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KEY=POCKET - MATTEO TRINITY

PRIMARY ANGIOPLASTY

A PRACTICAL GUIDE

Springer This book is open access under a CC BY 4.0 license. This quick-reference handbook offers a concise and practical review of key aspects of the treatment of ST-segment elevation myocardial infarction (STEMI) in the era of primary percutaneous coronary intervention (PPCI). In the context of STEMI, PPCI is the preferred mode of emergency revascularization. Access to PPCI is rapidly increasing and is now routinely practiced in both general and specialist hospitals and there has been a recent emphasis on developing STEMI networks to enhance and expedite the referral pathway. This coupled with concurrent developments to enhance the safety and efficacy of the PPCI procedure has heralded an era where STEMI interventions are increasingly considered an important subspecialty within interventional cardiology. Written by leading cardiologists who have been instrumental in the adoption of PPCI in their respective institutions, the book provides junior and senior cardiologists alike with insightful and thought-provoking tips and tricks to enhance the success of PPCI procedures, which may in turn translate into direct improvements in outcomes. The book is also relevant for healthcare providers and emergency department physicians.

EQUITY AND EXCELLENCE:

LIBERATING THE NHS

The Stationery Office Equity and Excellence : Liberating the NHS: Presented to Parliament by the Secretary of State for Health by Command of Her Majesty

ATRIAL FIBRILLATION AND PERCUTANEOUS CORONARY INTERVENTION

A CASE-BASED GUIDE TO ORAL ANTICOAGULATION, ANTIPLATELET THERAPY AND STENTING

Springer This book considers paradigmatic clinical cases in order to cast light on key issues relating to elective or emergency stent implantation and the use of oral anticoagulation (OAC) in patients with atrial fibrillation. The topics addressed include the optimal periprocedural antithrombotic treatment (uninterrupted vs interrupted OAC, intraprocedural use of heparin and glycoprotein IIb/IIIa inhibitors, etc.), the most appropriate type of stent (bare metal vs drug eluting vs “bioactive”), the optimal regimen (e.g., triple therapy of OAC, aspirin, and clopidogrel vs the combination of OAC and a single antiplatelet agent), and the most suitable duration of the antithrombotic treatment prescribed at discharge (1 vs 6–12 months). The case-based management recommendations will be of wide practical value in the current health care context, where percutaneous coronary intervention is available even to patients with relevant co-morbidities, such as those warranting long-term OAC, and the indications for OAC are much broader than in the past. The book will appeal especially to clinical and interventional cardiologists, internal medicine specialists, hematologists, and family physicians and will also be of interest to cardiology and internal medicine residents and fellows.

MANUAL OF PERCUTANEOUS CORONARY INTERVENTIONS

A STEP-BY-STEP APPROACH

Academic Press Manual of Percutaneous Coronary Interventions: A Step by Step Approach is a practical, easy to read reference guide on how to perform percutaneous coronary. Written by recognized experts in the field, this reference compiles the necessary steps, lists pitfalls to watch out for, and provides tactics on troubleshooting percutaneous coronary interventions. Written to bring a practical and easy to read approach, this book is perfect for interventional cardiologists, interventional and general cardiology fellows, cardiology researchers, physicians, cardiac catheterization laboratory personnel, technical staff, industry professionals and anyone interested in understanding the cutting-edge and rapidly evolving field of coronary PCI. Provides a practical, case-oriented and easy to read reference with four color illustrations and step-by-step guidance for percutaneous coronary intervention Includes expert guidance from leaders with large clinical experience Includes access to a companion website that houses videos that demonstrate various PCI techniques, including narration

PERCUTANEOUS CORONARY INTERVENTIONS FOR CHRONIC TOTAL OCCLUSION

A GUIDE TO SUCCESS

Springer This book equips readers with the knowledge required in order to successfully treat coronary chronic total occlusion by means of percutaneous coronary interventions. All the essential background knowledge is provided, including with regard to procedurally relevant histopathology, assessment of chronic total occlusion by means of angiography and computed tomography, patient preparation, and selection and use of guidewires. Both basic and advanced techniques employing antegrade and retrograde approaches are then described in detail with the aid of numerous high-quality illustrations that ensure ease of understanding. Helpful tips and tricks are highlighted, and guidance provided on the troubleshooting of problems and the prevention and management of complications. The book will serve as a superb guide for all who are involved in percutaneous coronary interventions for chronic total occlusion, including interventional cardiologists, fellows in training, nurses, and technicians in catheterization laboratories.

CURRENT TREND AND TECHNIQUES OF PERCUTANEOUS CORONARY INTERVENTION FOR CHRONIC TOTAL OCCLUSION

Springer Nature This book discusses the clinical indications for chronic total occlusion (CTO) recanalization using percutaneous coronary intervention (PCI) and illustrates the recent academic findings on this constantly developing field of study. In addition to exploring the indications for revascularization and reading angiographies, the authors examine new strategies and techniques using innovative materials and equipment employing the antegrade, retrograde and their hybrid approaches, with a particular focus on the settings and management as well as the prevention of complications. They also describe the future potential of CTO PCI, with emphasis on how the latest advances in clinical science may be integrated into current and future therapies. Current Trend and Techniques of Percutaneous Coronary Intervention for Chronic Total Occlusion is an informative book providing academic insights for interventional cardiologists, vascular surgeons, clinical residents, medical students and scholars in the field of peripheral arterial CTO interventions.

PERCUTANEOUS CORONARY INTERVENTION IN THE PATIENT ON ORAL ANTICOAGULATION

OUP Oxford The management of patients committed to long-term oral anticoagulation, such as those with atrial fibrillation at moderate to high risk of stroke, mechanical heart valves, and previous arterial/venous thromboembolism, who are submitted to percutaneous coronary intervention (PCI) has

become an issue of increasing importance in the last years. Guidelines/expert consensus papers addressing the complex management of this population, which is estimated to represent about 5 to 10% of all patients referred for PCI, have been recently made available. As underlined in the most recent guidelines for the management of atrial fibrillation issued by the European Society of Cardiology (ESC) however, "guidelines are no substitutes for textbooks". This pocketbook addresses the key management points and summarises the properties of the stents and the clinical pharmacology of the antithrombotic agents to be used in these patients. It will be a useful guide for clinical and interventional cardiologists, internists, surgeons, primary care doctors, and other physicians who care for these patients.

PROCEDURE SITE BLEEDING COMPLICATIONS FOLLOWING PERCUTANEOUS CORONARY INTERVENTIONS OR ANGIOPLASTY

A REVIEW OF CLINICAL EVIDENCE AND GUIDELINES

Percutaneous coronary intervention (PCI) or angioplasty is a procedure to treat stenotic (narrowed) coronary arteries. To minimize the risk of thrombotic complications during and shortly after the procedure, patients receive antithrombotic agents. However, antithrombotic agents may increase the risk of bleeding. Peri-procedural bleeding is the most common non-cardiac complication of PCI and is associated with short- and long-term risk of mortality, other ischemic events, prolonged in-hospital stay and higher costs of care. In patients undergoing PCI, approximately half of the bleeding events occur at the arterial access site. In deciding on the appropriate antithrombotic regimen for patients undergoing PCI, both protection from thrombotic complications and avoidance of peri-procedural bleeding need to be considered. This review was undertaken to investigate the incidence of procedure site bleeding with pre- or post-operative exposure to antithrombotic agents, specifically clopidogrel, aspirin, tenecteplase, bivalirudin, or heparin, in comparison with no pre- or post-operative exposure to these agents and to examine management strategies for procedure site bleeding complications following PCI.

A NURSE'S GUIDE TO CARING FOR CARDIAC INTERVENTION PATIENTS

John Wiley & Sons Cardiac intervention is a fast expanding field of medicine that is reducing the need for cardiac surgery. A Nurse's Guide to Caring for Cardiac Intervention Patients will enable nurses to fully prepare their patients and families for various cardiac intervention procedures. Coverage includes: Explanations of what the heart condition is and how the procedure may relieve that condition Descriptions of what the patient can expect to happen before, during and after the procedure What nurses should observe for post procedure, and how to address any complications that may occur Guidelines for discharge advice Outlines for a pre and post care plan for each procedure - based on the latest research and experience. Nurses will find the book informative on common interventional procedures, but it is also designed as a tool to be dipped into when caring for patients with more unusual procedures. This practical book includes chapters on: cardiac catheterisation; percutaneous coronary intervention; percutaneous balloon mitral valvuloplasty; removal of femoral sheaths; cardioversion; temporary and permanent pacemakers.

COMMON CLINICAL DILEMMAS IN PERCUTANEOUS CORONARY INTERVENTIONS

CRC Press Coronary stenting is the most commonly used method of myocardial revascularization, with approximately 2 million stents implanted in 2004 throughout the world. The development of drug eluting stents has resulted in very low rates of repeat intervention and will further increase the scope for percutaneous coronary intervention. The evidence from larg

CARDIAC DISEASES

NOVEL ASPECTS OF CARDIAC RISK, CARDIORENAL PATHOLOGY AND CARDIAC INTERVENTIONS

BoD - Books on Demand This is the latest book in a series of cardiovascular-related texts from IntechOpen Publishing. The present volume considers general aspects of cardiac disease and is divided into three distinct sections covering cardiac risk, cardiorenal pathology, and novel interventional surgical techniques. The chapters offer insight into the current state of the art with respect to the risks of developing cardiovascular diseases, maintenance of patent vascular access in patients with the cardiorenal syndrome, and a plethora of novel interventional technologies all aimed at salvaging damaged tissue and improving prognosis and reducing mortality. This volume of 18 chapters is intended for general medical and biomedical students at both undergraduate and postgraduate level. It also offers insightful updates on recent advances in the understanding of the pathophysiology of cardiac diseases and the new techniques added to the medical armamentarium to improve the outcomes and prevent mortality and would be of interest to those working in academia and healthcare science.

INTERVENTIONAL CARDIOLOGY

PRINCIPLES AND PRACTICE

John Wiley & Sons Expert guidance from internationally recognized authorities, who provide clear and current updates on all aspects of interventional cardiology. This new edition: Contains a radically expanded chapter contents list presented in four clear sections: coronary interventions, interventional pharmacology, structural heart interventions, and endovascular therapy Includes 46 new chapters, including the latest advances in bioresorbable coronary stents, advanced transcatheter aortic valve replacement, MitraClip, new transcatheter mitral valve interventions, and more Chapters are templated for rapid referral, beginning with pathophysiological background and relevant pathology, moving to mechanisms of treatment, device description, procedural techniques, follow-up care, and ending with risks, contraindications and complications Multiple choice questions at the end of each chapter for self-assessment, a total of more than 400 MCQs in the book Features 19 procedural videos, hosted on a companion website

BIORESORBABLE SCAFFOLDS

FROM BASIC CONCEPT TO CLINICAL APPLICATIONS

CRC Press This book focuses on the coronary bioresorbable scaffold, a new interventional treatment for coronary artery disease, differentiated from a permanent metallic stent. The book provides an overview of the technology including non-clinical studies and clinical evidences in order to help clinicians understand the appropriate application of the technology and the optimal techniques of implantation. It covers the basics of bioresorbable scaffolds; bench test results; preclinical studies; clinical evidences; and tips and tricks of implantation.

DUAL ANTIPLATELET THERAPY FOLLOWING PERCUTANEOUS CORONARY INTERVENTION

RECOMMENDATIONS. CLINICAL AND ECONOMIC IMPACT OF STANDARD VERSUS EXTENDED DURATION

Dual antiplatelet therapy (DAPT; combination of a P2Y12 inhibitor with ASA is generally given for six to 12 months following percutaneous coronary intervention (PCI) with stenting, with the aim of preventing stent thrombosis and major adverse cardiac and cerebrovascular events (MACCEs). However, debate is ongoing about the optimal duration of DAPT. Of note, patient characteristics may be an important factor in treatment duration decisions. In some settings, DAPT for less than six months may be appropriate (e.g., patients with high risk of bleeding), while other patients may derive greater benefit from extended DAPT, i.e., duration beyond 12 months (e.g., high risk of stent thrombosis and low risk of bleeding). Current guidelines recommend tailoring the length of DAPT depending on patient characteristics. The American College of Cardiology/American Heart Association (ACC/AHA) guidelines recommend DAPT for six months following PCI for patients with stable coronary artery disease and for 12 months in patients with acute coronary syndrome (ACS), with the consideration of extended DAPT beyond 12 months if potential thrombotic risk is high and bleeding risk is deemed low. Particularly, the use of the DAPT score as a potential means of identifying high-risk patients was emphasized. Similarly, the European Society of Cardiology (ESC) updated guidelines in 2017 also support a one-year minimum duration of DAPT for patients with ACS. Recent Canadian guidelines support an individualized approach to selecting DAPT duration, with different recommendations for patients with ACS or non-ACS indications at the time of PCI. Given the risk of developing stent thrombosis and de-novo recurrent ischemic events, evidence assessing the impact of extending the duration of DAPT beyond 12 months has been increasing during the last few years. Clinicians need to consider the potential benefits of extended DAPT alongside the associated bleeding risk to identify patients who are most likely to benefit. Also, in some jurisdictions, reimbursement of P2Y12 inhibitors after coronary stenting may be limited to 12 months, particularly reimbursement of prasugrel and ticagrelor. Accordingly, in 2018, CADTH undertook a systematic review of relevant randomized clinical trials (RCTs); a cost-utility analysis was also conducted to complement that work. Results from both assessments are available in a science report. Findings from this work were considered by the CADTH Canadian Drug Expert Committee (CDEC) to develop the recommendations that follow.

THE INTERVENTIONAL CARDIOLOGY TRAINING MANUAL

Springer This textbook is a readily accessible educational tool for all fellows undertaking subspecialty training in interventional cardiology, while also serving as a refresher to early career interventional cardiologists. The key objective is to equip the reader with an evidence-based expert-led resource focussed primarily on pre-procedural planning, peri-procedural decision-making, and the salient technical aspects of performing safe and effective coronary intervention, the intention being to support the therapeutic decision-making process in the emergency room, coronary care unit or cath lab in order to optimize patient outcome. The Interventional Cardiology Training Manual provides readers with a step-by-step guide to the basic principles underpinning coronary intervention and facilitates rapid access to best practice from the experts, presented in a pragmatic, digestible and concise format. Uniquely, each chapter has been written in a heart center-specific manner, affording the reader an opportunity to learn how individual institutions perform a specific procedure, which algorithms and guidelines they follow and what evidence they draw on to instigate the best possible care for their patients.

PERCUTANEOUS INTERVENTION FOR CORONARY CHRONIC TOTAL OCCLUSION

THE HYBRID APPROACH

Springer A practical and technical handbook providing operators with a step-by-step description of how to perform some of the techniques involved in the procedures, and how to troubleshoot some of the problems along the way. Examples with pictures will be provided, along with live angiographies. At the end of each chapter, the author will be provided with 3 questions to answer. Those questions will be developed by the editor and the contributors. The idea is to provide a quick reference to the most current problems encountered with a specific issue developed in the chapter. Nowadays, the busy clinician is unlikely to exclusively rely on lengthy textbooks to learn specific complex techniques. That is one of the reasons for the popularity of CTO courses, live demonstrations, and conferences and, there are consequently many courses offered around the world to help new operators in the field. CTO PCI has emerged as a very effective procedure to help patients with CTOs, with very high success and low complications rates. It is however a very challenging procedure with multiple pitfalls along the way to success, both in specific cases, but also in the learning process. There are currently no single reference or "one-stop shop" for the operator who wants to learn a given technique that he or she may have seen performed live in a dedicated proctorship event, or in a live demonstration, or to even troubleshoot a problem encountered in daily CTO PCI practice. This will be the first handbook formatted for the busy interventional cardiologist. This book will become a "must have" for operators who are practicing CTO PCI and who want a quick reference. However, it will also provide tips and tricks currently used in the field.

ADVANCES IN EXTRA-CORPOREAL PERFUSION THERAPIES

BoD - Books on Demand Extracorporeal membrane oxygenation (ECMO) has evolved into an exciting and valuable tool to assist in the management of patients experiencing cardiogenic shock, severe acute respiratory failure, or often a combination of both. While outcomes remain less than ideal, they continue to improve with team experience, better patient selection, and a growing understanding of the nuances of managing patients who require mechanical circulatory support. Patients requiring ECMO are often extremely sick and have complex problems - initiating therapy before the development of end-organ damage is critical. Without doubt, teamwork, guidelines, and protocols are cornerstone concepts for clinical and program success - all topics that are emphasized in this text. The goals of this text are to further outline topics that help address some of the key challenges providers face when considering and applying extracorporeal support therapies to the evolving spectrum of acutely ill patients.

FLOATING POPULATION AS RISK FA

Open Dissertation Press This dissertation, "Floating Population as Risk Factor Affected Achievement of Primary Percutaneous Coronary Intervention (PCI) for Acute Myocardial Infarction (AMI) in Guangzhou" by Xiaoming, Lei, 雷晓明, was obtained from The University of Hong Kong (Pokfulam, Hong Kong) and is being sold pursuant to Creative Commons: Attribution 3.0 Hong Kong License. The content of this dissertation has not been altered in any way. We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation. All rights not granted by the above license are retained by the author. Abstract: Background: Although current guidelines recommend that primary percutaneous intervention (PCI) should be performed for ST-elevation myocardial infarction (STEMI), accessibility to this important health care service for severe heart emergency among floating population in Guangzhou remains largely unstudied and poorly understood. This retrospective study explored the variations in the odds of receiving primary PCI for STEMI patients among floating population and residential population in Guangzhou. Methods: Study data were collected from the First People's Municipal Hospital of Guangzhou to conduct a cross-sectional study of 1,216 patients with STEMI (code 410 of ICD-9) for the period from 2009 to 2014. Data in this study, including demographic and clinical characteristics, invasive treatment and pre-hospital delay time, was retrieved from electronic medical record system developed in 2005 and maintain a comprehensive electronic record of all patients of hospital. Chi-square test was performed to evaluate the differences in demographic characteristics and coexisting condition among STEMI patients between floating population and residential population. Differences in receipt primary PCI, pre-hospital delay time and door-to-balloon time between two population groups were evaluated by a binary logistic regression model. To evaluate the performance odds, I adjusted for age, gender, and coexisting conditions. Data of the study was analysed using the SPSS 21 package software. Result: Compare to residential population, STEMI patients in floating population were less likely to receive primary PCI (20.5% vs 26.3%, P=0.049). On adjusting for sex, age and coexisting conditions, the odds of receipt primary PCI for STEMI patients in floating population was lower than residential population (floating population, OR=0.63, 95% CI=0.45-0.88; residential population, OR=1.0). More pre-hospital delays of STEMI patients undergoing primary PCI were found in floating population, the odds of delay time >6 hours was higher than residential population (OR=4.27, 95% CI=1.49-12.24). There was no statistical difference in door-to-balloon time >90 minutes between two population groups (OR=1.61, 95% CI=0.60-4.32). Conclusion: Patients with STEMI in Guangzhou floating population were less likely to receive primary PCI. Policy interventions including government subsidy on severe disease in population, pilot medical insurance schemes, and transferability of insurance payment cross provinces are needed to increase the accessibility to emergency severe health care for STEMI patients in floating population. Additionally, an educational program on early symptoms and rapid response of STEMI should be established to increase the awareness at national level, especially in floating population. Subjects: Myocardial infarction - Treatment - China - Guangzhou

INTERVENTIONAL CARDIOLOGY IMAGING

AN ESSENTIAL GUIDE

Springer Interventional cardiology has transitioned from angiographic subjective analysis of stenosis severity into assessment of plaque characteristics and objective assessment of stenosis severity. The evolution of novel interventional imaging modalities is progressively altering our understanding of coronary artery disease diagnosis and prognosis. This book will be an essential companion to assist interventional cardiologists in better assessing patients with Coronary Artery Disease. It will encompass and review all interventional imaging modalities and provide guidance for interventional cardiologists to use these modalities.

CARDIOVASCULAR DISABILITY

UPDATING THE SOCIAL SECURITY LISTINGS

National Academies Press The Social Security Administration (SSA) uses a screening tool called the Listing of Impairments to identify claimants who are so severely impaired that they cannot work at all and thus immediately qualify for benefits. In this report, the IOM makes several recommendations for improving SSA's capacity to determine disability benefits more quickly and efficiently using the Listings.

MANAGEMENT OF ACUTE CORONARY SYNDROMES

John Wiley & Sons Acute Coronary Syndrome covers the spectrum of clinical conditions ranging from unstable angina to non-ST elevation myocardial infarction and ST elevation myocardial infarction. These life-threatening disorders are a major cause of emergency medical care, hospitalization and mortality. Management of Acute Coronary Syndromes is designed to provide busy clinicians with a comprehensive guide to the investigation, diagnosis and treatment of these syndromes. It encompasses the latest technologies, including the use of biomarkers and non-invasive imaging procedures. For each condition, the reader is taken through all of the therapeutic options available; in each case the indications and contraindications are evaluated in the light of the latest clinical trials. Potential complications are dealt with in a similar fashion, permitting the reader to anticipate and manage problems as they arise. The authors also present evidence-based recommendations for long-term care of at-risk patients, encompassing pharmacologic therapies and lifestyle management. The book concludes with a comprehensive collection of appendices that include treatment algorithms, risk scores and a summary of the latest management guidelines. Management of Acute Coronary Syndromes is the most up to date and comprehensive evidence-based guide to managing acute coronary syndromes, in a compact and usable format. It will be of interest to busy specialist physicians in cardiovascular medicine, cardiac and vascular surgery, and critical care, as well as primary care physicians and hospitalists who care for patients with these syndromes.

PERCUTANEOUS INTERVENTIONS IN WOMEN, AN ISSUE OF INTERVENTIONAL CARDIOLOGY CLINICS - E-BOOK

Elsevier Health Sciences Heart disease is the leading cause of death among US women over the age of 65, resulting in more deaths than all forms of cancer combined. Women are less likely to survive heart attacks than are men, possibly because symptoms in women may differ and may be less recognizable. In addition, women consistently tend to have worse clinical outcomes in percutaneous coronary interventions than do men. For these reasons, an issue on percutaneous interventions in women is timely.

MANUAL OF CORONARY CHRONIC TOTAL OCCLUSION INTERVENTIONS

A STEP-BY-STEP APPROACH

Academic Press Manual of Coronary Chronic Total Occlusion Interventions: A Step-by-Step Approach is a practical, easy to read reference for coronary chronic total occlusion interventions (CTO). Written by recognized national and international experts in the field, this reference compiles the steps necessary to perform, pitfalls to watch out for, and troubleshooting needed for coronary chronic total occlusion interventions (CTO). BMA Medical Book Awards 2014 - Highly Commended, Cardiology, 2014, British Medical Association A practical, case-oriented and easy to read reference with illustrations and step-by-step guidance for coronary chronic total occlusion interventions (CTO). Includes expert guidance reviewed by leaders in the field with both large clinical experience with high success rates and extensive experience proctoring CTOs in multiple clinical centers.

PERCUTANEOUS CORONARY INTERVENTION

PROCEDURES, MEDICAL USES AND ADVERSE EFFECTS

Nova Science Pub Incorporated Percutaneous coronary intervention (PCI) has entered its third decade, as it had gone through a PTCA era, BMS era, and entered into the DES era. This book summarises information gathered from recent literature in the field of PCI, focusing on PCI procedures, adjunctive pharmacotherapy and adverse effects. The editor has put together a comprehensive, in-depth guide to PCI, which has seen great advances in the understanding and management of coronary artery disease in recent years. The book examines all aspects of PCI in detail, in isolation and in combination with procedures, or medical uses and its adverse effects, to fulfil the aim of helping healthcare professionals and medical students to better understand and manage PCI problems in the DES era.

LEFT MAIN CORONARY ARTERY DISEASE

A PRACTICAL GUIDE FOR THE INTERVENTIONAL CARDIOLOGIST

Springer Science & Business Media Recent developments in the field of percutaneous coronary intervention and encouraging data relating to feasibility and safety have led to a renewed interest in left main angioplasty. Interventional cardiologists are faced with the challenge represented by this complex subset of lesions. The first part of this practical handbook specifically deals with the development of the anatomical classification and gives an overview of the frequency of different anatomic phenotypes. The second part provides a comprehensive knowledge on the techniques and approach to left main coronary artery disease and discuss the potential complications. The authors draw on their practical experience to look at expected or potential morbidity from percutaneous coronary intervention. The aim of this book is to provide interventional cardiologists with useful tips and tricks for percutaneous coronary intervention of the left main coronary artery.

INTERVENTIONAL CARDIOLOGY AND CARDIAC CATHETERISATION

THE ESSENTIAL GUIDE, SECOND EDITION

CRC Press Cardiology is becoming an increasingly complex field understood by only a select group of medical specialists. This publication demystifies many difficult topics in interventional cardiology and cardiac catheterisation, commencing with the basics of laboratory instrumentation and technology and progressing to a comprehensive review of both new and established cardiac interventions. Unlike other publications that are directed mainly towards clinicians, this text is specifically written to assist newcomers such as such as medical trainees, nurses, technicians, scientific staff and other allied health professionals understand the wonders of interventional cardiology, and includes extensive explanations of the techniques of angiography, and new percutaneous. The comprehensive information presented herein, written by recognised specialists in their respective fields, will no doubt prove of great benefit to clinician and non-medical specialist alike.

900 QUESTIONS

AN INTERVENTIONAL CARDIOLOGY BOARD REVIEW

Lippincott Williams & Wilkins This user-friendly review question book is geared to interventional cardiology board candidates either for initial certification or recertification. It contains 900 questions in the same proportion as the actual exam to ensure highly targeted, high-yield preparation. Answers with brief explanations and references are included. Indications for particular procedures—a major focus of the board exam—are integrated throughout the text, particularly in the context of ACC/AHA guidelines. More than 250 angiograms and other illustrations reinforce key concepts. Separate chapters cover ACC/AHA guidelines for percutaneous coronary intervention, chronic stable angina, acute coronary syndromes, and ST-elevation myocardial infarction. A chapter on test-taking is also included.

CORONARY ANGIOPLASTY

EVOLVED TO PERFECTION

JP Medical Ltd Coronary angioplasty is a procedure used to widen blocked or narrowed coronary arteries, the main blood vessels supplying the heart. The term 'angioplasty' means using a balloon to stretch open a narrowed or blocked artery. However, most modern angioplasty procedures also involve inserting a short wire-mesh tube, called a stent, into the artery during the procedure. The stent is left in place permanently to allow blood to flow more freely (NHS Choices). This book is a complete guide to the practice of coronary angioplasty for practising cardiologists and trainees. Beginning with an introduction to the evolution of the technique and the fundamentals of stent design, each of the following chapters provides in depth detail on angioplasty procedures for different disorders. The final sections discuss potential complications, rehabilitation, outcomes, and the future of angioplasty. This comprehensive text is highly illustrated with clinical photographs, diagrams and tables to enhance learning. Key Points Comprehensive guide to coronary angioplasty for clinicians and trainees Describes the complete evolution of the technique, from its beginnings to future developments Covers angioplasty procedures for many different disorders Highly illustrated with clinical photographs, diagrams and tables

CT OF THE HEART

Humana Press This book is a comprehensive and richly-illustrated guide to cardiac CT, its current state, applications, and future directions. While the first edition of this text focused on what was then a novel instrument looking for application, this edition comes at a time where a wealth of guideline-driven, robust, and beneficial clinical applications have evolved that are enabled by an enormous and ever growing field of technology. Accordingly, the focus of the text has shifted from a technology-centric to a more patient-centric appraisal. While the specifications and capabilities of the CT system itself remain front and center as the basis for diagnostic success, much of the benefit derived from cardiac CT today comes from avant-garde technologies enabling enhanced visualization, quantitative imaging, and functional assessment, along with exciting deep learning, and artificial intelligence applications. Cardiac CT is no longer a mere tool for non-invasive coronary artery stenosis detection in the chest pain diagnostic algorithms; cardiac CT has proven its value for uses as diverse as personalized cardiovascular risk stratification, prediction, and management, diagnosing lesion-specific ischemia, guiding minimally invasive structural heart disease therapy, and planning cardiovascular surgery, among many others. This second edition is an authoritative guide and reference for both novices and experts in the medical imaging sciences who have an interest in cardiac CT.

CARDIOVASCULAR CATHETERIZATION AND INTERVENTION

A TEXTBOOK OF CORONARY, PERIPHERAL, AND STRUCTURAL HEART DISEASE

CRC Press The field of invasive and interventional cardiology is dynamic with frequent advances in both technique and technology. An internationally-renowned team of editors and over 100 contributors have shaped this textbook to provide clinicians with a thorough guide that covers the procedural and peri-procedural aspects of coronary, peripheral, and structural heart disease diagnostics and interventions. This comprehensive and highly illustrated textbook presents critical information for anyone active in the field of cardiovascular interventions, including: Practical suggestions on how to set up a cardiovascular catheterization laboratory, choose the right equipment and minimize radiation exposure. A careful analysis of the general principles of percutaneous coronary interventions, the specific knowledge needed in different clinical scenarios, as well as the patient selection criteria for each invasive procedure. In-depth coverage of non-coronary interventions, including 13 chapters on peripheral vascular interventions, including carotid artery stenting, as well as newer procedures for intracranial stenosis treatment, septal defect repair, and left atrial appendage closure. An incorporation of emerging procedures in structural heart disease, such as percutaneous aortic valve replacement and mitral valve repair—that although not presently mainstream, will likely become an important domain of interventional cardiologists. Given the importance of appropriate training and credentialing for clinicians, the textbook also includes current national guidelines and policies on the performance of the various procedures.

PRACTICAL MANUAL OF INTERVENTIONAL CARDIOLOGY

Springer This practical handbook is based on an internal working manual developed by staff and fellows at Mount Sinai Heart Cardiovascular Catheterization Laboratory, renowned for its high-volume and low complication complex coronary procedures. The Practical Handbook of Interventional Cardiology captures the knowledge and methodological know-how from leaders in interventional cardiology, it intends to guide users in a stepwise, methodical and practical approach through various cardiac interventional procedures in order to achieve maximum patient safety and improved outcomes. From patient selection, preoperative work-up, setting up equipment to step-by-step illustrations of various procedural details and troubleshooting, this handbook captures all the details necessary to perform the simplest to the most complex cardiac interventions. The book is designed for cardiologists and trainees who desire an efficient way to review the steps of various cardiac interventional procedures and a quick, reliable reference for everyday use.

PERCUTANEOUS CORONARY INTERVENTION FOR CHRONIC TOTAL OCCLUSION

THE HYBRID APPROACH

Springer The second edition of this essential text provides readers with a detailed guide to performing various percutaneous coronary intervention (PCI) techniques for treating coronary chronic total occlusion (CTO). PCI continues to be an effective procedure to help patients with this pathology, with high success and low complications rates. Chapters feature a step-by-step approach to relevant techniques and describe their potential pitfalls, enabling the reader to develop a thorough understanding of how to perform those procedures successfully. Details of the latest methods for angiography analysis and the management of ostial CTOs, plus heavily revised chapters on topics such as contemporary device-based antegrade dissection and the retrograde approach through septal and non-septal collateral channels ensure that this Work remains the most up-to-date reference on the subject. Percutaneous Intervention for Coronary Chronic Total Occlusion: The Hybrid Approach represents a vital reference to assist practicing and trainee interventional cardiologist in learning these techniques. Various examples are provided, with a vast selection of still images and angiographic video loops to enable the reader become confident in applying these methodologies into their day-to day clinical practice.

TRANSRADIAL APPROACH FOR PERCUTANEOUS INTERVENTIONS

Springer This book outlines the state of the art in transradial intervention and illustrates case-based learning for the transradial access (TR access) technique, especially in complex lesions. Offering a practical guide, it includes essential tips and tricks on how to overcome anatomical complexities, how to avoid radial complications, multiple case-based learning for very complex PCI, etc. It also discusses the advantages of the TR intervention, such as reduced vascular access site complications and immediate patient mobilization. The authors, who work at respected transradial centers, share their extensive experience with TR intervention, providing a comprehensive review of current percutaneous interventions for cardiac surgeons and cardiothoracic surgical residents. Editor Yujie Zhou is a Professor at the department of Cardiology, Anzhen Hospital, Beijing, China. Editor Wei Liu is a physician at the same department. Editor Ferdinand Kiemeneij is an interventional cardiologist at Department of Cardiology, Tergooi Hospital, Blaricum, the Netherlands. Editor Shigeru Saito, FACC, FSCAI, FJCC, is the director of cardiology and Catheterization Laboratories, Shonan Kamakura General Hospital, Kamakura, Japan.

ACUTE CORONARY SYNDROME - ECAB

Elsevier Health Sciences Acute coronary syndrome (ACS) is the term for the clinical signs and symptoms of myocardial ischemia: unstable angina, non-ST-segment elevation myocardial infarction (NSTEMI), and ST-segment elevation myocardial infarction (STEMI). Unstable angina and NSTEMI normally result from a partially or intermittently occluded coronary artery, whereas STEMI results from a fully occluded coronary artery. The patients present with a wide arena of signs and symptoms like chest pain, nausea/vomiting, exertional pain, palpitation, shortness of breath, fatigue, etc. Angina, or chest pain, continues to be recognized as the classic symptom of ACS. In unstable angina, chest pain normally occurs either at rest or with exertion and results in limited activity. Chest pain associated with NSTEMI is usually longer in duration and more severe than chest pain associated with unstable angina. The diagnosis of ACS is based on triad of clinical presentation, electrocardiography and cardiac biomarkers. Electrocardiography is the most important initial diagnostic procedure when doctors suspect an acute coronary syndrome. Findings on a 12-lead ECG help the practitioner to differentiate between myocardial ischemia, injury, and infarction, locate the affected area and assess related conduction abnormalities. But at the same front, the definition of unstable angina, NSTEMI and STEMI is based on the levels of cardiac biomarkers too. Acute coronary syndromes are medical emergencies that need prompt action. Half of deaths due to a heart attack occur in the first 3-4 hours after symptoms begin. The sooner treatment begins, the better the chances of survival. Anyone having symptoms that might indicate an acute coronary syndrome should obtain prompt medical attention. Management of ACS involves a spectrum of interventions. It encompasses cardiac monitoring, thrombolysis, antiplatelet therapy, anticoagulant therapy, reperfusion therapy and invasive investigation and revascularization therapy. Reperfusion therapy (percutaneous coronary intervention) mainly holds for the ST-elevation myocardial infarction. Prognosis of the ACS patients depends on the post-myocardial risk stratification. The main highlights of risk stratification are risk stratification scores, assessment of cardiac function and stress testing, and management.

COMPLICATIONS OF PERCUTANEOUS CORONARY INTERVENTION

THE SURVIVAL HANDBOOK

Springer Complications of Percutaneous Coronary Intervention: The Survival Handbook aims to serve as a reference manual for all cardiologists, particularly those in training, who face life-threatening complications of PCI on a day-to-day basis. Drawing on the background and experience of cardiologists from both sides of the Atlantic, the book aims to be a valuable, practical, and most of all readable resource for the interventional cardiologist. The principles and practices described in the book will be of interest to all practitioners of interventional catheter procedures, including interventional radiologists, vascular surgeons, and cardiologists. Few medical procedures have evolved as dramatically or as quickly as percutaneous coronary intervention (PCI). From its initial conception, PCI has evolved to become a very complex procedure. Each year in the United States well over 1,000,000 percutaneous coronary intervention procedures are performed. However as the volume and complexity of the procedures being performed has increased, so has the potential for procedural error leading to life-threatening complications. Knowledge of what complications can occur during PCI and how to deal with them is vital for the practicing cardiologist, and can mean the difference between life and death.

CURRENT BEST PRACTICE IN INTERVENTIONAL CARDIOLOGY

John Wiley & Sons Current Best Practice in Interventional Cardiology addresses the questions which challenge clinicians involved with interventional procedures. Helpfully organized into four sections, the text addresses; coronary artery disease, non-coronary interventions, left ventricular failure and the latest advances in imaging technologies, and provides authoritative guidance on the current recommendations for best practice. Containing contributions from an international team of opinion leaders, this new book reviews the key advances in equipment, techniques and therapeutics and is an accessible reference for all hospital-based specialists.

TEXTBOOK OF INTERVENTIONAL CARDIOLOGY

GLOBAL PERSPECTIVE

JP Medical Ltd *Interventional Cardiology* is an extensive, richly illustrated guide to this field of medicine. The book is edited by internationally recognised experts, led by Professor Samir Kapadia. This book provides comprehensive coverage of all aspects of interventional cardiology, across five sections, further divided into 88 chapters. The first section covers the evolution periprocedural pharmacology, beginning with chapters on the history of coronary intervention and concluding with clinical cases. The second section covers specific coronary interventions, taking either a disease-based or an anatomical approach. The chapters also provide information on individual patient groups, such as the elderly and diabetics. Detailed chapters on a range of devices used in interventional cardiology are included in this section. Further sections cover a wide range of peripheral and structural interventions, and the final chapter on general topics includes radiation protection, prevention and management of bleeding, and haemodynamic essentials. Enhanced by 700 full colour images, *Interventional Cardiology* is an authoritative resource for all cardiologists. **Key Points Comprehensive**, illustrated guide to interventional cardiology Edited by internationally recognised experts led by Prof Samir Kapadia 700 full colour images

MANUAL OF STEMI INTERVENTIONS

John Wiley & Sons Benefit from this concise yet comprehensive manual, designed to improve the practice and process of STEMI interventions Understand the varied pharmacological options available in managing STEMI patients, including newer anti-coagulants Improve your STEMI procedure technique through expert guidance, including stent choice, and other techniques such as trans radial procedures Provides an overview of STEMI networks internationally and how to set up a STEMI program Reviews future perspectives for STEMI and the role of telemedicine for STEMI procedures

CLINICAL GUIDE TO PRIMARY ANGIOPLASTY

CRC Press Primary angioplasty is a life-saving, minimally invasive emergency procedure increasingly used in the treatment of acute myocardial infarction. As the procedure further proves its effectiveness, it is imperative that all cardiologists have a comprehensive understanding of the major issues surrounding primary angioplasty. This easy-to-use, clinically focused text is an essential reference for those hoping to achieve this understanding. A valuable educational tool, this text fully explores the vital concepts of primary angioplasty.

TEXTBOOK OF CATHETER-BASED CARDIOVASCULAR INTERVENTIONS

A KNOWLEDGE-BASED APPROACH

Springer This book is a fully updated and revised second edition of a highly successful text in which a new concept of knowledge mining, based on explication and transfer of interventional knowledge of experts, has been implemented. The dedicated training program that is set out will serve the needs of all interventional operators, whether cardiologists, vascular surgeons, vascular specialists, or radiologists, enabling them to achieve a consistent expert level across the entire broad spectrum of catheter-based interventions. Operator skills – and in particular decision-making and strategic skills – are the most critical factors for the outcome of catheter-based cardiovascular interventions. Currently, such skills are commonly developed by the empirical trial and error method only. The explicit teaching, training, and learning approach adopted in this book permits the rapid transfer of interventional knowledge and enables individual operators to negotiate steep learning curves and acquire complex skills in a highly efficient manner. It will thereby offer invaluable assistance in meeting successfully the challenges of modern cardiovascular care.
