



BRAUNWALD 心脏病学

——心血管内科学教科书

BRAUNWALD'S HEART DISEASE
A TEXTBOOK OF CARDIOVASCULAR
MEDICINE

原著 Douglas P. Zipes Peter Libby
Robert O. Bonow Eugene Braunwald

主译 陈灏珠

第7版

507002

R541
8087(2)

BRAUNWALD 心脏病学

——心血管内科学教科书

BRAUNWALD'S HEART DISEASE
A TEXTBOOK OF CARDIOVASCULAR
MEDICINE

第7版

南京医科大学
图书馆藏书

原 著 Douglas P. Zipes Peter Libby

Robert O. Bonow Eugene Braunwald

主 译 陈灏珠

副主译 (按姓氏笔画排序)

王乐民 戎卫海 (常务) 孙宝贵 何 奔

吴宗贵 范维琥 荣烨之 胡婉英 倪幼方

徐济民 戚文航 魏 盟



人民卫生出版社

Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine, 7th edition

Douglas P. Zipes

Peter Libby

Robert O. Bonow

Eugene Braunwald

ISBN: 0-7216-0479-X

Copyright©2005 by Elsevier. All rights reserved.

Authorized English language reprint edition published by the Proprietor.

ISBN: 981-259-472-8

Copyright©2007 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 2007

2007年初版

Printed in China by People's Medical Publishing House 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.

本书简体中文版由人民卫生出版社与 Elsevier (Singapore) Pte Ltd. 在中国大陆境内合作出版。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,视为违反著作权法,将受法律之制裁。

图书在版编目(CIP)数据

心脏病学——心血管内科学教科书/陈灏珠主译. —2版.

—北京:人民卫生出版社,2007.8

ISBN 978-7-117-08650-9

I. 心… II. 陈… III. 心脏病学 IV. R541

中国版本图书馆CIP数据核字(2007)第052390号

图字: 01-2006-1235

心脏病学

——心血管内科学教科书

第2版

主 译: 陈灏珠

出版发行: 人民卫生出版社(中继线 010-67616688)

地 址: 北京市丰台区方庄芳群园3区3号楼

邮 编: 100078

网 址: <http://www.pmph.com>

E-mail: pmph@pmph.com

购书热线: 010-67605754 010-65264830

印 刷: 北京人卫印刷厂(尚艺)

经 销: 新华书店

开 本: 889×1194 1/16 印张: 128.75 字数: 5973千字

版 次: 1999年12月第1版 2007年8月第2版第6次印刷

标准书号: ISBN 978-7-117-08650-9/R·8651

定 价: 498.00元

版权所有,侵权必究,打击盗版举报电话: 010-87613394

(凡属印装质量问题请与本社销售部联系退换)

审校者名单

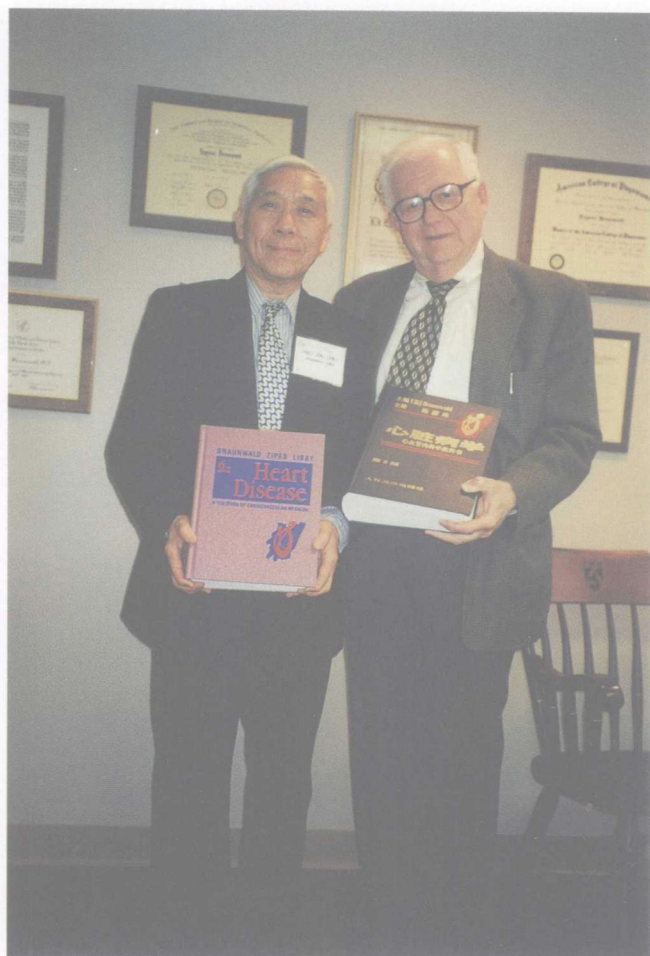
(按姓氏笔画排序)

王乐民	王肖龙	仇兴标	刘震	吕蓓	孙宝贵	朱承谟	何奔	何汝敏
吴立群	吴宗贵	张凤如	张代富	张瑞岩	沈钰如	陈颖敏	陈灏珠	周华
金玮	范维琥	施仲伟	胡健	胡婉英	荣烨之	倪幼方	徐济民	戚文航
舒先红	谢玉才	葛均波	魏盟					

译者名单

(按姓氏笔画排序)

卜军	卜丽萍	丁风华	马士新	山纓	王超	王芳	王飞	王涛
王洪如	王佳怡	王玲洁	王英杰	邓兵	刘辉	刘铭雅	刘彭年	刘诗珍
刘晓红	吕宝经	戎卫海	权薇薇	孙健	朱军	朱雯	朱承谟	朱彦琪
关韶峰	陈颖	陈书艳	杜奇容	来晏	陆秋芬	陆尚彪	陆志刚	沈伟
沈钰如	宋浩明	吴士尧	吴寿岭	吴永全	严轩高	严毓敏	应小盈	张路
张治	张国兵	张佳胤	张健元	张立颖	张庆勇	张亚臣	张亚文	张彦周
张一帆	李玫	李勇	李高平	李贵平	李红莉	李洪波	李京波	李毅刚
李月华	杭清宇	罗明	罗晓颖	杨龚	杨洁韵	杨震坤	赵亮	赵清
赵学	赵美华	郑兴	郑志峰	周菲	周俊	季强	费爱华	洪江
胡伟	高俊杰	顾刚	顾佳宁	顾水明	郭蔚	郭志福	钱菊英	徐瑾
徐慧芬	徐怡琼	徐迎佳	唐靖一	诸培佳	诸葛紫	秦晴	秦永文	倪唤春
桑震池	曹敏	崔洁	黄成磊	黄高忠	黄国倩	黄新苗	康瑜	梅运清
戚玮琳	章敏	董丽莉	舒先红	蔡建志	解玉水	蒋红丽	臧敏华	樊冰
樊民	潘晔生	薛金贵	戴锦杰	戴秋艳	魏盟			



本书主译陈灏珠院士在出席第22届北美心脏起搏和电生理学会学术年会期间,与本书主编——美国哈佛大学教授Dr. E. Braunwald 在其办公室互赠书籍

译者序

人民卫生出版社于1997年取得美国W. B. Saunders出版公司授权, 翻译出版该公司由美国哈佛大学医学院Eugene Braunwald教授主编, 于1997年出版的《心脏病学——心血管内科学教科书》第5版。人民卫生出版社约我组织翻译该书。经88位来自上海市兄弟医院同道共同参与, 于1998年9月全部译完, 出版社于1999年底出书, 2000年1月正式发行。出版以来本书受到我国读者的欢迎, 6年间重印了6次。2001年5月我和副主译戎卫海教授到美国波士顿市出席第22届北美心脏起搏和电生理学会学术年会期间, 拜访了Braunwald教授, 他在办公室里热情接待了我们, 我们将本书赠予他, 他也回赠我们当年出版的该书第6版。我们交谈融洽, 度过一段愉快的下午时光。

2005年该书第7版问世。此时书名依旧冠以Braunwald之名, Braunwald教授仍为主编之一, 但排名在最后; 主编中排名第一的是Douglas P. Zipes教授; 原出版该书的Saunders公司已并入Elsevier公司。显然, Braunwald教授已将编书的主要责任交给Zipes教授, 而出版公司已为Elsevier公司。2005年10月, 人民卫生出版社获得Elsevier公司的授权, 约我再次组织翻译该书。为此, 我于2005年11月再次约请上海市兄弟医院13位心脏病学专家共同安排分工进行译校。此次有123位同道参加翻译, 31位同道参加审校, 2006年5月起陆续交稿, 年底全部交齐。

与第5版比较, 该书第6版的内容已从5个部分63章增加到8个部分72章, 而第7版新书则再增至10个部分87章, 可见编者对该书内容作了大量的调整、修订、更新和补充。该书的第一部分在上一版两章的基础上, 增加了“心脏病学临床决定的作出”、“心血管病服务质量的评价和改进”、“药物治疗的原理”、“终末期心脏病病人的照料”等4章。第二部分将原来磁共振显像和计算机X线断层显像的内容分列成两章。第三部分标题被改为“心力衰竭”, 单独阐述有关心力衰竭的内容。第四部分将上一版原列入第三部分的心律失常内容, 在“心律失常、猝死和昏厥”的标题下阐述, 并增加“心律失常的基因学”、“心律失常的诊断”两章。第五部分为上一版第四部分的内容“预防心脏病学”, 增加了“脂蛋白失调和心血管病”、“糖尿病、代谢综合征和动脉粥样硬化性心血管病”、“营养和心血管病”三章。第六部分改标题为“动脉粥样硬化性心血管病”, 增加“胸痛病人的探讨”一章, 原来心肌梗死一章分为“ST段抬高性心肌梗死的病理、病理生理和临床表现”和“ST段抬高性心肌梗死的处理”两章, 原来不稳定型心绞痛一章改为“不稳定型心绞痛和非ST段抬高性心肌梗死”, 并将上一版第八部分“糖尿病和心脏病”一章移置于本篇之内。第七部分为上一版第五部分的内容, 标题仍为“心脏、心包和肺血管床疾病”, 其中儿童和成人的先心病和瓣膜病四章合并为两章, 原来心肌病和心肌炎一章, 分成“心肌病”和“心肌炎”两章, 将上一版第八部分的“艾滋病的心血管异常”一章置于本篇之内, 增加“毒素和心脏”、“睡眠疾病和心血管病”两章, 而删去“肺心病”这一章。第八部分为上一版第六部分分子生物学和基因学的内容, 增加了“心肌再生”一章。第九部分为上一版第七部分特殊人群的心血管病内容, 并将上一版第八部分“妊娠和心血管病”一章置于本篇之内, 还增加“不同人群的心脏病”一章。第十部分为上一版第八部分(心血管病和其他脏器的疾病)内容, 增加了“自律神经障碍的心血管表现”一章。此外, 在16个章中提供了现行诊断指南的纲要。

上述所列本版内容的变动, 体现了近年心血管病学的进展, 也体现主编者一如既往为读者提供服务、帮助工作繁忙的科学家和临床医学家快速跟上心血管病诊疗的现代进展、提高为病人服务质量的愿望。主编者还提到就目前新版书出版的周期而言, 不能期望书中内容能完全跟上用难以置信的速度进展的最新研究潮流。

对本版的翻译, 我们努力以最快的速度完成, 以期尽快为读者提供新的信息。由于时间的匆促, 难免有错漏之处, 望读者一如既往, 惠予指正为幸。

陈灏珠

2006年11月于
复旦大学附属中山医院
上海市心血管病研究所

前言

上一版(第6版)《心脏病学》的前言是这样开始的:“自第5版《心脏病学——心血管内科学教科书》出版以来,心脏病学的加速发展使得这次修订需要比过去任何一次修订作出最为广泛的改动。”这一陈述在本版的修订更要加以强调。新知识典型的增长曲线从未像现在这般陡峻,《心脏病学——心血管内科学教科书》第7版正为应对这一挑战而作贡献。

书内各页均为彩色套印,以增强对读者的吸引力,并使图和影像更真实和更易理解。

本版书中内容已全面升级。全书有表569张和图1503幅。正如所期望的那样,第6版中所有被保留在现版中的51章,其内容已被彻底修订和更新。此外增加了36个新章,其题目的范围包括从“心脏病学临床决定的作出”到“自律神经障碍的心血管表现”。有57位新作者参加编写。因此,以科学发展动态信息服务作为本书知识活力基础的理念在本版得以保留并加强。文献的引用一般限于1998年或以后发表者,从而避免文献引用过多,浪费宝贵的页面却并不提供新的有用的资料。较早期的文献可从综述文章引用中和过去各版书中看到。我们继续提供对基础疾病情况基本机制的阐述,但也强调对有这些问题的患者进行诊断和治疗的实践,以及为方便读者而提供现行诊治指南的纲要。

本书第一部分包括心血管病的总论,有心血管病的全球负荷、经济与心血管病、心脏病学临床决定的作出、心血管病服务质量的评价和改进、药物治疗的原理以及终末期心脏病患者的照料等章。

本书第二部分继承上一版的传统,强调病史和体格检查、心电图、运动负荷试验和超声心动图。然而,由于认识到新的显像技术的重要性,本部分包括有关心脏和大血管放射学、核心脏病学、MRI、CT、心脏导管术、冠状动脉造影、血管内超声显像等各章,还有一章罗列不同的影像模式做比较,并对其前景作出展望。

心力衰竭已经显现出成为心脏病学的最重要问题的趋势,如在第三部分所反映包含关于了解心脏收缩的机制、心功能的评价、心力衰竭的病理生理及其临床方面等章,还有关于药理学治疗的两章和关于辅助循环,以及心脏移植等章。

美国所有死亡者中几乎1/4是由于猝死,最常见的原因是心律失常,第四部分是有关这方面的内容。从心律失常的发生开始,我们有一新的章阐述遗传学与心律失常以及它愈来愈显著的重要性,然后继以诊断、治疗、起搏器和除颤器、特殊的心律失常、心脏骤停和晕厥等章。

预防心脏病学是心脏病学家重要任务中的一个方面,我们在第五部分提供众多的内容,包括动脉粥样硬化发生的生物学、危险因素、高血压(两章)、脂蛋白异常、糖尿病、营养、冠心病的预防和康复。鉴于糖尿病在心脏病学的实践中愈来愈重要,本版现以一个新章阐述此常见疾病的血管并发症。

第六部分为冠心病篇,这是在发达国家中最常见的心脏病。包括了解冠脉血流和心肌缺血、胸痛患者的诊查、ST段抬高型心肌梗死的临床表现和处理、心肌梗死的经皮冠脉介入治疗、不稳定型心绞痛和非ST段抬高型心肌梗死、慢性冠状动脉病、糖尿病和心脏病、经皮冠状动脉和瓣膜介入治疗、主动脉病、周围血管病、非冠状动脉的阻塞性血管病的血管内治疗。

本书其余部分阐述了一些较不常见但仍很重要的问题。第七部分包括先天性心脏病、瓣膜性心脏病、感染性心内膜炎、心肌病、心肌炎、艾滋病与心脏、毒素、原发性心脏肿瘤、心包病、创伤性心脏病、肺栓塞和肺动脉高压和睡眠性疾病等内容。第八部分聚焦于生物学和遗传学方面,包括内科医师需要的分子生物学总的原理、遗传学和心肌的再生等。

第九部分聚焦于患心血管病的特殊人群,包括老年患者、妇女、怀孕的患者、运动员、进行心脏和非心脏手术的患者、属于不同群体的患者等。第十部分填补留下的空白,包括心血管病与其他脏器疾病如内分泌病、血液病、风湿热和风湿病、肿瘤性疾病、行为情况、神经疾病、肾脏疾病和自律神经功能障碍等。

最后,感谢你们,从医学生到技术高超的临床医学家的读者们,感谢你们多年来对本书的支持。感谢我们的患者,您们是我们能做出这样的努力,向心血管病学专家提供有意义的教育的推动力。

Douglas P. Zipes

Peter Libby

Robert O. Bonow

Eugene Braunwald

2004

(陈灏珠 译)

第1版前言

心血管病为折磨工业化国家人口的最大祸患，与过去的腺鼠疫、黄热病和天花一样，不仅使人口中重要的一部分突然死亡，而且还使为数更多的人长期受难和失健。仅就美国而言，虽然最近心血管病有令人鼓舞的减少，但它仍要对每年几乎 100 万人的死亡和人口死亡总数的一半以上负责。每年有几乎 500 万人因心血管病而住院。从患者的痛苦和物质损耗的角度看，心血管病造成的损失几乎无法计算。幸而，致力于心脏病病因、诊断、治疗和预防的研究在迅速地进展。

为了能够为广而深的心血管内科学领域提供一本内容更为广泛且权威的教科书，我邀请我的一些精干的同事参加编写。但我希望我个人参与编写的内容约占全书的一半，这样可以使它作为一本多作者编写的教科书所可能存在的不完整性、缺漏现象、前后矛盾、组稿上的困难和笔调不统一等缺点减少到最低限度。

自 20 世纪早期开始，临床心血管病学已有很强的基础学科、生理和药理学基础。近年，分子生物学、遗传学、进展生物学、生物物理学、生物化学、实验病理学和生物工程学的原理已开始对心脏的正常和异常功能研究提供极为重要的信息。虽然本书基本上是临床论述而非心血管学科的基础教科书，但也较为详细地解释了心血管病的科学基础。

Eugene Braunwald

1980

(陈灏珠 译)

编者名单

Stephan Achenbach, MD

Assistant Professor of Medicine and Cardiology, Friedrich-Alexander University School of Medicine; Staff Cardiologist, Division of Cardiology, Department of Medicine, University Hospital Erlangen, Erlangen, Germany
Computed Tomography of the Heart

David H. Adams, MD

Marie-Josée and Henry R. Kravis Professor and Chair, Department of Cardiothoracic Surgery, Mount Sinai Medical Center, New York, New York
Medical Management of the Patient Undergoing Cardiac Surgery

Elliott M. Antman, MD

Professor of Medicine, Harvard Medical School; Director, Samuel A. Levine Cardiac Unit, Brigham and Women's Hospital, Boston, Massachusetts
ST-Elevation Myocardial Infarction: Pathology, Pathophysiology, and Clinical Features; ST-Elevation Myocardial Infarction: Management; Medical Management of the Patient Undergoing Cardiac Surgery

Karen Antman, MD

Deputy Director for Translational and Clinical Sciences, National Cancer Institute, National Institutes of Health, Bethesda, Maryland
The Patient with Cardiovascular Disease and Cancer

Piero Anversa, MD

Professor, Department of Medicine, Cardiovascular Research Institute, New York Medical College, Valhalla, New York
Myocardial Regeneration

William F. Armstrong, MD

Professor of Medicine, University of Michigan; Associate Clinical Chief, Division of Cardiology, Associate Chair, Department of Internal Medicine, University of Michigan Health System, Ann Arbor, Michigan
Echocardiography

Donald S. Baim, MD

Professor of Medicine, Harvard Medical School; Director, Center for Integration of Medicine and Innovative Technology, Partners Healthcare System and Brigham and Women's Hospital, Boston, Massachusetts
Percutaneous Coronary and Valvular Intervention

Leora B. Balsam, MD

Resident in Surgery, Department of Surgery, Stanford University School of Medicine, Stanford, California
Heart Transplantation

Arthur J. Barsky, MD

Professor of Psychiatry, Harvard Medical School; Director, Psychiatric Research, Brigham and Women's Hospital, Boston, Massachusetts
Psychiatric and Behavioral Aspects of Cardiovascular Disease

Kenneth Lee Baughman, MD

Professor of Medicine, Harvard Medical School; Director, Advanced Heart Disease Section, Brigham and Women's Hospital, Boston, Massachusetts
Myocarditis

Joshua A. Beckman, MS, MD

Assistant Professor of Medicine, Harvard Medical School; Associate Physician, Cardiovascular Division, Brigham and Women's Hospital, Boston, Massachusetts
Diabetes Mellitus, the Metabolic Syndrome, and Atherosclerotic Vascular Disease

George A. Beller, MD

Ruth C. Heede Professor of Cardiology and Professor of Medicine, University of Virginia School of Medicine; Department of Internal Medicine, Cardiovascular Division, University of Virginia Health System, Charlottesville, Virginia
Relative Merits of Cardiac Diagnostic Techniques

Michael A. Bettman, MD

Professor of Radiology, Dartmouth Medical School, Hanover, New Hampshire
The Chest Radiograph in Cardiovascular Disease

Robert O. Bonow, MD

Goldberg Distinguished Professor of Cardiology, Northwestern University Feinberg School of Medicine; Chief, Division of Cardiology, Northwestern Memorial Hospital, Chicago, Illinois
Care of Patients with End-Stage Heart Disease; Nuclear Cardiology; Cardiac Catheterization; Valvular Heart Disease

Eugene Braunwald, MD, MD (Hon), ScD (Hon), FRCP

Distinguished Hersey Professor of Medicine, Harvard Medical School; Chairman, TIMI Study Group, Brigham and Women's Hospital, Boston, Massachusetts
The History; Physical Examination of the Heart and Circulation; Pathophysiology of Heart Failure; Clinical Aspects of Heart Failure; Pulmonary Edema, High-Output Failure; ST-Elevation Myocardial Infarction: Pathology, Pathophysiology, and Clinical Features; Unstable Angina and Non-ST Elevation Myocardial Infarction; Chronic Coronary Artery Disease; Valvular Heart Disease; The Cardiomyopathies

Michael R. Bristow, MD, PhD

Professor of Medicine and Head, Division of Cardiology, University of Colorado Health Sciences Center, Denver, Colorado
Drugs in the Treatment of Heart Failure; Management of Heart Failure

Hugh Calkins, MD, FACC, FAHA

Professor of Medicine, Johns Hopkins University School of Medicine; Director, Arrhythmia Service and Clinical Electrophysiology Laboratory, Johns Hopkins Hospital, Baltimore, Maryland
Hypotension and Syncope

Christopher P. Cannon, MD

Associate Professor of Medicine, Harvard Medical School; Senior Investigator, TIMI Study Group, Cardiovascular Division, Brigham and Women's Hospital, Boston, Massachusetts

Approach to the Patient with Chest Pain; Unstable Angina and Non-ST Elevation Myocardial Infarction

John D. Carroll, MD

Professor of Medicine, Division of Cardiology, University of Colorado Health Sciences Center; Director, Cardiac and Vascular Center and Director, Interventional Cardiology, University of Colorado Hospital, Denver, Colorado

Assessment of Normal and Abnormal Cardiac Function

Agustin Castellanos, MD

Professor of Medicine, University of Miami School of Medicine; Director, Clinical Electrophysiology, University of Miami/Jackson Memorial Medical Center, Miami, Florida

Cardiac Arrest and Sudden Cardiac Death

Bernard R. Chaitman, MD

Professor of Medicine and Director, Cardiovascular Research, St. Louis University School of Medicine, St. Louis, Missouri

Exercise Stress Testing

Jonathan M. Chen, MD

Assistant Professor of Surgery, Columbia University College of Physicians and Surgeons; Attending Surgeon, New York Presbyterian Hospital, New York, New York

Assisted Circulation in the Treatment of Heart Failure

Wilson S. Colucci, MD, FACC

Thomas J. Ryan Professor of Medicine; Professor of Physiology; Director, Myocardial Biology Unit, Boston University School of Medicine; Chief, Cardiovascular Medicine, Boston Medical Center, Boston, Massachusetts

Pathophysiology of Heart Failure; Clinical Aspects of Heart Failure; Pulmonary Edema, High-Output Failure; Primary Tumors of the Heart

Mark A. Creager, MD

Professor of Medicine, Harvard Medical School; Director, Vascular Center; Simon C. Fireman Scholar in Cardiovascular Medicine, Brigham and Women's Hospital, Boston, Massachusetts

Diabetes Mellitus, the Metabolic Syndrome, and Atherosclerotic Vascular Disease; Peripheral Arterial Diseases

Adnan S. Dajani, MD

Professor Emeritus of Pediatrics, Wayne State University School of Medicine; Director Emeritus, Division of Infectious Diseases, Children's Hospital of Michigan, Detroit, Michigan

Rheumatic Fever

Werner G. Daniel, MD

Professor of Medicine and Cardiology, Friedrich-Alexander School of Medicine; Division of Cardiology, Department of Medicine, University Hospital Erlangen, Erlangen, Germany

Computed Tomography of the Heart

Charles J. Davidson, MD

Professor of Medicine, Northwestern University Feinberg School of Medicine; Chief, Cardiac Catheterization Laboratories, Northwestern Memorial Hospital, Chicago, Illinois

Cardiac Catheterization

Vasken Dilsizian, MD

Professor of Medicine and Radiology, University of Maryland School of Medicine; Director of Cardiovascular Nuclear Medicine and Cardiac Positron Emission Tomography, University of Maryland Medical Center, Baltimore, Maryland

Nuclear Cardiology

Pamela S. Douglas, MD

Ursula Geller Professor of Medicine, Chief, Cardiovascular Medicine, Duke University Medical Center, Durham, North Carolina

Cardiovascular Disease in Women

Kim A. Eagle, MD

Albion Walter Hewlett Professor of Internal Medicine; Chief, Clinical Cardiology; Clinical Director, Cardiovascular Center, University of Michigan Health System, Ann Arbor, Michigan

Anesthesia and Noncardiac Surgery in Patients with Heart Disease

Andrew C. Eisenhauer, MD

Assistant Professor of Medicine and Radiology, Harvard Medical School; Director, Interventional Cardiovascular Medicine Service, Brigham and Women's Hospital, Boston, Massachusetts

Endovascular Treatment of Noncoronary Obstructive Vascular Disease

Uri Elkayam, MD

Professor of Medicine, University of Southern California Keck School of Medicine, Los Angeles, California

Pregnancy and Cardiovascular Disease

Linda L. Emanuel, MD, PhD

Buehler Professor of Geriatric Medicine and Director, Buehler Center of Aging, Northwestern University Feinberg School of Medicine, Chicago, Illinois

Care of Patients with End-Stage Heart Disease

Anthony L. Estrera, MD

Assistant Professor of Cardiothoracic and Vascular Surgery, University of Texas Health Science Center, Houston, Texas

Traumatic Heart Disease

Farzan Filsoofi, MD

Assistant Professor of Cardiothoracic Surgery, Mount Sinai School of Medicine, New York, New York

Medical Management of the Patient Undergoing Cardiac Surgery

Stacy D. Fisher, MD

Department of Cardiology, Sinai Hospital of Baltimore, Johns Hopkins University; Mid-Atlantic Cardiovascular Associates, Baltimore, Maryland

Cardiovascular Abnormalities in HIV-Infected Individuals

Lee A. Fleisher, MD, FACC

Professor of Anesthesia and Medicine, University of Pennsylvania School of Medicine; Chair, Department of Anesthesia, University of Pennsylvania Health System, Philadelphia, Pennsylvania
Anesthesia and Noncardiac Surgery in Patients with Heart Disease

J. Michael Gaziano, MD, MPH

Associate Professor of Medicine, Harvard Medical School; Chief, Division of Aging, Brigham and Women's Hospital; Director, Massachusetts Veterans Epidemiology and Research Information Center (MAVERIC), Boston VA Healthcare Systems, Boston, Massachusetts
Global Burden of Cardiovascular Disease; Primary and Secondary Prevention of Coronary Heart Disease

Jacques Genest, MD

Professor of Medicine, McGill University; Chief, Cardiology, McGill University Medical Center, Montréal, Québec, Canada
Lipoprotein Disorders and Cardiovascular Disease

Bernard J. Gersh, MD, DPhil, FRCP

Professor of Medicine, Mayo College of Medicine; Consultant, Division of Cardiovascular Diseases, Mayo Clinic, Rochester, Minnesota
Chronic Coronary Artery Disease

Michael M. Givertz, MD

Assistant Professor of Medicine, Harvard Medical School; Co-Director, Cardiomyopathy and Heart Failure Program, Brigham and Women's Hospital, Boston, Massachusetts
Clinical Aspects of Heart Failure; Pulmonary Edema, High-Output Failure

Ary L. Goldberger, MD

Associate Professor of Medicine, Harvard Medical School; Director, Margret and H. A. Rey Laboratory for Nonlinear Dynamics in Physiology and Medicine, Beth Israel Deaconess Medical Center, Boston, Massachusetts
Electrocardiography

Samuel Z. Goldhaber, MD

Associate Professor of Medicine, Harvard Medical School; Staff Cardiologist and Director, Venous Thromboembolism Research Group; Director, Anticoagulation Service, Brigham and Women's Hospital, Boston, Massachusetts
Pulmonary Embolism

Antonio M. Gotto, Jr., MD, DPhil

Stephen and Suzanne Weiss Dean, Provost for Medical Affairs, Professor of Medicine, Weill Medical College of Cornell University, New York, New York
Lipoprotein Disorders and Cardiovascular Disease

William J. Groh, MD, MPH

Associate Professor of Medicine, Indiana University School of Medicine, Indianapolis, Indiana
Neurological Disorders and Cardiovascular Disease

David L. Hayes, MD

Professor of Medicine, Mayo Medical School, Mayo Clinic College of Medicine; Chair, Division of Cardiovascular Diseases and Internal Medicine, Mayo Clinic, Rochester, Minnesota
Cardiac Pacemakers and Cardioverter-Defibrillators

Otto M. Hess, MD

Professor of Cardiology, Swiss Cardiovascular Center, University Hospital, Bern, Switzerland
Assessment of Normal and Abnormal Cardiac Function

L. David Hillis, MD

Professor and Vice Chair, Department of Medicine; James M. Wooten Chair in Cardiology, University of Texas Southwestern Medical Center, Dallas, Texas
Toxins and the Heart

Mark A. Hlatky, MD

Professor of Health Research and Policy and Professor of Cardiovascular Medicine, Stanford University School of Medicine; Attending Physician, Stanford University Medical Center, Stanford, California
Economics and Cardiovascular Disease

Gary S. Hoffman, MS, MD

Professor of Medicine, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University; Professor of Medicine and Harold C. Schott Chair of Rheumatic and Immunologic Diseases; Director, Center for Vasculitis Care and Research, Cleveland Clinic, Cleveland, Ohio
Rheumatic Diseases and the Cardiovascular System

David R. Holmes, Jr., MD

Professor of Medicine, Mayo Clinic College of Medicine; Consultant, Mayo Clinic Saint Marys Hospital, Rochester, Minnesota
Primary Percutaneous Coronary Intervention in the Management of Acute Myocardial Infarction

Sharon A. Hunt, MD

Professor of Cardiovascular Medicine, Stanford University Medical Center, Stanford, California
Heart Transplantation

Eric M. Isselbacher, MD

Assistant Professor of Medicine, Harvard Medical School; Co-Director, Thoracic Aortic Center, Director, Cardiac Unit Associates, Massachusetts General Hospital, Boston, Massachusetts
Diseases of the Aorta

Samer Kabbani, MD

Assistant Professor of Medicine, University of Vermont College of Medicine; Attending Cardiologist, Fletcher Allen Health Care, Burlington, Vermont
Pericardial Diseases

Norman M. Kaplan, MD

Clinical Professor of Internal Medicine, University of Texas Southwestern Medical Center, Dallas, Texas
Systemic Hypertension: Mechanisms and Diagnosis; Systemic Hypertension: Therapy

Adolf W. Karchmer, MD

Professor of Medicine, Harvard Medical School; Chief, Division of Infectious Diseases, Beth Israel Deaconess Medical Center, Boston, Massachusetts
Infective Endocarditis

Morton J. Kern, MD

Professor of Medicine, Saint Louis University School of Medicine; Director, Cardiac Catheterization Laboratory, Saint Louis University Hospital, St. Louis, Missouri
Coronary Blood Flow and Myocardial Ischemia

Irwin Klein, MD

Professor of Medicine, New York University School of Medicine, New York, New York; Chief, Division of Endocrinology, North Shore University Hospital, Manhasset, New York
Endocrine Disorders and Cardiovascular Disease

Barbara A. Konkle, MD

Associate Professor of Medicine and of Pathology and Laboratory Medicine; Director, Penn Comprehensive Hemophilia and Thrombosis Program, University of Pennsylvania School of Medicine and Health System, Philadelphia, Pennsylvania
Hemostasis, Thrombosis, Fibrinolysis, and Cardiovascular Disease

Peter C. Kouretas, MD, PhD

Cardiothoracic Transplantation Fellow, Department of Cardiothoracic Surgery, Stanford University School of Medicine; Staff Physician and Clinical Instructor, Stanford University Hospital, Stanford, California
Heart Transplantation

Ronald M. Krauss, MD

Adjunct Professor, Department of Nutritional Sciences, University of California, Berkeley, Berkeley, California; Senior Scientist and Director, Atherosclerosis Research, Children's Hospital Oakland Research Institute, Oakland, California
Nutrition and Cardiovascular Disease

Meir H. Kryger, MD, FRCPC

Professor of Medicine, University of Manitoba Department of Medicine; Director, Sleep Disorders Centre, St. Boniface Hospital Research Centre, Winnipeg, Manitoba, Canada
Sleep Disorders and Cardiovascular Disease

Richard E. Kuntz, MD

Associate Professor of Medicine and Chief, Division of Clinical Biometrics, Harvard Medical School, Boston, Massachusetts
Percutaneous Coronary and Valvular Intervention

Gary E. Lane, MD

Assistant Professor, Mayo Medical School; Director, Cardiac Catheterization Laboratory, Mayo Clinic St. Luke's Hospital, Jacksonville, Florida
Primary Percutaneous Coronary Intervention in the Management of Acute Myocardial Infarction

Richard A. Lange, MD

Professor of Medicine and E. Cowles Andrus Professor of Cardiology, Johns Hopkins University School of Medicine, Baltimore, Maryland
Toxins and the Heart

Thomas H. Lee, MSc, MD

Professor of Medicine, Harvard Medical School; Network President, Partners Healthcare System, Boston, Massachusetts
Measurement and Improvement of Quality of Cardiovascular Care; Guidelines: Electrocardiography; Guidelines: Exercise Stress Testing; Guidelines: Use of Echocardiography; Guidelines: Nuclear Cardiology; Guidelines: Management of Heart Failure; Guidelines: Ambulatory Electrocardiography and Electrophysiological Testing; Guidelines: Cardiac Pacemakers and Cardioverter-Defibrillators; Guidelines: Treatment of Hypertension; Approach to the Patient with Chest Pain; Guidelines: Primary Percutaneous Coronary Intervention in Acute Myocardial Infarction; Guidelines: Unstable Angina; Guidelines: Chronic Stable Angina; Guidelines: Percutaneous Coronary and Valvular Intervention; Guidelines: Management of Valvular Heart Disease; Guidelines: Infective Endocarditis; Guidelines: Pregnancy; Guidelines: Reducing Cardiac Risk with Noncardiac Surgery

Annarosa Leri, MD

Associate Professor, Department of Medicine, Cardiovascular Research Institute, New York Medical College, Valhalla, New York
Myocardial Regeneration

Martin M. LeWinter, MD

Professor of Medicine and of Molecular Physiology and Biophysics, University of Vermont College of Medicine; Director, Heart Failure Program, Fletcher Allen Health Care, Burlington, Vermont
Pericardial Diseases

Peter Libby, MD

Mallinckrodt Professor of Medicine, Harvard Medical School; Chief, Cardiovascular Division, Brigham and Women's Hospital, Boston, Massachusetts
The Vascular Biology of Atherosclerosis; Risk Factors for Atherothrombotic Disease; Lipoprotein Disorders and Cardiovascular Disease; Diabetes Mellitus, the Metabolic Syndrome, and Atherosclerotic Vascular Disease; Peripheral Arterial Diseases

Stuart Linas, MD

Professor of Medicine, University of Colorado Health Sciences Center; Chief, Nephrology, Denver Health, Denver, Colorado
Drugs in the Treatment of Heart Failure

Steven E. Lipshultz, MD

Professor and Chair, Department of Pediatrics; Professor of Medicine and of Epidemiology and Public Health, University of Miami School of Medicine; Chief of Staff, Holtz Children's Hospital of the University of Miami-Jackson Memorial Medical Center, Miami, Florida
Cardiovascular Abnormalities in HIV-Infected Individuals

Brian D. Lowes, MD

Associate Professor of Medicine, University of Colorado Health Sciences Center; Director, Heart Failure Program, University Hospital, Denver, Colorado
Management of Heart Failure

Brian F. Mandell, MD, PhD

Professor of Medicine, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University; Vice Chair of Medicine for Education, Cleveland Clinic, Cleveland, Ohio
Rheumatic Diseases and the Cardiovascular System

JoAnn E. Manson, MD, DrPH

Professor of Medicine and Elizabeth F. Brigham Professor of Women's Health, Harvard Medical School; Chief, Division of Preventive Medicine, Co-Director, Connors Center for Women's Health and Gender Biology, Brigham and Women's Hospital, Boston, Massachusetts
Primary and Secondary Prevention of Coronary Heart Disease

Daniel B. Mark, MD, MPH

Professor of Medicine, Duke University Medical Center; Director, Outcomes Research, Duke Clinical Research Institute, Durham, North Carolina
Economics and Cardiovascular Disease

Andrew R. Marks, MD

Professor and Chair, Department of Physiology and Cellular Biophysics; Professor of Medicine; Clyde and Helen Wu Professor of Molecular Cardiology, Columbia University College of Physicians and Surgeons
The Patient with Cardiovascular Disease and Cancer

Barry J. Maron, MD

Director, Hypertrophic Cardiomyopathy Center, Minneapolis Heart Institute Foundation, Minneapolis, Minnesota; Adjunct Professor of Medicine, Tufts University School of Medicine, Boston, Massachusetts
Cardiovascular Disease in Athletes

Kenneth L. Mattox, MD

Professor and Vice Chair, Michael E. DeBakey Department of Surgery, Baylor College of Medicine; Chief of Surgery Service and Chief of Staff, Ben Taub General Hospital, Houston, Texas
Traumatic Heart Disease

Peter A. McCullough, MD, MPH

Consultant Cardiologist and Chief, Division of Nutrition and Preventive Medicine, William Beaumont Hospital, Royal Oak, Michigan
Interface Between Renal Disease and Cardiovascular Illness

Vallerie V. McLaughlin, MD

Associate Professor of Medicine and Director, Pulmonary Hypertension Program, University of Michigan Health System, Ann Arbor, Michigan
Pulmonary Hypertension

John M. Miller, MD

Professor of Medicine, Indiana University School of Medicine; Director, Clinical Cardiac Electrophysiology, Clarian Health System, Indianapolis, Indiana
Diagnosis of Cardiac Arrhythmias; Therapy for Cardiac Arrhythmias

David M. Mirvis, MD

Professor and Director, Center for Health Services Research, University of Tennessee, Memphis, Tennessee
Electrocardiography

David A. Morrow, MD, MPH

Assistant Professor of Medicine, Harvard Medical School; Associate Physician, Brigham and Women's Hospital, Boston, Massachusetts
Chronic Coronary Artery Disease

Robert J. Myerburg, MD

Professor of Medicine and Physiology, University of Miami School of Medicine; Director, Division of Cardiology, University of Miami-Jackson Memorial Hospital, Miami, Florida
Cardiac Arrest and Sudden Cardiac Death

Elizabeth G. Nabel, MD

Scientific Director, National Heart, Lung, and Blood Institute, National Institutes of Health, Bethesda, Maryland
Principles of Cardiovascular Molecular Biology and Genetics

Yoshifumi Naka, MD, PhD

Herbert Irving Assistant Professor of Surgery, Division of Cardiothoracic Surgery, Columbia University College of Physicians and Surgeons; Adjunct Assistant Professor of Cardiothoracic Surgery, Cornell University Weill Medical College; Director, Cardiac Transplantation and Mechanical Circulatory Support Program, Division of Cardiothoracic Surgery, New York Presbyterian Hospital, New York, New York
Assisted Circulation in the Treatment of Heart Failure

Carlo Napolitano, MD, PhD

Senior Scientist, Molecular Cardiology Laboratories, IRCCS Fondazione S. Maugeri, Pavia, Italy
Genetics of Cardiac Arrhythmias

Richard W. Nesto, MD

Associate Professor of Medicine, Harvard Medical School, Boston; Chair, Department of Cardiovascular Medicine, Lahey Clinic Medical Center, Burlington, Massachusetts
Diabetes and Heart Disease

Jeffrey E. Olgin, MD

Associate Professor in Residence and Chief, Cardiac Electrophysiology, University of California, San Francisco, School of Medicine, San Francisco, California
Specific Arrhythmias: Diagnosis and Treatment

Lionel H. Opie, MD, DPhil, DSc, MD (Hon)

Director, Hatter Institute and Cape Heart Center, Faculty of Health Sciences, University of Cape Town; Senior Physician, Department of Medicine, Groote Schuur Hospital, Cape Town, South Africa
Mechanisms of Cardiac Contraction and Relaxation

Richard C. Pasternak, MD

Associate Professor of Medicine, Harvard Medical School; Director, Preventive Cardiology and Cardiac Rehabilitation, Massachusetts General Hospital, Boston, Massachusetts
Comprehensive Rehabilitation of Patients with Cardiovascular Disease

Dudley Pennell, MD, FRCP, FACC, FESC

Professor of Cardiology, Imperial College; Director, Cardiovascular Magnetic Resonance Unit, Royal Brompton Hospital, London, United Kingdom
Cardiovascular Magnetic Resonance

Joseph K. Perloff, MD

Streisand/American Heart Association Professor of Medicine and Pediatrics, Emeritus, Founding Director, Ahmanson/UCLA Adult Congenital Heart Disease Center, David Geffen School of Medicine at UCLA; Los Angeles, California
Physical Examination of the Heart and Circulation

Jeffrey J. Popma, MD

Associate Professor of Medicine, Harvard Medical School; Director, Interventional Cardiology, Brigham and Women's Hospital, Boston, Massachusetts
Coronary Angiography and Intravascular Ultrasound Imaging; Percutaneous Coronary and Valvular Intervention

J. David Port, PhD

Associate Professor of Medicine and Pharmacology, University of Colorado Health Sciences Center, Denver, Colorado
Drugs in the Treatment of Heart Failure

Silvia G. Priori, MD, PhD

Associate Professor, University of Pavia School of Cardiology; Director of Molecular Cardiology, IRCCS Fondazione S. Maugeri, Pavia, Italy
Genetics of Cardiac Arrhythmias

Reed E. Pyeritz, MD, PhD

Professor of Medicine and Genetics, Chief, Division of Medical Genetics, University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania
Genetics and Cardiovascular Disease

Andrew N. Redington, MD, MBBS, MRCP(UK), FRCP(UK), FRCPC

University of Toronto; Head, Division of Cardiology, Hospital for Sick Children, Toronto, Ontario, Canada
Congenital Heart Disease

Stuart Rich, MD

Professor of Medicine and Director, Center for Pulmonary Heart Disease, Rush Medical College, Chicago, Illinois
Pulmonary Hypertension

Paul M. Ridker, MD, MPH

Eugene Braunwald Professor of Medicine, Harvard Medical School; Director, Center for Cardiovascular Disease Prevention, Brigham and Women's Hospital, Boston, Massachusetts
Risk Factors for Atherothrombotic Disease; Primary and Secondary Prevention of Coronary Heart Disease

Robert C. Robbins, MD

Associate Professor, Department of Cardiothoracic Surgery, Stanford University School of Medicine and Stanford Hospital, Stanford, California
Heart Transplantation

David Robertson, MD

Elton Yates Professor of Medicine, Pharmacology, and Neurology; Director, General Clinical Research Center, Vanderbilt University School of Medicine, Nashville, Tennessee
Cardiovascular Manifestations of Autonomic Disorders

Rose Marie Robertson, MD

Professor of Medicine, Vanderbilt University School of Medicine; Chief Science Officer, American Heart Association, Nashville, Tennessee
Cardiovascular Manifestations of Autonomic Disorders

Dan M. Roden, MD

Professor of Medicine and Pharmacology and Director, Division of Clinical Pharmacology, Vanderbilt University School of Medicine, Nashville, Tennessee
The Principles of Drug Therapy

Eric A. Rose, MD

Morris and Rose Milstein/Johnson & Johnson Professor and Chair, Department of Surgery; Surgeon-in-Chief, Columbia University College of Physicians and Surgeons; Director, Surgical Service, New York Presbyterian Hospital, New York, New York
Assisted Circulation in the Treatment of Heart Failure

Kenneth Rosenfield, MD

Lecturer on Medicine, Harvard Medical School; Director, Cardiac and Vascular Invasive Services, Massachusetts General Hospital, Boston, Massachusetts
Endovascular Treatment of Noncoronary Obstructive Vascular Disease

Michael Rubart, MD

Assistant Scientist, Indiana University School of Medicine, Indianapolis, Indiana
Genesis of Cardiac Arrhythmias: Electrophysiological Considerations

Marc S. Sabatine, MD, MPH

Instructor in Medicine, Harvard Medical School; Associate Physician, Cardiovascular Division, Brigham and Women's Hospital, Boston, Massachusetts
Primary Tumors of the Heart

Andrew I. Schafer, MD

Frank Wister Thomas Professor and Chair, Department of Medicine, University of Pennsylvania School of Medicine and Health System, Philadelphia, Pennsylvania
Hemostasis, Thrombosis, Fibrinolysis, and Cardiovascular Disease

Frederick J. Schoen, MD, PhD

Professor of Pathology and Health Sciences and Technology, Harvard Medical School; Executive Vice Chair, Department of Pathology, Brigham and Women's Hospital, Boston Massachusetts
Primary Tumors of the Heart

J. Sanford Schwartz, MD

Professor of Medicine and Health Management and Economics, University of Pennsylvania School of Medicine and The Wharton School, Philadelphia, Pennsylvania
Clinical Decision-Making in Cardiology

Janice B. Schwartz, MD

Clinical Professor of Medicine, Divisions of Cardiology and Clinical Pharmacology, University of California, San Francisco, School of Medicine; Director, Research, Jewish Home of San Francisco, San Francisco, California
Cardiovascular Disease in the Elderly

Peter J. Schwartz, MD

Professor of Cardiology, University of Pavia, Pavia, Italy
Genetics of Cardiac Arrhythmias

Jeffrey F. Smallhorn, MBBS, FRACP, FRCPC

University of Toronto; Hospital for Sick Children, Toronto, Ontario, Canada
Congenital Heart Disease

Nancy K. Sweitzer, MD, PhD

Assistant Professor of Medicine, University of Wisconsin Medical School; Director, Heart Failure Program, University of Wisconsin Hospital and Clinics, Madison, Wisconsin
Cardiovascular Disease in Women

Judith Therrien, MD, FRCPC

McGill University, Department of Medicine; Sir Mortimer B. Davis Jewish General Hospital, Montréal, Québec, Canada
Congenital Heart Disease

James E. Udelson, MD

Associate Professor of Medicine and Radiology, Tufts University School of Medicine; Associate Chief, Division of Cardiology; Director, Nuclear Cardiology; Co-Director, Heart Failure Center, Tufts-New England Medical Center, Boston, Massachusetts
Nuclear Cardiology

Matthew J. Wall, Jr., MD

Professor, Michael E. DeBakey Department of Surgery, Baylor College of Medicine; Deputy Chief of Surgery, Chief of Cardiothoracic Surgery, Ben Taub General Hospital, Houston, Texas
Traumatic Heart Disease

Gary D. Webb, MD, FRCPC

Bitove Family Professor of Adult Congenital Heart Disease and Professor of Medicine, University of Toronto; Director, Toronto Congenital Cardiac Centre for Adults, Toronto General Hospital, Toronto, Ontario, Canada
Congenital Heart Disease

Joshua Wynne, MD, MBA, MPH

Professor of Medicine, Wayne State University; Attending Physician, Detroit Medical Center, Detroit, Michigan
The Cardiomyopathies; Myocarditis

Clyde W. Yancy, MD

Professor of Medicine (Cardiology) and Medical Director, Heart Failure and Heart Transplantation, University of Texas Southwestern Medical Center; Associate Dean of Clinical Affairs, St. Paul University Hospital, Dallas, Texas
Heart Disease in Varied Populations

Douglas P. Zipes, MD, MACC

Distinguished Professor of Medicine, Pharmacology, and Toxicology, Director, Division of Cardiology and the Krannert Institute of Cardiology, Indiana University School of Medicine, Indianapolis, Indiana
Genesis of Cardiac Arrhythmias: Electrophysiological Considerations; Diagnosis of Cardiac Arrhythmias; Therapy for Cardiac Arrhythmias; Cardiac Pacemakers and Cardioverter-Defibrillators; Specific Arrhythmias: Diagnosis and Treatment; Hypotension and Syncope; Cardiovascular Disease in the Elderly; Neurological Disorders and Cardiovascular Disease

目 录

第一部分 心血管疾病的全局观念	1	第32章 特殊心律失常：诊断与治疗	759
第1章 心血管疾病的全球负担	1	第33章 心脏骤停和心脏性猝死	819
第2章 经济学和心血管疾病	20	第34章 低血压与晕厥	858
第3章 心血管疾病的临床决策制定	27	第五部分 预防心血管病学	867
第4章 心血管方面医疗质量的评估与推进	34	第35章 动脉粥样硬化的血管生物学	867
第5章 药物治疗的原则	41	第36章 动脉血栓性疾病的危险因素	882
第6章 终末期心脏疾病患者的护理	51	第37章 系统性高血压：机制和诊断	900
第二部分 患者的检查	59	第38章 系统性高血压：治疗	927
第7章 病史	59	第39章 脂蛋白异常与心血管疾病	949
第8章 心脏与循环的体格检查	73	第40章 糖尿病、代谢综合征和动脉粥样硬化性血管疾病	970
第9章 心电图学	102	第41章 营养与心血管疾病	981
第10章 运动负荷试验	145	第42章 冠心病的一级预防和二级预防	990
第11章 超声心动图	177	第43章 心血管疾病患者的综合康复	1015
第12章 心血管疾病中的胸部放射学检查	259	第六部分 冠状动脉粥样硬化性心脏病	1033
第13章 核心脏病学	275	第44章 冠状动脉血流和心肌缺血	1033
第14章 心血管系统磁共振显像	320	第45章 胸痛患者的诊断	1058
第15章 心脏计算机断层成像	339	第46章 ST段抬高型心肌梗死：病理、病理生理和临床表现	1068
第16章 心脏诊断技术的相对价值	355	第47章 ST段抬高型心肌梗死的治疗	1091
第17章 心导管术	376	第48章 直接经皮冠状动脉介入治疗急性心肌梗死	1145
第18章 冠状动脉造影和血管内超声显像	402	第49章 不稳定型心绞痛和非ST段抬高性心肌梗死	1161
第三部分 心力衰竭	435	第50章 慢性冠状动脉疾病	1198
第19章 心脏的收缩和舒张机制	435	第51章 糖尿病与心脏病	1268
第20章 正常和异常心功能的评价	467	第52章 经皮冠状动脉和心脏瓣膜介入治疗	1278
第21章 心力衰竭的病理生理	483	第53章 主动脉疾病	1315
第22章 心力衰竭的临床表现、肺水肿及高排量性心力衰竭	512	第54章 外周动脉疾病	1344
第23章 心力衰竭药物治疗	540	第55章 非冠状动脉阻塞性血管疾病的血管内治疗	1367
第24章 心力衰竭的处理	571	第七部分 心脏、心包和肺血管床疾病	1393
第25章 辅助循环在心力衰竭治疗中的应用	591	第56章 先天性心脏病	1393
第26章 心脏移植	606	第57章 心脏瓣膜病	1454
第四部分 心律失常、猝死和晕厥	617	第58章 感染性心内膜炎	1529
第27章 心律失常的发生：电生理学的思考	617	第59章 心肌病	1554
第28章 心律失常的遗传学	651	第60章 心肌炎	1591
第29章 心律失常的诊断	658	第61章 HIV感染患者的心血管异常表现	1611
第30章 心律失常的治疗	674		
第31章 心脏起搏器和心脏转复-除颤器	723		

第 62 章	毒物与心脏	1622	第 75 章	运动员的心血管疾病	1853
第 63 章	心脏的原发性肿瘤	1631	第 76 章	心脏手术病人的内科处理	1860
第 64 章	心包疾病	1644	第 77 章	心脏病患者的非心脏手术和麻醉	1884
第 65 章	创伤性心脏疾病	1665	第 78 章	变动人口的心脏疾病	1900
第 66 章	肺栓塞	1673			
第 67 章	肺动脉高压	1692			
第 68 章	睡眠疾病和心血管疾病	1725			
第八部分	分子生物学和遗传学	1731	第十部分	心血管疾病与其他器官系统疾病	1911
第 69 章	心血管分子生物学和遗传学原理	1731	第 79 章	内分泌疾病与心血管疾病	1911
第 70 章	遗传学与心血管疾病	1748	第 80 章	止血、血栓形成、纤维蛋白溶解和心血管疾病	1925
第 71 章	心肌再生	1789	第 81 章	风湿热	1949
			第 82 章	风湿性疾病和心血管系统	1955
第九部分	特殊人群的心血管疾病	1801	第 83 章	心血管疾病和肿瘤	1970
第 72 章	老年心血管疾病	1801	第 84 章	心血管病的精神和行为方面	1981
第 73 章	妇女心血管疾病	1823	第 85 章	神经疾病和心血管疾病	1995
第 74 章	妊娠和心血管疾病	1835	第 86 章	肾脏疾病和心血管疾病	2011
			第 87 章	自主神经障碍的心血管表现	2023
			索引	2034