

CASE FILES® CARDIOLOGY

心脏病学案例30例

- 30 cases teach you cardiology principles in the context of real patients
- A master cardiologist analyzes and explains each case
- Includes board-style review questions and clinical pearls
- Written by experienced educators

TOY • FAULX



北京大学医学出版社

CASE FILES® Cardiology 心脏病学案例30例

Eugene C. Toy, MD Michael D. Faulx, MD Vice Chair of Academic Affairs and Assistant Professor of Medicine Clerkship Director Case Western Reserve University Director of Division of General Lerner College of Medicine Obstetrics-Gynecology Cleveland, Ohio Department of Obstetrics and Gynecology Associate Program Director The Methodist Hospital Internal Medicine Residency Houston, Texas Cleveland Clinic Clinical Professor and Clerkship Cleveland, Ohio Staff Cardiologist, Section of Clinical Department of Obstetrics University of Texas Medic ly Heart and Vascular Institute Houston Houston, Texas Associate Clinical Profess Weill Cornell College of 1 New York, New York



XINZANGBINGXUE ANLI 30 LI

图书在版编目(CIP)数据

心脏病学案例 30 例:英文 / (美) 拖伊 (Toy, C.E.), (美) 福克斯

(Faulx, D. M.) 编, 一北京: 北京大学医学出版社, 2015.6

书名原文: Case Files®: Cardiology

ISBN 978-7-5659-1123-1

1. ①心… Ⅱ. ①拖… ②福… Ⅲ. ①心脏病学 - 教

材-英文 IV. ① R541

中国版本图书馆 CIP 数据核字 (2015) 第 113206 号

Eugene C. Toy, Michael D. Faulx

Case Files ®: Cardiology

ISBN 978-0-07-179919-5

Copyright © 2015 by McGraw-Hill Education.

All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including without limitation photocopying, recording, taping, or any database, information or retrieval system, without the prior written permission of the publisher.

This authorized English reprint edition is jointly published by McGraw-Hill Education and Peking University Medical Press. This edition is authorized for sale in the People's Republic of China only, excluding Hong Kong SAR, Macao SAR and Taiwan.

Copyright © 2015 by McGraw-Hill Education (Asia) and Peking University Medical Press. 版权所有。未经出版人事先书面许可,对本出版物的任何部分不得以任何方式或途径复制或传播,包括但不限于复印、录制、录音,或通过任何数据库、信息或可检索的系统。本授权英文影印版由麦格劳-希尔(亚洲)教育出版公司和北京大学医学出版社合作出版。此版本经授权仅限在中华人民共和国境内(不包括香港特别行政区、澳门特别行政区和台湾)销售。

版权 © 2015 由麦格劳 - 希尔(亚洲)教育出版公司与北京大学医学出版社所有。本书封面贴有 McGraw-Hill Education 公司防伪标签,无标签者不得销售。 北京市版权局著作权合同登记号:图字 01-2015-2852

心脏病学案例30例

编 写: Eugene C. Toy, Michael D. Faulx

出版发行: 北京大学医学出版社

地 址:(100191)北京市海淀区学院路38号 北京大学医学部院内

电 话:发行部 010-82802230;图书邮购 010-82802495

网 址: http://www.pumpress.com.cn

E-mail: booksale@bjmu.edu.cn

印 刷:中煤涿州制图印刷厂北京分厂

经 销:新华书店

责任编辑: 冯智勇 高 瑾 责任印制: 李 啸

开 本: 710mm×1000mm 1/16 印张: 27 字数: 510千字

版 次: 2015年6月第1版 2015年6月第1次印刷

书 号: ISBN 978-7-5659-1123-1

定 价: 79.00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)

出版说明

Case Files 是美国麦格劳 - 希尔教育出版公司医学图书中的著名 品牌系列图书,被世界多所著名医学院校选定为教学用书。北京大 学医学出版社与麦格劳-希尔教育出版公司合作,全套影印出版了 该从书。包括:

- 解剖学案例 58 例病理学案例 50 例
- 药理学案例 56 例
- 内科学案例 60 例
- 妇产科学案例 60 例
- 神经病学案例 54 例
- 心脏病学案例 30 例 麻醉学案例 53 例

- ◆ 生理学案例 51 例◆ 生物化学案例 53 例

 - 微生物学案例 54 例
 - 外科学案例 56 例
 - 儿科学案例 60 例
 - 骨科学案例 45 例

该从书具有以下特点:

- 一、形式上,原版图书影印,忠实展现原版图书的原汁原味, 使国内读者直接体会医学原版英文图书的叙述方式和叙述风格。
- 二、内容上,每个分册包含几十个经典案例。基础学科强调与 临床的结合,临床学科强调临床思维的培养。
- 三、以案例和问题导入,互动式学习,尤其适合 PBL (问题为 中心的学习)和CBL(案例为中心的学习)。

本系列书可作为医学院校双语教学或留学生教学的教材或教学 辅导用书, 也是医学生学习医学英语的优秀读物。在世界范围内, 该系列书还是参加美国医师执照考试的必备用书。

北京大学医学出版社

DEDICATION

To the amazing members of our Cambodia medical mission team of 2014, who sacrificially shared their talents and compassion to help hundreds of villagers in the province of Kratie, Kingdom of Cambodia.

To my daughter Allison, our team leader, who is already showing wisdom at such a young age and is my hero.

To my wife Terri, who served as team administrator and "team mom", and is an organizational genius.

To our super nurses, Erin, Natalie, and Elizabeth, who went above and beyond each day, tending to the medical and spiritual needs of our patients.

To Amy, who organized and updated our pharmacy, keeping hundreds of dispenses straight.

To Khai and Meredith, our gifted counselors, who shared the love of God each day;

And finally to Archie and his family, his leaders, his interpreters, and his church, who blazed the trail, ministered to us, and who continue God's work in the lovely Kingdom of Cambodia.

—ECT

To my lovely wife Ashley and my sons, Jackson and Gregory, for making it so easy to find balance and happiness in my life. You are the reason I can't wait to get home every evening.

To the medical students, residents, and fellows at Case Western Reserve University Lerner College of Medicine and Cleveland Clinic, for making it so easy to find balance and happiness in my career. You are the reason I can't wait to get to work every morning.

-MDF

Mosi Bennett, MD, PhD Advanced Heart Failure and Transplant Cardiologist Minneapolis Heart Institute at Abbott Northwestern Hospital Minneapolis, Minnesota Acute decompensated heart failure

Edmond Cronin, MD, MRCPI
Staff Physician, Cardiology and Cardiac Electrophysiology
Hartford Hospital
Hartford, Connecticut
Atrial fibrillation
Sudden cardiac death

Mohamed Elshazly, MD
Fellow, Cardiovascular Medicine
Miller Family Heart and Vascular Institute
Cleveland Clinic
Cleveland, Ohio
Acute type A aortic dissection

Michael D. Faulx, MD Assistant Professor of Medicine Case Western Reserve University Lerner College of Medicine Cleveland, Ohio Associate Program Director Internal Medicine Residency Cleveland Clinic Cleveland, Ohio Staff Cardiologist, Section of Clinical Cardiology Miller Family Heart and Vascular Institute Cleveland Clinic Cleveland, Ohio Adult congenital heart disease How to approach the cardiology patient Cardiogenic shock Approach to the patient with chronic dyspnea Cardiac risk assessment prior to noncardiac surgery

Adam Goldberg, MD
Fellow, Cardiac Electrophysiology and Pacing
Miller Family Heart and Vascular Institute
Cleveland Clinic
Cleveland, Ohio
Bradycardia
AV nodal reentrant tachycardia

Justin Grodin, MD
Fellow, Cardiovascular Medicine
Miller Family Heart and Vascular Institute
Cleveland Clinic
Cleveland, Ohio
Cardiomyopathies
Hypertension

Serge C. Harb, MD
Fellow, Cardiovascular Medicine
Miller Family Heart and Vascular Institute
Cleveland Clinic
Cleveland, Ohio
Acute pericarditis

Nael Hawwa, MD
Fellow, Cardiovascular Medicine
Miller Family Heart and Vascular Institute
Cleveland Clinic
Cleveland, Ohio
Pulmonary hypertension

Michael Hoosien, MD
Fellow, Cardiovascular Medicine
Miller Family Heart and Vascular Institute
Cleveland Clinic
Cleveland, Ohio
Chronic stable coronary artery disease
Preventive cardiology

Michael Johnson, MD Fellow, Cardiovascular Medicine Miller Family Heart and Vascular Institute Cleveland Clinic Cleveland, Ohio Infective endocarditis

Jason Lappe, MD
Fellow, Cardiovascular Medicine
Miller Family Heart and Vascular Institute
Cleveland Clinic
Cleveland, Ohio
Wide complex tachycardia

Siddharth Mahure, MD
Research Fellow
NYU Hospital for Joint Diseases
Department of Orthopaedic Surgery
Shoulder & Elbow Division
New York, New York
Peripheral arterial disease

Christopher May, MD Advanced Cardiovascular Imaging Fellow Miller Family Heart and Vascular Institute Cleveland Clinic Cleveland, Ohio Anterior STEMI NSTEMI

Kenneth A. Mayuga, MD, FACC, FACP
Clinical Instructor of Medicine
Cleveland Clinic
Cleveland, Ohio
Associate Staff, Section of Cardiac Electrophysiology and Pacing
Miller Family Heart and Vascular Institute
Cleveland Clinic
Cleveland, Ohio
Syncope

Shruti Patel, MD Resident, Nassau University Medical Center Department of Internal Medicine East Meadow, New York Hypertrophic cardiomyopathy

Liane Porepa, MD, FRCPC, FACC Advanced Heart Failure Cardiologist Director, Heart Failure Program Southlake Regional Health Centre Newmarket, Ontario, Canada Advanced heart failure and transplantation

Grant Reed, MD
Fellow, Cardiovascular Medicine
Miller Family Heart and Vascular Institute
Cleveland Clinic
Cleveland, Ohio
Severe aortic stenosis
Chest pain, undifferentiated

Brett Sperry, MD
Fellow, Cardiovascular Medicine
Miller Family Heart and Vascular Institute
Cleveland Clinic
Cleveland, Ohio
Acute RV failure complicating MI
Chronic heart failure

Newton Wiggins, MD
Chief Fellow, Cardiovascular Medicine
Miller Family Heart and Vascular Institute
Cleveland Clinic
Cleveland, Ohio
Acute aortic valve regurgitation
Chronic aortic valve regurgitation

Allison L. Toy
Senior Nursing Student
Scott & White Nursing School
University of Mary Hardin-Baylor
Belton, Texas
Primary Manuscript Reviewer

ACKNOWLEDGMENTS

The curriculum that evolved into the ideas for this series was inspired by Philbert Yau and Chuck Rosipal, two talented and forthright students, who have since graduated from medical school. It has been a tremendous joy to work with my excellent coauthor, Dr. Michael Faulx, who exemplifies the qualities of the ideal physician—caring, empathetic, and brilliant educator who can make complex topics understandable; he also has the unique ability to bridge the disciplines of internal medicine and cardiology, no easy feat!

Michael D. Faulx would like to acknowledge Dr. Eugene Toy for his vision for and commitment to this wonderful book series. He would also like to acknowledge Catherine Johnson and Cindy Yoo for their helpful editorial suggestions and Anupriya Tyagi for her tireless attention to detail. He lastly wish to acknowledge the Cleveland Clinic Department of Medical Art and Photography, particularly Joe Pangrace, Jeff Loerch, and Ken Celebucki for their outstanding medical illustrations.

I am greatly indebted to my editor, Catherine Johnson, whose exuberance, experience, and vision helped to shape this series. I appreciate McGraw-Hill's belief in the concept of teaching through clinical cases. I am also grateful to Catherine Saggese for her excellent production expertise, and Cindy Yoo for her wonderful editing. I cherish the ever-organized and precise Anupriya Tyagi who has nurtured this book from manuscript to print. It has been a privilege and honor to work with my daughter Allison, a senior nursing student, who was the principal manuscript reviewer. I appreciate Linda Bergstrom for her sage advice and passion. At Methodist, I appreciate Drs. Judy Paukert, Marc Boom, and Alan Kaplan for their support. Without my dear colleagues, Drs. Konrad Harms, Priti Schachel, Gizelle Brooks Carter, and Russell Edwards, this book could not have been written. Most of all, I appreciate my ever-loving wife Terri, and our four wonderful children, Andy and his wife Anna, Michael, Allison, and Christina, for their patience and understanding.

Eugene C. Toy and Michael D. Faulx

Mastering the cognitive knowledge within a field such as cardiology is a formidable task. It is even more difficult to draw on that knowledge, procure and filter through the clinical and laboratory data, develop a differential diagnosis, and, finally, to make a rational treatment plan. To gain these skills, the student learns best at the bedside, guided and instructed by experienced teachers, and inspired toward self-directed, diligent reading. Clearly, there is no replacement for education at the bedside. Unfortunately, clinical situations rarely encompass the breadth of the specialty. Perhaps the best alternative is a carefully crafted patient case designed to stimulate the clinical approach and the decision-making process. In an attempt to achieve that goal, we have constructed a collection of clinical vignettes to teach diagnostic or therapeutic approaches relevant to cardiology.

In this age of technology and high-definition imaging, we would like to reinforce the importance of the history and physical examination. We urge that students diligently read through this area in Section I of the book, and practice their skills. We likewise urge our peer colleagues to spend time demonstrating to students and trainees how to properly perform the physical exam maneuvers. We hope that our cases will stimulate excitement for the clinical care of patients.

Most importantly, the explanations for the cases emphasize the mechanisms and underlying principles, rather than merely rote questions and answers. This book is organized for versatility: it allows the student "in a rush" to go quickly through the scenarios and check the corresponding answers, and it allows the student who wants thought-provoking explanations to obtain them. The answers are arranged from simple to complex: the bare answers, an analysis of the case, an approach to the pertinent topic, a comprehension test at the end, clinical pearls for emphasis, and a list of literature sources for further reading. The clinical vignettes are purposely placed in random order to simulate the way that real patients present to the practitioner. A listing of cases is included in Section III to aid the student who desires to test his/her knowledge of a certain area, or to review a topic, including basic definitions. Finally, we intentionally did not use a multiple-choice question format in the case scenarios, because clues (or distractions) are not available in the real world.

CONTENTS

Contributors / vii Acknowledgments / xi Introduction / xiii

Section I	
How to Approach the Cardiology Patient	
Part 1. Cardiovascular History and Physical Examination	2
Part 2. Approach to the Electrocardiogram (ECG)	22
Part 3. Cardiovascular Providers and Procedures	
Section II	
Clinical Cases	57
Thirty Case Scenarios	59
Cases 1-5. Coronary and Vascular Diseases	59
Cases 6-10. Structural Heart Diseases	125
Cases 11–15. Rhythm Disorders	177
Cases 16–20. Pump Disorders	237
Cases 21-25. Consults and Complaints	287
Cases 26–30. Other Cardiac Diseases	335
Section III	
Listing of Cases	
Listing by Case Number	401
Listing by Disorder (Alphahetical)	407

Index / 403



How to Approach the Cardiology Patient

- Part 1 Approach to the Patient (History and Physical)
- Part 2 Approach to the Electrocardiogram (ECG)
- Part 3 Providers and Procedures

Part 1. Cardiovascular History and Physical Examination

There are four main components of cardiovascular history and physical examination:

- A. Taking a cardiovascular history
- B. Performing the cardiovascular examination
- C. Interpreting heart sounds
- D. Evaluating cardiac murmurs

Despite the proliferation of medical technology over the past several decades, there remains no single imaging study or laboratory assay more valuable to patient care than a proper history and physical examination (H&P). A thoughtful H&P will provide you with the correct diagnosis for most patients presenting with cardiovascular disease complaints. The act of performing the H&P also affords the caregiver an opportunity to forge a therapeutic relationship with the patient. The attention paid to a frightened patient by a thoughtful practitioner during the H&P, however brief, can have both diagnostic and therapeutic benefits. Finally, in this current era of cost-conscious medical care, there are few tools as cost-effective as a good H&P.

CLINICAL PEARL

► The most important tool in the assessment of the patient with cardiovascular disease is a well-performed history and physical examination.

A. TAKING A CARDIOVASCULAR HISTORY

Prior to entering into a discussion of the cardiovascular history, there are a few general rules of history taking that merit a review. The first is to establish a meaningful rapport with the patient. As the provider, you should be the adaptable member of this relationship as you will need to alter your history-taking approach from one patient to the next to account for differences in individual language comprehension, cultural background, and level of education. The use of medical or technical jargon during the history should be avoided. Similarly, common colloquial medical terms should be carefully scrutinized as they often mean different things to different patients. For example, a patient may tell you that she has had five heart attacks in the past 2 years, but a careful review of her records reveals no evidence of myocardial infarction but rather five emergency department visits for chest pain and severe hypertension in the setting of medication noncompliance.

Another important skill in history taking is the ability to adjust one's interview style to best suit the patient and setting. It is generally advisable to begin the interview with open-ended questions (eg, "What brings you to the emergency department today, Mr. Smith?") to allow patients to guide you through their histories. However, there are certainly patients who do not provide much open-ended information (eg, "My wife made me come."), in which case direct initial questions may

此为试读,需要完整PDF请访问: www.ertongbook.com