

# A TEXTBOOK OF

# Medicine

# Edited by

RUSSELL L. CECIL, M.D., Sc.D.

Professor of Clinical Medicine Emeritus, Cornell University, New York

ROBERT F. LOEB, M.D., Sc.D., D. Hon. Causa., LL.D. Bard Professor of Medicine, Columbia University, New York

# Associate Editors

ALEXANDER B. GUTMAN, M.D., Ph.D. Professor of Medicine, Columbia University, New York

# WALSH McDERMOTT, M.D.

Livingston Farrand Professor of Public Health and Preventive Medicine, Cornell University, New York

HAROLD G. WOLFF, M.D.

Professor of Medicine (Neurology), Cornell University, New York

Ninth Edition, Illustrated

Reprinted November, 1955

# Preface to the Ninth Edition

Year by year Internal Medicine continues to make rapid advances, and to meet this constant change, textbooks of medicine must progress also. In this, the Ninth Edition, the Editors have tried to reflect the many strides which have taken place in medicine during the past four years. Again we have emphasized the physiologic and biochemical aspects of disease and we still believe that this important part of modern medicine can best be covered by combining physiology and biochemistry with the actual description of the disease rather than by presenting them in a separate section of the book.

The Ninth Edition contains the following articles on subjects which have not been covered in previous editions:

Colorado Tick Fever
Coxsackie Viral Infections Dr. Robert J. Huebner
Epidemic Hemorrhagic FeverDr. David P. Earle
Cat Scratch Disease
Acute Infectious Nonbacterial Gastroenteritis. Dr. Irving Gordon
Introduction to Bacterial Diseases Dr. Chester H. Keefer
Hemophilus Ducreyi Infections Dr. Hattie E. Alexander
Nonsyphilitic Treponematoses
Bejel Dr. Thomas B. Turner
The Leptospiroses—
Pretibial Fever
Leptospiral Meningitis
Grippe-like Illness and Other Forms of
Leptospiral Infection Dr. Paul H. Beeson
Visceral Larva Migrans Dr. Ernest Carroll Faust
Dirofiliriasis Dr. Ernest Carroll Faust
Milk Sickness Dr. Russell L. Cecil
Scleredema
Blast Injury Dr. Robert C. Darling
War Gases Dr. John R. Wood
Burning Feet Syndrome Dr. Tom D. Spies
Pyridoxine (Vitamin B <sub>6</sub> ) DeficiencyDr. Tom D. Spies
Vitamins and Blood Regeneration Dr. Tom D. Spies
Kwashiorkor Dr. Tom D. Spies
Atherosclerosis
Xanthomatosis Dr. David P. Barr
Dehydration and Fluid Balance Dr. Robert W. Berliner
D

W.L.	A1 1 D C .
MelanosisDr.	
CarotenemiaDr.	Franklin M. Hanger
Portal Hypertension Dr.	Arthur J. Patek
Pulmonary Arteriovenous FistulaDr.	Dickinson W. Richards
Cystic Disease of the Lungs	Herbert C. Maier
AsbestosisDr.	William S. McCann
Acute Nonspecific Pericarditis Dr.	Johnson McGuire
Senile Heart Disease (Presbycardia)Dr.	Hugh Morgan
Introduction to Diseases of the Muscles Dr.	Joseph L. Lilienthal, Jr.
The Painful Shoulder	
Calcific Tendinitis	
Adhesive Peritendinitis	
Arthritis of the Shoulder	
Shoulder-Hand Syndrome Dr.	Russell L. Cecil
Hyperostosis Frontalis Interna Dr.	Walter Bauer
HemiplegiaDr.	Louis Hausman
Delirium	
The Dementias	William H. Dunn
Nonpurulent Meningitis Dr.	Chester H. Keefer
Developmental Anomalies of the Cervico-	
medullary Juncture	Bronson S. Ray
Petrositis	

In addition to this new material, the retirement or death of a number of former contributors has necessitated the preparation of fifty-eight new treatises on subjects previously covered. There have been several transpositions of material: Bartonellosis (Carrion's Disease) has been transferred from Rickettsial Diseases to Bacillary Diseases. Hepatolenticular Degeneration, Familial Periodic Paralysis and Phenylpyruvic Oligophrenia have been moved from the section on Nervous Diseases to the section on Inborn Errors of Metabolism. The Dystrophies have been transposed from Diseases of the Nervous System to Diseases of the Muscles.

It is with deepest regret that the Editors must report the death of seven contributors: Drs. William DeWitt Andrus, Francis G. Blake, William H. Dunn, George M. Mackenzie, Wilbur A. Sawyer, James Stevens Simmons and Williard O. Thompson.

The Editors wish to extend their sincere thanks to the distinguished contributors who have written for this Ninth Edition. Their cooperation has been of the greatest aid in editing the new edition. We also wish to express our appreciation to the officers and staff of the W. B. Saunders Company for their constant help and advice. Grateful acknowledgment is due to Mrs. Natalie J. Hoyt, for proofreading, editorial work and the preparation of an exceptionally comprehensive index.

THE EDITORS

June 1955

# Contributors

RAYMOND D. ADAMS, M.A., M.D., M.A. (Hon.) Myelitis; Acute Idiopathic Polyneuritis

Bullard Professor of Neuropathology, Harvard University; Chief of Neurology Service, Massachusetts General Hospital, Boston.

# FULLER ALBRIGHT, M.D.

Introduction to Diseases of the Ductless Glands Associate Professor, Harvard University Medical School; Physician, Massachusetts General Hospital, Boston.

# HARRY L. ALEXANDER, M.D.

Contact Dermatitis; Revision of Angioneurotic Edema; Urticaria; Purpura; Erythemas Emeritus Professor of Clinical Medicine, Washington University Medical School; Associate Physician, Barnes Hospital, St. Louis.

# HATTIE E. ALEXANDER, M.D.

Hemophilus Influenzae Infections; Hemophilus Ducreyi Infections Associate Professor in Pediatrics, College of Physicians and Surgeons, Columbia University;

Attending Pediatrician, Babies Hospital and

Vanderbilt Clinic, New York.

## THOMAS PATTISON ALMY, M.D., F.A.C.P. Regional Ileitis

Associate Professor of Medicine, Cornell University Medical College; Visiting Physician and Director, Second (Cornell) Medical Division, Bellevue Hospital; Associate Attending Physician, The New York Hospital; Assistant Attending Physician, Memorial Cancer Center; Consultant in Medicine, Manhattan Veterans Administration Hospital, New York.

# BERNARD J. ALPERS, M.D., Sc. D. Med.

Diseases of the Motor Tracts

Professor of Neurology, Jefferson Medical College; Neurologist, Jefferson Hospital; Consulting Neurologist, Pennsylvania Hospital, Philadelphia.

# AFRÂNIO DO AMARAL, M.D., D. Hyg. (Trop. Med.) (Harvard)

Snake Venom Poisoning

Professor, Escola Paulista de Medicina, São Paulo (ret.); Postgraduate Course in Experimental Pathology, Instituto Butantan and University of São Paulo; General Director, Instituto Butantan (incl. Vital Brazil Hospital); Chief, Department of Ophiology and Medical Zoology, Instituto Butantan, São Paulo, Brazil.

# J. BURNS AMBERSON, M.D.

Tuberculosis

Professor of Medicine, College of Physicians and Surgeons, Columbia University; Visiting Physician in Charge, Chest Service, Bellevue Hospital, New York.

# DANA W. ATCHLEY, M.D.

The Nephroses; Uremia

Professor of Clinical Medicine, College of Physicians and Surgeons, Columbia University: Visiting Physician, Presbyterian Hospital, New York.

# GEORGE BAEHR, M.D., F.A.C.P.

Disseminated Lupus Erythematosus Formerly Clinical Professor of Medicine, Co-University; Consulting Physician, Mount Sinai Hospital, New York.

# A. B. BAKER, M.S., M.D., Ph.D.

Scalenus Anticus Syndrome; Neuromas Professor of Neurology, University of Minnesota Medical School; Chief of the Neurological Service, University of Minnesota Hospitals. Minneapolis.

# IANET S. BALDWIN, M.D., F.A.A.P.

Congenital Heart Disease

Associate Professor of Pediatrics, New York University-Bellevue Medical Center; Chief, Children's and Adolescents' Cardiac Clinic, Bellevue Hospital; Attending Physician and Chief, Children's Cardiac Clinic, Lenox Hill Hospital, New York.

# ALVAN L. BARACH, M.D., F.A.C.P.

Motion Sickness

Clinical Professor of Medicine, College of Physicians and Surgeons, Columbia University; Associate Attending Physician, Presbyterian Hospital, New York.

# JOHN B. BARNWELL, M.D., Sc.D. (Hon.)

Pleurisy; Pleural Effusion; Pneumothorax; Uncommon Pleural Affections

Formerly Associate Professor of Internal Medicine, University of Michigan Medical School; Director, Tuberculosis Service, U.S. Veterans Administration, Washington, D. C.

# DAVID P. BARR, M.D., Sc.D., LL.D.

Atherosclerosis; Xanthomatosis; Diseases of the Thyroid Gland

Professor of Medicine, Cornell University

Medical College; Physician-in-Chief, New York Hospital; Consulting Physician, Bellevue Hospital, New York.

### FREDERIC C. BARTTER, M.D.

Diseases of the Parathyroid Gland; Osteoporosis; Fragilitas Ossium; Osteomalacia; Osteitis Fibrosa Cystica Generalisata; Fibrous Dysplasia of Bone; Osteitis Deformans; Leontiasis Ossea; Dyschondroplasia; Achondroplasia; Oxycephaly; Hyperostosis Frontalis Interna; Hypertrophic Osteoarthropathy

Chief, Section on Clinical Endocrinology, Clinic of General Medicine and Experimental Therapeutics, National Heart Institute, National Institutes of Health, Bethesda, Md.

# WALTER BAUER, M.D., F.A.C.P.

Osteoporosis; Fragilitas Ossium; Osteomalacia; Osteitis Fibrosa Cystica Generalisata; Fibrous Dysplasia of Bone; Osteitis Deformans; Leontiasis Ossea; Dyschondroplasia; Achondroplasia; Oxycephaly; Hyperostosis Frontalis Interna; Hypertrophic Osteoarthropathy

Jackson Professor of Clinical Medicine, Harvard University Medical School; Chief of Medical Services, Massachusetts General Hospital, Boston.

# PAUL B. BEESON, M.D., C.M.

Typhoid Fever; The Leptospiroses

Professor of Medicine and Chairman of the Department of Internal Medicine, Yale University School of Medicine; Physician-in-Chief, University Service, Grace-New Haven Community Hospital, New Haven, Conn.

# ROBERT W. BERLINER, M.D.

Dehydration and Fluid Balance: Physiological Principles

Associate Director (In Charge of Research), National Heart Institute, National Institutes of Health, Bethesda, Md.

# HERRMAN L. BLUMGART, M.D.

Diseases of the Coronary Arteries

Professor of Medicine, Harvard University Medical School; Physician-in-Chief, Beth Israel Hospital, Boston.

# WILLIAM L. BRADFORD, M.D.

Pertussis

Professor of Pediatrics, University of Rochester School of Medicine and Dentistry; Pediatrician-in-Chief, Strong Memorial Hospital and Rochester Municipal Hospital, Rochester, N. Y.

# RANDOLPH K. BYERS, M.D.

Lead Poisoning

Assistant Clinical Professor of Pediatrics, Harvard Medical School; Neurologist, Children's Medical Center, Boston.

# ANNE C. CARTER, M.D. Diseases of the Female Gonads

Assistant Professor of Medicine, Cornell Uni-

versity Medical College; Assistant Attending Physician, New York Hospital, New York.

WILLIAM B. CASTLE, M.S. (Hon.), M.D., M.D. (Hon.), S.D. (Hon.), F.A.C.P.

Introduction to Diseases of the Blood; The Anemias; Hemorrhagic Diseases; Polycythemia Professor of Medicine, Harvard University; Director, Thorndike Memorial Laboratory; Director, Second and Fourth Medical Services, Boston City Hospital, Boston.

# RUSSELL L. CECIL, M.D., Sc.D., F.A.C.P.

Miliary Fever; Ainhum; Milk Sickness; Diseases of the Joints

Professor of Clinical Medicine, Emeritus, Cornell University Medical College; Attending Physician, Bellevue Hospital; Consulting Physician, New York Hospital, New York.

# F. SARGENT CHEEVER, M.D.

Diphtheria; Bacillary Dysentery

Professor of Microbiology, Graduate School of Public Health, University of Pittsburgh; Lecturer in Bacteriology, School of Medicine, University of Pittsburgh.

# CHARLES G. CHILD, 3RD, M.D., F.A.C.S.

Diseases of the Pancreas

Professor of Surgery, Tufts College Medical School; Director, First Surgical Service (Tufts), Boston City Hospital; Consultant in Surgery, New England Center Hospital, Boston.

# STANLEY COBB, M.D., D.Sc.

Psychosomatic Medicine

Bullard Professor of Neuropathology, Emeritus, Harvard University; Consultant, Massachusetts General Hospital, Boston.

# L. T. COGGESHALL, M.D., F.A.C.P.

Malaria

Rawson Professor of Medicine, Dean of Division of Biological Sciences, Director of University Clinics, University of Chicago.

# BRADLEY L. COLEY, M.D., F.A.C.S.

Tumors of Bone

Associate Professor of Clinical Surgery, Cornell University Medical College; Attending Surgeon, Memorial Hospital, New York.

# KENDALL B. CORBIN, M.D.

Cervical and Lumbosacral Radiculitis, Including the Syndrome Due to Displacement of an Intervertebral Disk

Professor of Neurology, Mayo Foundation, University of Minnesota Graduate School; Consultant, Section of Neurology, Mayo Clinic, Rochester, Minn.

# DESMOND CURRAN, M.D. (Camb.), F.R.C.P. (Lond.), D.P.M.

Delirium

St. George's Hospital Medical School, University of London; Senior Consultant Psychiatrist, St. George's Hospital, London, England.

# G. M. DACK, M.D., Ph.D.

Food Poisoning

Professor of Microbiology, University of Chicago.

# WORTH B. DANIELS, M.D., F.A.C.P.

Cat Scratch Disease

Clinical Professor of Medicine, Georgetown University School of Medicine; Senior Consultant in Medicine, Veterans Administration Hospital; Attending Physician, Emergency Hospital, Washington, D.C.

# MARGARET DANN, M.D., Ph.D., F.A.A.P.

Phenylpyruvic Oligophrenia

Assistant Professor of Pediatrics, Cornell University Medical College; Associate Attending Pediatrician, New York Hospital, New York.

# ROBERT C. DARLING, M.D.

Heat Exhaustion, Heat Stroke and Heat Cramps; Decompression Illness; Blast Injury

Professor of Physical Medicine and Rehabilitation, College of Physicians and Surgeons, Columbia University; Director and Attending Physician, Physical Medicine and Rehabilitation Service, Presbyterian Hospital, New York.

# MICHAEL E. DEBAKEY, M.D., M.S., F.A.C.S. Intestinal Obstruction; Intestinal Neoplasms; Af-

fections of the Mesentery

Professor and Chairman, Department of Surgery, Baylor University College of Medicine; Surgeon-in-Chief, Jefferson Davis and Methodist Hospitals, Houston, Texas.

# ARTHUR CHRISTIAN DEGRAFF, M.D., F.A.C.P. Neurocirculatory Asthenia; Carotid Sinus Syn-

Professor of Therapeutics, New York University College of Medicine; Visiting Physician, Bellevue Hospital; Attending Physician, University Hospital, New York University-Bellevue Medical Center; Senior Consultant in Medicine, Bronx Veterans Administration Hospital, New York.

# DEREK DENNY-BROWN, A.M. (Lond.), M.D., Ph.D., F.R.C.P.

Hepatolenticular Degeneration; Hereditary Chorea; Familial Spastic Paralysis; Progressive Familial Neuritic Atrophies; Dystonia Musculorum Deformans; Combined System Disease; Paralysis Agitans; Tic and Torticollis Putnam Professor of Neurology, Harvard University Medical School; Neurologist-in-Chief and Director of Neurological Unit, Boston City Hospital, Boston.

### LEWIS DEXTER, M.D., F.A.C.P.

Toxemia of Pregnancy; Vascular Hypertension; Vascular Hypotension

Assistant Professor of Medicine and Tutor in Medicine, Harvard University Medical School; Physician, Peter Bent Brigham Hospital; Consultant in Medicine, Children's Medical Center, Boston.

# FRANCIS R. DIEUAIDE, M.D.

Cholera: Plague: Leishmaniasis

Scientific Director, The Life Insurance Medical Research Fund; Clinical Professor of Medicine, Columbia University, New York; Formerly Professor of Medicine and Head of Department of Medicine, Peiping Union Medical College, China.

# JOHN H. DINGLE, M.D., Sc.D.

Meningococcal Infections

Professor of Preventive Medicine and Associate Professor of Medicine, School of Medicine, Western Reserve University; Associate Physician, University Hospitals; Senior Consultant in Medicine, Crile Veterans Administration Hospital, Cleveland.

# CHARLES AUSTIN DOAN, M.D., F.A.C.P.

Diseases of the Spleen

Dean and Professor of Medicine, Director of Medical Research, Ohio State University College of Medicine; Director, the University Hospitals, Ohio State University.

# WILLIAM H. DUNN, M.D.

The Dementias

Late Associate Professor of Clinical Psychiatry, Cornell University Medical College; Late Associate Attending Psychiatrist, New York Hospital, New York.

# DAVID P. EARLE, M.D., Med. Sc.D.

Epidemic Hemorrhagic Fever

Professor of Medicine, Northwestern University Medical School, Chicago.

### GEORGE LIBMAN ENGEL, M.D.

Syncope

Associate Professor of Psychiatry and Medicine, University of Rochester School of Medicine and Dentistry; Associate Psychiatrist and Associate Physician, Strong Memorial and Rochester Municipal Hospitals, Rochester, N. Y.

# JOHN B. ERICH, M.S., D.D.S., M.D., F.A.G.S. Diseases of the Mouth, Salivary Glands and

Pharynx

Associate Professor of Plastic Surgery, Graduate School, University of Minnesota; Head of Department of Plastic Surgery, Mayo Clinic, Rochester, Minn.

# ERNEST CARROLL FAUST, M.A., Ph.D.

Sporozoan Infections: Toxoplasmosis; Ciliate Infections; Sarcosporidiosis; The Platyhelminthes; The Nematoda; Trichocephaliasis; Strongyloidiasis; Creeping Eruption; Ascariasis; Visceral Larva Migrans; Enterobiasis; Filariasis; Dracunculosis; Arthropods and Human Disease; Arthropods as Causative Agents of Disease; Arthropods as Mechanical Carriers or Essential Hosts

William Vincent Professor of Tropical Diseases and Hygiene, and Head, Division of Parasitology, Department of Tropical Medicine and Public Health, Tulane University, New Orleans. Parasitologist, Hutchinson Memorial Clinic; Resident Consultant, Armed Forces Institute of Pathology.

# CLEMENT A. FINCH, M.D.

Hemochromatosis

Associate Professor of Medicine, University of Washington School of Medicine; Attending Physician, King County Hospital and Veterans Administration Hospital, Seattle.

# MAXWELL FINLAND, M.D.

Klebsiella Infections (Friedländer's Bacillus)
Associate Professor of Medicine, Harvard University Medical School; Chief, Fourth Medical Service, Boston City Hospital; Associate Director, Thorndike Memorial Laboratory, Boston.

# LLOYD FLORIO, M.D., D.P.H., F.A.C.P. Colorado Tick Fever

Professor and Head, Department of Preventive Medicine, University of Colorado School of Medicine; Manager, Health and Hospitals, City of Denver; Consultant, Denver General Hospital, Children's Hospital, Denver.

# LEROY D. FOTHERGILL, M.D. Equine Encephalomyelitis Camp Detrick, Frederick, Md.

# GEORGE DAVIS GAMMON, M.D., F.A.C.P. Diphtheritic Polyneuritis; Acroparesthesia

Chairman, Department of Neurology, and Professor of Clinical Neurology, University of Pennsylvania; Hospital of the University of Pennsylvania; Neurologist, Children's Hospital; Consultant, Veterans Administration Hospital, Philadelphia.

# FRANK GLENN, M.D.

Diseases of the Peritoneum

Lewis Atterbury Stimson Professor of Surgery,
Cornell University Medical College; Surgeonin-Chief, New York Hospital, New York.

# IRVING GORDON, M.D.

Acute Infectious Nonbacterial Gastroenteritis
Associate Professor of Medicine and Bacteriology, Albany Medical College; Assistant Director, Division of Laboratories and Research, New York State Department of Health; Associate Attending Physician, Albany Hospital, Albany, N.Y.

# WALLACE GRAHAM, M.D., M.R.C.P. (Lond.), F.R.C.P., (Can.)

The Fibrositis Syndrome

Assistant Professor of Medicine, University of Toronto, Faculty of Medicine; Attending Physician, Toronto General Hospital; Consultant and Chief of Arthritis Service, Sunnybrook Veterans Hospital.

# ASHTON GRAYBIEL, A.M., M.D., F.A.C.C. Aviation Medicine

Director of Research, U.S. Naval School of Aviation Medicine, Pensacola, Fla.

# ALEXANDER B. GUTMAN, M.A., Ph.D., M.D., F.A.C.P.

Inborn Errors of Metabolism; The Lipomatoses;
Amyloidosis; Melanosis and Melanuria
Professor of Medicine, College of Physicians
and Surgeons, Columbia University; Director,
Department of Medicine, Mount Sinai Hospital, New York.

# THOMAS HALE HAM, M.D., F.A.C.P. Hemoglobinuria and Myohemoglobinuria Professor of Medicine, School of Medicine,

Professor of Medicine, School of Medicine, Western Reserve University; Physician, University Hospitals, Cleveland.

# FRANKLIN M. HANGER, M.D.

Introduction to Diseases of the Liver; Jaundice Professor of Medicine, College of Physicians and Surgeons, Columbia University; Attending Physician, Presbyterian Hospital, New York.

# KENDRICK HARE, Ph.D., M.D.

Diabetes Insipidus

Professor of Pediatrics and Pharmacology, Medical College of Alabama, Birmingham.

# GEORGE T. HARRELL, M.D., F.A.C.P. Trichinosis

Professor of Medicine and Dean, College of Medicine, University of Florida, Gainesville.

# A. McGEHEE HARVEY, M.D., F.A.C.P.

Dermatomyositis; Polyarteritis; Progressive Systemic Sclerosis; Scleredema; Diseases of the Thymus Gland; Myasthenia Gravis
Professor of Medicine, Johns Hopkins University; Physician-in-Chief, Johns Hopkins Hospital, Baltimore.

# LOUIS HAUSMAN, M.D.

Hemiplegia

Professor of Clinical Medicine (Neurology), Cornell University Medical College; Clinical Professor of Neuropsychiatry, New York University College of Medicine; Director of the Neurological Service, Second (Cornell) Medical Division, Bellevue Hospital, New York.

# JOSEPH H. HAYMAN, JR., M.D.

Non-Parasitic Chyluria; Pneumaturia; Anomalies and Malformations of the Kidneys; Circulatory Disturbances of the Kidneys; Nephroptosis; Hydronephrosis; Bacterial Infections of the Kidney and Urinary Passages; Nephrolithiasis; Cysts of the Kidney; Tumors of the Kidney

Dean and Professor of Medicine, Tufts College Medical School; Senior Physician, New England Center Hospital, Boston.

# CLYDE A. HEATLY, M.D., F.A.C.S.

Diseases of the Nose; Diseases of the Larynx
Associate Professor of Surgery in Charge of
Otolaryngology, University of Rochester School
of Medicine; Otolaryngologist-in-Chief, Strong
Memorial and Municipal Hospitals; Consultant, Rochester General, Highland, and Genesee
Hospitals, Rochester, N.Y.

PHILIP S. HENCH, M.D., Sc.D., LL.D., F.A.C.P.

Gout and Gouty Arthritis

Professor of Medicine, University of Minnesota (Mayo Foundation); Senior Consultant, Department of Rheumatic Diseases, Mayo Clinic, Rochester, Minn.

### THOMAS H. HOLMES, M.D.

Muscle Spasms, Professional Cramp and Backache

Associate Professor of Psychiatry, University of Washington School of Medicine; Attending Physician, King County Hospital; Psychiatric Consultant, Firland Sanatorium; Attending Staff, Veterans Administration Hospital, Seattle; Consultant in Neuropsychiatry, Bremerton Naval Hospital.

# FRANK L. HORSFALL, JR., M.D., C.M.

Introduction to Viral Diseases; Influenza; Herpes Simplex; Herpes Zoster; Psittacosis; Encephalitis Lethargica; St. Louis Encephalitis; Postinfection Encephalitis

Member, The Rockefeller Institute for Medical Research; Physician, Hospital of The Rockefeller Institute, New York.

# ROBERT J. HUEBNER, M.D.

Coxsackie Viral Infections

Associate Professor of Medicine, Georgetown University School of Medicine; Medical Director, U.S. Public Health Service; Chief, Virus Section, L.I.D., National Microbiological Institute, Bethesda, Md.

# THOMAS HARRISON HUNTER, M.D. Endocarditis

Professor of Medicine and Dean, School of Medicine, University of Virginia, Charlottesville, Va.

# HARRIS ISBELL, M.D., F.A.C.P.

Barbiturate Poisoning; Opium Poisoning; Cocaine Poisoning; Chronic Poisoning with Sympathomimetic Amines

Lecturer in Pharmacology, University of Cincinnati Medical School; Director, National Institute of Health Addiction Research Center, U.S. Public Health Service Hospital, Lexington, Ky.

# LEON O. JACOBSON, M.D.

Radiation Injury

Professor of Medicine, University of Chicago; Director, Argonne Cancer Research Hospital, University of Chicago.

# CHARLES A. JANEWAY, M.D.

Lymphocytic Choriomeningitis; Salmonellosis Other than Typhoid Fever; Infections with the Coliform, Proteus and Pseudomonas Groups of Bacilli

Thomas Morgan Rotch Professor of Pediatrics, Harvard University Medical School; Physicianin-Chief, Infants' and Children's Hospitals; Consultant in Infectious Diseases, Peter Bent Brigham Hospital; Pediatrician, Boston Lyingin Hospital, Boston.

# GEORGE A. JERVIS, M.D., Ph.D.

Mental Deficiency

Instructor in Psychiatry, Columbia University; Director of Laboratories, Letchworth Village, New York State Department of Mental Hygiene.

# FREDERICK A. JOHANSEN, M.D., F.A.C.P.

Leprosy

Medical Director, U.S. Public Health Service (Ret.); Formerly Medical Officer in Charge, U.S. Public Health Service Hospital (National Leprosarium), Carville, Louisiana; Member, Medical Advisory Board, Leonard Wood Memorial, (American Leprosy Foundation); Member, World Health Organization Expert Advisory Panel on Leprosy.

# CHESTER M. JONES, M.D., D.Sc.

Diseases of the Esophagus

Clinical Professor of Medicine, Harvard University School of Medicine; Consulting Visiting Physician, Massachusetts General Hospital, Boston.

### ELVIN A. KABAT, Ph.D.

Introduction to Diseases of Allergy
Professor of Microbiology (Assigned to Neurology), College of Physicians and Surgeons, Columbia University, and Neurological Institute, Presbyterian Hospital, New York.

# CHESTER S. KEEFER, M.S., M.D., F.A.C.P.

Introduction to Bacterial Diseases; Meningitis
Wade Professor of Medicine, Boston University
School of Medicine; Director, Evans Memorial
Hospital; Physician-in-Chief, Massachusetts
Memorial Hospitals, Boston.

### ALLAN T. KENYON, M.D.

Diseases of the Pituitary Gland
Professor of Medicine, University of Chicago.

# J. AUSTIN KERR, M.D.

Yellow Fever

Staff Member, Division of Medicine and Public Health, The Rockefeller Foundation, New York.

# EDWIN D. KILBOURNE, M.D.

Measles; Rubella

Associate Professor of Medicine and Director of Division of Infectious Disease, Tulane-University of Louisiana School of Medicine; Attending Physician, Charity Hospital; Consultant, Veterans Administration Hospital, New Orleans.

# WILLIAM M. M. KIRBY, M.D.

Gonococcal Infections

Associate Professor of Medicine, University of Washington School of Medicine, Seattle.

### PAUL KLEMPERER, M.D.

Introduction to Collagen Diseases

Pathologist, Mount Sinai Hospital; Professor of Pathology, College of Physicians and Surgeons, Columbia University, New York.

# WALTER O. KLINGMAN, M.D.

Acute Chorea

Professor of Neurology and Psychiatry, School of Medicine, University of Virginia; Chief of Neurology, Department of Neurology and Psychiatry, University of Virginia Hospital, Charlottesville.

YALE KNEELAND, JR., M.D., F.A.C.P.

Common Upper Respiratory Disease

Associate Professor of Medicine, Columbia University; Attending Physician, Presbyterian Hospital; Clinical Director, Columbia Service, Goldwater Memorial Hospital, New York; Consulting Physician, Sharon (Conn.) Hospital and St. Francis Hospital, Poughkeepsie, N.Y.

# HILARY KOPROWSKI, M.D.

Rabies

Assistant Director, Viral and Rickettsial Research, American Cyanamid Company, Pearl River, N.Y.; Member of the Expert Committee on Rabies, World Health Organization, Geneva, Switzerland.

E. CHARLES KUNKLE, M.D. F.A.C.P.

Diseases of Nerve Roots, Plexuses and Nerves: Neuritis

Associate Professor of Medicine (in Charge of Neurology), Duke University School of Medicine; Assistant Physician, Duke Hospital, Durham, N.C.

### PAUL H. LAVIETES, M.D.

Acidosis; Alkalosis

Associate Clinical Professor of Medicine, Yale University School of Medicine; Attending Physician, Grace-New Haven Community Hospital. New Haven, Conn.

# JOHN S. LAWRENCE, M.D., F.A.C.P.

Infectious Mononucleosis

Professor of Medicine, University of California at Los Angeles; Consultant in Internal Med-Wadsworth Veterans Administration Hospital and Harbor County General Hospital: Honorary Consultant, Santa Monica Hospital; Honorary Staff Member, St. John's Hospital. Santa Monica, Cal.

# WILLIAM GORDON LENNOX, M.A., M.D., ScD. (Hon.)

Epilepsy

Associate Professor of Neurology (Emeritus), Harvard University; Chief of Seizure Division, Children's Medical Center, Boston.

# SAMUEL Z. LEVINE, M.D.

Phenylpyruvic Oligophrenia

Professor of Pediatrics, Cornell University Medical College; Pediatrician-in-Chief, New York Hospital, New York.

# THEODORE LIDZ, M.D.

Causalgia

Professor of Psychiatry, Yale University School of Medicine; Psychiatrist-in-Chief, Yale Psy-

chiatric Institute; Psychiatrist-in-Chief, University Services to the Grace-New Haven Community Hospital; Consultant, Veterans Administration Hospital, West Haven, Conn.

IOSEPH L. LILIENTHAL, JR., M.D.

Enterogenous Cyanosis; Introduction to Diseases

of the Muscles

Professor of Environmental Medicine, Associate Professor of Medicine, Johns Hopkins University; Physician, Johns Hopkins Hospital, Baltimore.

ROBERT F. LOEB, M.D., ScD., D. hon. causa, LL.D.

Diabetes Mellitus; Spontaneous Hypoglycemia; Nephritis

Bard Professor of Medicine, College of Physicians and Surgeons, Columbia University; Director of Medical Service, Presbyterian Hospital, New York.

# JOHN A. LUETSCHER, JR., M.D.

Urinary Suppression

Associate Professor of Medicine, Stanford University School of Medicine, San Francisco.

# CYRIL M. MACBRYDE, M.D., F.A.C.P. Obesity

Associate Professor of Clinical Medicine, Washington University School of Medicine; Assistant Physician, Barnes Hospital; Director, Metabolism and Endocrine Clinics, Washington University Clinics; Attending Physician, St. Luke's Hospital; Chief, Department of Medicine, St. Joseph Hospital, St. Louis.

# GEORGE M. MACKENZIE, M.D.

Late Director, Mary Imogene Bassett Hospital, Cooperstown, N.Y.

# JOHN D. MACLENNAN, M.D.

Histotoxic Infections

Assistant Professor of Microbiology, College of Physicians and Surgeons, Columbia University, New York.

HERBERT C. MAIER, M.D., M.S., Med. Sc.D., F.A.C.S.

Abscess of the Lung; Cystic Disease of the Lungs:

New Growths in the Lungs

Assistant Clinical Professor of Surgery, Columbia University; Director of Surgery, Lenox Hill Hospital; Visiting Surgeon, Bellevue Hospital; Associate Surgeon, Presbyterian Hospital, New York.

# DONALD D. MATSON, M.D., F.A.C.S.

Internal Hydrocephalus; Birth Injuries of the Central Nervous System

Assistant Professor of Surgery, Harvard University Medical School; Neurosurgeon, Children's Medical Center; Senior Associate in Neurosurgery, Peter Bent Brigham Hospital. Boston.

WILLIAM S. McCANN, M.D., D.Sc. (Hon.), LL.D. (Hon.), F.A.C.P.

Pneumonconiosis

Charles A. Dewey Professor of Medicine, University of Rochester School of Medicine; Physician-in-Chief, Strong Memorial and Rochester Municipal Hospitals, University of Rochester Medical Center, Rochester, N.Y.

# MACLYN McCarty, M.D.

Rheumatic Fever

Member, Rockefeller Institute for Medical Research; Physician, Hospital of The Rockefeller Institute, New York.

WILLIAM J. McCONNELL, M.D.

Mountain Sickness; Electric Shock; Carbon Monoxide Poisoning; Carbon Tetrachloride Poisoning; Benzene Poisoning; Chronic Bromide Poisoning; Arsenic Poisoning; Mercury Poisoning; Beryllium Poisoning

Associate Professor, New York University School of Management; Associate Medical Director, Metropolitan Life Insurance Co., New

York.

WALSH McDERMOTT, M.D.

Foot-and-Mouth Disease; Syphilis

Livingston Farrand Professor of Public Health and Preventive Medicine, Cornell University Medical College; Attending Physician, New York Hospital-Cornell Medical Center, New York.

# JOHNSON McGUIRE, M.S., M.D., F.A.C.P.

Diseases of the Pericardium

Professor of Clinical Medicine, University of Cincinnati College of Medicine; Director, Cardiac Laboratory and Cardiac Clinic; Visiting Physician, Cincinnati General Hospital, Cincinnati, Ohio.

### RUSTIN McINTOSH, M.D.

Vitamin C Deficiency

Carpentier Professor of Pediatrics, Columbia University; Director of Pediatric Service, Babies Hospital, Presbyterian Hospital, New York.

# GORDON MEIKLEJOHN, M.D., C.M.

Mumps

Professor of Medicine, University of Colorado School of Medicine; Chief of Medical Service, Colorado General Hospital and Denver General Hospital, Denver.

# HENRY EDMUND MELENEY, M.D.

Hookworm Disease

Research Professor of Medicine, School of Medicine, Louisiana State University; Visiting Physician, Charity Hospital of Louisiana, New Orleans.

H. HOUSTON MERRITT, M.D.

Affections of the Blood Vessels of the Spinal Cord; Cerebral Hemorrhage; Cerebral Thrombosis; Cerebral Embolus; Management of Cerebral Vascular Accidents; Common Syndromes of Cerebral Vascular Accidents; Vascular Lesions of the Brain Stem; Pseudobulbar Palsy; Cerebral Venous Lesions; Subdural Hematoma

Professor of Neurology, College of Physicians and Surgeons, Columbia University; Director of Service of Neurology, Neurological Institute, Presbyterian Hospital. New York.

# KARL F. MEYER, M.D., Ph.D.

Tularemia; Glanders; Anthrax

Professor of Experimental Pathology, Emeritus, and Director, Emeritus, Hooper Foundation, University of California Medical Center, San Francisco.

# WILLIAM S. MIDDLETON, M.D., Sc.D., M.A.C.P., F.R.C.P. (Lond.)

Sarcoidosis

Professor of Medicine and Dean, University of Wisconsin Medical School; Physician, University Hospitals, Madison, Wis.

# A. T. MILHORAT, M.D.

Familial Periodic Paralysis; The Dystrophies Associate Professor of Medicine in Psychiatry, Cornell University Medical College; Attending Physician, New York Hospital, New York.

# CARL V. MOORE, M.D., F.A.C.P.

Diseases of the Reticuloendothelial System; The Leukopenic State and Agranulocytosis Professor of Medicine, Washington University School of Medicine; Associate Physician, Barnes and Allied Hospitals, St. Louis.

# HUGH J. MORGAN, M.D., D.Sc. (Hon.), M.A.C.P. Syphilitic Aortitis and Aneurysm; Diseases of the Myocardium; Arteriosclerosis

Professor of Medicine, Vanderbilt University School of Medicine; Physician-in-Chief, Vanderbilt University Hospital, Nashville, Tenn.

# CARL MUSCHENHEIM, M.D., F.A.C.P.

Bronchiectasis; Foreign Bodies in the Bronchi; Diseases of the Mediastinum; Diseases of the Diaphragm

Associate Professor of Clinical Medicine, Cornell University Medical College; Attending Physician, New York Hospital, New York.

### ELLIOT V. NEWMAN, M.D.

Renal Physiology and Tests of Renal Function Professor of Experimental Medicine, Vanderbilt University School of Medicine, Nashville, Tenn.

# JOHANNES MAAGAARD NIELSEN, M.D. Aphasia

Clinical Professor of Medicine (Neurology), University of Southern California; Senior Attending Neurologist (Chairman of Staff), Los Angeles General Hospital; Attending Neurologist, Good Samaritan Hospital, Los Angeles; National Consultant in Aphasia, Area Consultant in Neurology and Psychiatry, Veterans Administration; Senior Consultant in Neurology, Methodist Hospital, Los Angeles. ALTON OCHSNER, M.D., D.Sc. (Hon.), F.A.C.S. Intestinal Obstruction; Intestinal Neoplasms; Af-

fections of the Mesentery

William Henderson Professor of Surgery and Chairman of the Department of Surgery, Tulane-University of Louisiana School of Medicine; Director, Section on Surgery, Ochsner Clinic and Ochsner Foundation Hospital; Senior Visiting Surgeon and Surgeon-in-Chief, Tulane Surgical Service at Charity Hospital; Senior Surgeon, Touro Infirmary; Consultant in Thoracic Surgery, Veterans Administration Hospital and Eye, Ear, Nose and Throat Hospital; Attending Specialist in Chest Surgery, U.S. Public Health Service Hospital; Consulting Surgeon, Illinois Central Hospital, New Orleans.

# WALTER LINCOLN PALMER, M.S., M.D., Ph.D., F.A.C.P.

Diseases of the Stomach: Diseases of the Duodenum; Visceroptosis; Diarrhea; Constipation; Irritable Colon; Dilatation of the Colon; Diverticula of the Intestines: Ulcerative Colitis

Richard T. Crane Professor of Medicine, University of Chicago School of Medicine, Chicago.

ARTHUR J. PATEK, JR., M.D.

Circulatory Disturbances of the Liver; Ascites; Cirrhosis of the Liver; Abscess of the Liver; Neoplasms of the Liver; Cysts of the Liver; Fatty Liver

Associate Clinical Professor of Medicine, College of Physicians and Surgeons, Columbia University; Research Fellow, Goldwater Memorial Hospital; Assistant Attending Physician, Presbyterian Hospital; Medical Consultant, St. Barnabas Hospital, New York.

# JOHN R. PAUL, A.M. (Hon.), M.D., F.A.C.P. Poliomvelitis

Professor of Preventive Medicine, Yale University School of Medicine; Associate Physician, Grace-New Haven Community Hospital; Consultant to the Meriden (Conn.) Hospital.

# HENRY PINKERTON, M.D.

Trench Fever; Bartonellosis

Professor of Pathology, St. Louis University School of Medicine; Pathologist-in-Chief, St. Mary's Group of Hospitals, St. Louis.

### FRED PLUM, M.D.

Syringomyelia; Facial Hemiatrophy; Hemifacial

Assistant Professor of Medicine (Neurology), University of Washington School of Medicine; Attending Neurologist, King County, U.S. Veterans, and Children's Orthopedic Hospitals, Seattle.

# WILLIAM B. PORTER, M.D., F.A.C.P.

Miscellaneous Pathologic Conditions of the Heart Professor of Medicine and Chairman of the Department, Medical College of Virginia; Hospital Division, Medical College of Virginia, Richmond.

# CHARLES H. RAMMELKAMP, IR., M.D.

Introduction to Staphylococcal Infections; Furuncles and Carbuncles: Staphylococcal Pneumonia: Osteomyelitis: Staphylococcal Bacteremia

Professor of Medicine, Western Reserve University School of Medicine, Cleveland; Director of Research Laboratories, Cleveland City Hospital; Director, Streptococcal Disease Laboratory, Warren Air Force Base, Wyoming.

# LOWELL A. RANTZ, M.D.

Scarlet Fever

Associate Professor of Medicine, Stanford University School of Medicine, San Francisco.

# ISIDOR S. RAVDIN, M.D.

Appendicitis

John Rhea Barton Professor of Surgery, University of Pennsylvania; Professor of Surgery, Graduate School of Medicine, University of Pennsylvania; Surgeon-in-Chief, Hospital of the University of Pennsylvania, Philadelphia.

BRONSON S. RAY, M.D., Sc.D. (Hon.), F.A.C.S. Tumors of the Spinal Cord and Spinal Canal; Developmental Anomalies of the Cervicomedullary Juncture

Professor of Clinical Surgery, Cornell University Medical College; Chief, Department of Neurosurgery, and Attending Surgeon (Neurosurgery), New York Hospital, New York.

### THOMAS A. C. RENNIE, M.D.

Alcoholism; Methyl Alcohol Poisoning; Marihuana Intoxication; The Psychoneuroses Professor of Psychiatry (Social Psychiatry), Cornell University Medical College; Attending Psychiatrist, New York Hospital, New York; Consultant in Psychiatry, Franklin Delano Roosevelt Veterans Administration Hospital, Montrose, N.Y.

# DICKINSON W. RICHARDS, M.D., F.A.C.P.

Bronchitis; Pulmonary Function in Health and Disease; Circulatory Disturbances in the Lungs; Pulmonary Atelectasis; Pulmonary Fibrosis; Radiation Pleuropneumonitis; Lipoid Pneumonitis; Allergic Pneumonia; Emphysema

Lambert Professor of Medicine, College of Physicians and Surgeons, Columbia University; Director and Visiting Physician, First (Columbia University) Medical Division, Bellevue Hospital; Attending Physician, Presbyterian Hospital, New York.

### HARRY M. ROSE, M.D.

Pneumonia Due to Filterable Agents: Neurotoxic Infections

John E. Borne Professor of Medical and Surgical Research, and Executive Officer of the Department of Microbiology, College of Physicians and Surgeons, Columbia University; Attending Microbiologist, Presbyterian Hospital, New York.

# GEORGE A. SCHUMACHER, M.D.

Multiple Sclerosis

Professor of Neurology, University of Vermont College of Medicine; Attending Neurologist, Mary Fletcher Hospital, Bishop DeGoesbriand Hospital, Burlington, Vt.

# VIRGIL SCOTT, M.D.

Lymphogranuloma Venereum

Professor of Medicine, American University of Beirut, Beirut, Lebanon; Formerly Associate Professor of Medicine and Preventive Medicine, Washington University Medical School, St. Louis.

# WILLIAM B. SHERMAN, M.D., F.A.C.P.

Hay Fever; Asthma

Associate Clinical Professor of Medicine, College of Physicians and Surgeons, Columbia University; Attending Physician, Roosevelt Hospital; Assistant Attending Physician, Presbyterian Hospital, New York.

### HOWARD B. SHOOKHOFF, M.D., D.T.M. & H. (Lond.)

Amebiasis

Assistant Professor of Tropical Medicine, Columbia University (School of Public Health of the Faculty of Medicine); Assistant Attending Physician, Presbyterian Hospital; Attending Physician, Tropical Diseases, Beth David Hospital; Consultant, Tropical Medicine, St. Albans Naval Hospital, New York.

# EPHRAIM SHORR, M.D.

Diseases of the Female Gonads

Associate Professor of Medicine, Cornell University Medical College; Attending Physician, New York Hospital, New York.

# JAMES S. SIMMONS, M.D., Ph.D., D.P.H., Sc.D. (Hon.)

Relapsing Fever

Late Dean and Professor of Public Health. Harvard University School of Public Health, Boston.

# DONALD J. SIMONS, M.D.

Narcolepsy

Associate Professor of Clinical Medicine (Neurology), Cornell University Medical College; Associate Attending Physician, New York Hospital; Associate Visiting Neuropsychiatrist, Bellevue Hospital, New York.

## CHARLES H. SLOCUMB, M.S., M.D. Myositis

Professor of Medicine, The Mayo Foundation for Medical Education and Research, Graduate School, University of Minnesota; Consultant in Medicine, Mayo Clinic, St. Mary's Hospital. Rochester, Minn.

# JOSEPH E. SMADEL, M.S. (Hon.), M.D.

Rocky Mountain Spotted Fever; Scrub Typhus: Rickettsialpox

Chief, Department of Virus and Rickettsial Diseases, and Director, Communicable Diseases Division, Army Medical Service Graduate School, Walter Reed Army Medical Center, Washington, D.C.

# DAVID T. SMITH, M.D.

The Mycoses

Professor of Bacteriology and Associate Professor of Medicine, Duke University School of Medicine, Durham, N.C.

### IOHN C. SNYDER, M.D.

Introduction to Rickettsial Diseases; The Typhus

Group; Q Fever

Professor of Microbiology, Harvard University School of Public Health, Boston; Consultant on Virus and Rickettsial Diseases for the Veterans Administration.

# HARRY C. SOLOMON, M.D., F.A.P.A.

Syphilis of the Central Nervous System

Professor of Psychiatry, Harvard University Medical School; Medical Director, Boston Psychopathic Hospital, Boston.

# TOM D. SPIES, M.D., F.A.C.P.

Hypervitaminosis; Vitamin A Deficiency; Vitamin B Deficiencies: Vitamin E Deficiency: Vitamin K Deficiency; Mixed Deficiency Diseases Professor and Chairman of Department of Nutrition and Metabolism, Northwestern University Medical School, Chicago; Director, Nutrition Clinic, Hillman Hospital, Birmingham, Alabama.

# WESLEY W. SPINK, M.D., Sc.D., F.A.C.P.

Introduction to Streptococcal Infections: Acute Tonsillitis; Peritonsillar Abscess; Erysipelas;

Professor of Medicine, University of Minnesota Medical School, Minneapolis; Staff Physician, University of Minnesota Hospitals; Consulting Physician, Minneapolis General Hospital and Minneapolis Veterans Administration Hospital.

# EUGENE A. STEAD, JR., M.D., F.A.C.P.

Pathologic Physiology of Generalized Circulatory Failure; Cardiac Dilatation and Hypertrophy; The Treatment of Congestive Heart Failure; Circulatory Collapse and Shock

Professor of Medicine, Duke University School of Medicine; Physician-in-Chief and Chairman, Department of Medicine, Duke Hospital, Durham, N.C.

# J. MURRAY STEELE, M.D.

Alcaptonuria and Ochronosis

Professor of Medicine, New York University College of Medicine; Director, New York University Research Service, Goldwater Memorial Hospital, New York.

# LEWIS D. STEVENSON, M.D.

Malformations of the Brain Meninges and Spinal Cord; Little's Disease; Hereditary Hemiplegia; Hereditary Spinal Ataxia; Hereditary Cerebellar Ataxia

Professor of Clinical Neurology, Cornell Uni-

versity Medical College; Associate Professor of Neuropathology, Cornell University Medical College and New York University College of Medicine; Associate Neuropsychiatrist, Bellevue Hospital; Attending Neurologist, French Hospital, New York; Consulting Neurologist, New York Hospital, Westchester Division, White Plains, N.Y.

HAROLD J. STEWART, M.A., M.D., F.A.C.P. Cardiac Arrhythmias

Associate Professor of Medicine, Cornell University Medical College; Attending Physician, New York Hospital; Head of Subdepartment of Cardiology of Department of Medicine, New York Hospital-Cornell University Medical Center, New York.

JOSEPH STOKES, Jr., M.D., Sc.D. Varicella; Smallpox; Vaccinia

William H. Bennett Professor of Pediatrics, School of Medicine, University of Pennsylvania; Physician-in-Chief, Children's Hospital of Philadelphia; Chairman, Pediatric Clinic, Hospital of the University of Pennsylvania, Philadelphia.

# CYRUS C. STURGIS, M.D.

The Leukemias

Professor of Internal Medicine, Chairman of Department of Internal Medicine, Director of Simpson Memorial Institute for Medical Research, University of Michigan, Ann Arbor.

RAMON M. SUAREZ, M.D., Sc.D. (Hon.), F.A.C.P.

Sprue

Director, Fundación de Investigaciones Clinicas; Internist, Hospital Mimiya, Santurce; Consultant, Veterans Administration, U.S. Army, Presbyterian Hospitals, P.R.

V. P. SYDENSTRICKER, M.A., M.D., M.A.C.P. Dengue

Professor of Medicine, Medical College of Georgia, Augusta; Physician-in-Chief, University Hospital; Consultant, V.A. Hospital, Augusta; Consultant, Milledgeville State Hospital; Consultant, Battey State Hospital, Rome, Ga.

W. H. TALIAFERRO, Ph.D., Sc.D., LL.D. Trypanosomiasis

> Eliakim H. Moore Distinguished Service Professor of Microbiology and Chairman of the Department of Microbiology, University of Chicago, Chicago.

# LEWIS THOMAS, M.D.

Drug Allergy; Serum Sickness

Professor and Chairman, Department of Pathology, New York University-Bellevue Medical Center, New York.

WILLARD OWEN THOMPSON, M.D., F.A.C.P. Diseases of the Male Gonads

Late Clinical Professor of Medicine, University of Illinois College of Medicine; Attending Physician, Grant Hospital; Attending Physician, Senior Staff, Henrotin Hospital; Attending Physician, University of Illinois Research and Educational Hospitals, Chicago.

# GEORGE W. THORN, M.D.

Diseases of the Adrenal Glands

Hersey Professor of the Theory and Practice of Physic, Harvard University Medical School; Physician-in-Chief, Peter Bent Brigham Hospital, Boston.

# WILLIAM S. TILLETT, M.D., Sc.D. (Hon.)

Empyema

Professor of Medicine, New York University College of Medicine; Director and Visiting Physician, Third (N.Y.U.) Medical Division, Bellevue Hospital, New York.

# THOMAS B. TURNER, M.D.

Nonsyphilitic Treponematoses; Yaws; Bejel; Pinta; Rat-Bite Fever

Professor of Microbiology, Lecturer in Medicine, Johns Hopkins University, Baltimore.

A. EARL WALKER, M.D., LL.D. (Hon.), F.A.C.S. Intracranial Tumors; Intracranial Abscesses
Professor of Neurological Surgery, Johns Hopkins University; Neurological Surgeon-in-Charge, Johns Hopkins Hospital, Baltimore.

CECIL J. WATSON, M.D., Ph.D., F.A.C.P.
Porphyria; Diseases of the Gallbladder and Bile
Ducts

Professor and Head, Department of Medicine, University of Minnesota; Chief of Medical Service, University of Minnesota Hospital, Minneapolis.

# A. ASHLEY WEECH, M.D.

Vitamin D Deficiency

B. K. Rachford Professor of Pediatrics, University of Cincinnati College of Medicine; Medical Director, The Children's Hospital; Director, The Children's Hospital Research Foundation; Director, Pediatric-Contagious Division, Cincinnati General Hospital, Cincinnati, Ohio.

# JOHN C. WHITEHORN, M.D.

The Psychoses

Professor of Psychiatry, Johns Hopkins University; Psychiatrist-in-Chief, Johns Hopkins Hospital, Baltimore.

ROBERT W. WILKINS, M.D., F.A.C.P.

General Considerations in Diseases of the Peripheral Vessels. Peripheral Vascular Diseases Due to Organic Arterial Obstruction; Peripheral Vascular Diseases Due to Abnormal Vasoconstriction or Vasodilatation; Peripheral Vascular Diseases Due to Exposure to Cold; Peripheral Vascular Diseases Due to Abnormal Communications between Arteries and Veins; Diseases of the Peripheral Veins; Diseases of the Peripheral Lymphatic Vessels

Associate Professor of Medicine, Boston University School of Medicine; Member, Robert Dawson Evans Memorial and Massachusetts Memorial Hospitals; Visiting Physician, Massachusetts Memorial Hospital, Boston.

GEORGE ANTHONY WOLF, JR., M.D., F.A.C.P. Spontaneous Subarachnoid Hemorrhage

Dean and Professor of Clinical Medicine, Univesity of Vermont College of Medicine; Attending, Mary Fletcher Hospital; Consulting, Bishop DeGoesbriand Hospital, Burlington, Vt.

# HAROLD G. WOLFF, M.D.

Headache

Professor of Medicine (Neurology), Cornell University Medical College; Attending Physician, New York Hospital; Consultant, Neurology, Veterans Administration.

FRANCIS C. WOOD, M.D., F.A.C.P.

Rheumatic Heart Disease; Chronic Valvular Heart Disease

Professor of Medicine and Chairman of the Department, University of Pennsylvania School of Medicine; Chief of Medical Clinic and Director of the Robinette Foundation for the Study of Cardiovascular Disease, Hospital of the University of Pennsylvania, Philadelphia. JOHN R. WOOD, M.S., M.D., Sc.D. (Hon.), Colonel, Medical Corps, U.S. Army War Gases

Commandant, Army Medical Service Graduate School, Walter Reed Army Medical Center, Washington, D.C.

W. BARRY WOOD, JR., M.D., F.A.C.P.

Pneumococcal Pneumonia; Other Forms of Acute Bacterial Pneumonia

Busch Professor of Medicine, Washington University School of Medicine; Physician-in-Chief, Barnes and Wohl Hospitals, St. Louis.

JOHN B. YOUMANS, M.S., M.D., F.A.C.P.
Introduction to Deficiency Diseases; Undernutrition

Professor of Medicine, Vanderbilt University School of Medicine; Visiting Physician, Vanderbilt University Hospital, Nashville, Tenn.

HARRY F. ZINSSER, Jr., M.D., A.A.C.P.
Rheumatic Heart Disease; Chronic Valvular Heart
Disease

Assistant Professor of Medicine, University of Pennsylvania Medical School; Staff Member of Medical Clinic and Member of Robinette Foundation for the Study of Cardiovascular Disease, Hospital of the University of Pennsylvania; Consultant in General Medicine, Veterans Administration Hospital, Philadelphia.

# Contents

# THE INFECTIOUS DISEASES

VIRAL DISEASES	1	FOOT-AND-MOUTH DISEASE	52
Introduction Frank L. Horsfall, Jr.	1	Lymphocytic Choriomeningitis Charles A. Janeway	53
Common Upper Respiratory Disease Yale Kneeland, Jr. THE COMMON COLD	2	RABIES	55
ACUTE UNDIFFERENTIATED RESPIRA- TORY DISEASE	7	POLIOMYELITIS John R. Paul	59
YNGITIS	8	Coxsackie Viral Infections Robert J. Huebner	69
Influenza Frank L. Horsfall, Jr.	9	HERPANGINA	70 72
DENGUE	14	ENCEPHALITIS LETHARGICA Frank L. Horsfall, Jr.	74
Colorado Tick Fever	17	St. Louis Encephalitis	75
YELLOW FEVER	19	Postinfection Encephalitis Frank L. Horsfall, Jr.	77
Measles Edwin D. Kilbourne	21	Equine Encephalomyelitis  LeRoy D. Fothergill	79
Rubella Edwin D. Kilbourne	26	THE DISEASES IN HORSES THE DISEASES IN MAN	79 80
Herpes Simplex Frank L. Horsfall, Jr.	28	EPIDEMIC HEMORRHAGIC FEVER  David P. Earle	81
HERPES ZOSTER Frank L. Horsfall, Jr.	29	Infectious Mononucleosis  John Seward Lawrence	84
Varicella	31	CAT SCRATCH DISEASE	88
SMALLPOX Joseph Stokes, Jr.	34	Acute Infectious Nonbacterial Gastro- enteritis	89
VACCINIA	39	RICKETTSIAL DISEASES	
Mumps	44	Introduction	91
PSITTACOSIS	48	THE TYPHUS GROUP  John C. Snyder  EPIDEMIC LOUSE-BORNE TYPHUS FE-	93
Lymphogranuloma Venereum Virgil Scott	50	VER BRILL-ZINSSER DISEASE MURINE FLEA-BORNE TYPHUS FEVER .	98 98 100
	Page	xvii	