



英文影印版

GOLDMAN'S
CECIL
MEDICINE

西氏内科学

第24版

血液系统疾病分册

LEE GOLDMAN
ANDREW I. SCHAFER



北京大学医学出版社



GOLDMAN'S CECIL MEDICINE

24TH EDITION

西氏内科学

(第24版)

血液系统疾病分册

LEE GOLDMAN, MD

*Dean of the Faculties of Health Sciences and Medicine
Executive Vice President for Health and Biomedical Sciences
Harold and Margaret Hatch Professor of the University
Professor of Medicine and of Epidemiology
Columbia University
New York, New York*

ANDREW I. SCHAFER, MD

*Chairman, Department of Medicine
The E. Hugh Luckey Distinguished Professor of Medicine
Weill Cornell Medical College
Physician-in-Chief
New York-Presbyterian Hospital/Weill Cornell Medical Center
New York, New York*

长沙卫生职业学院图书馆



CW0066223

北京大学医学出版社

Peking University Medical Press

图书在版编目 (CIP) 数据

西氏内科学: 第 24 版. 血液系统疾病分册: 英文/
(美) 戈德曼 (Goldman, L.), (美) 谢弗 (Schafer, A. I.)
主编. —影印本. —北京: 北京大学医学出版社, 2012. 1
ISBN 978-7-5659-0320-5

I. ①西… II. ①戈…②谢… III. ①内科学-英文
②血液病-诊疗-英文 IV. ①R5

中国版本图书馆 CIP 数据核字 (2011) 第 254624 号

This edition of pages 1021 through 1162 of Goldman's Cecil Medicine, 24th Edition by Lee Goldman, Andrew I. Schafer is published by arrangement with Elsevier Inc.

ISBN-13: 978-1-4377-1604-7

ISBN-10: 1-4377-1604-0

Copyright © 2012 by Elsevier Inc. All rights reserved.

Copyright © 2012 by Elsevier (Singapore) Pte Ltd. All rights reserved.

Elsevier (Singapore) Pte Ltd.

3 Killiney Road #08-01 Winsland House I,
Singapore 239519

Tel: (65) 6349-0200

Fax: (65) 6733-1817

First Published 2012

2012 年初版

Printed in China by Peking University Medical Press under special arrangement with Elsevier (Singapore) Pte Ltd. This edition is authorized for sale in China only, excluding Hong Kong SAR and Taiwan. Unauthorized export of this edition is a violation of the Copyright Act. Violation of this Law is subject to Civil and Criminal Penalties.

本书英文影印版由 Elsevier (Singapore) Pte Ltd. 授权北京大学医学出版社在中国境内 (不包括香港特别行政区及台湾) 独家发行。本版仅限在中国境内 (不包括香港特别行政区及台湾) 出版及标价销售。未经许可之出口, 是为违反著作权法, 将受法律之制裁。

北京市版权局著作权合同登记号: 图字: 01-2011-6967

西氏内科学 (第 24 版) ——血液系统疾病分册

主 编: Lee Goldman, Andrew I. Schafer

出版发行: 北京大学医学出版社 (电话: 010-82802230)

地 址: (100191) 北京市海淀区学院路 38 号 北京大学医学部院内

网 址: <http://www.pumpress.com.cn>

E - mail: booksale@bjmu.edu.cn

印 刷: 北京画中画印刷有限公司

经 销: 新华书店

责任编辑: 冯智勇 责任印制: 张京生

开 本: 889mm×1194mm 1/16 印张: 9.75 字数: 468 千字

版 次: 2012 年 1 月第 1 版 2012 年 1 月第 1 次印刷

书 号: ISBN 978-7-5659-0320-5

定 价: 49.00 元

版权所有, 违者必究

(凡属质量问题请与本社发行部联系退换)

ASSOCIATE EDITORS

William P. Arend, MD

Distinguished Professor Emeritus
Arend Endowed Chair in Rheumatology
University of Colorado School of Medicine
Aurora, Colorado

James O. Armitage, MD

The Joe Shapiro Professor of Medicine
University of Nebraska College of Medicine
Section of Oncology and Hematology
University of Nebraska Medical Center
Omaha, Nebraska

David R. Clemmons, MD

Kenan Professor of Medicine
University of North Carolina at Chapel Hill School of Medicine
Chapel Hill, North Carolina

Jeffrey M. Drazen, MD

Distinguished Parker B. Francis Professor of Medicine
Harvard Medical School
Senior Physician
Division of Pulmonary and Critical Care Medicine
Brigham and Women's Hospital
Editor-in-Chief
New England Journal of Medicine
Boston, Massachusetts

Robert C. Griggs, MD, FAAN

Professor of Neurology, Medicine, Pediatrics, and Pathology and Laboratory
Medicine
University of Rochester School of Medicine and Dentistry
Rochester, New York

Donald W. Landry, MD, PhD

Samuel Bard Professor and Chair, Department of Medicine
Columbia University College of Physicians and Surgeons
New York, New York

Wendy Levinson, MD

Sir John and Lady Eaton Professor and Chair
Department of Medicine
University of Toronto
Toronto, Ontario, Canada

Anil K. Rustgi, MD

T. Grier Miller Professor of Medicine and Genetics
Chief of Gastroenterology
American Cancer Society Research Professor
University of Pennsylvania School of Medicine
Philadelphia, Pennsylvania

W. Michael Scheld, MD

Bayer-Gerald L. Mandell Professor of Infectious Diseases
Director
Pfizer Initiative in International Health
Department of Medicine
University of Virginia Health System
Charlottesville, Virginia

PREFACE

The 24TH Edition of *Goldman's Cecil Medicine* symbolizes a time of extraordinary advances in medicine and in technological innovations for the dissemination of information. This textbook and its associated electronic products incorporate the latest medical knowledge in formats that are designed to appeal to learners who prefer to access information in a variety of ways.

The contents of *Cecil* have remained true to the tradition of a comprehensive textbook of medicine that carefully explains the *why* (the underlying normal physiology and pathophysiology of disease, now at the cellular and molecular as well as the organ level) and the *how* (now frequently based on Grade A evidence from randomized controlled trials). Descriptions of physiology and pathophysiology include the latest genetic advances in a practical format that strives to be useful to the nonexpert. Medicine has entered an era when the acuity of illness and the limited time available to evaluate a patient have diminished the ability of physicians to satisfy their intellectual curiosity. As a result, the acquisition of information, quite easily achieved in this era, is often confused with knowledge. We have attempted to counteract this tendency with a textbook that not only informs but also stimulates new questions and gives a glimpse of the future path to new knowledge. Grade A evidence is specifically highlighted in the text and referenced at the end of each chapter. In addition to the information provided in the textbook, the Cecil website supplies expanded content and functionality. In many cases, the full articles referenced in each chapter can be accessed from the Cecil website. The website is also continuously updated to incorporate subsequent Grade A information, other evidence, and new discoveries.

The sections for each organ system begin with a chapter that summarizes an approach to patients with key symptoms, signs, or laboratory abnormalities associated with dysfunction of that organ system. As summarized in Table 1-1, the text specifically provides clear, concise information regarding how a physician should approach more than 100 common symptoms, signs, and laboratory abnormalities, usually with a flow diagram, a table, or both for easy reference. In this way, *Cecil* remains a comprehensive text to guide diagnosis and therapy, not only for patients with suspected or known diseases but also for patients who may have undiagnosed abnormalities that require an initial evaluation.

Just as each edition brings new authors, it also reminds us of our gratitude to past editors and authors. Previous editors of *Cecil Medicine* include a short but remarkably distinguished group of leaders of American medicine: Russell Cecil, Paul Beeson, Walsh McDermott, James Wyngaarden, Lloyd H. Smith, Jr., Fred Plum, J. Claude Bennett, and Dennis Ausiello. As we welcome new

associate editors—Wendy Levinson, Donald W. Landry, Anil Rustgi, and W. Michael Scheld—we also express our appreciation to Nicholas LaRusso and other associate editors from the previous editions on whose foundation we have built. Our returning associate editors—William P. Arend, James O. Armitage, David Clemmons, Jeffrey M. Drazen, and Robert C. Griggs—continue to make critical contributions to the selection of authors and the review and approval of all manuscripts. The editors, however, are fully responsible for the book as well as the integration among chapters.

The tradition of *Cecil Medicine* is that all chapters are written by distinguished experts in each field. We are also most grateful for the editorial assistance in New York of Theresa Considine and Silva Sergenian. These individuals and others in our offices have shown extraordinary dedication and equanimity in working with authors and editors to manage the unending flow of manuscripts, figures, and permissions. We also thank Faten Aberra, Reza Akari, Robert C. Brunham, Ivan Ciric, Seema Daulat, Gregory F. Erikson, Kevin Ghassemi, Jason H. Huang, Caron Jacobson, Lisa Kachnic, Bryan T. Kelly, Karen Krok, Heather Lehman, Keiron Leslie, Luis Marcos, Michael Overman, Eric Padron, Bianca Maria Piraccini, Don W. Powell, Katy Ralston, James M. Swain, Tania Thomas, Kirsten Tillisch, Ali Turabi, Mark Whiteford, and Y. Joseph Woo, who contributed to various chapters. At Elsevier, we are most indebted to Dolores Meloni and Linda McKinley, and also thank Cathy Carroll, Taylor Ball, Virginia Wilson, Linda Van Pelt, Suzanne Fannin, and Steve Stave, who have been critical to the planning and production process under the direction of Mary Gatsch. Many of the clinical photographs were supplied by Charles D. Forbes and William F. Jackson, authors of *Color Atlas and Text of Clinical Medicine*, Third Edition, published in 2003 by Elsevier Science Ltd. We thank them for graciously permitting us to include their pictures in our book. We have been exposed to remarkable physicians in our lifetimes and would like to acknowledge the mentorship and support of several of those who exemplify this paradigm—Robert H. Gifford, Lloyd H. Smith, Jr., Frank Gardner, and William Castle. Finally, we would like to thank the Goldman family—Jill, Jeff, Abigail, Mira, Daniel, and Robyn Goldman—and the Schafer family—Pauline, Eric, Pam, John, Evan, and Kate—for their understanding of the time and focus required to edit a book that attempts to sustain the tradition of our predecessors and to meet the needs of today's physician.

LEE GOLDMAN, MD
ANDREW I. SCHAFER, MD

CONTENTS

SECTION XIV: HEMATOLOGIC DISEASES

159 Hematopoiesis and Hematopoietic Growth Factors	1022	171 Approach to the Patient with Lymphadenopathy and Splenomegaly	1107
KENNETH KAUSHANSKY		JAMES O. ARMITAGE	
160 The Peripheral Blood Smear	1024	172 Disorders of Phagocyte Function	1111
BARBARA J. BAIN		MICHAEL GLOGAUER	
161 Approach to the Anemias	1031	173 Eosinophilic Syndromes	1118
H. FRANKLIN BUNN		MARC E. ROTHENBERG	
162 Microcytic and Hypochromic Anemias	1039	174 Approach to the Patient with Bleeding and Thrombosis	1121
GORDON D. GINDER		ANDREW I. SCHAFER	
163 Autoimmune and Intravascular Hemolytic Anemias	1045	175 Thrombocytopenia	1124
ROBERT S. SCHWARTZ		CHARLES S. ABRAMS	
164 Hemolytic Anemias: Red Cell Membrane and Metabolic Defects	1052	176 Von Willebrand Disease and Hemorrhagic Abnormalities of Platelet and Vascular Function	1131
PATRICK G. GALLAGHER		WILLIAM L. NICHOLS	
165 The Thalassemias	1060	177 Hemorrhagic Disorders: Coagulation Factor Deficiencies	1137
MARIA DOMENICA CAPPELLINI		MARGARET V. RAGNI	
166 Sickle Cell Disease and Other Hemoglobinopathies	1066	178 Hemorrhagic Disorders: Disseminated Intravascular Coagulation, Liver Failure, and Vitamin K Deficiency	1145
MARTIN H. STEINBERG		ANDREW I. SCHAFER	
167 Megaloblastic Anemias	1075	179 Thrombotic Disorders: Hypercoagulable States	1148
AŠOK C. ANTONY		ANDREW I. SCHAFER	
168 Aplastic Anemia and Related Bone Marrow Failure States	1083	180 Transfusion Medicine	1154
GROVER C. BAGBY		LAWRENCE T. GOODNOUGH	
169 Polycythemias, Essential Thrombocythemia, and Primary Myelofibrosis	1090	181 Hematopoietic Stem Cell Transplantation	1158
AYALEW TEFFERI		JULIE M. VOSE	
170 Leukocytosis and Leukopenia	1098		
NANCY BERLINER			

GOLDMAN'S CECIL MEDICINE

24TH
EDITION

LEE GOLDMAN, MD
ANDREW I. SCHAFER, MD

Ending arguments since 1927, Cecil is quite simply the **best place** to find all of the **definitive, state-of-the-art answers** you need to **understand, diagnose, and treat** any medical disorder you encounter in practice. In print, you'll find authoritative, unbiased, evidence-based clinical guidance from an expert team of editors...in a dynamic, masterfully organized format that delivers fast access to the actionable information you need.

- **Keep current with the latest knowledge and evidence-based practices.** Comprehensive updates throughout include a brand-new chapter on "Applications of Molecular Technologies to Clinical Medicine," a completely revamped section on infectious diseases, and coverage of the very latest cardiovascular techniques and treatments.
- **Be certain with expert, dependable, accurate answers** from Dr. Goldman and an editorial team that is a veritable "Who's Who" of modern medicine. All contributors are national or international authorities who are at the forefront of their respective subspecialty areas.
- **Simplify and expedite decision making** with practical, well-organized, templated chapters that include **evidence-ranked references** and **algorithms** to make clinically essential information leap right off the page.

西氏内科学

第24版

- 世界经典医学名著，被誉为“标准内科学参考书”
- 世界一流医学院校首选内科学教材，临床医生和医学生必备用书
- 全新改版，提供最新的内科学知识和循证实践内容
- 语言规范、地道，是学习专业英语的最佳教材

This edition is licensed for sale in China only, excluding Hong Kong SAR and Taiwan. This edition is not authorized or export outside this territory. Circulation of this edition outside this territory is unauthorized and illegal.

责任编辑：冯智勇



定价：49.00元