

第10版

Braunwald 心脏病学

心血管内科学教科书

Braunwald's Heart Disease
A Textbook of Cardiovascular Medicine

英文影印版

上卷

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《Braunwald 心脏病学》(第 10 版)影印版序

Eugene Braunwald 教授是当之无愧的心脏病学泰斗,作为一名杰出的心脏病专家、教育家、伟大的研究者,他开创了现代临床心脏病学科,并一直引领这一领域的临床与科研不断发展。《Braunwald 心脏病学》是 Eugene Braunwald 教授的巅峰力作,是一部集综合性与权威性于一体的心血管领域传世名作,被称为“心血管医生的圣经”。

如今,随着我国广大医生越来越渴求第一时间获取国际最前沿知识,缩短最先进科技信息传播至国内的时间差距,加上英语水平的不断提高,越来越多的人希望能在出版后的最短时间读到这部心脏病学经典著作的英文版本。北京大学医学出版社敏锐洞察到读者这一需求,第一时间引进出版了这部巨著的影印版本,并对其中大部分图片仍保留彩色印刷形式,原汁原味地高品质还原经典的内容与意境,将其呈现给我国广大读者,不但有助于读者及时获取最新、最权威的心脏病领域的专业知识,更可以使其阅读到经典教科书中地道、专业的英语,将此书成为案头的必备参考书。

该书自 1980 年问世以来,已经再版修订 9 次,此次呈献给大家的是 2015 年出版的最新版本——第 10 版。

《Braunwald 心脏病学》(第 10 版)共 10 部分,89 章。与第 9 版相比,有 27 章是新增加的,其中 3 章涉及以前版本所没有的专题。同时本版纳入 53 名新的编者,他们都是各专业领域里的知名、资深专家。其余从第 9 版保留下来的章节亦均经过了全面更新与进一步修订,使得内容更新、更精准。第 10 版中呈现了近 2600 张图片,其中大多为全彩色印刷。书中提供了 21 个最新的临床实践指南,其中 7 个是新增的,同时也包括 6 个权威使用规范,其中 2 个是第 10 版新增的。

历经 10 个版本,《Braunwald 心脏病学》一直遵循着其科学、全面、实用的原则,全面反映了心脏病学领域最新进展,形成全面而整合的知识体系,对于心血管病学的每个分支进行了明确、规范而富有艺术性的讲述,总结大量最新、重要的临床数据,并将这些数据浓缩为表格、治疗流程等,为广大心血管专业医师、内科医师及医学生提供了最权威的指导和最佳的可行性办法。

当前,我国心血管疾病的发病率和死亡率逐年上升,发病年龄提前,心血管疾病已成为影响人民健康的“第一杀手”。作为心血管疾病防治的临床医生,肩负着巨大的责任,我们只有与时俱进地不断学习,才能应对更多、更艰难、更复杂的挑战。这部影印版巨著的出版,为我们打开了一扇窗,使得我们可以更近地领略这部经典巨著的风采,更直接地分享这些大家们关于心血管治疗与科学研究的真知灼见,从而提高临床专业知识水平和专业技能。本书的出版将为更多的医生带来帮助,为更多的患者带来福音。

祝愿我国心血管疾病防治取得更大进展。



Brainwashed (第10版) (平装) 心脑迷途

To

Laura, Erica, Jonathan, and Stephanie

Joan, Debra, Jeffrey, and David

Beryl, Oliver, and Brigitte

Pat, Rob, and Sam

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Preface to the Tenth Edition



The editors are pleased to present the tenth edition of *Braunwald's Heart Disease* as the latest update of a unique learning platform that aims to provide practitioners, physicians-in-training, and students at all levels with the critical tools to keep abreast of the rapidly changing scientific foundations and clinical advances in cardiovascular medicine. *Heart Disease* has been developed as a "living textbook" that will provide readers with the latest updates in the field in real time. To this end, the print version of the tenth edition, which has been revised extensively, is complemented by a new online version that is not only visually spectacular, but also contains audio, video, and additional written content not available in the textbook. Icons are placed strategically in the margins of the text of the print version to guide readers to the appropriate related online materials. In keeping with the rapid pace of advances in the field of cardiovascular medicine, the online version of *Heart Disease* is updated frequently with the results of late-breaking clinical trials, reviews of important new research publications, and updates on clinical practice authored by leaders in the field. These online supplements are selected and edited masterfully by Dr. Eugene Braunwald.

In preparing the preface for the tenth edition, we thought it appropriate to reflect back upon the prescient guiding principles that were articulated by Dr. Braunwald, in his Preface to the first edition of *Heart Disease* (1980).

"An attempt to summarize our present understanding of heart disease in a comprehensive textbook for the serious student of this subject is a formidable undertaking. A single text—even a long one—cannot adequately cover every aspect of a subject as extensive as heart disease. Since the early part of this century, clinical cardiology has had a particularly strong foundation in the basic sciences of physiology and pharmacology. More recently, the disciplines of molecular biology, genetics, developmental biology, biophysics, biochemistry, experimental pathology, and bioengineering have also begun to provide critically important information about cardiac function and malfunction. Although it was decided that Heart Disease was to be primarily a clinical treatise and not a textbook of fundamental cardiovascular science, an effort has been made to explain, in some detail, the scientific basis of cardiovascular diseases. To achieve this objective, the sciences fundamental to heart disease are in most cases presented in the chapters describing the various disease states and their treatment rather than in separate chapters. Although it is recognized that cardiovascular surgery has had an enormous impact on the management of patients with heart disease, the major emphasis in this book is on the rationale and indications for cardiac operations rather than on operative techniques per se."

The tenth edition of *Braunwald's Heart Disease* hews closely to the traditions established by the first and each subsequent edition of *Heart Disease*, by covering the entire spectrum of cardiovascular medicine, highlighting the latest advances in basic, translational, and clinical science, with an emphasis on conveying succinctly how this information informs both the prevention and the treatment, of cardiovascular disease. Twenty-seven of the 89 chapters in this edition are new, including three chapters covering topics that were not addressed in prior editions. We include 53 new authors, all of whom are highly accomplished and recognized in their respective disciplines. All chapters carried over from the ninth edition have been thoroughly updated and extensively revised. The tenth edition includes nearly 2600 figures, most of which are in full color, as well

as 600 tables. Moreover, the online content has been enhanced with 240 videos. As with previous editions, the tenth edition contains 21 updated practice guides, seven entirely new guidelines not in the ninth edition, and six appropriate use criteria, two of which are entirely new.

A detailed accounting of all of the changes in the new edition is not feasible within the narrow confines of this Preface. However, the editors would like to highlight several of the exciting changes in the tenth edition, beginning with an entirely new section on genetics and personalized medicine (Part II), which includes a chapter providing an overview of personalized cardiovascular medicine, followed by chapters on principles of cardiovascular genetics and drug therapeutics. A new chapter on biomarkers provides background and guidance on their use, development, and validation as clinically useful tools. The section on evaluation of the patient (Part III) has completely new chapters on echocardiography and exercise stress testing. Given the rapid advances in the field of heart failure, Part IV has been revised substantially, with new chapters and guidelines on the clinical assessment of heart failure, including the latest recommendations on biomarkers, the diagnosis and management of acute heart failure, and heart failure with a preserved ejection fraction, as well as the emerging area of cardiovascular regeneration and gene therapy. Part V, on arrhythmias, sudden death, and syncope has been updated and revised with chapters that review the remarkable advances in this discipline. The section on preventive cardiology (Part VI) features a new omnibus chapter on risk factors and the prevention of cardiovascular disease and a new chapter on comprehensive cardiac rehabilitation and the treatment of hypertension. Part VII focuses on atherosclerotic cardiovascular disease and includes new guidelines for percutaneous intervention and stable ischemic heart disease. There are new chapters on quality of care, cardiovascular disease in women, exercise and sports cardiology, integrated medicine, ethics, cardiooncology, perioperative management in non-cardiac and cardiac surgery, cardiovascular infections, and pulmonary hypertension (including new international guidelines). There are also important revised chapters on interventions for structural heart disease and valvular heart disease, including new guidelines for this important area. In recognition of the importance of genetics and the emerging role of personalized medicine, discussions of the genetic basis of specific diseases are now incorporated within the relevant chapters, rather than in separate chapters.

As noted at the outset, *Braunwald's Heart Disease* is the centerpiece of a much broader learning platform that includes a growing family of *Braunwald's Heart Disease* companion texts, which continues to expand and provide detailed expert content for the subspecialist across a broad range of cardiovascular conditions. These include: *Clinical Lipidology*, edited by Christie Ballantyne; *Clinical Arrhythmology and Electrophysiology*, authored by Ziad Issa, John Miller, and Douglas Zipes; *Diabetes in Cardiovascular Disease*, by Darren McGuire and Nikolaus Marx; *Heart Failure*, edited by Douglas L. Mann and Michael Felker; *Valvular Heart Disease*, by Catherine Otto and Robert Bonow; *Acute Coronary Syndromes*, by Pierre Théroux; *Preventive Cardiology*, by Roger Blumenthal, JoAnne Foody, and Nathan Wong; *Mechanical Circulatory Support*, by Robert Kormos and Leslie Miller; *Hypertension*, by Henry Black and William Elliott; *Cardiovascular Therapeutics*, by Elliott Antman and Marc Sabatine; and *Vascular Medicine*, by Mark Creager, Joshua Beckman, and Joseph Loscalzo. Additional companion texts will be forthcoming shortly, including *Cardiovascular Interventions* by Deepak Bhatt. Each of the companion texts, as well as *Heart Disease*, is complemented by an updated online version. As with previous editions

The extent to which the tenth edition of *Braunwald's Heart Disease* proves useful to those who seek to broaden their knowledge base in an effort to improve outcomes for patients afflicted with

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