

Tables of the physiological action of drugs / by E.A. Morshead.

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TABLES
OF THE
PHYSIOLOGICAL
ACTION OF DRUGS

MORSHEAD.

Feb. 16

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12th June 80

TABLES

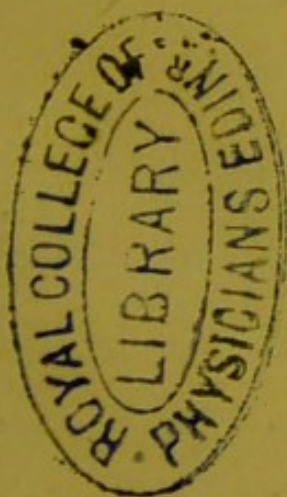
PHYSIOLOGICAL ACTION OF DRUGS

BY J. H. COLEMAN, M.D.

LONDON: J. B. LIPPINCOTT & CO., 1881.

TABLES
OF THE
PHYSIOLOGICAL ACTION OF DRUGS

BY
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LONDON.



LONDON
H. K. LEWIS, 136 GOWER STREET, W.C.
1880

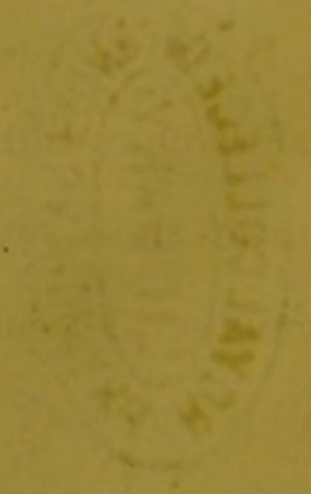
PREFACE

I have been thinking of writing this book for some time, but have been so busy that I have not had time to do so. I have now, however, found a few moments to write a few lines to you.

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PREFACE.

THESE tables have been compiled almost entirely from Dr. Wood's work on Therapeutics. The exceptions are, that one dealing with the action of drugs on the Liver; which is taken from Dr. Rutherford's papers in the *Practitioner*, and the account of the action of Muscarin, Pilocarpin and Gelsemium, which is chiefly from Dr. Ringer's *Therapeutics*.

It will be seen that two types have been used, the Roman indicates the drugs with the more, the Italics those with the less, important action. The members of each group are placed in their order of potency as far as possible, but this arrangement is of course arbitrary.

Those remedies marked with an asterisk are not officinal.

By the term Indirect, as applied to the drugs acting on the cerebrum, is meant an action probably dependent on some alteration in the blood supply, or its quality, (*e.g.* by asphyxia) rather than one due to a direct effect on the brain elements.

Finally it must be remembered that these tables have no immediate reference to the Therapeutical uses of the various remedies.

TABLES OF THE PHYSIOLOGICAL ACTION OF DRUGS.

CEREBRUM.

DIRECT DELIRIANTS.

Cannabis Indica.
Belladonna.
Hyoscyamus.
Stramonium.
Alcohol.
Ether.
Chloroform.
Turpentine.
Nitrous Oxide.

**Salicylic Acid.*
Carbolic Acid.
Camphor.
Caffeine.
Opium.
Hydrocyanic Acid.

DIRECT CONVULSANTS.

Hydrocyanic Acid.
Jervia.
Camphor.

Chloroform.
**Salicylic Acid.*
Carbolic Acid.

DIRECT DEPRESSORS.

Chloroform.
Ether.
Nitrous Oxide.
Opium.
Alcohol.
Chloral Hydrate.
Belladonna.
Hyoscyamus.
Stramonium.
Hydrocyanic Acid.
**Croton Chloral.*

Cannabis Indica.
Bromide of Potas-
sium.
Camphor.
Turpentine.
Scoparius.
**Salicylic Acid.*
Carbolic Acid
Cinchona.

INDIRECT.

Antimony.
Phosphorus.
Copper.
Zinc.
Digitalis.

Lead.
Phosphorus.
Colchicum.
Copper.
Silver.
Antimony.

Copper.
Lead.
Antimony.
Phosphorus.
Silver.
Digitalis.

MEDULLA OBLONGATA.

*Cardio-Inhibitory Centre. Vaso-motor Centre. Respiratory
Centre. Centre of Vomiting.*

Cardio-Inhibitory Centre.

STIMULATORS.

Sabadilla.
Hydrocyanic Acid.
Opium.
Turpentine.

*Belladonna.
Hyoscyamus.
Stramonium.
Chloroform.
Chloral Hydrate.
*Croton Chloral.
Aconite ?
Veratrum Viride.*

DEPRESSORS.

Chloroform (later stage).
Chloral Hydrate.
Croton Chloral.
Nitrite of Amyl.

Scoparius.

Vaso-motor Centre.

STIMULATORS.

Ergot.
Nux Vomica.
Belladonna.
Hyoscyamus.
Stramonium.
*Salicylic Acid.
Turpentine.

*Sabadilla.
Thebaia.
Chloroform.
Chloral Hydrate.
*Croton Chloral.
Cinchona.
Ether.
Digitalis ?*

DEPRESSORS.

Nux Vomica (later).
Veratrum Viride.
Turpentine.

*Ergot.
Chloroform.
Chloral Hydrate.
*Croton Chloral.
Cinchona.
Nitrite of Amyl.*

Respiratory Centre.**STIMULATORS.**

Ammonia.
 Carbolic Acid.
 Apomorphia.

Belladonna.
Hyoscyamus.
Stramonium.
**Salicylic Acid.*

DEPRESSORS.

Silver.
 Veratrum Viride.
 Sabadilla.
 Aconite.
 *Gelsemium.
 Hydrocyanic Acid.
 Ether.
 Chloral Hydrate.
 *Croton Chloral.
 Chloroform.

Antimony.
Opium.
Nitrite of Amyl.
Physostigma.
Scoparius.
**Salicylic Acid.*
Zinc.
Copper.
Bromide of Potassium.
Bromide of Ammonium.

Centre of Vomiting.

Antimony.
 Apomorphia.
 Ipecacuanha?

SPINAL CORD.

TETANISERS.

Nux Vomica.
Thebaia.
Silver.
Belladonna.
Hyoscyamus.
Stramonium.

**Gelsemium.*
**Zaborandi.*
Tobacco.
Ammonia.
Opium (small doses).
Chloral Hydrate.
Croton Chloral.
Caffeine ?

PARALYSERS.

Physostigma.
Antimony.
Arsenic.
Potash Salts.
Nitrite of Amyl.
Veratrum Viride.

Aconite.
Belladonna.
Hyoscyamus.
Stramonium.
Ether.
Chloroform.
Opium.
Scoparius.
**Gelsemium.*
Colchicum.
Hydrocyanic Acid.
Digitalis.
Tobacco.
Chloral Hydrate.
Croton Chloral.
Alcohol.
**Zaborandi.*
Caffeine.
Sabadilla.
Ipecacuanha ?
Lobelia ?
Ergot ?

NERVES.*Motor—Sensory.***Motor.****STIMULATORS.**

Opium.
Sabadilla.
Tobacco.

PARALYSERS.

**Curare.*
Conium.
Nux Vomica.
Tobacco.
Scoparius.
Belladonna.
Hyoscyamus.
Stramonium.

Hydrocyanic Acid.
Aconite.
Quassia.
Nitrite of Amyl.
Physostigma.
Opium.
Digitalis.
Alcohol.

Sensory.

Aconite.
Potash Salts.
Ether.
Chloroform.

Belladonna.
Hyoscyamus.
Stramonium.
Colchicum.
Physostigma.
Hydrocyanic Acid.
Alcohol.
Conium.
Aromatic Oils?
Nitrite of Amyl?
Iodoform?

ORGANS OF SPECIAL SENSE.

EYE.

Conjunctiva—Lachrymal Gland—Pupil—Muscles of Eye—Vision.

Conjunctiva.

IRRITANTS.

Arsenic.
Iodine.

Lachrymal Gland.

IRRITANTS.

*Muscarin.
*Jaborandi.

Pupil.

DILATORS BY

A. Paralyzing peripheral branches of 3rd nerve and stimulating those of the sympathetic.

Belladonna.
Hyoscyamus.
Stramonium.

B. Paralyzing peripheral branches of 3rd nerve alone.

Opium (last stage)
Conium.
Chloroform (last stage).

C. ? *Gelsemium } Applied
*Muscarin } topically.

CONTRACTORS BY

A. Paralyzing sympathetic and stimulating peripheral branches of 3rd nerve.

Physostigma.
Tobacco (?)

B. Stimulating the nerve alone.

Opium.
Chloroform (early stage).

C. (?)
Jaborandi.
Muscarin internally given.
Gelsemium " "

Muscles.

PARALYSERS.

Conium.

*Gelsemium.

Vision.

IMPROVED BY

Nux Vomica?

IMPAIRED BY

*Gelsemium.

*Jaborandi.

Cinchona and Dilators of
Pupil.

Altered by

Santonin, *i.e.* causes Xanthopsy.

EAR.

NOISES IN THE EARS OR DEAFNESS PRODUCED BY

Quinine.

*Salicylic Acid.

MUSCULAR SYSTEM.

Voluntary Muscles.

STIMULATORS.

Physostigma.
Sabadilla.

PARALYSERS.

Nitrite of Amyl.
Hydrocyanic Acid.
Lead.
Caffeine.
Quassia.
Digitalis.
Sabadilla.

For Involuntary Muscles, see Heart, Intestines, and Uterus.

ORGANS OF CIRCULATION.

HEART.

Muscle—Nerves.

Muscle.

STIMULATORS.

Digitalis.
Physostigma.
Sabadilla.

PARALYSERS.

Chloroform.
Antimony.
Belladonna.
Hyoscyamus.
Stramonium.
Potash Salts.
Aconite.
Sabadilla (later).
Arsenic.

Nitrite of Amyl.
Hydrocyanic Acid.
Cinchona.
Veratrum Viride.
Caffeine.
Digitalis (late).
Physostigma (late).
Carbolic Acid ?
**Salicylic Acid ?*
Lead ?

Nerves { Accelerators.
 { Inhibitory.

Accelerator Nerves.

STIMULATORS.

Ammonia.
Belladonna.
Hyoscyamus.
Stramonium.
Alcohol (first effect).

Inhibitory Nerves.

STIMULATORS.

Digitalis.
Opium.
Physostigma.
Ergot.

Alcohol.
Tobacco.
Sabadilla (later).
**Muscarin ?*
**Faborandi ?*

PARALYSERS.

Antimony.
Belladonna.
Hyoscyamus.
Stramonium.
Veratrum Viride.
Tobacco (later)

Digitalis (finally).
Strychnia "
Opium "
Physostigma.
Ergot.
Sabadilla ?

Arterioles.

STIMULANTS (or CONTRAC- TORS).

Ammonia.
Lead ?

PARALYSERS (or DILATORS).

Nitrite of Amyl.
Belladonna.

Blood-Corpuscles.

INCREASERS.

Ferrum (slight).

DIMINISHERS.

Plumbum (long continued).
Hydrargyrum "
Cinchona ?
Phosphorus ?

Oxygenating-Power.

Ferrum.

Cinchona.

Nitrite of Amyl.

ORGANS OF RESPIRATION.**Peripheral Branches of Pneumo-Gastric.****STIMULATORS.**

*Salicylic Acid.

Carbolic Acid.

PARALYSERS.

Belladonna.

Hyosoyamus.

Stramonium.

Tobacco ?

Aconite.

Lobelia.

Hydrocyanic Acid ?

Secretions.**INCREASEASERS.**

Antimony.

Ammonia.

Ipecacuanha.

*Jaborandi.

Senega.

Scilla.

*Muscarin.

Ether.

DIMINISHERS.

Opium.

Belladonna.

Hyoscyamus.

Stramonium.

ORGANS OF DIGESTION.

Salivary Glands.

STIMULATORS OF SECRETION. DIMINISHERS OF SECRETION.

Hydrargyrum.

*Jaborandi.

Antimony.

*Muscarin.

Cantharides.

Iodine.

Digitalis (occasionally).

Opium.

Belladonna.

Hyoscyamus.

Stramonium.

Irritating substances topically applied.

Stomach.

STIMULANTS OF SECRETION.

DIMINISHERS.

Arsenic

Antimony

Zinc

Copper

Phosphorus

Mineral Acids

Colchicum

In minute doses.

The stimulants in larger doses.

Opium.

Belladonna.

Cinchona.

Nux Vomica.

Quassia.

Gentian.

Calumba.

INTESTINES.

SECRETION INCREASERS.

SECRETION DIMINISHERS.

Colocynth.

Croton Oil.

Arsenic.

Antimony.

Colchicum.

Scammony.

Jalap.

Podophyllin.

Elaterium.

Mercury.

Aloes.

The milder purgatives.

Opium.

Peristaltic Action.

INCREASERS.

- (1) By paralysing Inhibitory Nerves.
 Belladonna.
 Hyoscyamus.
 Stramonium.
- (2) By direct Irritation of Muscle.
 Physostigma.
 Ergot.

DIMINISHERS.

- Opium.
 BY PARALYSING THE MUSCLE.
 Belladonna
 Hyoscyamus } last stage.
 Stramonium }

LIVER.

INCREASERS OF BILE.

- *Iridin.
 *Euonymin.
 Podophyllin.
 Perchloride of Mercury.
 Colchicum.
 Aloes.
 Colocynth.
 *Salicylate of Soda.
 Ipecacuanha.
 Benzoic Acid.
 Phosphate of Sodium.
 Phosphate of Ammonium.

- Rhubarb.*
Falap.
Nitro-hydrochloric Acid.
Sulphate of Soda.
Physostigma.
 **Faborandi.*

DIMINISHERS OF BILE.

- Acetate of Lead.
 Intestinal Irritants.

GENITO-URINARY SYSTEM.

URINE.

COLOURERS.

Santonine.
Carbolic Acid.

Reaction.

ACIDIFIERS.

Ammonia.
Tartaric Acid.
Citric Acid.
Benzoic Acid.

ALKALISERS.

Carbonate	} of Potash, Soda and Lithia.
Bicarbonate	
Citrate	
Acetate	
Tartrate	

Water.

INCREASERS.

Cantharides (small doses).
Turpentine "
Juniper "
Digitalis.
Potash Salts.
Scilla (small doses).
Scoparius.
Santonine.
Belladonna.

DIMINISHERS.

Cantharides (large doses).
Turpentine "
Scilla "
Nitrate of Potash "
Juniper "
Belladonna.

Urea.

INCREASERS.

Ferrum.
Chloride of Ammonium.
Potash Salts.
Belladonna?

DIMINISHERS.

Cinchona.
Alcohol.

Uric Acid.

INCREASERS.

Chloride of Ammonium.
Potash Salts.
Belladonna?

DIMINISHERS.

Cinchona.
Lead.

PRODUCERS OF HÆMATURIA AND ALBUMINURIA.

Cantharides.

Lead.

Turpentine.

Carbolic Acid.

PRODUCERS OF GLYCOSURIA.

Nitrite of Amyl.

Ether.

Chloroform.

APHRODISIACS.

Phosphorus.

Cannabis Indica.

Nux Vomica.

Cantharides.

Camphor ? (small doses).

ANAPHRODISIACS.

Bromide of Potassium.

Camphor (large doses).

Uterus.

STIMULATORS.

Ergot.

Sabina.

Physostigma ?

Digitalis ?

SKIN.

SWEATERS.

Antimony.
 *Jaborandi.
 *Muscarin.

DRIERS.

Belladonna.
 Hyoscyamus.
 Stramonium.

Rash Producers.

External Application

{ Croton Oil.
 Antimony.
 Sulphur.
 Ipecacuanha ?

Internally given

Bromide of Potassium.	Acne.
Tar.	"
Chloral Hydrate.	Erythema.
Copaiba.	Urticaria.
Cubebs.	"
*Salicylic Acid.	"
Belladonna.	Small scarlet papules.
Hyoscyamus.	"
Iodide of Potassium.	Petechiæ.
Arsenic.	Eczema.

DISCOLOURER.

Silver (long continued).

TEMPERATURE.**ELEVATORS.**

Belladonna.
Thebaia.
Digitalis ?

REDUCERS.

Nitrite of Amyl.
Bromide of Potassium.
Chloral.
Alcohol.
Antimony.
Cinchona.
Digitalis (larger doses).



