Embolization Therapy: Principles and Clinical Applications - Marcelo Guimaraes 2014-12-01

Embolization procedures have grown in numbers, diversity and complexity during the last decade. During this time, there have been a number of new embolic agents and techniques developed. This book presents evidence based reviews of all the advances in the field including current devices, basic and advanced techniques, and tips and tricks. Key Features Topics included span the breadth of the embolization work performed by Interventional Radiologists, including neuro applications, trauma applications, and applications in Interventional Oncology among others. A comprehensive reference covering all applications of embolotherapy. Focal point of the text will be the evidence-based reviews for each topic. Tips and tricks section will...
bring added value to this project providing clinical pearls that can be immediately incorporated into everyday clinical practice

**Embolization Therapy**
Marcelo Guimaraes
2015-01-15 Comprehensive and up to date, Embolization Therapy: Principles and Clinical Applications covers all the current devices, basic and advanced techniques, and tips and tricks that you need to know to make the most of these frequently performed procedures in your practice. From a review of embolic agents, to step-by-step clinical applications, to discussions of the future of embolotherapy, you'll find complete coverage of today's embolization procedures in one convenient volume. Key Features: Covers all basic techniques as well as specialized procedures such as interventional oncology, management of vascular malformations, endovascular management of trauma, uterine fibroid embolization, and more. Offers the knowledge and experience of dozens of recognized experts in vascular and interventional radiology, neuro-interventional radiology, and vascular surgery worldwide. Provides updated standards of care from global authorities in the field, as well as personal tips and tricks in quick-reference tables throughout. Contains a chapter on practice development and the future of embolization therapy, helping you add value to a portfolio of procedures with specialized or unusual techniques. Gives clear, concise guidance on intracranial and spine embolization, head and neck embolization, peripheral embolization, gastrointestinal arterial and venous embolization, hepatic embolization, intravascular delivery of therapeutic agents, pediatric embolization, and much more. Now with the print edition, enjoy the bundled interactive eBook edition, offering tablet, smartphone, or online access to: Complete content with enhanced navigation Powerful search tools and smart navigation cross-links that pull results from content in the book, your notes, and even the web Cross-linked pages, references, and more
Contemporary Challenges in Endocarditis - Michael S. Firstenberg 2016-11-09

Endocarditis remains an elusive challenge for clinicians to master. As the population ages and their comorbidities increase, the risk of infecting cardiac structures - both native and, the ever-increasing use of, prosthetic support technology - also increases. In addition, the global epidemic of intravenous substance abuse has also resulted in a substantial increase in the number of infected patients. Fortunately, advances in the diagnostic testing, imaging, and recognition of the importance of a multidisciplinary management team have also contributed to advances in the care of these critically ill patients. Nevertheless, optimal therapies need to be individualized and considered in the ever-increasing body of scientific literature on this complex and difficult problem.

Endovascular Treatment of Intracranial Aneurysms - James Byrne 2012-12-06

A comprehensive review of current endovascular techniques for the treatment of cerebral aneurysms, this is a practical manual for those practicing, or intending to practice, this rapidly expanding branch of minimally invasive surgery. The authors provide descriptions based on an extensive combined experience of clinical management, technical problems, complications and recent results, and discuss the limitations and role of combined extravascular/endovascular techniques.

Embolic Diseases - Michael S. Firstenberg 2017-06-21

Embolic complications of common, or sometimes uncommon, medical issues
represent a significant management challenge. In addition, special populations might require unique approaches to prevention and primary disease management. Similarly, unusual embolic problems can manifest as both diagnostic and therapeutic challenges. Despite evolving guidelines to the prevention, diagnosis, and management of common diseases that can result in embolic complications, unfortunately, for many problems, such guidelines, randomized trials, or even recommendations based upon high-quality literature are lacking. Several chapters in this book are dedicated to summarizing the available data and experiences to help guide bedside care. The goal of this book is to emphasize some of the more unusual presentations and diagnostic and management aspects of embolic complications. The pathophysiology and prevention strategies in unique patient populations are also emphasized. Clearly, a multidisciplinary team approach is critical to dealing with all aspects of these unusual and perplexing problems.

Extracorporeal Membrane Oxygenation - Michael S. Firstenberg 2016-09-14
Extracorporeal membrane oxygenation (ECMO), despite a long and troubled history, is very rapidly evolving into a therapy that can be safely and effectively applied across the world in patients experiencing acute cardiac and/or pulmonary failure. As experiences grow, there is a better understanding of nuances of the importance of teamwork, therapy guidelines and protocols, patient selection, and understanding the functional aspects of pump-circuit technology as it interfaces with human biology. The challenges in managing these very sick and complex patients cannot be understated. The goal of this text is to provide a framework for the development and successful growth of a program. Authors from Centers of Excellence Worldwide have shared their experiences in the full spectrum in dealing with this evolving field.
Arteriovenous Fistulas - Stavropoula Tjoumakaris
2013-07-10 Arteriovenous fistulas are shunts between arteries and veins that can be found in many organs of the human body such as the brain, skin, eye and lung. These lesions can be symptomatic by causing ischemia, through the process of the steal phenomenon, or vascular congestion and subsequent hemorrhage, eg. intracerebral hemorrhage of a ruptured dural arteriovenous fistula. The etiology of these lesions is not fully understood, some are congenital and others are acquired. On the other hand, iatrogenic arteriovenous fistulas, such as in hemodialysis patients, can be a life-saving procedure. This book provides a clear and concise review of the diagnosis and management of arteriovenous fistulas throughout the human body. It could be a great resource to medical students, residents, fellows, professors and researchers in the field.

Cardiothoracic Surgery - Michael S. Firstenberg
2013-06-12 The field of cardiothoracic surgery continues to evolve at a rapidly expanding rate. New technologies are under constant development and as patients present with more advanced pathophysiology and complex comorbidities, management becomes more dependent on multi-disciplinary Teams. While there are a variety of innovative and high-profile topics that dominate the literature and the interests of clinicians, sometimes is it the basics both in terms of acute and sometimes unusual problems that often challenge cardiothoracic surgeons on a day to day basis. The goal of Principles and Practice of Cardiothoracic Surgery is to hopefully highlight the current state of the art management of these problems.

Topics in Spinal Anaesthesia - Víctor M. Whizar-Lugo
2014-09-03 Topics on Spinal Anaesthesia consists of eight important
and updated chapters covering subarachnoid anaesthesia for major orthopaedic surgeries, ambulatory and short stay plastic surgical procedures, complications, and discussing the usefulness of opioids and non opioids drugs as spinal adjuvants to enhance subarachnoid block, transoperative analgesia and postoperative analgesia in various clinical scenarios. InTech invited respectable anesthesiologists from different countries to write this book. The authors and co-authors discussed in detail the advances in these subjects, so that the reader has an updated view and can use this knowledge on his/her patients. It is a practical book covering current information about subarachnoid anaesthesia.

**Radiation in Medicine**
Committee for Review and Evaluation of the Medical Use Program of the Nuclear Regulatory Commission 1996-04-08 Does radiation medicine need more regulation or simply better-coordinated regulation? This book addresses this and other questions of critical importance to public health and safety. The issues involved are high on the nation's agenda: the impact of radiation on public safety, the balance between federal and state authority, and the cost-benefit ratio of regulation. Although incidents of misadministration are rare, a case in Pennsylvania resulting in the death of a patient and the inadvertent exposure of others to a high dose of radiation drew attention to issues concerning the regulation of ionizing radiation in medicine and the need to examine current regulatory practices. Written at the request from the Nuclear Regulatory Commission (NRC), Radiation in Medicine reviews the regulation of ionizing radiation in medicine, focusing on the NRC's Medical Use Program, which governs the use of reactor-generated byproduct materials. The committee recommends immediate action on enforcement and provides longer term proposals for reform of the regulatory system. The
the subject, this book treats diagnosis from a practical point of view. Rather than discuss various diseases and classify them from the pathologic standpoint, Introduction to Basic Radiology utilizes cases from the emergency room and physician's offices and uses a practical approach to reach a diagnosis. The cases walk you through a radiology expert's analysis of imaging patterns. These cases are presented progressively, with the expert's thinking process described in detail. The cases highlight clinical presentation, clinical suspicion, modality of choice, radiologic technique, and pertinent imaging features of common disease processes.

Updates in Liver Cancer-Hesham Abdeldayem
2017-04-05 Liver cancers result in considerable amount of financial and social burden. On the other hand, researches and clinical studies related to liver cancers continue to advance at a rapid pace. The chapters in this book provide state-of-the-art reviews on the current knowledge and advances in research and management of liver cancers. It includes the most recent advances in that field, particularly, hepatocarcinogenesis and the potential role of intestinal microbiota, nonalcoholic steatohepatitis, cancer stem cells, aldehyde dehydrogenase-1, and hepatitis B virus. This book also discusses the methods of diagnosis of HCC, the minimally invasive therapies for liver cancers, living donor liver transplantation for HCC, surgical management of liver metastases from colorectal cancers, and assessment and optimization for the future liver remnant.

A Textbook of Advanced Oral and Maxillofacial Surgery-Mohammad Hosein Motamed 2016-08-31
Advanced oral and maxillofacial surgery encompasses a vast array of diseases, disorders, defects, and deformities as well as injuries of the mouth, head, face, and jaws. It relates not only to treatment of impacted teeth, facial pain, misaligned
jaws, facial trauma, oral cancers, jaw cysts, and tumors but also to facial cosmetic surgery and placement of dental and facial implants. This specialty is evolving alongside advancements in technology and instrumentation. Volume 1 has topped 132,000 chapter downloads so far, and Volume 2 is being downloaded at the same pace! Volume 3 is basically the sequel to Volumes 1 and 2; 93 specialists from nine countries contributed to 32 chapters providing comprehensive coverage of advanced topics in OMF surgery.

**Complications in Anesthesia**-John L. Atlee 2007 Practical text focuses on complications in the practice of anesthesia. Divided into sections similar to the thought processes involved in decision-making. Thumb indexing and cross-references are also included. All chapters have a case synopsis, problem analysis, and discussion of management and prevention.

**Behcet's Disease**-Müzeyyen Gönül 2017-05-31 Behcet's disease is a multisystem inflammatory disease with unknown etiology and has a unique geographic distribution. It is characterized by recurrent oral aphthous lesions, recurrent uveitis, skin lesions, and genital ulcerations. However, it may involve the eye, joints, and cardiovascular, gastrointestinal, and neurological systems at varying degrees as well as the skin and mucous membranes. The disease may manifest itself in a wide spectrum of symptoms ranging from mild symptoms to life-threatening symptoms or severe symptoms that may create permanent sequelae. Knowing the nature of the disease will make it easier to diagnose and manage the disease. This book was written by expert authors, and detailed epidemiology, etiopathogenesis, mucocutaneous findings, and systemic involvement of Behcet’s disease are presented to readers.
Total Hip Replacement-
Vaibhav Bagaria 2018-11-07
The incidence of total hip arthroplasty is increasing in number because of successful outcomes. Although technically challenging, once mastered a hip replacement is one of the most gratifying surgeries for both patient and surgeon. This book covers some of the most important aspects of hip replacement surgery. These include preoperative planning, anesthesia, classification systems, management of proximal femur fractures, anterior approach, complications, and rehabilitation aspects of hip arthroplasty. The book is intended for arthroplasty surgeons, anesthetists, and physical therapists who will find the book useful in parts and as a whole if they deal with arthroplasty cases on a regular basis. Experience-based narration of various subjects by authors ensures that first-hand experience is passed on to readers in a simple, easy-to-understand manner.

Peripheral Iv's-Concept

Developments in Near-Infrared Spectroscopy-
Konstantinos Kyprianidis 2017-03-15 Over the past few decades, exciting developments have taken place in the field of near-infrared spectroscopy (NIRS). This has been enabled by the advent of robust Fourier transform interferometers and diode array solutions, coupled with complex chemometric methods that can easily be executed using modern microprocessors. The present
edited volume intends to cover recent developments in NIRS and provide a broad perspective of some of the challenges that characterize the field. The volume comprises six chapters overall and covers several sectors. The target audience for this book includes engineers, practitioners, and researchers involved in NIRS system design and utilization in different applications. We believe that they will greatly benefit from the timely and accurate information provided in this work.

**Screening for Colorectal Cancer with Colonoscopy**
Rajunor Ettarh 2015-12-02

Colorectal cancer remains a major health issue for many developed regions around the world. The good news is that early detection has significantly improved overall survival rates and continues to do so. A number of prevention strategies contribute to this positive trend, and today a patient who undergoes a colonoscopy for screening purposes stands a much better chance of being effectively surveyed for prevention of colorectal cancer. Patients can rely increasingly on the improved datasets and technical advances that are being made in screening approaches and skills. With continued progress, particularly in the partnership between clinicians and computer scientists, the future for colorectal cancer surveillance looks increasingly positive for the development of improved tools and methods.

**100 Cases in Clinical Medicine, Second Edition**
John Rees 2011-12-09

100 Cases in Clinical Medicine is an indispensable revision tool for medical students preparing for clinical examinations or OSCEs. Using scenarios which mimic daily life, the cases will interest students in clinical problems and help them develop their clinical reasoning skills, with each case presenting details of a patient's medical history and the key findings of a clinical examination, together with initial investigation results for evaluation. Key questions then prompt the student to evaluate the
patient, and reach a decision regarding their condition and the possible management plan, while the answer pages will help the student to understand the processes that a clinician goes through in dealing with the problems presented. Contents are organised to provide a quick review of each body system, with a selection of cases relevant to that specific system, then the majority are presented randomly to mimic real life in a GP surgery or emergency department. New to this edition: a review of each body system as well as random cases; new page design with a second colour used throughout; and brought up-to-date with 25% new cases.

Hydrocephalus-Bora Gürer
2018-08-01 Hydrocephalus is a common manifestation of many diseases. Caring and treating a patient with hydrocephalus involve engagement and acquire a deep knowledge of anatomy, physiology, and technical details. Despite the technological developments, treatment of hydrocephalus is still a challenge for every neurological surgeon. The aim of this project is to provide a detailed and accessible information for every single discipline, not only for neurological surgeons, involved in the diagnosis and treatment of the patients with hydrocephalus.

Procedures in Critical Care-C. William Hanson
2008-08-31 A complete “visual atlas” for critical-care treatments Procedures in Critical Care is packed with color images that provide complete visual coverage of the subject. Everything from general monitoring to treating neurologic and infectious disease are supported by the book's comprehensive descriptions of the procedures.

Neuroradiology-David M. Yousem
2010 Part of the successful Requisites series, this best-selling title presents everything you need to know about diagnostic imaging of the most commonly encountered neurologic and
Clinical Ethics - Albert R. Jonsen 1992
Clinical Ethics introduces the four-topics method of approaching ethical problems (i.e., medical indications, patient preferences, quality of life, and contextual features). Each of the four chapters represents one of the topics. In each chapter, the authors discuss cases and provide comments and recommendations. The four-topics method is an organizational process by which clinicians can begin to understand the complexities involved in ethical cases and can proceed to find a solution for each case.

Oxford Textbook of Critical Care - Andrew Webb
2016-05-26 The thoroughly revised second edition of the Oxford Textbook of Critical Care is a comprehensive multi-disciplinary text covering all aspects of adult intensive care management. Uniquely the book takes a problem-orientated approach providing a reference source for clinical issues experienced every day in the intensive care unit. The text is organized into short topics allowing readers to rapidly access authoritative information on specific clinical problems. Each topic refers to basic physiological principles and provides up-to-date treatment advice supported by references to the most vital literature. Where international differences exist in clinical practice, authors cover alternative views. Key messages summarise each topic in order to aid quick review and decision making. Edited and written by an international group of recognized experts from many disciplines, the second edition of the Oxford Textbook of Critical Care provides an up-to-date reference that is relevant for intensive care units and emergency departments globally. This volume is the definitive text for all health care providers, including physicians, nurses,
Intensive care for cancer patients requires the expertise of respiratory therapists, and other allied health professionals who take care of critically ill patients. This print edition of The Oxford Textbook of Critical Care comes with a year's access to the online version on Oxford Medicine Online. By activating your unique access code, you can read and annotate the full text online, follow links from the references to primary research materials, and view, enlarge and download all the figures and tables.

Cancer - Vincent T. DeVita 1997

Intensity-Modulated Radiation Therapy - S. Webb 2001-01-01 Clinical conformal radiotherapy is the holy grail of radiation treatment and is now becoming a reality through the combined efforts of physical scientists and engineers, who have improved the physical basis of radiotherapy, and the interest and concern of imaginative radiotherapists and radiographers. Intensity-Modulated Radiation Therapy describes in detail the physics germane to the development of a particular form of clinical conformal radiotherapy called intensity modulated radiation therapy (IMRT). IMRT has become a topic of tremendous importance in recent years and is now being seriously investigated for its potential to improve the outcome of radiation therapy. The book collates the state-of-the-art literature together with the author's personal research experience and that of colleagues in the field to produce a text suitable for new research workers, Ph.D. students, and practicing radiation physicists that require a thorough introduction to IMRT. Fully illustrated, indexed, and referenced, the book has been prepared in a form suitable for supporting a teaching course.

treatment.

**Pulmonary Diseases and Disorders**-Alfred P. Fishman 1988

**Smith's Textbook of Endourology**-Arthur D. Smith, MD 2012-03-12 Edited by the father of endourology, Arthur Smith, Smith's Textbook of Endourology is the definitive reference book in the field, addressing every aspect of endourologic procedure including methods of access, operative techniques, complications, and postoperative care. The reader is taken on a step-by-step journey through percutaneous surgery, ureteroscopy, extracorporeal shock wave lithotripsy, laparoscopy, and lower urinary tract procedures, and is given a comprehensive look at the influx of and dynamic changes in robotic and laparoscopic procedures, and image-guided technologies. The principles and function of state-of-the-art endourologic instruments are outlined for each procedure. Now in full-color, the third edition contains 800 extra pages, culminating in an 1800 page, two-volume textbook reflecting the most current advances in endourology. A supplemental DVD includes over 100 high-quality surgical videos allowing you to see endourology in practice. With all chapters thoroughly revised by world-renowned authors with unrivalled expertise in the field, Smith's Textbook of Endourology 3E is an essential reference book for all urologists, particularly those who regularly perform endourology in their daily practice. This new edition, with its vast amount of extra content, will rightly cement its status as the leading urologic surgery textbook.

**Catheter-Related Infections**-Harald Seifert 2004-10-27 This updated reference describes the latest and most effective strategies in the diagnosis,
management, and treatment of catheter-related infections (CRIs). The guide describes the pathogenesis of infectious complications while discussing procedures in infection control, catheter and catheter-site care, and patient monitoring and evaluation.

This n

Anesthesia Emergencies-
Keith J. Ruskin 2015-07-27
Anesthesia Emergencies contains relevant step-by-step information on how to detect, manage, and treat complications and emergencies during the perioperative period. Concisely written, highlighted sections on immediate management and risk factors reinforce essential points for easy memorization, while consistent organization and checklists provide ease of learning and clarity. Anesthesia providers will find this book an indispensable resource, describing assessment and treatment of life-threatening situations, including airway, thoracic, surgical, pediatric, and cardiovascular emergencies. The second edition contains a revised table of contents which presents topics in order of their priority during emergencies, as well as two new chapters on crisis resource management and disaster medicine.

Lehne's
Pharmacotherapeutics for Nurse Practitioners and Physician Assistants- 2017

The Anesthesia Guide-
Arthur Atchabahian
2013-01-05 A PRACTICAL QUICK-REFERENCE GUIDE TO CLINICAL ANESTHESIOLOGY--PERFECT FOR THE OR AND ICU This carry-anywhere handbook is concise yet comprehensive, adeptly covering the wide range of topics encountered in the practice of anesthesiology. It is the perfect learning tool for trainees and an outstanding reference for experienced anesthesiologists. Presented in full color, The Anesthesia Guide utilizes numerous illustrations, diagrams, tables, and algorithms to impart must-know information on
how specific cases should be managed. Coverage includes drug dosages, monitoring, complications, and clinical pearls. An international team of contributors ensures coverage of topics from a global perspective. The Anesthesia Guide is divided into thirteen color-coded sections for ease of reference:

- Preoperative Coexisting Disease Monitoring
- General Anesthesia Specific Procedures
- Cardiovascular and Thoracic Neuro Regional Acute Pain
- Pediatrics Critical Care
- Rapid Reference (includes important formulae, commonly used phrases in anesthesiology, BLS, ACLS, PALS, and management of malignant hyperthermia)

**Carbon Dioxide Angiography**-Kyung Cho 2007-07-17 With an abundance of illustrations and tables to highlight critical information, this source provides a practical approach to the use of CO2 as a contrast agent for diagnostic angiography, vascular intervention, and other interventional procedures in both adults and pediatrics. Clearly laying-out key points in the science, technique, and clinical applications of this procedure, this source will be a constant companion for physicians treating various disorders affecting arterial and venous circulation.

**Improving Diagnosis in Health Care**-National Academies of Sciences, Engineering, and Medicine 2016-01-29 Getting the right diagnosis is a key aspect of health care - it provides an explanation of a patient's health problem and informs subsequent health care decisions. The diagnostic process is a complex, collaborative activity that involves clinical reasoning and information gathering to determine a patient's health problem. According to Improving Diagnosis in Health Care, diagnostic errors-inaccurate or delayed diagnoses-persist throughout all settings of care and continue to harm an unacceptable number of patients. It is likely that most people will experience at least one diagnostic error in their
lifetime, sometimes with devastating consequences. Diagnostic errors may cause harm to patients by preventing or delaying appropriate treatment, providing unnecessary or harmful treatment, or resulting in psychological or financial repercussions. The committee concluded that improving the diagnostic process is not only possible, but also represents a moral, professional, and public health imperative. Improving Diagnosis in Health Care a continuation of the landmark Institute of Medicine reports To Err Is Human (2000) and Crossing the Quality Chasm (2001) finds that diagnosis—indeed, in particular, the occurrence of diagnostic errors—has been largely unappreciated in efforts to improve the quality and safety of health care. Without a dedicated focus on improving diagnosis, diagnostic errors will likely worsen as the delivery of health care and the diagnostic process continue to increase in complexity. Just as the diagnostic process is a collaborative activity, improving diagnosis will require collaboration and a widespread commitment to change among health care professionals, health care organizations, patients and their families, researchers, and policy makers. The recommendations of Improving Diagnosis in Health Care contribute to the growing momentum for change in this crucial area of health care quality and safety.

Surgical Palliative Care-
Anne C. Mosenthal
2019-10-18 Palliative care has become increasingly important across the spectrum of healthcare, and with it, the need for education and training of a broad range of medical practitioners not previously associated with this field of care. Part of the Integrating Palliative Care series, this volume on surgical palliative care guides readers through the core palliative skills and knowledge needed to deliver high value care for patients with life-limiting, critical, and terminal illness under surgical care. Chapters explore the historical, philosophical, and spiritual principles of surgical palliative care, and follow the
progression of the seriously ill surgical patient's journey from the pre-operative encounter, to the invasive procedure, to the post-operative setting, and on to survivorship. An overview of the future of surgical palliative care education and research rounds out the text. Surgical Palliative Care is an ideal resource for surgeons, surgical nurses, intensivists, and other practitioners who wish to learn more about integrating palliative care into the surgical field.

**Oh's Intensive Care Manual E-Book**-Andrew D Bersten
2018-08-15 For nearly 40 years, Oh’s Intensive Care Manual has been the quick reference of choice for ICU physicians at all levels of experience. The revised 8th edition maintains this tradition of excellence, providing fast access to practical information needed every day in today’s intensive care unit. This bestselling manual covers all aspects of intensive care in sufficient detail for daily practice while keeping you up to date with the latest innovations in the field. Short, to-the-point chapters distill the essential information you need to know for safe, effective care of patients in the ICU. Each topic includes theoretical knowledge, practical methods of treating the condition described, a review of the available evidence, and common pitfalls in treatment and management. Ideal for daily quick reference as well as an efficient review for professional examinations in critical care medicine.

**Oral Anticoagulation Therapy**-Kathryn Kiser
2017-05-31 Given the amount and complexity of information surrounding the the target specific oral anticoagulants a lengthy didactic educational format has the potential to be overwhelming to the reader and difficult to translate and apply to direct patient care. The proposed book will educate clinicians utilizing a series of clinical cases to simultaneously develop the readers’ knowledge base, problem-solving skills, and practically apply their new knowledge to a variety of clinical situations. These will
be short focused case presentations that provide critical information and pose questions to the reader at key points in the decision making process. The cases will be relevant to what clinicians will encounter not only on a daily basis, but also reflective of scenarios that clinicians will not encounter regularly, but that they will have to act upon (e.g. a bleeding patient, patient scheduled for elective or emergent procedure, patient with changing renal function, patient on drugs that have a plausible yet unstudied drug interaction with a target specific oral anticoagulant etc). Included in the case studies will be evidence-based discussions (with appropriate references) that provide immediate feedback on the different treatment alternatives that were offered.

The case studies will be designed to instruct the reader how to select and effectively utilize the most appropriate agent for a given clinical scenario. They will focus on key features of the target specific oral anticoagulants, what they have in common, how they are unique from each other, as well as illustrating the clinical decision process one should take when selecting an agent or managing a patient already receiving one of the target specific oral agents.

**Mechanical Complications of Myocardial Infarction**
Tirone E. David 1993