COLLYRIUM ZINCI SULPHATIS.

Recipe :—

Zinci Sulphatis	..	1 to 2 grains
Aquam Destillatam	<i>ad</i>	1 ounce

Guttae Pro Oculis—Eye Drops.

1.—GUTTAE ARGENTI NITRATIS.

Recipe :—

Argentii Nitratis	..	2½ to 5 grains
Aquam Destillatam	<i>ad</i>	1 ounce

2.—GUTTAE ARGENTI PROTEINICI MITIS.

Recipe :—

10 to 15 per cent. Argenti Proteinici Mitis.

3.—GUTTAE ATROPINAE.

Recipe :—

Atropinae Sulphatis	..	1, 2 or 4 grains
Aquam Destillatam	<i>ad</i>	1 ounce

4.—GUTTAE COCAINAE.

Recipe :—

Cocainae Hydrochloridi	..	4 to 16 grains
Aquam Destillatam	<i>ad</i>	1 ounce

5.—GUTTAE ESERINAE.

Recipe :—

Eserinae Sulphatis	..	½ to 2 grains
Aquam Destillatam	<i>ad</i>	1 ounce

6.—GUTTAE ESERINAE CUM COCOAINA.

Recipe :—

Eserinae Sulphatis	..	$\frac{1}{2}$ to 2 grains
Cocainae Hydrochloridi	..	5 grains
Aquam Destillatam	<i>ad</i>	1 ounce

7.—GUTTAE FLUORESCINAE.

Recipe :—

Fluoresceinae ..	..	8 grains
Sodii Bicarbonatis	..	12 grains
Aquam Destillatam	<i>ad</i>	1 ounce

8.—GUTTAE HOMATROPINAE.

Recipe :—

Homatropinae Hydrobromidi	..	8 grains
Cocainae Hydrochloridi	..	8 grains
Aquam Destillatam	<i>ad</i>	1 ounce

9.—GUTTAE PILOCARPINAE.

Recipe :—

Pilocarpinae Nitratis	..	$\frac{1}{2}$ to 4 grains
Aquam Destillatam	<i>ad</i>	1 ounce

10.—GUTTAE ZINCI SULPHATIS.

Recipe :—

Zinci Sulphatis	..	1 to 4 grains
Aquam Destillatam	<i>ad</i>	1 ounce

11.—GUTTAE ZINCI SULPHATIS CUM ALUMINE.

Recipe :—

Zinci Sulphatis	..	1 grain
Aluminis ..	..	2 grains
Aquam Destillatam	<i>ad</i>	1 ounce

12.—GUTTAE MERCUROCHROMI.

Recipe :—

Mercurochromi	..	4 grains
Aquam Destillatam	<i>ad</i>	1 ounce

Lotiones—Lotions.

1.—LOTIO ALKALINA.

Recipe :—

Sodii Bicarbonatis	..	15 grains
Aquam Destillatam	<i>ad</i>	1 ounce

2.—LOTIO PLUMBI EVAPORANS.

Recipe :—

Liquoris Plumbi Subacetatis		
Diluti	..	15 minims
Spiritus Chirurgicæ	..	15 minims
Aquam Destillatam	<i>ad</i>	1 ounce

LIQUOR ARGENTI NITRATIS.

Recipe :—

Argentæ Nitratæ	..	8 grains
Glycerini	..	60 minims
Aquam Destillatam	<i>ad</i>	1 ounce

Olea—Oils.

1.—OLEUM ATROPINÆ.

Recipe :—

Atropinæ	..	4 grains
Oleum Ricini	<i>ad</i>	1 ounce

2.—OLEUM HOMATROPINÆ ET COCAINÆ.

Recipe :—

Homatropinæ	..	8 grains
Cocainæ Hydrochloridi	..	8 grains
Oleum Ricini	<i>ad</i>	1 ounce

3.—OLEUM PHYSOSTIGMINÆ (ESERINÆ).

Recipe :—

Eserinæ	..	4 grains
Oleum Ricini	<i>ad</i>	1 ounce

Oculenta—Ointments for the Eye.

1.—OCULENTUM ACIDI BORICI.

Recipe :—

Acidi Borici ..	..	60 grains
Paraffinum Molle	<i>ad</i>	1 ounce

2.—OCULENTUM ATROPINAE.

Recipe :—

Atropinae ..	..	4 grains
Vaselinum ..	<i>ad</i>	1 ounce

3.—OCULENIUM HYDRARGYRI AMMONIATUM.

Recipe :—

Hydrargyri Ammoniatum ..	..	4 to 8 grains
Paraffinum Molle	<i>ad</i>	1 ounce

4.—OCULENTUM HYDRARGYRI OXIDI FLAVI.

Recipe :—

Hydrargyri Oxidi Flavi ..	..	4 to 8 grains
Paraffinum Molle	<i>ad</i>	1 ounce

5.—OCULENTUM ICTHAMMOLIS.

Recipe :—

Icthammolis ..	..	12 grains
Paraffinum Molle	<i>ad</i>	1 ounce

**SECTION VII.—FORMULAE FOR THE
TEETH.****Collutoria—Mouth Washes.**

1.—COLLUTORIUM HYDROGENI PEROXIDI.

Recipe :—

Liquoris Hydrogeni Peroxidi ..	..	60 minims
Aquam ..	<i>ad</i>	1 ounce

2.—COLLUTORIUM SODII CHLORATIS.

Recipe :—

Sodii Chloratis	..	20 grains
Glycerini	..	30 minims
Tincturae Aurantii	..	10 minims
Aquam	ad	1 ounce

Pasta Anodyna.*Recipe* :—

Zinci Oxidi	..	30 grains
Olei Caryophylli	..	q.s.

Pigmentum Astringens.*Recipe* :—

Glycerini Acidi Tannici	..	160 minims
Glycerini Aluminis	..	80 minims
Liquoris Arsenicalis	..	5 minims
Liquorem Iodi Mitis	ad	1 ounce

SECTION VIII.—FORMULAE FOR CHILDREN.

(A) For infants. (Dosage for a child of one year.)

Injectiones—Injections.

1.—INJECTIO ATROPINAE INFANTUM.

Recipe :—

Atropinae Sulphatis	..	1/10 grain
Aquam Destillatam	ad	1 ounce

(Dose $\frac{5}{8}$ minims. 1/1000 grain.)

2.—INJECTIO MORPHINAE INFANTUM.

Recipe :—

Morphinae Hydrochloridi	..	$\frac{1}{2}$ grain
Aquam Destillatam	ad	1 ounce

(Dose 5 minims. 1/200 grain.)

3.—INJECTIO STRYCHNINAE INFANTUM.

Recipe :—

Strychninae Sulphatis	..	$\frac{1}{4}$ grain
Aquam Destillatam	ad	1 ounce

Dose 5 minims. (1/400 grain.)

Misturae—Mixtures.

1.—MISTURA ACIDA ASTRINGENS.

Recipe :—

Acidi Sulphurici Diluti	..	$2\frac{1}{2}$ minims
Tincturae Opii Camphorati	..	$2\frac{1}{2}$ minims
Aquam Anisi ..	ad	1 drachm

2.—MISTURA ALKALINA PRO TUSSE.

Recipe :—

Tincturae Ipecacuanhae	..	$2\frac{1}{2}$ minims
Sodii Bicarbonatis	..	2 grains
Sodii Citratis	..	2 grains
Aquam Chloroformi	ad	1 drachm

3.—MISTURA BISMUTHI ALKALINA.

Recipe :—

Bismuthi Carbonatis	..	10 grains
Sodii Bicarbonatis	..	5 grains
Aquam Chloroformi	ad	1 drachm

4.—MISTURA BISMUTHI CUM OPIO.

Recipe :—

Bismuthi Carbonatis	..	10 grains
Tincturae Opii	..	$\frac{1}{4}$ minim
Aquam ..	ad	1 drachm

5.—MISTURA DIAPHORETICA.

Recipe :—

Sodii Citratis ..	..	$2\frac{1}{2}$ grains
Liquoris Ammonii Acetatis	..	10 minims
Tincturae Aurantii	..	2 minims
Aquam ..	ad	1 drachm

6.—EMULSIO OLEI VITAMINATI.

Recipe :—

Olei Vitaminati	..	30 minims
Mucilaginis Acaciae	..	q. s.
Aquam	..	ad 1 drachm

7.—EMULSIO OLEI RICINI ASTRINGENS.

Recipe :—

Olei Ricini	..	5 minims
Mucilaginis Acaciae	..	q. s.
Aquam Chloroformi	ad	1 drachm

To each dose may be added, if required :—

For infants aged 2 months Tincturae Opii Camphorati 2 minims.

For infants aged 3 months Tincturae Opii $\frac{1}{3}$ minimFor infants aged 6 months Tincturae Opii $\frac{1}{3}$ minimFor infants aged 12 months Tincturae Opii $\frac{1}{2}$ minim

8.—MISTURA SODII IODIDI PRO TUSSE.

Recipe :—

Sodii Iodidi	..	1 grain
Tincturae Stramonii	..	1 minim
Spiritus Ammoniae Aromatici	..	2 $\frac{1}{2}$ minims
Aquam	..	ad 1 drachm

9.—MISTURA SEDATIVA.

Recipe :—

Chloralis Hydratis	..	1 $\frac{1}{2}$ grains
Sodii Bromidi	..	2 $\frac{1}{2}$ grains
Spiritus Ammoniae Aromatici	..	2 $\frac{1}{2}$ minims
Aquam Chloroformi	ad	1 drachm

10.—MISTURA SIMPLEX PRO TUSSE.

Recipe :—

Tincturae Ipecacuanhae	..	2 $\frac{1}{2}$ minims
Tincturae Opii Camphorati	..	2 minims
Liquoris Ammonii Acetatis	..	15 minims
Aquam	..	ad 1 drachm

11.—MISTURA STIMULANS PRO TUSSE.

Recipe :—

Ammonii Carbonatis	..	$\frac{1}{2}$ grain
Tincturae Ipecacuanhae	..	$2\frac{1}{2}$ minims
Tincturae Scillae	..	$2\frac{1}{2}$ minims
Glycerini	..	5 minims
Mucilaginis Acaciae	..	30 minims
Aquam Chloroformi	<i>ad</i>	1 drachm

Pulvis Rhei et Hydrargyri.

Recipe :—

Rhei Pulveratæ	..	$2\frac{1}{2}$ grains
Hydrargyri Cum Creta	..	1 grain
Zingiberis Pulveratæ	..	$\frac{1}{2}$ grain

(B) For older children. (Dosage for a child 8 years, unless otherwise stated.)

12.—MISTURA DIURETICA.

Recipe :—

Sodii Citratis	..	10 grains
Liquoris Ammonii Acetatis	..	1 drachm
Aquam	<i>ad</i>	$\frac{1}{2}$ ounce

13.—MISTURA FERRI.

Recipe :—

Ferri Sulphatis	..	$\frac{1}{2}$ grain
Sodii Sulphatis	..	10 grains
<i>Vel</i> Sodii Sulphatis Exsiccati	..	5 grains
Acidi Sulphurici Diluti	..	2 minims
Aquam Chloroformi	<i>ad</i>	2 drachms

14.—MISTURA RHEI CUM SODA.

Recipe :—

Rhei Pulveratæ	..	2½ grains
Sodii Bicarbonatis	..	7½ grains
Tincturæ Zingiberis Fortis	..	5 minims
Aquam Anethi	<i>ad</i>	2 drachms

Pigmentum Iodi Compositum.

Recipe :—

Iodi Sublimati	..	1½ grains
Sodii Iodidi	..	6 grains
Menthol	..	½ grain
Glycerinum	<i>ad</i>	1 ounce

Pulvis Santonini Compositus.

Recipe :—

Santonini	..	2 grains
Calomel	..	½ grain
Rhei Compositi Pulveris	..	5½ grains

Dose :—4 grains for a child of 5 years and 8 grains for a child of 8 years.

SECTION IX.—OUTLINE OF TREATMENT OF VENEREAL DISEASES.

It is essential to obtain a diagnosis by laboratory methods before commencing treatment.

(A) Syphilis

(1) *Arsenic* and *Bismuth* are the chief drugs that are used in the treatment of the disease. The "continuous-alternating" form of treatment is recommended, there being no rest interval between the period of administration of *Arsenic* and *Bismuth*. The period of treatment must be determined by

the stage of the disease. Two injections of neoarsphenamine of 0·3 gramme are given each week for four weeks followed by 2 of 0·2 gramme metallic Bismuth each week for four weeks, this constituting a phase of treatment. These doses are intended for the average male Ceylonese adult. Smaller proportionate doses are needed for women and children. Where attendance twice weekly is not feasible the " concurrent-intermittent " form of treatment may be used. Here both Arsenic and Bismuth are administered once a week for six weeks after which a rest interval of one month is instituted. From 0·45 to 0·6 gramme of Neoarsphenamine and 0·3 to 0·4 gramme of metallic Bismuth, are used for the average adult male. Serological examination for the Wassermann and Kahn tests is performed at the end of each phase of treatment. Lipo-soluble Bismuth salts are more efficient than metallic Bismuth.

(2) *Stovarsol*.—This pentavalent arsenical is of special use in the treatment of prenatal (congenital) Syphilis. The dosage recommended is as follows :—

For a child aged 6 years :

- 1 grain daily for 4 days—3 days rest.
- 2 grains daily for 4 days—3 days rest.
- 3 grains daily for 4 days—3 days rest.
- 4 grains daily for 4 days—3 days rest.

After 2 weeks rest repeat the course. After some time use Bismuth and Arsenic.

For very delicate children :—

- 1st week 0·005 gramme per kilo body weight daily
 - 2nd week 0·01 gramme per kilo body weight daily
 - 3rd week 0·015 gramme per kilo body weight daily
 - 4th week 0·02 gramme per kilo body weight daily
- for 4 days followed by 3 days rest, each week.

Stovarsol is also useful where it is desirable to initiate anti-syphilitic treatment with a mildly

acting arsenical, *e.g.*, where cardio-vascular or neural involvement is present. For the average male adult the following is recommended :—

- 1 tablet each day for 4 days—3 days rest.
- 2 tablets each day for 4 days—3 days rest.
- 3 tablets each day for 4 days—3 days rest
- 4 tablets each day for 4 days—3 days rest.

N. B.—Each tablet contains 4 grains.

Following on this course bismuth is given and then Neosarsphenamine.

(3) *Tryparsamide*.—This is administered by the I.V. or I.M. route, 2 to 4 grammes being given weekly for eight consecutive weeks. Examination of the Fundi and Visual Fields is necessary before each injection. This drug should precede malaria therapy in treating neurosyphilis.

(4) *Sodium Thiosulphate*.—This may be given by the I. V. or I. M. route, 0.45 to 0.9 gramme daily as long as is necessary for the toxic manifestations of Arsenic and Bismuth.

(B) Gonorrhoea

Sulphonamides should be used when available, Sulphapyridine being the first choice. A dosage of 6 to 8 grammes of drug on the first day, 4 to 5 grammes on the second and 3 grammes on each of three succeeding days, constitute a course of treatment for the adult male. Sulphanilamide is given in the same dosage. Concurrently, urethral irrigations with 1 in 8,000 and 1 in 10,000 Condy's lotion are given. A repetition of the course of Sulphonamides may be necessary, which may be given after an interval of 2 to 3 weeks during which time irrigation is continued, alkaline mixture prescribed and a course of gonococcal vaccines administered. Where Sulphonamides are not available or produce no change the old methods are used, *e.g.*, anterior urethral irrigations and alkaline mixture orally and in the

later stages bladder irrigations with the administration of urinary antiseptics like Copaiba, Oleum Santali, &c.

In females Sulphonamides are given as a routine, the above dosage being suitably reduced. Locally, irrigation of the urethra, vagina and cervical canal is done with saturated Sodium Bicarbonate solution at 105 degrees F. followed with an antiseptic, e.g., Condy's.

Paints.—For urethra, vagina and cervical canal after dry swabbing of the parts, when the profuse discharge has ceased.

- Mercurochrome, 1 to 5 per cent.,
- Iodine and alcohol, equal parts,
- Pieric acid, 1 per cent. in spirits,
- Methylene blue, 1 per cent. in glycerine,
- Ichthyol in glycerine, 10 per cent.

When Sulphonamides are not tolerated orally, solutions may be injected.

Diathermy.—This is of value, particularly, in treating cases of gonococcal arthritis.

(C) Chancroid

The local treatment consists of application of antiseptics. Dmelcos Vaccine is administered in increasing doses intravenously or intramuscularly. Administration of Sulphonamides is also effective in this condition.

Keep the patient under observation for signs of syphilitic infection for a period of three months.

(D) Lymphogranuloma Inguinale

The ulceration is treated on the same lines as soft sore with antiseptics. Antimony may be given intramuscularly or intravenously ; by the latter route often it causes severe vomiting. Sulphonamides are also of value.

(E) Granuloma Venereum.

Antimony is practically specific for treating this condition.

(F) Warts—Condylomata Acuminata.

These may be cauterized with glacial acetic acid, or the electric cautery. The application of Tinctura Ferri Perchloridi (1 to 2 drachms in 1 ounce of Collodion) is often sufficient.

MISTURA HEXAMINAE.

No. 1—

Recipe

Hexaminae ..	..	10 grains
Aquam Chloroformi	ad	$\frac{1}{2}$ ounce

To be taken half an hour before meals.

No. 2—

Recipe

Acidi Sodii Phosphatis ..	..	30 grains
Aquam Chloroformi	ad	$\frac{1}{2}$ ounce

To be taken half an hour after meals.

Injectiones—Injections.

1.—INJECTIO ANTIMONII. (Lithium Antimony Thiomalate.)

Available in ampoules of 2 c.c. containing 0.02 gramme of Antimony.

2.—INJECTIO BISMUTHI (B. P.):

Available in ampoules containing 10 c.c. 1 c.c. is equivalent to 0.2 gramme of Bismuth.

3.—INJECTIO NEOARSPHENAMINAE.

Available in ampoules containing 0.45 and 0.9 gramme.

To prepare the solution, the powder should be slowly added to cold sterile re-distilled water. (2 c.c. of water to 0.1 gramme of powder.)

4.—INJECTIO SULPHARSPHENAMINAE.

Available in ampoules containing 0.45 or 0.9 gramme.

5.—INJECTIO SODII THIOSULPHATIS.

Available in ampoules of 5 c.c. containing 0.45 gramme of Sodium Thiosulphate.

6.—INJECTIO TRYPARSONI (Tryparsamide).

Available in ampoules containing 1, 2 or 3 grammes of Tryparsone.

SECTION X.—VACCINES AND SERA.

A vaccine is a suspension of bacteria in normal saline. Most vaccines contain dead bacteria—killed by heat or chemicals. “Live” vaccines containing living organisms, have also been used. Sensitized vaccines are prepared by mixing an ordinary “dead” vaccine with the appropriate immune serum. The bacteria in the mixture are combined with the specific antibody derived from the immune serum.

An immune serum is the serum of an animal which has been immunized against a toxin (Antitoxic Serum) or a bacterium (Anti-bacterial serum). The animal used for preparing immune sera is generally the horse.

SERA.

(1) *Serum Antidiphtheriticum-Diphtheria Antitoxin.**Purely Antitoxic.*

A unit of Antitoxin is the amount required to neutralize 100 minimal lethal doses of toxin for a Guinea Pig weighing 250 grammes.

PROPHYLACTIC.

Vaccine (Active immunisation).

Alum precipitated Toxoid (A.P.T.) in 2 doses :—

Below 8 years : 1st dose 0·5 c.c.

8 years and above : 1st dose 0·25 c.c.

2nd dose for both groups 0·5 c.c. after an interval of 4 weeks. Injections given subcutaneously.

Serum : 500 to 1,000 units intramuscular or subcutaneous. (Protects for 2 to 3 weeks.)

THERAPEUTIC.

Dose depends on the stage and severity of the disease. Serum available in ampoules containing 2,000 or 8,000 units.

(2) *Serum Antitetanicum-Tetanus Antitoxin.*

Purely Antitoxic.

1 U. S. A. unit is 10 times the amount of Antitoxin required to keep a Guinea Pig weighing 250 grammes alive for 96 hours after the injection of 100 lethal doses of Toxin.

PROPHYLACTIC.

Serum : 500 to 1,000 units subcutaneously. (Protection 2 to 3 weeks.)

Vaccine (active immunisation) Alum precipitated toxoid used. 1·5 c.c. toxoid (A.P.T.) inoculated subcutaneously in the arm. 10 to 15 minutes later 500 antitoxic units given at another site.

2nd dose 2 c.c. (A.P.T.) given 20 days later and if considered necessary a 3rd dose of 2 c.c. (A. P. T.) given 30 days later.

THERAPEUTIC.

Average daily dose 5,000 to 30,000 units given by 2 or 3 routes ; intrathecally, intravenously, intramuscularly or subcutaneously.

Serum available in ampoules containing 3,000 International units (1,500 American units) or 20,000 International units (10,000 American units).

(3) *Serum Antidysentericum. (Polyvalent.)*

The standard unit of antitoxin is the amount of serum which will neutralize the test dose, *i.e.*, 0.2 milligramme of a standard toxin.

Each ampoule contains 4,000 units.

(4) *Serum Anti-welchicum.*

1 international unit of antitoxin is the specific antitoxin actually contained in 0.322 milligramme.

Each ampoule contains 4,000 units.

(5) *Serum Antivenosum. Antivenom Serum.*

A concentrated immune serum against Venom of Colubrine and Viperine Snakes.

Available in ampoules containing 10 c.c. of serum.

(6) *Serum Haemostaticum.*

A preparation rich in tissue extracts and serum containing prothrombin and thrombokinase.

Available in ampoules containing 2 c.c.

VACCINA—VACCINES.

(1) *Vaccinum Antibubonicum—Anti plague Vaccine.*

Dose $\frac{1}{2}$ to 1 c.c. subcutaneously (1/20 to $\frac{1}{4}$ c.c. for a child).

(2) *Vaccinum Anticholeraicum—Anticholera Vaccine.*

Dose (2,500 millions of organisms per c.c.)

1 c.c. subcutaneously followed in a week's time by the same dose.

(3) *Vaccinum Antistaphylococcum—Anti-Staphylococcic Vaccine.*

Dose 125 millions of cocci in $\frac{1}{2}$ c.c. 5 injections subcutaneously at weekly intervals, followed up by 250 millions of cocci in $\frac{1}{2}$ c.c. 5 injections at weekly intervals.

Larger doses may be given depending on the gravity of the case. Toxoid is preferable.

Dose 0.05 c.c. subcutaneously at weekly intervals. Increase dose every week by 0.05 c.c. until 0.5 c.c. is given at the 10th or final injection. 2nd course if necessary is given after resting patient for two months.

(4) *Vaccinum Antityphosum—Antityphoid Vaccine.*

Typhoid 1,000 millions of bacilli per c.c.

Para. A. 500 millions of bacilli per c.c.

Para. B. 500 millions of bacilli per c.c.

Dose $\frac{1}{2}$ c.c. followed in a week by 1 c.c. subcutaneously.

DIETETICS.

The constituents of food.—These are carbohydrates, fats, proteins, minerals, vitamins and water. Carbohydrates and fats are the chief sources of energy. Proteins are required for growth and repair. Of the minerals Calcium is necessary for the growth of bones and teeth, and Iron for the formation of blood. The chief Vitamins are Vitamins A, B₁ (thiamin) B₂ complex (nicotinic acid, riboflavin, &c.) C (ascorbic acid), D and E. The Vitamin values of many foodstuffs have been determined and it can readily be stated whether a diet is rich or poor in any particular Vitamin, but their quantitative estimation is at present unsatisfactory. Numerous nutritional and dietary surveys have shown that the diets eaten by

many Ceylonese families are deficient in proteins especially of animal origin, in Calcium, and in Vitamin A and riboflavin.

Allowances.—The energy allowance for the healthy male adult doing moderate manual work for about 8 hours a day is 2,600 calories and that of the adult woman is 2,080 calories. Children require proportionately less. The allowance for an expectant mother is 2,600 and that for a nursing mother 3,250 calories. Heavy manual workers require about 75 calories extra for every hour of work. The protein allowances are as follows:—adult man 75 grammes, adult woman 65. The allowances for children are relatively high, being about 70 grammes at the age of 10 and 45 at the age of 4. Expectant mothers after the third month are allowed about 80 grammes and nursing mothers about a hundred.

The adult allowance of Calcium may be placed at about 0.5 gramme. Children require about 0.75 or more, while adolescents require about 1 gramme. Nursing mothers and expectant mothers especially in the latter part of pregnancy, require a little more than a gramme of Calcium a day.

The proportion of carbohydrates and fats in the diet is not of importance in the case of healthy individuals so long as the quantity of fat is not excessively high. The values of Phosphorus, Iron and other minerals are generally satisfactory. The foods composing the diet should contain sufficient Vitamin A or carotene and riboflavin. Carotene, however, is not a good source of Vitamin A for infants, young children, and sick patients.

Proteins of animal origin are generally superior to those of vegetable origin, and those of milk are the best. About one-third the total intake of proteins should be of animal origin. When this is impossible the total protein intake should be maintained at a high level, preferably from a mixture of protein rich foods, such as from several pulses and cereals.

Specimen Diets.

Quantity in Ounces per Day.

Food.	Quantity in Ounces per Day.							Prog- nancy.	Lacta- tion.
	2-4 Years.	4-8 Years.	8-12 Years.	12-14 Years.	Man.	Woman.			
Cereals	2	5	8	11	12	11	12	14	
Pulses	0.5	1.0	1.5	2.0	2.0	2.0	2.0	3.0	
Roots and tubers	0.5	1.0	2.0	3.0	4.0	4.0	4.0	4.0	
Leafy vegetables	0.5	1.0	1.5	2.0	2.0	2.0	2.0	2.0	
Non-leafy vegetables	1.0	2.0	3.0	4.0	4.0	4.0	4.0	4.0	
Ripe fruits	1.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	
*Meat or fresh fish	2.0	3.0	4.0	4.0	4.0	4.0	5.0	6.0	
Milk	20	15	12	8.0	8.0	8.0	20	20	
Sugar	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Coconut kernel	0.5	1.0	2.0	3.0	4.0	3.0	4.0	4.0	
*Dried fish. { Large	1.0	1.5	2.0	2.0	2.0	2.0	2.5	3.0	
{ Small	0.5	0.75	1.0	1.0	1.0	1.0	1.25	1.5	
*Eggs	2.0	3.0	4.0	4.0	4.0	4.0	5.0	6.0	

* Dried fish or eggs may be substituted for meat or fresh fish.

Vitamin Rich Foods.*Vitamin A in I.U. per 100 grammes.*

- 10,000-50,000 Cod liver oil, halibut liver oil, shark liver oil
- 5,000-10,000 Ox liver
- 1,000-5,000 .. Butter, cheese, cream, egg yolk, ghee.

Carotene in mg. per 100 grammes.

- 10-50 .. Red palm oil.
- 5-10 .. Kankun, katurumarunga, onions, thampala
- 1-5 .. Carrots, cabbage, green peas, lettuce, palmyra fruit, spinach, yellow sweet potatoes

Vitamin B₁ (thiamin) in I.U. per 100 grammes.

- 500-1,000 .. Rice polishings, dried brewer's yeast
- 100-500 .. Butter beans, cauliflower, fish roe, gingelly seeds, green peas, ground nuts, liver, yellow dhal, soya beans, wheat
- 30-100 .. Beetroots, carrots, chicken, red dhal, French beans, lettuce, millets, mutton, unmilled rice, parboiled rice, smooth gram

Vitamin B₂ complex (Nicotinic Acid) in mg. per 100 grammes.

25-75	.. Dried brewer's yeast
10-25	.. Ground nuts, sheeps liver, milk
3-10	.. Beef, rough gram, kurakkan, yellow dhal, unmilled rice, parboiled rice.

Vitamin B₂ complex (Riboflavin) in mg. per 100 grammes.

1-3	.. Fish roe, kurakkan, dried baker's yeast, dried brewer's yeast
0.5-1.0	.. Egg yolk, ox-liver.
0.2-0.5	.. Crabs, eggs, ground nuts, ladies' fingers

Vitamin C (ascorbic acid) in mg. per 100 grammes.

200-4,000	.. Indian Gooseberries (nelli) cashew apples.
50-200	.. Cashew nuts, drumstick leaves, guava, kankun, Katurumurunga, knol khol, ripe lime, spinach, thampala
25-50	.. Cabbage, Cauli flower, grape fruit, kohila leaves, lime, mango, mukku-nuwenna, orange, peach, rambutan, sour sop, tomatoes

Vitamin D in I. U. per 100 grammes.

above 5,000	.. Cod liver oil, halibut liver oil, shark liver oil.
1,000-5,000	.. Fat of fish
10-50	.. Butter, cheese, cream, ghee, mushroom

Table of Food Values.

Food.	Proteins.	Fats.	Carbo-	Calcium.	Phosphorus,	Iron.	Calories.
	Per cent.	Per cent.	hydrates.	Per cent.	mg. per 100G.	mg. per 100G.	per 100G.
Kurakkan	7.1	1.3	76.3	0.33	0.27	5.4	345
Maize	9.0	3.0	70.0	0.12	0.34	4.0	343
Meneri	12.5	1.1	69.0	0.01	0.33	5.7	336
Rice, unmilled	8.5	0.4	77.6	0.01	0.28	2.7	348
Rice, parboiled, milled	6.4	0.6	78.9	0.01	0.15	2.2	347
Wheat, whole	11.8	1.4	71.3	0.05	0.31	5.3	345
Bread	8.0	1.5	47.0	0.02	0.08	1.0	234
Dhal, red	25.1	0.7	59.6	0.13	0.25	2.0	345
Dhal, yellow	22.3	1.7	57.2	0.14	0.26	8.8	342
Gram, green	24.0	1.3	56.7	0.14	0.28	8.4	343
Beet root	1.6	0.1	13.7	0.19	0.06	1.0	62
Carrot	0.9	0.1	10.7	0.08	0.03	1.5	47
Manioc	0.7	0.2	38.8	0.04	0.04	0.9	160
Potato	1.7	0.1	22.8	0.00	0.03	0.7	99
Sweet potato	1.2	0.3	30.9	0.02	0.05	0.8	131
Yams	2.1	0.1	16.8	0.00	0.06	1.0	74
Cabbage	1.7	0.1	6.4	0.03	0.05	0.8	33
Drumstick leaves	6.6	1.7	13.5	0.44	0.07	7.0	96
Gotukola	1.0	0.2	6.0	0.40	0.07	4.0	30
Kankun	2.0	0.5	4.0	0.10	0.04	13.0	28

Foods.	Proteins.		Fats.		Carbo- hydrates.		Calcium, Phosphorus.		Iron mg.		Calories per 100G.
	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	per 100 G.	per 100G.	
Mukunuwenna	1.6	0.2	4.2	0.12	0.03	12.0	24				
Thampala	3.0	0.2	8.1	0.80	0.05	22.9	47				
Spinach	1.9	0.8	4.1	0.06	0.01	4.9	32				
Breadfruit	1.4	0.3	22.0	0.04	0.04	2.0	96				
Brinjal	1.3	0.3	6.4	0.02	0.06	1.3	33				
Drumsticks	2.5	0.1	3.7	0.03	0.11	5.3	26				
French beans	1.7	0.1	4.4	0.05	0.02	1.7	25				
Jak fruit	2.6	0.3	9.4	0.03	0.04	1.7	51				
Ladies' fingers	2.2	0.2	7.7	0.09	0.08	1.5	42				
Plantain, green	1.4	0.2	14.6	0.00	0.03	0.6	66				
Gourds	0.4	0.1	3.0	0.01	0.02	1.0	17				
Red pumpkins	1.4	0.1	5.4	0.01	0.03	0.7	28				
Apple	0.3	0.1	13.4	0.01	0.02	1.7	55				
Grapes	0.8	0.1	10.1	0.02	0.02	0.4	45				
Mango	0.6	0.1	11.7	0.01	0.02	0.2	50				
Orange	0.8	0.3	10.3	0.05	0.02	0.1	48				
Papaw	0.5	0.0	9.5	0.01	0.01	0.4	40				
Pineapple	0.6	0.0	12.0	0.02	0.01	0.9	51				
Plantain	1.1	0.1	24.8	0.01	0.03	0.5	104				
Tomato	1.0	0.1	3.9	0.01	0.02	0.1	20				
Beef, lean	22.6	2.6	0.0	0.00	0.19	0.8	114				
Egg	13.3	13.3	0.0	0.06	0.27	2.1	173				
Fish, fresh	22.6	0.1	0.0	0.02	0.18	0.8	91				