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CURRENT THERAPY

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FOR THE PRACTICING PHYSICIAN

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NOTICE

Extraordinary efforts have been made by the authors, the editors, and the publisher of this book to insure that dosage recommendations are precise and in agreement with standards officially accepted at the time of publication.

It does happen, however, that dosage schedules are changed from time to time in the light of accumulating clinical experience and continuing laboratory studies. This is most likely to occur in the case of recently introduced products.

It is urged, therefore, that you check the manufacturer's recommendations for dosage, *especially if the drug to be administered or prescribed is one that you use only infrequently or have not used for some time.*

THE PUBLISHER

Preface

This edition of *Current Therapy* is the thirty-second of an annual series devoted to bringing the latest concise and authoritative information on current treatment to the practicing physician. The format and editorial policies of previous editions have been continued in accord with the wishes of the contributors and the physicians who use this book.

It is assumed that the physicians using this volume have intimate knowledge of the detailed information available in the manufacturer's official publications for each drug before prescribing the drug for their patients. The therapeutic action of most drugs mentioned is under continuous clinical evaluation, and from time to time new uses, changes in dosage, the appearance of unexpected contraindications, and adverse reactions are reported. Official announcements and official product circulars should be followed to keep abreast of these changes. Sometimes a larger dosage than that usually recommended is advised for patients under exceptional circumstances or in cases of serious or life-threatening illness. In these instances the use of a dose or drug becomes a matter of the physician's own clinical judgment and depends on knowledge obtained by consulting official drug information sources.

Each year *Current Therapy* is essentially a new book. In this edition 90 per cent of the articles

are new and all of the articles carried over from the previous edition have been reviewed and revised as needed by the authors.

A correct diagnosis is assumed to have been made before the book is consulted, although in some instances a brief definition or discussion of diagnosis may be given if in the opinion of the authors it is necessary.

The term "method of" as used in this book refers to the regimen in use by the author-clinician; it does not necessarily imply that the author was the originator of the regimen. Current treatment is a summation of the work of many clinicians over the years. Traditional therapy, if the author considers it to be the best available, is included along with modern advances.

The editor wishes to thank the contributors and consultants for their invaluable assistance; the greatest share of credit for the success of this book must be given to them. The editor also wishes to express his appreciation to the staff of the W. B. Saunders Company for their wise guidance and continued interest and to Mr. C. F. Robinson and Mrs. Franklin Cole for their valuable assistance in preparation of the book.

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Pelvic Infections

HERMAN L. FALSETTI, M.D.

Professor, Cardiovascular Division, Department of
Medicine, University of Iowa Hospitals, Iowa City, Iowa
Tachycardia

JUAN V. FAYOS, M.D.

Professor of Radiology, University of Michigan School of
Medicine; Attending Therapeutic Radiologist, University
Hospital; Consultant, Veterans Administration Hospital,
Ann Arbor, Michigan
Hodgkin's Disease: Radiation Therapy

WILLIAM C. FETHERSTON, M.D.

Associate Professor of Obstetrics and Gynecology, Medical
College of Wisconsin; Chairman, Department of Obstet-
rics and Gynecology, St. Mary's Hospital, Milwaukee,
Wisconsin
Cancer of the Uterus

JAMES P. FIELDS, M.D., M.Sc., F.A.C.P.

Associate Professor of Medicine and Pathology, Vander-
bilt University School of Medicine; Active Staff, Vander-
bilt University Hospital, Nashville, Tennessee
Chancroid

FREDERICK J. FLEURY, M.D.

Clinical Assistant Professor of Obstetrics and Gynecology,
Southern Illinois University School of Medicine; Attend-
ing Physician, Memorial Medical Center and St. Johns
Hospital, Springfield, Illinois
Ectopic Pregnancy

JERRY EDWARD FOOTE, M.D.

Attending Dermatologist, Boone County Hospital, and
Columbia Regional Hospital, Columbia; Consultant in
Dermatology, Fulten State Hospital, Fulten, Missouri
Scabies

ROBERT P. FOSNAUGH, M.D., P.C.

Associate Professor, Department of Dermatology, Wayne State University School of Medicine; Adjunct Clinical Assistant Professor of Dermatology, Mercy College of Detroit (Physician's Assistant Program); Staff, Detroit General Hospital, Detroit; and William Beaumont Hospital, Royal Oak, Michigan

Diseases of the Nails

BOY FRAME, M.D.

Clinical Professor, Internal Medicine, University of Michigan; Department Head, Fifth Medical (Mineral Metabolism) Division, Henry Ford Hospital, Detroit, Michigan

Rickets and Osteomalacia

ERNEST W. FRANKLIN, III, M.D.

St. Joseph Hospital, Atlanta, Georgia

Carcinoma of the Vulva

JOHN D. FRANKLIN, M.D.

Assistant Professor, Department of Plastic Surgery, Vanderbilt University Medical School; Chief of Plastic and Head-Neck Surgery, Veterans Administration Hospital, Nashville, Tennessee

Disorders of the Mouth (Benign)

ELI A. FRIEDMAN, M.D.

Professor of Medicine and Chief, Division of Renal Diseases, State University of New York Downstate Medical Center; Attending Physician, Kings County Hospital Center, Brooklyn, New York

Acute Renal Failure

EDUARD G. FRIEDRICH, JR., M.D.

Professor and Chairman, Department of Obstetrics and Gynecology, University of Florida; Gynecologist and Obstetrician, Shands Teaching Hospital, Gainesville, Florida

Vulvovaginitis

IRVING G. FROHMAN, M.D.

Attending Physician and Associate Pathologist, Peninsula Hospital Center; Attending Physician, St. John's Hospital, Far Rockaway, New York

Portuguese Man-of-War Stings

VINCENT A. FULGINITI, M.D.

Professor and Head, Department of Pediatrics, University of Arizona College of Medicine; Attending Pediatrician, University Hospital and Tucson Medical Center, Tucson, Arizona

Active Immunization for Infectious Diseases

J. WILLIAM FUTRELL, M.D.

Professor and Chairman, Division of Plastic Surgery, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania

Disorders of the Mouth (Malignant)

MARC GALANTER, M.D.

Associate Professor, Albert Einstein College of Medicine; Director, Division of Alcoholism and Drug Abuse, Albert Einstein College of Medicine, New York, New York

Alcoholism

ELAYNE GARBER, M.D.

Rheumatology Fellow, Wadsworth Veterans Administration Hospital, Los Angeles, California

Ankylosing Spondylitis

JOHN T. GALAMBOS, M.D.

Professor of Medicine, Emory University School of Medicine, Atlanta, Georgia

Bleeding Esophageal Varices

FERNANDO TUFFI GARCÍA, M.D.

Professor of Internal Medicine and Chief, Department of Medicine and of the Division of Gastroenterology, Universidad Del Valle School of Medicine; Hospital-Universitario, Cali, Colombia, South America

Amebiasis

WALTON RICHARD GARNER, M.D.

Clinical Assistant Professor of Preventive Medicine, The Ohio State University College of Medicine; Chief of Preventive Medicine, The Ohio State University Health Service, Columbus, Ohio

Rabies

JOSEPH A. GASCHO, M.D.

Associate, Cardiovascular Division, Department of Medicine, University of Iowa Hospitals, Iowa City, Iowa

Tachycardia

ROBERT A. GATTER, M.D., F.A.C.P.

Associate Professor of Clinical Medicine, University of Pennsylvania School of Medicine, Philadelphia; Physician-in-Chief, Section of Rheumatology, Abington Memorial Hospital, Abington; Consultant in Rheumatology, Chestnut Hill Hospital, Philadelphia; Doylestown Hospital, Doylestown; Holy Redeemer Hospital, Meadowbrook, Pennsylvania

Rheumatoid Arthritis

PETER C. GAZES, M.D.

Professor of Medicine and Director, Cardiovascular Division, Medical University of South Carolina; Attending Cardiologist, Medical University Hospital; Consultant in Cardiology at Roper Hospital, St. Francis Hospital, Charleston County Hospital, and Veterans Administration Hospital, Charleston, South Carolina

Pericarditis

HOSSEIU GHADIMI, M.D.

Professor, Stony Brook Health Sciences Center, State University of New York; Stony Brook; Attending Pediatrician, Nassau County Medical Center, East Meadow, New York

Parenteral Fluid Therapy in Children

THOMAS M. GOLBERT, M.D.

Assistant Clinical Professor of Medicine, University of Colorado School of Medicine; Active Staff Physician, St. Anthony and Beth Israel Hospitals, Denver, and Lutheran Medical Center, Wheat Ridge; Courtesy Staff Physician, General Rose Memorial Hospital, Porter Memorial Hospital, and Children's Hospital, Denver; and Swedish Medical Center, Englewood, Colorado; Consulting Staff Physician, Northwest Kansas Medical Center, Goodland, Kansas

Anaphylaxis and Serum Sickness

HERMAN K. GOLD, M.D.

Associate Professor of Medicine, Harvard Medical School; Assistant Physician, Department of Medicine, Massachusetts General Hospital, Boston, Massachusetts

Acute Myocardial Infarction

SHELDON GOLDBERG, M.D.

Assistant Professor of Medicine, University of Pennsylvania School of Medicine; Co-Director, Cardiac Catheterization Laboratory, Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania

Angina Pectoris

HARVEY M. GOLOMB, M.D.

Associate Professor, Division of the Biological Sciences and The Pritzker School of Medicine, University of Chicago; Associate Professor, Section of Hematology/Oncology Department of Medicine, University of Chicago, Chicago, Illinois

Hodgkin's Disease: Chemotherapy

FRANK D. GRAY, JR., M.D.

Professor and Chairman, Department of Medicine, Jefferson Medical College; Physician-in-Chief, Thomas Jefferson University Hospital, Philadelphia, Pennsylvania

Pulmonary Embolism

JAMES E. GRAY, M.D.

Assistant Professor, Department of Medicine, University of Missouri, Columbia, Missouri

Malignant Carcinoid Syndrome

CHARLES H. GREENBAUM, M.D., F.A.C.P.

Clinical Associate Professor of Dermatology, Jefferson Medical College; Attending Dermatologist, Thomas Jefferson University Hospital, Holy Redeemer Hospital, and Jeanes Hospital, Philadelphia, Pennsylvania

Lichen Planus

JOSEPH GREENBAUM, M.D., F.R.C.P.(C.)

Assistant Clinical Professor of Medicine, McMaster University School of Medicine; Active Staff, St. Joseph's Hospital; Member, Chest/Allergy Unit, St. Joseph's Hospital, Hamilton, Ontario, Canada

Allergic Rhinitis Due to Inhalant Factors

PETER BERT GREENBERG, M.D., Ph.D., F.R.A.C.P.

Senior Associate in Medicine, University of Melbourne; Physician, Royal Melbourne Hospital, Melbourne, Victoria, Australia

Hyper- and Hypoparathyroidism

MONTE A. GREER, M.D.

Professor of Internal Medicine and Head, Division of Endocrinology, University of Oregon Health Sciences Center, Portland, Oregon

Hyperthyroidism

STEVEN K. GUDEMAN, M.D.

Fellow in Neurotraumatology, Medical College of Virginia of the Virginia Commonwealth University, Richmond, Virginia

Acute Head Injuries in the Adult

JAMES H. GUGANIG, M.D.

Memorial General Hospital, Las Cruces, New Mexico

Uterine Myomas

PATRICK GUINAN, M.D., M.P.H.

Associate Professor of Surgery (Urology), Abraham Lincoln School of Medicine, The University of Illinois; Chairman, Division of Urology, Cook County Hospital, Chicago, Illinois

Trauma to the Genitourinary Tract

RONALD L. GUTBERLET, M.D.

Associate Professor of Pediatrics and Assistant Professor of Obstetrics, University of Maryland School of Medicine; Director of Nurseries, University of Maryland Hospital, Baltimore, Maryland

Resuscitation of the Newborn

ROBERT L. HACKNEY, JR., M.D., F.C.C.P.

Associate Professor of Medicine, Howard University College of Medicine; Chief, Division of Pulmonary Diseases, Howard University Hospital, Washington, D.C.

Sarcoidosis

GARRETT A. HAGEN, M.D.

Associate Clinical Professor of Medicine, St. Louis University School of Medicine; Attending Physician, St. Mary's Health Center, St. Louis, Missouri

Thyroiditis

JAMES A. HALL, M.D.

Assistant Clinical Professor of Obstetrics and Gynecology, Indiana University School of Medicine, Indianapolis, Indiana

Preoperative and Postoperative Care for Elective Gynecologic Surgery

CRYSTIE C. HALSTED, M.D.

Assistant Professor of Pediatrics, University of California, Davis; Consultant in Pediatric Infectious Diseases, University of California, Davis, Medical Center, Sacramento, California

Diphtheria

DONALD B. HALVERSTADT, M.D.

Clinical Professor of Urology, University of Oklahoma College of Medicine; Chief of Pediatric Urology and Chief of Staff, Oklahoma Children's Memorial Hospital, Oklahoma City, Oklahoma

Bacterial Infections of the Urinary Tract (Female Children)

JOHN W. HARBISON, M.D.

Professor of Neurology, Neurosurgery, and Ophthalmology, and Chairman of the Division of Neuro-Ophthalmology, Department of Neurology, Medical College of Virginia of the Virginia Commonwealth University; Attending Neuro-Ophthalmologist, Richmond Eye and Ear Hospital; Consulting Neurologist and Neuro-Ophthalmologist, McGuire Veterans Administration Hospital, Richmond, Virginia

Optic Neuritis or Neuropathy

FREDERICK E. HARGREAVE, M.D.,
F.R.C.P.(C.)

Associate Professor, Department of Medicine, McMaster University School of Medicine; Active Staff, St. Joseph's Hospital; Member, Chest/Allergy Unit, St. Joseph's Hospital, Hamilton, Ontario, Canada

Allergic Rhinitis Due to Inhalant Factors

WILLIAM O. HARRISON, M.D.

Head, Infectious Disease Branch, Department of Medicine, Naval Regional Medical Center; San Diego; Assistant Clinical Professor, Department of Medicine, University of California, San Diego, School of Medicine; Consultant in Infectious Diseases, Veterans Administration Medical Center, La Jolla, California

Gonorrhea

WILLIAM S. HAUBRICH, M.D.

Clinical Professor of Medicine, University of California, San Diego; Head, Division of Gastroenterology, The Scripps Clinic and Research Foundation, La Jolla, California

Tumors of the Colon and Rectum

JAVAD HEKMATPANAH, M.D.

Professor of Surgery (Neurosurgery), University of Chicago, The Pritzker School of Medicine, Chicago, Illinois

Brain Abscess

ROBERT E. HERMANN, M.D.

Head, Department of General Surgery, Cleveland Clinic Foundation, Cleveland, Ohio

Cholecystitis and Cholelithiasis

ALFRED D. HERNANDEZ, M.D.

Assistant Professor of Dermatology, University of Maryland School of Medicine, Baltimore, Maryland

Bacterial Infections of the Skin

MILO D. HILTY, M.D.

Associate Professor of Pediatrics and Medical Microbiology, The Ohio State University College of Medicine; Attending Physician, Infectious Diseases, The Ohio State University and Children's Hospital, Columbus, Ohio

Chickenpox

YUZO HIROTA, M.D.

Third Division, Department of Internal Medicine, Osaka Medical College, Osaka, Japan

Beriberi

PAUL HIRSCH, M.D., F.A.C.P.

Associate Clinical Professor of Medicine (Dermatology), University of Southern California School of Medicine; Consultant in Dermatology, Cedars-Sinai Medical Center and St. Vincent's Hospital; Attending Physician in Dermatology, Los Angeles County-USC Medical Center, Los Angeles; Consultant in Dermatology, U.S. Naval Medical Center, San Diego; Deputy Coroner-Consultant in Dermatopathology, Los Angeles County Medical Examiner, Los Angeles, California

Nevi (Moles)

ROBERT J. HOAGLAND, M.D.

Chief, Department of Medicine, Fauquier Hospital, Warrenton, Virginia

Infectious Mononucleosis

H. PRESTON HOLLEY, JR., M.D.

Assistant Professor of Medicine, Division of Infectious Diseases, Medical University of South Carolina; Attending Physician and Infectious Disease Consultant, Medical University of South Carolina Hospital, Charleston County Hospital, and Charleston Veterans Administration Hospital, Charleston, South Carolina

Tularemia

LOUIS HORLICK, M.D., M.Sc., F.R.C.P. (C.),
F.A.C.P.

Professor of Medicine, College of Medicine, University of Saskatchewan; Attending Staff, University Hospital; Consultant Staff; Saskatoon City Hospital and St. Paul's Hospital, Saskatoon, Saskatchewan, Canada

Care and Rehabilitation After Myocardial Infarction

DONALD W. HOSKINS, M.D.

Clinical Associate Professor of Medicine, Cornell University Medical College; Associate Attending Physician, New York Hospital; Chairman, Department of Medicine, Doctors Hospital; Consultant, Tropical Medicine, Memorial Hospital, New York, New York

Trichinellosis

LELAND R. HOUSE, M.D.

Professor of Otolaryngology, Loma Linda University, Loma Linda; Chairman, Department of Otolaryngology and Head and Neck Surgery, White Memorial Medical Center, Los Angeles, California

Meniere's Disease

GUY A. HOWARD, Ph.D.

Research Assistant Professor of Medicine, University of Washington, Seattle; Research Chemist, Veterans Administration Medical Center, American Lake, Washington

Osteoporosis

LEONARD D. HUDSON, M.D.

Associate Professor of Medicine, University of Washington; Chief, Respiratory Disease Division, Harborview Medical Center, Seattle, Washington

Chronic Bronchitis, Bronchiectasis, and Emphysema

R. LANNY HUNTER, M.D.

Flagstaff Community Hospital and Medical Center of Northern Arizona, Flagstaff, Arizona

Dermatitis Herpetiformis (Duhring's Disease)

PAUL B. IANNINI, M.D.

Assistant Clinical Professor of Medicine, Yale University, New Haven; Chief, Infectious Diseases, Danbury Hospital, Danbury, Connecticut

Psittacosis

ROBERT J. IRWIN, JR., M.D.

Assistant Professor of Surgery (Urology), University of Mississippi Medical Center; Attending Urologist, University Hospital and Veterans Administration Hospital, Jackson, Mississippi

Epididymitis

W. DAVID JACOBY, JR., M.D.

Associate in Internal Medicine (Dermatology), University of Arizona College of Medicine; Attending Dermatologist, University of Arizona Hospital, Tucson Medical Center, and St. Joseph's Hospital; Consultant, Davis-Monthan Air Force Base Hospital, Tucson, Arizona

Inflammatory Eruptions of the Hands and Feet

ERNST R. JAFFÉ, M.D.

Professor of Medicine and Senior Associate Dean, Albert Einstein College of Medicine of Yeshiva University; Attending Physician, Bronx Municipal Hospital Center and Hospital of the Albert Einstein College of Medicine, Bronx, New York

Hemolytic Anemia—Nonimmune

HENRY EARL JONES, M.D.

Professor and Chairman, Department of Dermatology, Emory University School of Medicine; Grady Memorial Hospital and Veterans Administration Hospital, Atlanta, Georgia

Superficial Fungus Infections of the Skin

THOMAS C. JONES, M.D.

Associate Professor of Medicine and Public Health, Cornell University Medical College; Associate Attending Physician, New York Hospital, New York, New York

Toxoplasmosis

HERMAN I. KANTOR, M.D., F.A.C.O.G.

Clinical Professor, University of Texas Health Science Center in Dallas; Attending Staff, Presbyterian Hospital, Baylor University Medical Center, and St. Paul Hospital, Dallas, Texas

Menopause

ADOLF W. KARCHMER, M.D.

Assistant Professor of Medicine, Harvard Medical School; Associate Physician, Infectious Disease Unit, Massachusetts General Hospital, Boston, Massachusetts

Infective Endocarditis

AARON BENEDICT A. KARAT, M.D., F.R.C.P.
(London), F.R.C.P. (Edin.)

Consultant Physician, The Royal Infirmary, Sunderland, United Kingdom

Leprosy

NEAL F. KASELL, M.D.

Assistant Professor of Neurosurgery, University of Iowa College of Medicine; Attending Neurosurgeon, University of Iowa Hospitals, Iowa City, Iowa

Intracranial Hemorrhage

STEPHEN I. KATZ, M.D., Ph.D.

Senior Investigator, National Cancer Institute, Bethesda, Maryland

Herpes Gestationis; Pruritic Urticarial Papules and Plaques of Pregnancy (PUPP)

JOHN L. KEELEY, M.D.

Professor of Surgery, Stritch School of Medicine, Loyola University Medical Center; Attending Surgeon, Foster G. McGaw Hospital of Loyola University, Maywood; Consulting Surgeon, Hines Veterans Administration Hospital, Hines, Illinois

Varicose Veins

J. PHILIP KISTLER, M.D.

Assistant Professor of Neurology, Harvard Medical School; Assistant Neurologist, Massachusetts General Hospital, Boston, Massachusetts

Acute Ischemic Cerebrovascular Disease

MICHAEL KLEEREKOPER, M.D.

Clinical Assistant Professor, Internal Medicine, University of Michigan; Staff Physician, Fifth Medical (Mineral Metabolism) Division, Henry Ford Hospital, Detroit, Michigan

Rickets and Osteomalacia

ROBERT S. KLEIN, M.D.

Assistant Professor of Medicine, Albert Einstein College of Medicine; Assistant Attending Physician in Internal Medicine, Division of Infectious Diseases, Montefiore Hospital and Medical Center and North Central Bronx Hospital, Bronx, New York

Bacterial Pneumonia

ROBERT A. KLOCKE, M.D.

Professor of Medicine, State University of New York at Buffalo; Attending Physician, Erie County Medical Center, Veterans Administration Hospital, and Buffalo General Hospital, Buffalo, New York

Respiratory Failure

RAYMOND S. KOFF, M.D.

Professor of Medicine, Boston University School of Medicine; Chief, Hepatology Section, Veterans Administration Medical Center, and Chief, Hepatology Section, Boston University Medical Center, Boston, Massachusetts

Cirrhosis

ARTHUR F. KOHRMAN, M.D.

Professor, Department of Pediatrics and Human Development, College of Human Medicine, Michigan State University, East Lansing; Staff Physician and Endocrinologist, Michigan State University Clinical Center, Ingham Medical Center, E. W. Sparrow Hospital, and St. Lawrence Hospital, Lansing, Michigan

Diabetes Mellitus in Childhood and Adolescence

BURTON I. KOTELITZ, M.D.

Chief, Section of Gastroenterology, Lenox Hill Hospital, New York, New York

Crohn's Disease

NICHOLAS T. KOUCHOUKOS, M.D.

Professor of Surgery, University of Alabama in Birmingham, Birmingham, Alabama

Atelectasis

BAYLOR KURTIS, M.D.

Assistant Professor of Dermatology, Baylor College of Medicine; Assistant Chief of Dermatology, Veterans Administration Hospital, Houston, Texas

Drug Eruptions

AHMED C. KUTTY, M.D., F.R.C.P.(C.)

Clinical Assistant Professor of Medicine and Attending Cardiologist, Graduate Hospital, Philadelphia, Pennsylvania

Cardiac Arrest

LEWIS LANDSBERG, M.D.

Associate Professor of Medicine, Harvard Medical School; Associate Chief, Medical Service, Beth Israel Hospital Boston, Massachusetts

Pheochromocytoma

HERBERT G. LANGFORD, M.D., F.A.C.P.

Professor of Medicine and Physiology, Department of Medicine, University of Mississippi Medical Center; Chief, Endocrinology and Hypertension Division, Department of Medicine University of Mississippi Medical Center, Jackson, Mississippi

Hypertension

JUSTIN P. LAVIN, M.D.

Assistant Instructor; Department of Obstetrics and Gynecology, University of Pennsylvania School of Medicine; Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania

Bleeding in the Latter Half of Pregnancy

CHANG Y. LEE, M.D., F.A.C.O.G.

Assistant Professor, Wayne State University; Division Head, Maternal-Fetal Medicine, Henry Ford Hospital, Detroit, Michigan

Pregnancy-Induced Hypertension

JOHN R. LEIBACH, M.D.

Assistant Professor of Internal Medicine, University of Florida School of Medicine; Attending Gastroenterologist, Shands Teaching Hospital, Gainesville, Florida

Acute and Chronic Viral Hepatitis

MARGUERITE RUSH LERNER, M.D.

Professor of Dermatology, Yale University School of Medicine; Staff, Yale-New Haven Hospital, New Haven, Connecticut

Pigmentary Disturbances

ALLAN B. LEVIN, M.D.

Assistant Professor of Neurological Surgery, University of Wisconsin Medical Center; Attending Neurosurgeon, University of Wisconsin Medical Center and Veterans Administration Hospital, Madison, Wisconsin

Brain Tumors

NORMAN LEVINE, M.D.

Assistant Professor of Medicine (Dermatology), University of Arizona College of Medicine; Consultant, Veterans Administration Hospital and Kino Community Hospital, Tucson, Arizona

Polyarteritis Nodosa

MICHAEL J. LEVINSON, M.D.

Clinical Assistant Professor of Medicine, University of Tennessee Center For Health Sciences; Attending Gastroenterologist, University of Tennessee and Baptist Memorial Hospital, Memphis, Tennessee

Peptic Ulcer

MATTHEW E. LEVISON, M.D.

Professor of Medicine, Medical College of Pennsylvania; Chief, Division of Infectious Diseases, Department of Medicine, Medical College of Pennsylvania, Philadelphia, Pennsylvania

Foodborne Illnesses