

THE  
BRITISH ENCYCLOPAEDIA  
OF  
MEDICAL PRACTICE  
—  
VOLUME 5

SIR HUMPHRY ROLLESTON

WITH ASSISTANCE OF

PROF. F. R. FRASER

PROF. GREY TURNER

PROF. J. YOUNG

SIR LEONARD ROGERS

F. M. R. WALSH

THE  
BRITISH ENCYCLOPAEDIA  
OF MEDICAL PRACTICE

INCLUDING

**MEDICINE SURGERY  
OBSTETRICS GYNAECOLOGY  
AND OTHER SPECIAL SUBJECTS**

*Under the General Editorship of*

SIR HUMPHRY ROLLESTON, BT.

G.C.V.O., K.C.B., M.D., D.Sc., D.C.L., LL.D.

EMERITUS REGIUS PROFESSOR OF PHYSIC, CAMBRIDGE

SOMETIME PRESIDENT OF THE ROYAL COLLEGE OF PHYSICIANS OF LONDON

*With the assistance in a consultative capacity of*

F. R. FRASER, M.D., F.R.C.P., Professor of Medicine, University of London; Director of Department of Medicine, British Postgraduate Medical School

G. GREY TURNER, D.CH., M.S., F.R.C.S., F.R.A.C.S., F.A.C.S., Professor of Surgery, University of London; Director of Department of Surgery, British Postgraduate Medical School

JAMES YOUNG, D.S.O., M.D., F.R.C.S.ED., F.C.O.G., Professor of Obstetrics and Gynaecology, University of London; Director of Department of Obstetrics and Gynaecology, British Postgraduate Medical School

SIR LEONARD ROGERS, K.C.S.I., M.D., LL.D., F.R.C.P., F.R.C.S., F.R.S., Late Physician, Hospital for Tropical Diseases, London

F. M. R. WALSH, O.B.E., M.D., D.Sc., F.R.C.P., Fellow of University College; Physician in Charge of the Neurological Department, University College Hospital; Physician, National Hospital, Queen Square, London

VOLUME FIVE

ENDOSCOPY OF RESPIRATORY TRACT TO GOITRE

LONDON

BUTTERWORTH & CO. (PUBLISHERS), LTD.

BELL YARD, TEMPLE BAR

*Associate Editors for Special Subjects*

LIONEL COLLEDGE, M.B., F.R.C.S.

SURGEON, EAR AND THROAT DEPARTMENT, ST. GEORGE'S HOSPITAL;  
SURGEON, GOLDEN SQUARE THROAT, NOSE AND EAR HOSPITAL, LONDON

E. C. DODDS, M.V.O., D.Sc., M.D., F.R.C.P.

COURTAULD PROFESSOR OF BIOCHEMISTRY, UNIVERSITY OF LONDON;  
DIRECTOR, COURTAULD INSTITUTE OF BIOCHEMISTRY, MIDDLESEX HOSPITAL, LONDON

R. D. GILLESPIE, M.D., F.R.C.P., D.P.M.

PHYSICIAN IN CHARGE, DEPARTMENT OF PSYCHOLOGICAL MEDICINE, GUY'S HOSPITAL;  
LECTURER IN PSYCHOLOGICAL MEDICINE, GUY'S HOSPITAL MEDICAL SCHOOL, LONDON

R. FOSTER MOORE, O.B.E., B.Ch., F.R.C.S.

OPHTHALMIC SURGEON, ST. BARTHOLOMEW'S HOSPITAL, LONDON;  
SURGEON, ROYAL LONDON OPHTHALMIC HOSPITAL

ARTHUR WHITFIELD, M.D., F.R.C.P.

CONSULTING PHYSICIAN, SKIN DEPARTMENT, KING'S COLLEGE HOSPITAL;  
EMERITUS PROFESSOR OF DERMATOLOGY, KING'S COLLEGE, LONDON

*Publishing Editor*

M. NEWFIELD, M.R.C.S., L.R.C.P.

---

First Edition, 1937  
Second Impression, 1938  
Third Impression, 1939  
Fourth Impression, 1943

---

**THE  
BRITISH ENCYCLOPAEDIA  
OF MEDICAL PRACTICE**

*AFRICA:* BUTTERWORTH & Co. (AFRICA) LTD.  
DURBAN: LINCOLN'S COURT, MASONIC GROVE

*AUSTRALIA:* BUTTERWORTH & Co. (AUSTRALIA) LTD.  
SYDNEY: 8 O'CONNELL STREET  
MELBOURNE: 499 LITTLE COLLINS STREET

*CANADA:* BUTTERWORTH & Co. (CANADA) LTD.  
TORONTO: 137/143 WELLINGTON STREET WEST

*INDIA:* BUTTERWORTH & Co. (INDIA) LTD.  
CALCUTTA: AVENUE HOUSE, CHOWRINGHEE SQUARE  
MADRAS: 317 LINGA CHETTY STREET  
BOMBAY: BRUCE STREET

*NEW ZEALAND:* BUTTERWORTH & Co. (AUSTRALIA) LTD.  
WELLINGTON: 49/51 BALLANCE STREET

# CONTRIBUTORS

## TO THIS VOLUME

ENDOSCOPY OF THE  
UPPER RESPIRATORY AND  
ALIMENTARY TRACTS

WALTER HOWARTH, M.B., B.Ch.,  
F.R.C.S. Surgeon, Ear, Nose, and  
Throat Department, St. Thomas's  
Hospital, London

ENDOSCOPY OF THE  
URINARY TRACT

### Section 1

A. W. BADENOCH, M.D., F.R.C.S.  
Surgical Registrar, Metropolitan  
Hospital, London

### Section 2

CLIFFORD MORSON, O.B.E.,  
F.R.C.S. Surgeon to St. Peter's  
Hospital for Urinary Diseases and  
to Hampstead General Hospital;  
Consulting Urologist to Whipps  
Cross Hospital and the London  
County Council

ENEMAS AND COLONIC  
IRRIGATIONS

S. W. PATTERSON, M.D., D.Sc.,  
F.R.C.P. Physician and  
Bacteriologist, Ruthin Castle,  
North Wales

ENOPHTHALMOS AND  
EXOPHTHALMOS

H. B. STALLARD, M.D., F.R.C.S.  
Assistant Surgeon, Royal London  
Ophthalmic Hospital

ENTERIC FEVERS

C. E. LAKIN, M.D., F.R.C.P.,  
F.R.C.S. Physician to the Middle-  
sex Hospital and to the London  
Fever Hospital

ENURESIS

ALAN A. MONCRIEFF, M.D.,  
F.R.C.P. Physician to the  
Children's Department, Middle-  
sex Hospital, and to Out-Patients,  
Hospital for Sick Children, Great  
Ormond Street, London

- EPIDERMOLYSIS BULLOSA**      RUPERT HALLAM, M.D., M.R.C.P.  
Lecturer in Diseases of the Skin,  
University of Sheffield
- EPIDIDYMITIS**      BREVET-COLONEL L. W.  
HARRISON, D.S.O., M.B.,  
F.R.C.P.Ed. Consultant in  
Venereal Diseases, British Post-  
graduate Medical School, London
- EPILEPSY**      W. RUSSELL BRAIN, D.M.,  
F.R.C.P. Physician with Charge  
of Out-Patients to the London  
Hospital; Physician to the Hosp-  
ital for Epilepsy and Paralysis,  
Maida Vale; Neurologist, Infants  
Hospital, Vincent Square
- EPILOIA**      Sections 1, 2, and 4 to 7  
W. RUSSELL BRAIN, D.M.,  
F.R.C.P. Physician with Charge  
of Out-Patients to the London  
Hospital; Physician to the Hosp-  
ital for Epilepsy and Paralysis,  
Maida Vale; Neurologist, Infants  
Hospital, Vincent Square  
Section 3  
J. G. GREENFIELD, M.D., B.Sc.,  
F.R.C.P. Pathologist, National  
Hospital for Nervous Diseases,  
Queen Square, London
- EPIPHYSES, DISEASES AND  
INJURIES**      E. P. BROCKMAN, M.Ch.,  
F.R.C.S. Orthopaedic Surgeon,  
Westminster Hospital; Surgeon,  
Royal National Orthopaedic  
Hospital, London
- EPISTAXIS**      LIONEL COLLEDGE, M.B., F.R.C.S.  
Surgeon to the Ear and Throat  
Department, St. George's Hosp-  
ital, and to the Golden Square  
Throat, Nose and Ear Hospital,  
London



ERUPTIONS, ANOMALOUS  
AND ATYPICAL

ARTHUR WHITFIELD, M.D.,  
F.R.C.P. Consulting Physician,  
Skin Department, King's College  
Hospital; Emeritus Professor of  
Dermatology, King's College,  
London

## ERYSIPELAS

JOHN B. HUNTER, M.C., M.Chir.,  
F.R.C.S. Surgeon to King's  
College Hospital, and to the  
Royal Chest Hospital, London

## ERYTHEMA

R. T. BRAIN, M.D., F.R.C.P.  
Physician in Charge of the Skin  
Departments at the Royal Free  
Hospital and the Hospital for  
Sick Children, Great Ormond  
Street; Consultant, British Post-  
graduate Medical School, London

## ERYTHRAEMIA

L. S. P. DAVIDSON, M.D.,  
F.R.C.P.Ed., F.R.S.Ed. Regius  
Professor of Medicine, University  
of Aberdeen

## ERYTHROCYANOSIS

E. D. TELFORD, M.Sc., B.Ch.,  
F.R.C.S. Emeritus Professor of  
Surgery, University of Manchester;  
Surgeon, Royal Infirmary,  
Manchester

## ERYTHROMELALGIA

G. W. PICKERING, M.B.,  
M.R.C.P. Assistant, Department  
of Clinical Research, and  
Lecturer in Cardiovascular  
Pathology, University College  
Hospital, London

ETIQUETTE AND ETHICS IN  
MEDICAL PRACTICE

C. O. HAWTHORNE, M.D.,  
F.R.C.P., F.R.F.P.S., Hon. LL.D.,  
D.Sc. Honorary Fellow of the  
Royal Academy of Medicine in  
Ireland; Consulting Physician,  
Royal Waterloo Hospital, Hamp-  
stead and North-West London  
Hospital, and Central London  
Ophthalmic Hospital; formerly  
Chairman, Central Ethical  
Committee, British Medical  
Association



## EXHIBITIONISM

W. LINDESAY NEUSTATTER, B.Sc., M.B., B.S., M.R.C.P. Assistant in Clinical Research to the Department of Psychological Medicine, Guy's Hospital; Assistant Physician in Psychological Medicine, Queen Mary's Hospital for the East End, London

## EYE EXAMINATION

O. GAYER MORGAN, M.Chir., F.R.C.S. Senior Ophthalmic Surgeon, Guy's Hospital, London

## EYE, HEREDITARY DISEASES

J. H. DOGGART, M.D., F.R.C.S. Assistant Ophthalmic Surgeon, St. George's Hospital; Ophthalmic Surgeon, the Hospital for Sick Children, Great Ormond Street, London

## EYELIDS, INJURIES AND DISEASES

A. F. MACCALLAN, C.B.E., M.D., F.R.C.S. Ophthalmic Surgeon in Charge of Out-Patients, Westminster Hospital; Consulting Surgeon, Royal Eye Hospital, London; President of the International Organization against Trachoma

## FALLOPIAN TUBES DISEASES

DANIEL DOUGAL, M.C., M.D., F.C.O.G. Professor of Obstetrics and Gynaecology, University of Manchester

## FATIGUE, MENTAL

CHARLES S. MYERS, C.B.E., M.D., D.Sc., F.R.S. Principal, National Institute of Industrial Psychology, London

## FIBRILLATION, MUSCULAR

F. M. R. WALSH, O.B.E., M.D., D.Sc., F.R.C.P. Physician in Charge of the Neurological Department, University College Hospital; Physician, National Hospital for Nervous Diseases, Queen Square, London

## FIBROSITIS

C. W. BUCKLEY, M.D., F.R.C.P.  
Physician, Devonshire Royal  
Hospital, Buxton; Lecturer on  
Chronic Rheumatic Diseases,  
British Postgraduate Medical  
School, London

## FILARIASIS

P. MANSON-BAHR, D.S.O., M.D.,  
F.R.C.P. Director of Clinical  
Tropical Medicine, London  
School of Hygiene and Tropical  
Medicine; Physician, Hospital for  
Tropical Diseases, London; Con-  
sulting Physician, Colonial Office  
and Crown Agents for the  
Colonies

FLUKE INFECTIONS,  
INTESTINAL

Sections 1, and 3 to 7  
P. MANSON-BAHR, D.S.O., M.D.,  
F.R.C.P. Director of Clinical  
Tropical Medicine, London  
School of Hygiene and Tropical  
Medicine; Physician, Hospital for  
Tropical Diseases, London;  
Consulting Physician, Colonial  
Office and Crown Agents for the  
Colonies

## Section 2

PHILIP A. MAPLESTONE, D.S.O.  
D.Sc., M.B., D.T.M. Helminth-  
ologist, School of Tropical  
Medicine, Calcutta

FOETUS DISEASES,  
MALFORMATIONS AND  
MONSTROSITIES

W. M. FELDMAN, M.D., F.R.C.P.,  
F.R.S.E. Senior Physician, St.  
Mary's Hospital, Plaistow,  
London

## FOOD

R. A. McCANCE, M.D., F.R.C.P.  
Assistant Physician in Charge of  
Biochemical Research, King's  
College Hospital

and

ELSIE M. WIDDOWSON, B.Sc.,  
Ph.D. Biochemist, King's College  
Hospital, London

## FOOD POISONING

W. M. SCOTT, M.D. Medical  
Officer of the Ministry of Health,  
London

FOOT, DISEASES AND  
DEFORMITIES

NORMAN C. LAKE, D.Sc., M.D.,  
M.S., F.R.C.S. Senior Surgeon  
and Lecturer on Surgery, Charing  
Cross Hospital; Surgeon, Boling-  
broke Hospital, London

FROST-BITE AND TRENCH-  
FOOT

LIEUTENANT-COLONEL R. J. C.  
THOMPSON, C.M.G., D.S.O.,  
M.D., M.R.C.P., R.A.M.C.  
(Retired)

## FUNGOUS DISEASES

W. N. GOLDSMITH, M.D.,  
F.R.C.P. Physician, St. John's  
Hospital for Diseases of the  
Skin; Assistant Physician, Skin  
Department, University College  
Hospital, London

GALL-BLADDER AND BILE-  
DUCTS

SIR DAVID WILKIE, O.B.E., Ch.M.,  
F.R.C.S. Professor of Surgery,  
University of Edinburgh

## GARGOYLISM

RICHARD W. B. ELLIS, M.D.,  
M.R.C.P. Assistant Physician for  
Children's Diseases, Guy's  
Hospital; Physician, The Infants  
Hospital, Vincent Square, London

GASSING AND POISON  
GASES IN WAR

LIEUTENANT-COLONEL L. T.  
POOLE, D.S.O., M.C., M.B.,  
Ch.B., D.P.H. Assistant Professor  
of Pathology, Royal Army  
Medical College, London

## GASTRITIS

DOROTHY C. HARE, C.B.E., M.D.,  
F.R.C.P., D.P.H. Consulting  
Physician, Royal Free Hospital,  
London

## GERMAN MEASLES

W. H. W. ATTLEE, M.D.,  
M.R.C.P. Chairman of the Eton  
College Medical Board; Senior  
Physician, King Edward VII  
Hospital, Windsor

## GLANDERS

L. E. H. WHITBY, C.V.O., M.C.,  
M.D., F.R.C.P. Assistant Patho-  
logist to the Bland-Sutton  
Institute of Pathology, Middlesex  
Hospital, London

## GLANDULAR FEVER

H. LETHEBY TIDY, D.M.,  
F.R.C.P. Physician, St. Thomas's  
Hospital, London

## GLAUCOMA

SIR STEWART DUKE-ELDER, M.D.,  
D.Sc., Ph.D., F.R.C.S. Oph-  
thalmic Surgeon, St. George's  
Hospital, London

## GLYCOGEN DISEASE

RICHARD W. B. ELLIS, M.D.,  
M.R.C.P. Assistant Physician for  
Children's Diseases, Guy's  
Hospital; Physician, The  
Infants Hospital, Vincent Square,  
London

## GLYCOSURIA

GEORGE GRAHAM, M.D., F.R.C.P.  
Physician, St. Bartholomew's  
Hospital, London

GOITRE AND OTHER  
DISEASES OF THE  
THYROID GLAND

F. R. FRASER, M.D., F.R.C.P.  
Professor of Medicine, University  
of London; Director of Depart-  
ment of Medicine, British Post-  
graduate Medical School  
and  
SIR THOMAS DUNHILL, K.C.V.O.,  
C.M.G., M.D., F.R.A.C.S.  
Surgeon to H.M. the King;  
Consultant Surgeon, St. Bar-  
tholomew's Hospital, London;  
Honorary Consultant for Treat-  
ment of Thyroid Diseases,  
London County Council

## ACKNOWLEDGEMENTS

We wish to express our thanks for permission to reproduce the following illustrations: to Dr. R. E. Roberts (Plate IV); to the Editor of the *American Journal of Hygiene* (Fig. 69), the Editor of the *American Journal of Public Health* (Fig. 109), the Editor of the *Archives of Dermatology and Syphilology* (Figs. 20 to 22), the Editor of the *British Journal of Surgery* (Figs. 128, and 130 to 136), the Editor of the *British Medical Journal* (Fig. 91 and Plate IV), the Editor of the *Zentralblatt für Bakteriologie* (Fig. 68), the Editor of the *Journal of the American Medical Association* (Fig. 110), the Editor of the *Galton Laboratory Memoirs* (Figs. 32 to 40), the Editor of the *Proceedings of the Royal Society of Medicine* (Figs. 75, 81, 82, 84, 89, and 101 to 103), and the Editor of the *St. Bartholomew's Hospital Reports* (Fig. 85); to Messrs. Baillière, Tindall & Cox (Figs. 92 to 100), Messrs. John Bale, Sons & Curnow, Ltd. (Figs. 29 to 31, and 79), Messrs. Cassell & Co., Ltd. (Figs. 56 to 67, 71 to 74, 137, and 139), Messrs. J. & A. Churchill, Ltd. (Figs. 76 to 78, 88, 90, 108, and 111), Messrs. W. Green & Son, Ltd. (Fig. 83), Mr. Henry Kimpton (Fig. 70), Messrs. Vigot Frères (Figs. 80, 86, and 87); and to Messrs. Theodore Hamblin, Ltd. (Figs. 24, 26, and 28), and Messrs. John Weiss & Son, Ltd. (Figs. 43, and 46 to 48).

BUTTERWORTH & CO. (PUBLISHERS), LTD.

# TABLE OF CONTENTS

	PAGES
ENDOSCOPY OF THE UPPER RESPIRATORY AND ALIMENTARY TRACTS - - -	1- 19
ENDOSCOPY OF THE URINARY TRACT -	20- 32
ENEMAS AND COLONIC IRRIGATIONS -	33- 41
ENOPHTHALMOS AND EXOPHTHALMOS -	42- 49
ENTERIC FEVERS - - - - -	50- 76
ENURESIS - - - - -	77- 81
EPIDERMOLYSIS BULLOSA - - -	82- 85
EPIDIDYMITIS - - - - -	86- 95
EPILEPSY - - - - -	96-116
EPILOIA - - - - -	117-126
EPIPHYSES, DISEASES AND INJURIES -	127-140
EPISTAXIS - - - - -	142-144
ERUPTIONS, ANOMALOUS AND ATYPICAL	146-153
ERYSIPELAS - - - - -	154-158
ERYTHEMA - - - - -	159-175
ERYTHRAEMIA - - - - -	176-182
ERYTHROCYANOSIS - - - - -	183-187.
ERYTHROMELALGIA - - - - -	188-193
ETIQUETTE AND ETHICS IN MEDICAL PRACTICE - - - - -	194-206
EXHIBITIONISM - - - - -	208-214
EYE EXAMINATION - - - - -	216-228
EYE, HEREDITARY DISEASES - - -	229-238
EYELIDS, INJURIES AND DISEASES - -	239-249

FALLOPIAN TUBES DISEASES	-	-	-	-	-	250-266
FATIGUE, MENTAL	-	-	-	-	-	267-274
FIBRILLATION, MUSCULAR	-	-	-	-	-	276-278
FIBROSITIS	-	-	-	-	-	279-300
FILARIASIS	-	-	-	-	-	301-318
FLUKE INFECTIONS, INTESTINAL	-	-	-	-	-	320-333
FOETUS DISEASES, MALFORMATIONS AND MONSTROSITIES	-	-	-	-	-	334-387
FOOD	-	-	-	-	-	388-400
FOOD POISONING	-	-	-	-	-	401-411
FOOT, DISEASES AND DEFORMITIES	-	-	-	-	-	412-437
FROST-BITE AND TRENCH-FOOT	-	-	-	-	-	440-447
FUNGOUS DISEASES	-	-	-	-	-	448-475
GALL-BLADDER AND BILE-DUCTS	-	-	-	-	-	477-495
GARGOYLISM	-	-	-	-	-	496-501
GASSING AND POISON GASES IN WAR	-	-	-	-	-	502-532
GASTRITIS	-	-	-	-	-	533-544
GERMAN MEASLES	-	-	-	-	-	547-553
GLANDERS	-	-	-	-	-	555-558
GLANDULAR FEVER	-	-	-	-	-	559-574
GLAUCOMA	-	-	-	-	-	575-585
GLYCOGEN DISEASE	-	-	-	-	-	586-592
GLYCOSURIA	-	-	-	-	-	593-598
GOITRE AND OTHER DISEASES OF THE THYROID GLAND	-	-	-	-	-	599-632



# LIST OF PLATES

PLATE		FACING PAGE
I.	Direct laryngoscopy. Various positions of laryngoscope and view obtained at each ( <i>colour</i> ) - - -	5
II.	Urethroscopic and cystoscopic pictures ( <i>colour</i> ) - -	23
III.	Erythrocyanosis of legs ( <i>colour</i> ) - - -	185
IV.	A. Hydrocephalic foetus. B. Anencephalic foetus, post-mature ( <i>radiographs</i> ) - - -	369
V.	Double monster, cephalo-thoracopagus. A. Antenatal. B. After birth ( <i>radiographs</i> ) - - -	383
VI.	Radiographs of gall-bladder after iodophthalein - -	484

# LIST OF ILLUSTRATIONS

FIG.	PAGE
1. Bronchoscopic examination - - - - -	6
2. Brónchoscopy. Appearances at various levels - -	7
3. Anatomical relations of oesophagus at main constrictions	13
4. Distances of main constrictions of oesophagus from teeth in the direct line - - - - -	14
5. Oesophagoscopy. Appearances at various levels - -	15
6. Granuloma of orbit - - - - -	44
7. Meningioma of arachnoid of optic nerve. Sagittal section through globe and optic nerve - - - - -	46
8. Epidermolysis bullosa. Scarring of skin of legs after repeated bullae - - - - -	83
9. Epidermolysis bullosa. Absence of nails, bulla on little finger, and epidermal cysts - - - - -	84
10. Section of cerebral cortex showing group of giant nerve- cells in tuberous sclerosis - - - - -	120
11. Nodule of neuroglial tissue in retina in case of epiloia -	121
12. Section of rhabdomyoma of heart - - - - -	121
13. Photograph of patient with epiloia, showing adenoma sebaceum - - - - -	124
14. Radiograph of early pseudo-coxalgia - - - - -	132
15. Erythema ab igne - - - - -	161
16. Erythema induratum (Bazin) - - - - -	165
17. Erythema multiforme - - - - -	169
18. Erythema iris - - - - -	170
19. Erythema elevatum diutinum - - - - -	171
20, 21, 22. Histology of nodules in erythrocyanosis -	184, 184, 185
23. Focusing lens - - - - -	217
24. Corneal loupe - - - - -	217
25. Binocular corneal loupe - - - - -	218
26. Electric ophthalmoscope - - - - -	218
27. Keratic precipitates - - - - -	221