

Saunders Manual of Pediatric Practice

Finberg



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To all the residents with whom I have worked over many years, as we learned together.

With a special acknowledgment to an outstanding, achieving group of young men and women who served as Chief Residents.

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Assistant Professor of Pediatric Cardiology and Pediatric Critical Care, University of Iowa Hospitals and Clinics, Iowa City, Iowa Heart Failure

Michael P. LaQuaglia, M.D., F.A.C.S., F.A.A.P.

Chief, Pediatric Surgery, Memorial Sloan-Kettering Cancer Center, New York, New York

Soft Tissue Sarcomas; Liver Tumors

Teresita A. Laude, M.D.

Associate Professor of Pediatrics and Associate Professor of Dermatology; Director, Division of Pediatric Dermatology, State University of New York Health Science Center at Brooklyn, Brooklyn, New York

Skin Infections; Genodermatoses

Ronald M. Lauer, M.D.

Professor of Pediatrics and Preventive Medicine, Division of Pediatric Cardiology, University of Iowa College of Medicine and University of Iowa Hospitals and Clinics, Iowa City, Iowa Symptoms of Cardiovascular Disorders; Ventricular Septal Defects

Gobind Laungani, M.D.

Clinical Associate Professor, State University of New York Health Science Center at Brooklyn, Brooklyn, New York Genitourinary Disorders

Sheela G. Laungani, M.D.

Clinical Associate Professor, State University of New York Health Science Center at Brooklyn, Brooklyn, New York Genitourinary Disorders; Resuscitation of the Newborn

Peter Lee, M.D., Ph.D.

Professor of Pediatrics, University of Pittsburgh School of Medicine; Program Director, General Clinical Research Center, Children's Hospital of Pittsburgh, Pittsburgh, Pennsylvania Hypogonadotropic Hypogonadism; Micropenis (Hypogenitalism)

Fred Leickly, M.D.

Clinical Associate Professor of Pediatrics, Indiana University School of Medicine; James Whitcomb Riley Hospital for Children, Indianapolis, Indiana

Bronchitis; Status Asthmaticus

Jeremiah Levine, M.D.

Associate Professor, Albert Einstein College of Medicine, The Bronx; Co-Chief, Department of Gastroenterology and Nutrition, Schneider Children's Hospital, Long Island Jewish Medical Center, New Hyde Park, New York

Achalasia; Pyloric Stenosis; Helicobacter pylori-Associated Peptic Ulcer Disease

Lynne L. Lentsky, M.D.

Associate Professor of Pediatrics, Harvard Medical School: Chief. Pediatric Endocrine Unit, Massachusetts General Hospital, Boston, Massachusetts

Insulin-Dependent Diabetes Mellitus

L. Glen Lewis, M.D.

Assistant Professor of Pediatrics, University of Cincinnati School of Medicine; Division of Pediatric Gastroenterology and Nutrition, Children's Hospital Medical Center, Cincinnati, Ohio End-Stage Liver Disease and Cirrhosis

Barbara Linder, M.D., Ph.D.

Assistant Professor of Pediatrics, Albert Einstein College of Medicine; Montefiore Medical Center, The Bronx, New York Hypoglycemia; Steroid Withdrawal

Barbara Lippe, M.D.

Professor Emeritus of Pediatrics, University of California, Los Angeles, School of Medicine, Los Angeles, California; Senior Medical Director, Peptide Hormones/Metabolic Diseases, Pharmacia & Upjohn, Kalamazoo, Michigan Turner Syndrome

Thomas R. Llovd. M.D.

Associate Professor, Division of Pediatric Cardiology, University of Michigan Medical School; Director, Cardiac Catheterization Laboratories, C.S. Mott Children's Hospital, Ann Arbor, Michigan Pulmonary Stenosis

Janet Loch-Donahue, M.D.

Emergency Physician, St. Thomas Hospital, Nashville, Tennessee Orbital and Preseptal Cellulitis

Larry T. Mahoney, M.D.

Professor of Pediatrics, University of Iowa College of Medicine; Director, Pediatric Cardiology, University of Iowa Hospitals and Clinics, Iowa City, Iowa Coarctation of the Aorta

Joseph A. Maizoub, M.D.

Associate Professor in Pediatrics, Harvard Medical School; Chief, Division of Endocrinology, Children's Hospital, Boston, Massachu-

Diabetes Insipidus

Michael J. Maloney, M.D.

Associate Professor of Psychiatry and Pediatrics, University of Cincinnati School of Medicine; Director, Division of Child and Adolescent Psychiatry, Children's Hospital Medical Center, Cincin-

A Developmental Understanding of Chronic Illness

Michael Marble, M.D.

Assistant Professor of Pediatrics, Human Genetics Program, Havward Genetics Center, Tulane University School of Medicine, New Orleans, Louisiana Skeletal Dysplasias

Morri E. Markowitz, M.D.

Professor of Pediatrics, Albert Einstein College of Medicine; Attending Physician, Montefiore Medical Center, The Bronx, New York

Parathyroid Disorders; Pseudohypoparathyroidism; Hyperparathyroidism; Neonatal Hypocalcemia

William L. Marshall, M.D.

Instructor in Medicine, Harvard Medical School; Attending Physician in Infectious Disease, Brigham and Women's Hospital/Dana-Farber Cancer Institute, Boston, Massachusetts Human Immunodeficiency Virus

Bruce J. Masek, Ph.D.

Assistant Professor of Psychology (Psychiatry), Harvard Medical School; Director, Behavioral Medicine Program, Department of Child Psychiatry, Children's Hospital; Massachusetts General Hospital, Boston, Massachusetts

Behavioral Symptoms and Management Strategies for Common **Problems**

Paul A. Mevers. M.D.

Associate Professor of Clinical Pediatrics, Cornell University Medical College; Associate Attending Pediatrician, Memorial Sloan-Kettering Cancer Center, New York, New York Osteosarcoma; Ewing Sarcoma

Scott T. Miller, M.D.

Associate Professor of Clinical Pediatrics, State University of New York Health Science Center at Brooklyn; Attending Physician, University Hospital of Brooklyn, Kings County Hospital, Brooklyn, New York

Sickle Cell Disease; Thalassemias

Walter L. Miller, M.D.

Professor of Pediatrics and Director, Child Health Research Center, University of California, San Francisco, School of Medicine, San Francisco, California

21-Hydroxylase Deficiency; Other Congenital Adrenal Hyperplasias: Addison Disease

Jill H. Morriss, M.D.

Associate Professor, University of Iowa College of Medicine, Iowa City Iowa

Patent Ductus Arteriosus; Aortic Stenosis

James N. Moy, M.D.

Assistant Professor, Department of Immunology/Microbiology, Rush Medical College; Director, Division of Allergy and Immunology, Cook County Children's Hospital, Chicago, Illinois Asthma; Angioedema/Urticaria; Allergic Rhinitis; Food Allergies

Gary A. Mueller, M.D.

Assistant Professor of Pediatrics; Associate Director, Division of Pediatric Pulmonary Medicine, Wright State University School of Medicine; Medical Director, Department of Respiratory Therapy; Medical Director, Pulmonary Function Laboratory, Children's Medical Center, Dayton, Ohio

Pulmonary Function Testing

Kevin Mulhern, M.D.

Assistant Professor of Medicine, University of Iowa College of Medicine, Iowa City, Iowa

Mitral Valve Prolapse; Marfan Syndrome

J. Michael Murphy, Ed.D.

Assistant Professor of Psychology, Harvard Medical School; Staff Psychologist, Massachusetts General Hospital, Boston, Massachusetts

Questionnaire Approaches to the Recognition and Assessment of Psychosocial Problems

J. Patrick Murphy, M.D.

Associate Professor of Surgery, University of Missouri—Kansas City School of Medicine, Kansas City, Missouri; Associate Clinical Professor of Surgery, University of Kansas School of Medicine, Kansas City, Kansas; Chief of Pediatric Urology, Children's Mercy Hospital, Kansas City, Missouri

Neonatal Urinary Tract Dilation; Cryptorchidism; Trauma to the Urinary Tract

Sakkubai Naidu, M.D.

Associate Professor, Departments of Pediatrics and Neurology, Johns Hopkins University School of Medicine; Pediatric Neurologist, The Kennedy Krieger Institute, Baltimore, Maryland Neurodegenerative Disorders; Subacute Sclerosing Panencephalitis; Rett Syndrome

Wendy Neal, M.D.

Post-doctorate Fellow in Adolescent Medicine, Albert Einstein College of Medicine/Montefiore Medical Center, The Bronx, New York Substance Abuse

Robert P. Nelson, M.D.

Associate Professor of Medicine and Pediatrics, Division of Allergy and Clinical Immunology, University of South Florida College of Medicine, Tampa; All Children's Hospital, St. Petersburg, Florida *Pneumonia*

Karin M. Nussbaum, B.A.

Research Coordinator, Eating Disorders Unit, Massachusetts General Hospital, Boston, Massachusetts Eating Disorders

K. M. O'Neil, M.D.

Assistant Clinical Professor of Pediatrics, State University of New York at Buffalo School of Medicine and Biomedical Sciences; Director, Pediatric Rheumatology Service, The Children's Hospital of Buffalo, Buffalo, New York

Juvenile Arthritis; Systemic Lupus Erythematosus; Juvenile Dermatomyositis and Polymyositis; Scleroderma; Vasculitis Syndromes of Childhood; Infection-Associated Rheumatic Syndromes

Robert H. Pantell, M.D.

Professor of Pediatrics, University of California, San Francisco, School of Medicine, San Francisco, California Fever in Infants Less than 3 Months of Age

Ora Hirsch Pescovitz, M.D.

Professor of Pediatrics, Physiology/Biophysics, Indiana University School of Medicine; Director, Pediatric Endocrinology/Diabetology, James Whitcomb Riley Hospital for Children, Indianapolis, Indiana

Premature Thelarche

Michael Pettei, M.D.

Associate Professor of Pediatrics, Albert Einstein School of Medicine, The Bronx; Co-Chief, Division of Gastroenterology and Nutrition, Schneider Children's Hospital, Long Island Jewish Medical Center, New Hyde Park, New York

Gastroesophageal Reflux

Steve Piecuch, M.D.

Clinical Assistant Professor of Pediatrics, State University of New York Health Science Center at Brooklyn, Brooklyn, New York Birth Injuries; Neonatal Infections; Gastrointestinal Disorders

Neil S. Prose, M.D.

Associate Professor of Medicine (Dermatology) and Pediatrics, Duke University Medical Center, Durham, North Carolina Alopecias; Acne; Damaging Effects of Solar Radiation

Marlene Rabinovitch, M.D.

Professor of Pediatrics, Pathology, and Medicine, University of Toronto Faculty of Medicine; Director, Division of Cardiovascular Research, The Hospital for Sick Children, Toronto, Canada *Eisenmenger Syndrome*

Simon Rabinowitz, Ph.D., M.D.

Clinical Associate Professor of Pediatrics; Chief, Pediatric Gastroenterology and Nutrition, Children's Medical Center of Brooklyn, Brooklyn, New York

Gastrointestinal Hemorrhage; Liver Failure; Toxic Megacolon; Gastrointestinal Endoscopy

Sreedhar P. Rao, M.D.

Professor of Clinical Pediatrics; Director, Pediatric Hematology/ Oncology; State University of New York Health Science Center at Brooklyn, Brooklyn, New York

Pallor; Jaundice; Anemia; Lymphadenopathy; Neck Mass; Abdominal Mass; Hepatosplenomegaly; Iron Deficiency Anemia and Other Microcytic Anemias; Aplastic Anemia; Hypoplastic Anemia; Glucose 6-Phosphate Dehydrogenase Deficiency; Pyruvate Kinase Deficiency; Microangiopathic Hemolytic Anemia; Autoimmune Hemolytic Anemia; Examination of Peripheral Blood; Examination of Bone Marrow

Paula K. Rauch, M.D.

Assistant Professor, Harvard Medical School; Co-Director, Child Psychiatry Consultation Service, Massachusetts General Hospital, Boston, Massachusetts

Death in the Family

Edward O. Reiter, M.D.

Professor of Pediatrics, Tufts University School of Medicine, Boston; Chairman, Department of Pediatrics, Baystate Medical Center Children's Hospital, Springfield, Massachusetts Undescended Testes

Frederick J. Rescorla, M.D.

Associate Professor of Surgery, Indiana University School of Medicine; Staff Surgeon, James Whitcomb Riley Hospital for Children, Indianapolis, Indiana

Pectus Excavatum; Pneumothorax

Michael Rosenbaum, M.D.

Associate Professor of Pediatrics, Columbia University College of Physicians and Surgeons, New York, New York *Obesity*

Ron G. Rosenfeld, M.D.

Professor and Chairman, Department of Pediatrics; Professor, Department of Cell and Developmental Biology, Oregon Health Sciences University; Physician-in-Chief, Doernbecher Children's Hospital, Portland, Oregon

Growth Hormone Resistance Syndromes

Warren Rosenfeld, M.D.

Professor of Pediatrics, State University of New York at Stony Brook Health Sciences Center; Chairman of Pediatrics, Winthrop-University Hospital, Mineola, New York

Respiratory Distress Syndrome; Bronchopulmonary Dysplasia; Transient Tachypnea of the Newborn; Meconium Aspiration; Air Leaks

Robert L. Rosenfield, M.D.

Professor of Pediatrics and Medicine, The University of Chicago Pritzker School of Medicine; Head, Section of Pediatric Endocrinology, The University of Chicago Children's Hospital, Chicago, Illinois

Hirsutism and Hyperandrogenism in Adolescent Girls

Sheldon P. Rothenberg, M.D.

Professor of Medicine; Chief, Division of Hematology/Oncology, State University of New York Health Science Center at Brooklyn, Brooklyn, New York

Megaloblastic Anemia

James A. Royall, M.D.

C.R. Anthony Professor of Pediatrics, University of Oklahoma College of Medicine; Chief, Section of Pediatric Pulmonology; Faculty, Section of Pediatric Critical Care, Children's Hospital at Oklahoma, Oklahoma City, Oklahoma

Cardiogenic Shock/Hypertensive Crisis

Robert J. Ruben, M.D.

Professor and Chairman, Department of Otolaryngology; Professor of Pediatrics, Albert Einstein College of Medicine and Montefiore Medical Center, The Bronx, New York

Symptoms of ENT Disorders; Otitis Media; Serous Otitis Media; Chronic Otitis Media and Mastoiditis; Otitis Externa (Swimmer's Ear); Hearing Tests; Tympanocentesis; Removing Cerumen

Nathan Rudolph, M.B.B.Ch.

Professor of Pediatrics, State University of New York Health Science Center at Brooklyn; Associate Director of Neonatology, Children's Medical Center of Brooklyn, Brooklyn, New York Low Birth Weight; Parenteral Nutrition of the Neonate; Screening

Barry Russman, M.D.

Professor of Pediatrics and Neurology, University of Connecticut School of Medicine, Farmington; Director, Rehabilitation Medicine; Staff Neurologist, Connecticut Children's Medical Center, Hartford, Connecticut

Cerebral Palsy; Muscular Dystrophies; Spinal Muscular Atrophy

Paul H. Saenger, M.D.

Professor of Pediatrics; Head, Division of Pediatric Endocrinology, Montefiore Medical Center/Albert Einstein College of Medicine; The Bronx, New York

Gynecomastia; Premature Adrenarche; Brief Guide to Work-up of the Child with Short Stature; Ambiguous Genitalia; Undescended Testes

Stephen P. Sanders, M.D.

Professor of Pediatrics; Chief, Division of Pediatric Cardiology, Duke University Medical Center, Durham, North Carolina Transposition of the Great Vessels

Lawrence A. Schachner, M.D.

Professor, Department of Dermatology, Department of Pediatrics; Director, Division of Pediatric Dermatology, University of Miami School of Medicine, Miami, Florida

Normal Neonatal Skin; Neonatal Skin Abnormalities; Seborrheic Dermatitis; Vesicopustular Rashes; Sarcoidosis; Mastocytosis; Granuloma Annulare; Melanoma; Nevocellular (Melanocytic) Nevi; Miscellaneous Pigmented Lesions; Potassium Hydroxide (KOH) Preparation; Patch Testing; Scabies Preparation; Tzanck Preparation; Wood Lamp Examination

David Schleifer, B.A.

Pediatric Pharmacology Clinic, Massachusetts General Hospital, Boston, Massachusetts

Attention Deficit/Hyperactivity Disorder

Thomas D. Scholz, M.D.

Assistant Professor of Pediatrics, University of Iowa College of Medicine, Iowa City, Iowa Atrial Septal Defects

Joel M. Schwartz, M.D.

Professor of Clinical Medicine, State University of New York Health Science Center at Brooklyn; Director of Hematology and Oncology, Coney Island Hospital, Brooklyn, New York Hereditary Spherocytosis and Hereditary Elliptocytosis

Binita R. Shah, M.D.

Professor of Clinical Pediatrics, State University of New York at Brooklyn Health Science Center; Children's Medical Center of Brooklyn; Director, Pediatric Emergency Medicine, Kings County Hospital Center, Brooklyn, New York

Comatose Child; Child with Multisystem Trauma; Child Poisoned by Unknown Substance

Joseph Shrand, M.D.

Instructor of Psychiatry, Harvard Medical School, Boston; Director, Child and Adolescent Ambulatory Services, McLean Hospital, Belmont, Massachusetts

Triage of Psychiatrically Ill Children

Ari M. Simckes, M.D.

Assistant Professor of Pediatrics, University of Missouri—Kansas City School of Medicine; Section of Pediatric Nephrology, The Children's Mercy Hospital, Kansas City, Missouri

Isolated Asymptomatic Proteinuria; Nephrotic Syndrome; Bladder Catheterization; Suprapubic Aspiration (Bladder Tap)

John D. Snyder, M.D.

Professor of Clinical Pediatrics, Division of Hepatology, University of California, San Francisco, School of Medicine, San Francisco, California

Acute Diarrhea; Persistent Diarrhea; Inflammatory Bowel Disease: Ulcerative Colitis and Crohn Disease

Thomas J. Spencer, M.D.

Assistant Professor, Harvard Medical School; Staff Psychiatrist, Massachusetts General Hospital, Boston, Massachusetts Attention Deficit/Hyperactivity Disorder

Paul Stanger, M.D.

Professor of Pediatrics (Cardiology), University of California, San Francisco, School of Medicine, San Francisco, California *Truncus Arteriosus*

Richard Stanhope, M.D., D.C.H., F.R.C.P.

Senior Lecturer in Paediatric Endocrinology, Institute of Child Health; Consultant Paediatric Endocrinologist, Great Ormond Street Hospital for Children, London, England

Constitutional Short Stature; Familial Short Stature; Constitutional Delay of Growth and Puberty

Peter G. Steinherz, M.D.

Professor of Pediatrics, Cornell University Medical College; Member and Attending Pediatrician, Memorial Sloan-Kettering Cancer Center, New York, New York

Acute Lymphoblastic Leukemia; Wilms Tumor

John C. Stevens, M.D.

Clinical Associate Professor of Pediatrics, Section of Pulmonology, Indiana University School of Medicine; Attending Pediatric Pulmonologist, James Whitcomb Riley Hospital for Children, Indianapolis, Indiana

Chronic Cough; Cystic Fibrosis

Julia L. Stevens, M.D.

Assistant Professor, Department of Ophthalmology, University of Kentucky College of Medicine; A.B. Chandler Medical Center, Lexington, Kentucky

Amblyopia; Retinopathy of Prematurity

Constantine A. Stratakis, M.D., D.Sc.

Assistant Professor of Pediatrics, Pediatric Endocrinology, and Genetics, Georgetown University, Washington, D.C.; Senior Staff Scientist, National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, Maryland

Cushing Syndrome and Cushing Disease

Muriel Sugarman, M.D.

Clinical Instructor in Psychiatry, Harvard Medical School; Assistant in Psychiatry, Massachusetts General Hospital, Boston, Massachusetts

Physical Abuse and Neglect; Sexual Abuse

Masato Takahashi, M.D.

Professor of Pediatrics, University of Southern California School of Medicine; Attending Cardiologist, Children's Hospital, Los Angeles, California

Kawasaki Syndrome

Shanti Thirumalai, M.D., M.R.C.P.(U.K.)

Assistant Professor, Division of Pediatric Neurology, University of South Carolina School of Medicine; Attending Physician, Richland Memorial Hospital, Columbia, South Carolina

Neurodegenerative Disorders; Subacute Sclerosing Panencephalitis: Rett Syndrome

Jeffrey A. Towbin, M.D.

Associate Professor of Pediatrics (Cardiology) and Molecular and Human Genetics, Baylor College of Medicine, Texas Children's Hospital, Houston, Texas Myocarditis; Pericarditis

Guochuan E. Tsai, M.D., Ph.D.

Assistant Professor, Harvard Medical School; Assistant in Psychiatry, Massachusetts General Hospital, Boston, Massachusetts Anxiety Disorders

Gloria B. Valencia, M.D.

Clinical Associate Professor, State University of New York Health Science Center at Brooklyn; Attending Neonatologist; Kings County Hospital Center, Brooklyn, New York

Neonatal Jaundice; Infant Transport

Cornelis Van Dop, M.D., Ph.D.

Associate Professor of Pediatrics, University of California, Los Angeles, School of Medicine, Los Angeles, California McCune-Albright Syndrome

Stella Van Praagh, M.D.

Associate in Cardiology, Emeritus, Department of Cardiology, Children's Hospital, Boston, Massachusetts Single Ventricle

L. George Veasy, M.D.

Professor of Pediatrics, University of Utah School of Medicine; Physician-in-Chief (Retired), Primary Children's Medical Center, Salt Lake City, Utah Cardiac Auscultation

Fredric H. Warren, M.D.

Associate Professor of Orthopaedics, Tulane University, New Orleans, Louisiana

Slipped Capital Femoral Epiphysis; Genu Varum and Genu Valgum; Legg-Calvé-Perthes Disease

Paul M. Weinberg, M.D.

Associate Professor of Pediatrics and Radiology, University of Pennsylvania School of Medicine; Senior Cardiologist; Consultant in Radiology (MRI) and Pathology; Director, Cardiac Registry, The Children's Hospital of Philadelphia, Philadelphia, Pennsylvania Hypoplastic Left Heart Syndrome

Toba Weinstein, M.D.

Assistant Professor, Albert Einstein College of Medicine, The Bronx; Pediatric Gastroenterologist, Schneider Children's Hospital, Long Island Jewish Medical Center, New Hyde Park, New York Achalasia; Helicobactor Pylori–Associated Peptic Ulcer Disease

Peter F. Weller, M.D., F.A.C.P.

Professor of Medicine, Harvard Medical School; Co-Chief, Infectious Diseases, Beth Israel Deaconess Medical Center, Boston, Massachusetts

Selected Parasitic Infections

Robert J. Wells, M.D.

Professor of Clinical Pediatrics, University of Cincinnati College of Medicine; Children's Hospital Medical Center, Cincinnati, Ohio Acute Myeloid Leukemia

Constance E. West, M.D.

Pediatric Ophthalmologist, Children's Hospital Medical Center and Cincinnati Eye Institute, Cincinnati, Ohio

Nasolacrimal Duct Obstruction; Retinoblastoma; Ocular Trauma

Timothy E. Wilens, M.D.

Associate Professor, Harvard Medical School; Staff Psychiatrist, Massachusetts General Hospital, Boston, Massachusetts Attention Deficit/Hyperactivity Disorder

Steven M. Willi, M.D.

Assistant Professor of Pediatrics, Medical University of South Carolina College of Medicine, Charleston, South Carolina *Hypoglycemia*

Robert R. Wolfe, B.S.Ch.E., M.D.

Professor of Pediatric Cardiology, University of Colorado School of Medicine, Director of Pediatric Exercise Laboratory; Director of Pediatric Cardiology Outreach, Denver Children's Hospital, Denver, Colorado

Pulmonary Atresia

Norma Wollner, M.D.

Professor of Pediatrics, Cornell University Medical College; Attending Pediatrician; Director, Pediatric Day Hospital, Memorial Sloan-Kettering Cancer Center, New York, New York Non-Hodgkin Lymphoma

Alice C. Yao, M.D.

Professor of Pediatrics, Pediatric Cardiology, and Neonatology, State University of New York at Brooklyn Health Science Center; Attending Pediatrician, Attending Neonatologist and Cardiologist, Children's Medical Center of Brooklyn at University Hospital of Brooklyn, Brooklyn, New York Cardiovascular Disorders

Nada Yaziqi, M.D.

Mt. Sinai Hospital Medical Center, Chicago, Illinois Viral Hepatitis

Marc Yudkoff, M.D.

Professor of Pediatrics, University of Pennsylvania School of Medicine; Associate Chief, Division of Child Development, Children's Hospital of Philadelphia and Children's Seashore House, Philadelphia, Pennsylvania

Disorders of Amino Acid Metabolism

Jean Homrighausen Zander, R.N., M.S.N.

Formerly Clinical Instructor and Lecturer (Adjunct), Indiana University School of Nursing; Staff Nurse, Pediatric ICU, James Whitcomb Riley Hospital for Children, Indianapolis, Indiana *Pulmonary Home Care*

Donald Zimmerman, M.D.

Associate Professor of Pediatrics, Mayo Medical School; Section Head, Pediatric Endocrinology; Consultant in Pediatric Endocrinology and Metabolism, Mayo Clinic, Rochester, Minnesota *Thyroid Cancer*