

默克  
诊疗手册

THE MERCK MANUAL

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黄怡兴 等译

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献给  
大卫·詹思勉

纪念詹思勉先生为出版本书  
所付出的努力

**DEDICATION**

**This book is dedicated to the  
memory of David Trimmer-Smith,  
whose help and advice were  
invaluable in the preparation of this  
publication.**

## 致谢

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Chinese Language translation of  
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# 前言

默克手册问世于 1899 年，当时是一本 262 页的薄书，名为默克氏药物手册。它是专为满足全科医生选择药物的需要而编写的，编者按说：“记忆不可恃”，即使是知识渊博的医生也需要有一本备忘录来“帮助他立断病案，使他能根据自己的判断，精确无误地对症下药”。该书颇受欢迎，出至 6 版时（1934 年），默克手册已不仅为医学生，而且为出版界所高度推崇。至第二次世界大战结束时，这本袖珍手册已成为一本公认深受读者喜爱的手头参考书。今天，默克手册是世界上使用最广的一本医学书。虽然该书的篇幅已增至 2500 页左右，但原著的宗旨未变：为临床医生、医学生、实习医生、住院医生和其他卫生专业人员提供有用的信息。

现在想成为能治婴幼儿和成人百病的全科医生的人比以前少了，但是对那些想当这样的医生的人来说，他们必须得到当代广泛而准确的信息。专科医生也需要本专业以外各种疾病的确切信息。所有的医生都需要掌握越来越多的信息来研究、诊断和治疗各种疾病。默克手册将继续致力于满足这些需求，仅外科手术细节除外。

究竟我们是怎样来满足这些要求的呢？首先，我们以疾病分类为导向分别论述，除极其含糊不清者外，默克手册几乎囊括了人类所有的疾病。本书不仅包罗一般内科医生所可能碰到的各种疾病，而且把妊娠和分娩问题、新生儿、婴儿、儿童较为常见的疾病和重症，乃至许多特殊病症都囊括在内。各种疾病基本上是按主要受罹器官系统来分类的，或按其病因学分类（如大多数感染性疾病和由物理因子引起的各种疾患），或按其科别分类（如妇科、产科、儿科、遗传科、精神科等）。本手册包含有特殊病症的信息，如放射反应、损伤、深海潜泳所发生的问题，以及牙科急诊等。每出新版，全书信息更新，不断增添新课题，如探讨胃肠科的诊疗技术，获得性免疫缺陷综合征（艾滋病），生殖内分泌学，肿瘤学，剧痛和慢性疼痛处理，高压氧治疗价值，以及婴儿、儿童药物治疗特点等。本版比上一版增加了 114 页（多了约 5%）。因此，当您需要信息、甚至是有关罕见病的信息、或其他医学书中一般找不到的信息时，不妨翻阅一下本书的索引。

但是如果完全按疾病分类来编写纲目，可能会有严重的局限性。因为病人通常提供的都是各种主诉和忧虑，这些都必须仔细记述、整理和辨析，因此本书有许多章节专门用于叙述各种症状和体征，讨论如何取得诊断所需的病史和体检资料。对作为诊疗辅助手段的各种临床手术和化验检查，则重点介绍其适应证、禁忌证和可能发生的合并症。对新的和尖端的检验及技术也有所介绍，并对其应用、检查结果的解释和局限性都作了评介。

我们对各种疾病的当代疗法都逐一作了介绍，并在有关章节讨论临床药理学、总的治疗原则和新的治疗方法（如药物感受器的作用，血浆浓度的监测）、各类药物的特效，甚至还讨论有关安慰剂的应用等。对复杂设备（如呼吸机）的应用也予以描述。我们还尽可能强调预防。最后，提供有参考指南，便于读者查考正常值、计算剂量、换算重量、刻度和米制容量等。

本书能充分论述如此之多的内容吗？这要由您——读者才能作出最终判断，但我们相信，回答是肯定的。本版是由多人通力协作完成的。首先，由我们内部对前版作

了剖析和批判，尽管该版曾得到行家的高度评价和深受读者欢迎。然后，我们将该书各个章节分别送给未参与汇写工作的外部专家，恳请他们提出中肯批评。来自读者的书评和信函也都逐一加以分析。接着再由编辑部开会，对有关评审意见进行比较，提出本版（第 15 版）的编写计划，邀请著名权威专家和顾问，请他们汇写有关专业的新篇。共有 269 名才学卓著、经验丰富的杰出学者应聘。他们的原稿再经编辑部多次评审，只要有价值的点滴知识都予以保留，偶或出现的浮夸之词和无关紧要的话统统删掉。每份手稿由一名编委或顾问负责审阅，还多次另请专家评审。书中提到的所有药物及其剂量均请外部专家分别审查。所有这些评审的目的都在于保证使每个题目都能得到充分而恰当的论述、精确而简明的解释。然后再请原作者返工修改，加以润色。几乎所有的原稿都至少修改过 6 遍，修改 15~20 遍的也不少。我们相信恐怕还没有其他医学书象默克手册经过这么多次的评阅和修改。

由于题材涉及面广，又有成功的传统，默克手册的设计和编排组织有若干与众不同的特点。读者不妨翻阅一下每章的内容目录和索引。若您细阅每章疾病的标题、每一疾病讨论段落中的标题，将不难发现有一个特意为帮助您钻研本书而设计的提纲。

上面简单回顾了五年来复杂、艰难而又有收穫的耕耘过程，现在我们终于向读者献出了默克手册第 15 版。我们在此难以充分表达对他们的感激之情，但我们相信他们会感到十分心满意足，如果他们的努力真能满足您们的需求，就得到了充分报偿。

我们希望本版默克手册将成为受到您——本书读者所欢迎的、符合您的需要、值得您经常使用的一本工具书。我们将热烈欢迎和认真考虑有关提高本书质量的各种建议。

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**Martin Goldberg, M.D.**  
Dean and Vice President, and Professor of Medi-  
cine, Temple University

*Diuretics*

**Harvey M. Golomb, M.D.**  
Professor of Medicine, University of Chicago; Di-  
rector, Joint Section of Hematology/Oncology,  
Michael Reese Medical Center

*Oncology*

**M. Jay Goodkind, M.D.**  
Clinical Associate Professor of Medicine, Univer-  
sity of Pennsylvania; Attending in Medicine, Mer-  
cer Medical Center

*Cardiac Tumors*

**Stephen Gryzan, M.D.**  
Senior Research Associate in Medicine, University  
of Pittsburgh

*Cardiac Arrest and Cardiopulmonary Resuscitation*

**G. Peter Halberg, M.D.**  
Professor of Clinical Ophthalmology, New York  
Medical College; Chief, Glaucoma Service, St.  
Vincent's Hospital and Medical Center of New  
York

*Congenital Glaucoma; Glaucoma; Contact Lenses*

**Caroline Breese Hall, M.D.**  
George Washington Goler Professor of Pediatrics  
and Medicine, University of Rochester

*Acute Epiglottitis; Croup; Bronchiolitis*

**Robert W. Hamilton, M.D.**  
Associate Professor of Medicine/Nephrology,  
Wake Forest University  
*Dialysis and Filtration Procedures*

**Margaret R. Hammerschlag, M.D.**  
Associate Professor of Pediatrics, State University  
of New York, Health Science Center, Brooklyn  
*Neonatal Conjunctivitis*

**Paul G. St. J. Hammond, M.B., D.Phil., F.R.C.P.(C)**  
Associate Professor of Medicine, Loma Linda  
University; Assistant Chief of Nephrology, Jerry  
L. Pettis Memorial VA Hospital, Loma Linda  
*The Glomerular Diseases*

**James P. Harnisch, M.D.**  
Chief of Dermatology, Pacific Medical Center, Se-  
attle; Clinical Associate Professor of Medicine,  
University of Washington  
*Diphtheria*

**Donald H. Harter, M.D.**  
Benjamin and Virginia T. Boshes Professor of  
Neurology and Chairman, Department of Neuro-  
logy, Northwestern University; Chairman, Depart-  
ment of Neurology, Northwestern Memorial  
Hospital  
*Slow Virus Infections; Subacute Sclerosing Panen-  
cephalitis; Progressive Rubella Panencephalitis*

**Jack Hartstein, M.D.**  
Associate Professor of Clinical Ophthalmology,  
Washington University  
*Dyslexia*

**Herbert B. Hechtman, M.D.**  
Professor of Surgery, Harvard University; Sur-  
geon, Brigham and Women's Hospital  
*Invasive Cardiovascular Procedures*

**Paul Henkind, M.D., Ph.D. (Deceased)**  
Dejur Professor and Chairman, Department of  
Ophthalmology, Albert Einstein College of Medi-  
cine; Director, Department of Ophthalmology,  
Montefiore Hospital and Medical Center  
*Retinopathy of Prematurity; Retinoblastoma; Ret-  
ina*

**Werner Henle, M.D.**  
Professor of Virology (Emeritus), University of  
Pennsylvania; The Joseph Stokes, Jr. Research In-  
stitute, The Children's Hospital of Philadelphia  
*Infectious Mononucleosis*

**Jan V. Hirschmann, M.D.**  
Assistant Professor of Medicine, University of  
Washington; Assistant Chief of Medicine, VA  
Medical Center, Seattle

*Prevention of Infection—Antimicrobial Chemoprophylaxis: Superficial Infections; Abscesses; Osteomyelitis*

**Basil I. Hirschowitz, M.D.**  
Professor of Medicine and Physiology, and Direc-  
tor, Division of Gastroenterology, University of  
Alabama, Birmingham

*Disorders of the Stomach and Duodenum; Child-  
hood Peptic Ulcer*

**Christopher H. Hodgman, M.D.**  
Director, Division of Child and Adolescent Psy-  
chiatry, and Associate Professor of Psychiatry and  
Pediatrics, University of Rochester

*Adolescent Psychiatric Conditions; Suicide in Chil-  
dren and Adolescents*

**Robert A. Hoekelman, M.D.**  
Professor and Chairman, Department of Pediat-  
rics, University of Rochester

*Pediatrics and Genetics—Introduction; Health  
Management in Normal Neonates, Infants, and  
Children—Introduction; Health Supervision of the  
Well Child; Acute Infectious Gastroenteritis: Pin-  
worm Infestation*

**Paul D. Hoepflich, M.D.**  
Professor of Medicine and Chief, Division of  
Medical Mycology, University of California,  
Davis

*Erysipeloid; Listeriosis*

**James W. Holcroft, M.D.**  
Professor of Surgery, University of California,  
Davis

*Adult Respiratory Distress Syndrome*

**Dorothy Reycroft Hollingsworth, M.D.**  
Professor of Reproductive Medicine and Medi-  
cine, University of California, San Diego

*Pregnancy Complicated by Disease—Diabetes Mel-  
litus; Pregnancy Complicated by Disease—Thyroid  
Disease*

**Richard B. Hornick, M.D.**  
Associate Dean for Affiliated Hospitals and Exter-  
nal Relations and Professor, Department of Medi-  
cine, University of Rochester

*Salmonella Infections; Shigellosis; Tularemia; Lep-  
tospiriosis*

**Dorothy M. Horstmann, M.D.**

John Rodman Paul Professor of Epidemiology and Professor of Pediatrics (Emeritus), Yale University

*Poliomyelitis*

**Charles S. Houston, M.D.**

Professor of Environmental Health and Professor of Medicine (Emeritus), University of Vermont

*Heat Disorders; Cold Injury; High-Altitude Illness*

**Douglas W. Huestis, M.D.**

Professor of Pathology and Chief of Immunohematology, University of Arizona

*Blood Transfusion*

**Graham R. V. Hughes, M.D., F.R.C.P.**

Consultant Physician, Rheumatology Department, and Head of Lupus-Arthritis Research Laboratories (Rayne Institute), St. Thomas' Hospital, London, England

*Discoid Lupus Erythematosus; Systemic Lupus Erythematosus*

**Daniel A. Hussar, Ph.D.**

Remington Professor of Pharmacy, Philadelphia College of Pharmacy and Science

*Modification of Drug Response*

**Harold L. Israel, M.D.**

Professor of Medicine (Emeritus), Thomas Jefferson University

*Sarcoidosis*

**Michael Jacewicz, M.D.**

Cornell University

*Neurologic Disorders—Approach to the Patient; Disorders of Smell and Taste; Nutritional Neurologic Disorders; CNS Infections*

**George Gee Jackson, M.D.**

Robert Wood Keeton Professor of Medicine and Chief, Section of Infectious Diseases, University of Illinois, Chicago

*Respiratory Viral Diseases: Respiratory Syncytial Virus*

**Harry S. Jacob, M.D.**

Professor of Medicine and Head, Division of Hematology, University of Minnesota

*The Spleen*

**Ralph F. Jaxon, M.D.**

Professor of Medicine (Emeritus), University of Rochester

*Wegener's Granulomatosis*

**Dennis M. Jensen, M.D.**

Associate Professor of Medicine, University of California, Los Angeles

*Gastrointestinal Bleeding*

**Karl D. Kappus, Ph.D.**

Epidemiologist, Division of Viral Disease, Centers for Disease Control, USPHS

*Rabies*

**Fred E. Karch, M.D.**

Clinical Assistant Professor of Medicine, University of Rochester

*Topical Antiseptics; Antiviral Drugs; Antihistamines*

**Dennis L. Kasper, M.D.**

Director, Division of Infectious Disease, Beth Israel Hospital; Professor of Medicine, Harvard University

*Bacteroides and Mixed Anaerobic Infections*

**Stephen I. Katz, M.D., Ph.D.**

Chief, Dermatology Branch, National Cancer Institute

*Herpes Gestationis; Impetigo, Ecthyma; Dermatologic Disorders; Reactions to Sunlight*

**Donald Kaye, M.D.**

Professor and Chairman, Department of Medicine, Medical College of Pennsylvania

*Antimicrobial Chemotherapy*

**Thomas Killip, M.D.**

Professor of Medicine, Mount Sinai School of Medicine; Executive Vice President, Beth Israel Medical Center

*Heart Failure; Myocardial Ischemic Disorders*

**Eric P. Kindwall, M.D.**

Chief, Department of Hyperbaric Medicine, St. Luke's Hospital; Assistant Adjunct Clinical Professor of Pharmacology, Medical College of Wisconsin

*Hyperbaric Oxygen Therapy*

**James R. Klinenberg, M.D.**

Vice President for Professional Services, Cedars-Sinai Medical Center; Professor of Medicine, University of California, Los Angeles

*Progressive Systemic Sclerosis; Polymyositis/Dermatomyositis*

**Arthur E. Kopelman, M.D.**  
Professor of Neonatology, East Carolina University

*Perinatal Physiology; Parent-Infant Bonding: The Sick Neonate; Gestational Age and Birth Weight; Postmature Infant; Asphyxia and Resuscitation; Respiratory Disorders; Hematologic Problems; Metabolic Problems in the Newborn; Neonatal Pneumonia; Gastrointestinal Defects*

**Saul Krugman, M.D.**  
Professor of Pediatrics, New York University

*Prevention of Infection—Immunization Procedures for Adults; Immunization Procedures Throughout Childhood*

**Gary L. Lage, Ph.D.**  
Chairman, Department of Pharmacology and Toxicology and Professor of Toxicology, Philadelphia College of Pharmacy and Science

*Drug Toxicity*

**Lewis Landsberg, M.D.**  
Professor of Medicine, Harvard University; Chief, Division of Endocrinology and Metabolism, Beth Israel Hospital

*Multiple Endocrine Neoplasia Syndromes*

**Edward H. Lanphier, M.D.**  
Senior Scientist, Department of Preventive Medicine and Assistant Director for Research, The Biotron, University of Wisconsin

*Medical Aspects of Diving and Work in Compressed Air*

**Louis Lasagna, M.D.**  
Professor of Pharmacology and Psychiatry, Dean of Sackler School of Graduate Biomedical Sciences, and Dean for Academic Affairs of the School of Medicine, Tufts University

*Placebos*

**Daniel M. Laskin, D.D.S.**  
Professor and Chairman, Department of Oral and Maxillofacial Surgery and Director, Temporomandibular Joint and Facial Pain Research Center, Virginia Commonwealth University

*Temporomandibular Joint Disorders*

**Ruth A. Lawrence, M.D.**  
Professor of Pediatrics and of Obstetrics and Gynecology and Director, Poison Center, University of Rochester

*Management of the Normal Newborn—Initial Care; Complete Physical Examination; The First Few Days; Feeding; Hospital Accommodations; Infant Nutrition; Accidents and Poisonings*

**Chinh Trung Lê, M.D.**  
Chief, Pediatric Infectious Diseases, Kaiser Permanente Medical Center, Sacramento; Associate Clinical Professor, University of California, Davis

*Antimicrobial Therapy for Newborns; Neonatal Listriosis; Perinatal Tuberculosis*

**James B. Lee, M.D.**  
Professor of Medicine, State University of New York, Buffalo; Director, Division of Hypertension and Medical Director, Erie County Medical Center Skilled Nursing Facility

*Prostaglandins, Thromboxanes, and Leukotrienes*

**Harvey Lemont, D.P.M.**  
Chairman, Department of Medicine, Pennsylvania College of Podiatric Medicine; Clinical Associate Professor of Medicine, Department of Dermatology, Hahnemann University

*Common Foot Disorders*

**Roland A. Levandowski, M.D.**  
Assistant Professor of Medicine, University of Illinois, Chicago

*Respiratory Viral Diseases*

**Gerald S. Levey, M.D.**  
Professor and Chairman, Department of Medicine, University of Pittsburgh; Chief of Medicine, Presbyterian-University Hospital

*Thyroid; Congenital Goiters; Hypothyroidism; Hyperthyroidism*

**Daniel Levinson, M.D.**  
Associate Professor, Department of Family and Community Medicine, University of Arizona

*Medical Aspects of Air Travel*

**Robert I. Levy, M.D.**  
Professor of Medicine, Columbia University

*Anomalies in Lipid Metabolism*

**Edward B. Lewin, M.D.**  
Head, Division of Pediatric Infectious Disease, Henry Ford Hospital; Associate Clinical Professor of Pediatrics and Communicable Diseases, University of Michigan

*Neonatal Sepsis; Neonatal Meningitis; Fever of Unknown Origin in Children*



**Harold I. Lief, M.D.**

Professor of Psychiatry, University of Pennsylvania; Psychiatrist to the Pennsylvania Hospital

*Psychosexual Disorders; Disorders of Sexual Function; The Medical Examination of the Rape Victim; Gender Identity Disorder of Childhood*

**Mortimer B. Lipsett, M.D. (Deceased)**

Director, Clinical Center, National Institutes of Health; Professor of Medicine, Uniformed Services University of the Health Sciences

*The Testes; Precocious Puberty*

**Larry I. Lipshultz, M.D.**

Professor of Urology, Baylor College of Medicine  
*Infertility*

**Elliot M. Livstone, M.D.**  
Sarasota, Florida

*Neoplasms of the Bowel*

**Henry S. Loeb, M.D.**

Professor of Medicine, Loyola University; Program Director in Cardiology, VA Hospital, Hines  
*Shock*

**Mortimer Lorber, D.M.D., M.D.**

Associate Professor of Physiology and Biophysics, Georgetown University

*Dentistry in Medicine; Examination of the Oral Region*

**Robert G. Loudon, M.B., Ch.B.**

Professor of Medicine and Director, Pulmonary Disease Division, University of Cincinnati

*Approach to the Pulmonary Patient*

**Robert F. Mahler, M.D.**

Consultant in Diabetes; Clinical Research Centre, Northwick Park Hospital, Harrow, Middlesex, England

*Genetic Abnormalities of Carbohydrate Metabolism*

**Lois A. Maiman, Ph.D.**

Assistant Professor of Pediatrics, University of Rochester

*Special Considerations of Drug Treatment in Neonates, Infants, and Children—Compliance*

**Stephen E. Malawista, M.D.**

Professor of Medicine and Chief, Section of Rheumatology, Yale University

*Lyme Disease*

**S. Michael Marcy, M.D.**

Clinical Professor of Pediatrics, University of Southern California; Consultant, Los Angeles Children's Hospital; Staff Pediatrician, Kaiser Foundation Hospital

*Acute Infectious Neonatal Diarrhea*

**Alfonse T. Masi, M.D.**

Professor of Medicine and Epidemiology, University of Illinois, Peoria; University of Illinois School of Public Health

*Nonarticular Rheumatism; Regional Musculoskeletal Pain*

**Richard G. Masson, M.D.**

Chief, Pulmonary Medicine, Framingham Union Hospital; Associate Professor of Medicine, Boston University

*Pulmonary Function Tests*

**Alvin M. Masner, M.D.**

Professor of Medicine and Chief, Medical Oncology and Hematology, University of Tennessee, Memphis

*The Leukemias*

**Elizabeth McAnarney, M.D.**

Professor of Pediatrics and Chief, Division of General Pediatrics/Adolescent Medicine, University of Rochester

*Physical Conditions in Adolescence—Developmental Conditions; Teenage Pregnancy and Conception*

**Daniel J. McCarty, M.D.**

Will and Cava Ross Professor and Chairman, Department of Medicine, Medical College of Wisconsin

*Chondrocalcinosis*

**Kenneth L. McCormick, M.D.**

Associate Professor, Pediatric Endocrinology, University of Rochester

*Diabetes Mellitus in Children*

**J. Allen McCutchan, M.D.**

Associate Professor of Medicine, University of California, San Diego

*Sexually Transmitted Diseases; Congenital Syphilis*

**Donald S. McLaren, M.D., Ph.D., F.R.C.P.**

Reader in Clinical Nutrition, Department of Medicine, The Royal Infirmary, Edinburgh, Scotland

*Nutrition—General Considerations; Undernutrition; Vitamin Deficiency, Toxicity, and Dependency; Element Deficiency and Toxicity; Nutritional Disorders*