

# **CENTRAL ILLUSTRATION: 2024 Perioperative Cardiovascular Management for Noncardiac Surgery Guideline-at-a-Glance**

## **Major Changes in Perioperative Cardiovascular Management for Noncardiac Surgery**

### **Preoperative**

#### **Risk Assessment**

Use a systemic approach to periop risk assessment

Highly selective use of stress testing

#### **Medications**

Discontinue SGLT2i 3-4 days before surgery

Stop OAC



### **Intraoperative/Postoperative**

#### **Monitor and Follow-up**

Consider intraop cardiac imaging (TEE or FoCUS) in hemodynamically unstable patients

Consider postop surveillance for MINS in patients at elevated risk

Manage newly diagnosed AF and ensure close follow-up

Resume OAC postop\*



# Perioperative Management In Cardiothoracic Surgery

**Gabriella Bettelli**

A decorative red circular graphic with a gradient, partially obscured by the light blue bar containing the author's name.

## **Perioperative Management In Cardiothoracic Surgery:**

Perioperative Management in Cardiothoracic Surgery Benson B. Roe, 1981      *Manual of Perioperative Care in Adult Cardiac Surgery* Robert M. Bojar, 2020-11-09 Now in its sixth edition Robert M Bojar's Manual of Perioperative Care in Adult Cardiac Surgery remains the go to practical guide for all of those involved in the care of the cardiac surgery patient Written in outline format it provides a comprehensive detailed and clearly explained review of cardiac surgical disease and perioperative management that is of value to practicing cardiac surgeons as well as to cardiologists residents fellows advanced practice providers critical care and floor nurses perfusionists and medical students Extensively rewritten with updated references to incorporate the latest concepts guidelines protocols and medications used in cardiac surgical practice this classic text retains the pragmatic features that have made it the gold standard reference that clinicians have used worldwide for the past 30 years Highlights include Full coverage of cardiac surgical diseases including pathophysiology indications for surgery per guidelines and figures of operative procedures and diagnostic techniques with a panoply of examples Chronologic evaluation of patients from preoperative assessment to intraoperative considerations to postoperative care for each procedure Extensive chapters discussing organ system management in the ICU followed by a discussion of later postoperative management and problems Incorporation of newer techniques TAVR Mitraclip etc within the chronologic format Easy access to information using an outline format markers on the free edges to identify chapters synopsis pages at the beginning of each chapter and a comprehensive index to provide easy referencing within the text Updated references throughout that are available from on line resources 21 appendices summarizing order sheets protocols commonly used drug doses body mass index and other important information Praise for the fifth edition Surgeons are frequently asked to recommend a text that can be used to guide the care of their patients This comprehensive text is the standard by which any other text should be judged Critical Care Medicine It remains a classic and a must have for anyone involved in cardiac surgery Perfusion.com      Perioperative Care in Cardiac Anesthesia and Surgery Davy C. H. Cheng, Tirone E. David, 2006 Written by eminent cardiac anesthesiologists and surgeons this handbook is a complete practical guide to perioperative care in cardiac surgery The book addresses every aspect of cardiopulmonary bypass management and fast track and traditional cardiac anesthesia and describes all surgical techniques with emphasis on postoperative considerations Close attention is also given to routine care and management of complications in the cardiac surgical recovery unit Coverage includes up to date information on cardiac and neurologic monitoring off pump surgery new devices for anastomosis robotic surgery and neurologic complications and outcomes Tables algorithms and 15 appendices summarize key facts protocols and clinical decisions      Evidence-Based Practice in Perioperative Cardiac Anesthesia and Surgery Davy C.H. Cheng, Janet Martin, Tirone David, 2020-11-06 This comprehensive yet concise book addresses current best practice in the combined areas of cardiac surgery and anesthesia interventional minimally invasive cardiac procedures perioperative management and monitoring and

critical care recovery This book not only provides the latest best practices in the perioperative management of cardiac surgical patients but also it summarizes the current clinical guidelines and algorithms from leading cardiac programs and professional societies Contemporary best practice approaches are written by experts from leading cardiac surgical centers The preoperative intraoperative and postoperative management and recovery of surgical patients including medication monitoring techniques and innovative surgical procedures are presented by experts in the field of cardiac anesthesia and surgery Perioperative clinical care guidelines postoperative recovery pathways and models of care are presented with supporting protocols Evidence Based Practice in Perioperative Cardiac Anesthesia and Surgery is aimed at all cardiac anesthesiology consultants fellows and trainees all cardiac surgery consultants fellows and trainees nurses in perioperative care and those involved in patient recovery management cardiac program administrative professionals and all critical care consultants and trainees looking after cardiovascular surgical patients in the modern era **Manual of Perioperative**

**Care in Adult Cardiac Surgery** Robert M. Bojar, 2011-01-18 The fifth edition of Bojar's Manual of Perioperative Care in Adult Cardiac Surgery remains the gold standard for management of adult patients undergoing cardiac surgery The easily referenced outline format allows health practitioners of all levels to understand and apply basic concepts to patient care perfect for cardiothoracic and general surgery residents physician assistants nurse practitioners cardiologists medical students and critical care nurses involved in the care of both routine and complex cardiac surgery patients This comprehensive guide features Detailed presentation addressing all aspects of perioperative care for adult cardiac surgery patients Outline format allowing quick access to information Chronological approach to patient care starting with diagnostic tests then covering preoperative intraoperative and postoperative care issues Additional chapters discuss bleeding the respiratory cardiac and renal subsystems as well as aspects of care specific to recovery on the postoperative floor Updated references information on new drug indications and new evidence to support various treatment management options Practical and accessible this new edition of Manual of Perioperative Care in Adult Cardiac Surgery is the essential reference guide to cardiac surgical patient care *Cardiothoracic Manual for Perioperative Practitioners* Dr Bhuvaneshwari

Krishnamoorthy, 2020-02-03 Cardiothoracic surgery is constantly evolving in many aspects and there are many text books exist to fulfil the gap of new evidences Most of these books are written for surgeons anaesthetist and there is a significant deficit in many important areas which are explored in this book It is aimed for all perioperative practitioners such as surgical care practitioners surgical cardiothoracic trainees anaesthetic trainees anaesthetic practitioners recovery practitioners ward advanced nurse practitioners and perfusionists It is very important for the perioperative practitioner who wants to start their career in cardiothoracic surgery to understand the step by step surgical procedure is vital Cardiothoracic Manual for Perioperative Practitioners is devoted to delivering comprehensive coverage of all aspects of cardiothoracic surgery with emphasis on the roles and importance of the full theatre team Details are provided throughout initial theatre set up and

surgical instrumentation selection A step by step walk through of routine surgical procedures cardiopulmonary bypass guidance investigations undertaken during the intraoperative period and a detailed background of surgical anatomy is provided The book also covers essential aspects associated with recovery of the patient and the common pitfalls in surgery and recovery and how these can be avoided The structure and organisation of the theatre environment ethical and legal issues preventive and protective measures and the importance of swab counts are explained succinctly and systematically by experts in this field The reader will have reliable and complete guidance to provide all the knowledge required to be ready to work in the theatre environment Each chapter contains important references for further reading and greater in depth study All chapters are written by an experienced practising surgeons anaesthetists and practitioners Contents Health care professional roles within the operating room Ethical implications in perioperative area Cardiothoracic theatre set up Cardiac and thoracic anatomy Preoperative assessment in cardiothoracic surgery Coronary artery disease and coronary surgery Aortic valve disease and aortic valve surgery Mitral valve disease and mitral valve surgery Cardiopulmonary bypass Surgery for aortic root disease Thoracic surgery Cardiothoracic critical unit postoperative care Responsibilities of the post anaesthetic care unit practitioners and enhanced recovery Overview of advanced practice in cardiothoracic surgery Step by step cardiac surgical procedure with instrumentation

**Perioperative Care in Cardiac Anesthesia and Surgery** C H Davy Ed Cheng, Davy C. H. Cheng, Tirone E. David, 2015-04-24 Written by eminent cardiac anesthesiologists and surgeons this handbook is a complete practical guide to perioperative care in cardiac surgery The book addresses every aspect of cardiopulmonary bypass management and fast track and traditional cardiac anesthesia and describes all surgical techniques with emphasis on postoperative considerations Close attention is also given to routine care and management of complications in the cardiac surgical recovery unit Coverage includes up to date information on cardiac and neurologic monitoring off pump surgery new devices for anastomosis robotic surgery and neurologic complications and outcomes Tables algorithms and 15 appendices summarize key facts protocols and clinical decisions

Perioperative Considerations in Cardiac Surgery Cuneyt Narin, 2012-02-29 This book considers mainly the current perioperative care as well as progresses in new cardiac surgery technologies Perioperative strategies and new technologies in the field of cardiac surgery will continue to contribute to improvements in postoperative outcomes and enable the cardiac surgical society to optimize surgical procedures This book should prove to be a useful reference for trainees senior surgeons and nurses in cardiac surgery as well as anesthesiologists perfusionists and all the related health care workers who are involved in taking care of patients with heart disease which require surgical therapy I hope these internationally cumulative and diligent efforts will provide patients undergoing cardiac surgery with meticulous perioperative care methods

*New Insights in Perioperative Care* Nabil A. Shallik, 2024-07-03 In the past few decades the field of perioperative medicine has made significant progress Perioperative medicine is the backbone of anaesthesiology nursing and surgery and we have a responsibility to disseminate the most up to date

information to our colleagues on the front lines and in all disciplines that deal with perioperative medicine management Clinicians must become familiar with the most recent developments in this field and the scientific knowledge to allow the safe practice of surgery anesthesia and perioperative care As such this book provides the fundamentals as well as modern approaches and the latest updates on perioperative medicine We conclude our work by emphasizing that sharing knowledge stands as one of humanity s greatest acts as Lao Tzu once said Give a man a fish and you feed him for a day Teach him how to fish and you feed him for a lifetime

**Perioperative Management of Patients with Rheumatic Disease** Brian F. Mandell,2012-07-17 Perioperative care of the patient with a multisystem inflammatory rheumatic disease has become increasingly complex and perioperative medicine has evolved into its own subspecialty Physicians who have expertise in managing patients with rheumatic disease infrequently spend significant time also managing patients undergoing surgical procedures and the reverse is equally true Despite the burgeoning literature on the medical management of the surgical patient scant data have been generated regarding patients with complex rheumatic disease Perioperative Management of Patients with Rheumatic Disease fills a conspicuous gap in the literature and aims at providing a paved path for rheumatologists who infrequently manage surgical problems and medical consultants who only seldom encounter patients with rheumatic diseases to tread as they care for patients in the perioperative period The book addresses discrete management issues from the perspective of the medical subspecialist and also offers concise descriptions of surgical procedures Written from the surgical perspective for the internist the surgical procedure chapters include a brief description of relative contraindications time to recovery rehabilitation suggestions and comments regarding common and severe procedure specific postoperative complications

*Fundamentals of Perioperative Management* David Green,Max Ervine,Stuart White,2002-06 This new title provides a concise one stop reference for anaesthetic trainees surgical trainees and medical undergraduates on the key topics in modern perioperative patient management including detailed coverage of the essential physiological and pharmacological principles underlying basic perioperative skills Essential topics such as antibiotics fluid balance DVT prophylaxis pain management drug pharmacology and respiratory failure to name but a few are all covered in detail and in each case their effect on perioperative management is emphasised

Preoperative Assessment and Perioperative Management Mark Radford,Clare Evans,Alastair Williamson,2011 Pre operative assessment of the surgical patient is a key part of the perioperative process However it is one that cannot be separated from the other aspects of perioperative management both clinical and administrative that ensures the safe and effective treatment of surgical patients There are a number of books on the market that examine perioperative management anaesthesia and surgical nursing that are only able to touch on the pre operative assessment process Pre Operative Assessment Perioperative Management sets out to be different by bridging the gap between these texts and the evolving and developing area of practice that pre operative assessment has become in modern healthcare In order to achieve this Pre Operative Assessment Perioperative

Management has set out to deliver the core clinical aspects of practice linked to the education and service development needs of a perioperative service The challenge for such a book is to integrate this knowledge effectively using the best evidence base for use in every day practice The brief to the contributors was to help define pre operative assessment utilising their expertise to draw out some of the leading practices and thoughts of the day They have achieved this ensuring that the reader has access to some of the leading experts in international perioperative practice They have done this in an open and accessible style that will guide the reader through some complex and demanding subjects to enable them to deliver better front line care to surgical patients

**Perioperative Management, An Issue of Surgical Clinics of North America** Paul J. Schenarts, 2015-06-03 Perioperative Management is reviewed extensively in this important Surgical Clinics of North America issue Articles include Cardiac risk stratification and protection Prevention of pulmonary complications Perioperative nutrition Prophylactic antibiotics and prevention of post operative infections DVT and VTE prophylaxis Post operative pain control and sedation End points of resuscitation Optimal glucose management in the perioperative period Essentials of sepsis management Transfusion and management of surgical patients with hematologic disorders Perioperative management of the obese patient Perioperative management of the elderly patient Perioperative management in the patient with substance abuse Management of the pregnant patient undergoing general surgical procedures Advanced directives living wills and futility and more

**Postoperative Critical Care for Cardiac Surgical Patients** Ali Dabbagh, Fardad Esmailian, Sary F. Aranki, 2013-11-29 Cardiac surgical procedures are among the most common and most complicated forms of surgery worldwide and the postoperative period is characterized by complex challenges Among the factors determining ultimate clinical outcome postoperative critical care is of major importance This book adopts a clinical approach in explaining and analyzing the course of clinical care in patients undergoing cardiac surgery Since the postoperative clinical status is directly influenced by preoperative and intraoperative factors the early chapters briefly examine preoperative issues and the intraoperative course of cardiac surgery with particular attention to anesthesia and the process of cardiopulmonary bypass Subsequent chapters primarily address the critical care of patients by means of an organ oriented approach which will enable the reader to use the text as a cookbook of cardiac intensive care This book is intended for use in daily practice by cardiac surgeons cardiac anesthesiologists intensivists and cardiac intensive care nurses

**Cardiothoracic Anaesthesia and Critical Care: Prepare for the FRCA** Nicholas Pace, 2015-11-27 This eBook is one of 10 carefully selected collections of key articles from the Anaesthesia and Intensive Care Medicine journal a continually updated evidence based learning resource based on the RCOA Curriculum It is ideal for trainees approaching a new sub specialty and or when preparing for the FRCA or similar exams It will also prove an invaluable authoritative refresher for life long learning and CPD Related MCQs are included to test your understanding

***Care of Adults with Chronic Childhood Conditions*** Alice A Kuo, Mariecel Pilapil, David E. DeLaet, Cynthia Peacock, Niraj Sharma, 2024-07-18 This book addresses the unique healthcare needs of adults with chronic

childhood illnesses It presents a model of primary and secondary prevention for emerging adulthood primary prevention in which all young adults are screened for high risk behaviors and health needs and secondary prevention in which young adults with chronic childhood conditions are optimized through coordinated care connections to community resources and social family support Now in its revised and expanded second edition this book is organized in seven parts Part I provides a detailed overview of the health care transition from pediatrics to adult medicine from both a policy and practice perspective New topics in this section include telemedicine as a tool to optimize transition care and systems of care models of care that include practical steps on how to get transition transfer done or care for these patients in the appropriate setting In Part II the concept of emerging adulthood as a developmental period is explored and strategies for providing improved comprehensive care for this age group are discussed A section on addressing health maintenance has been added to this edition Part III reviews specific chronic childhood conditions such as attention deficit hyperactivity disorder autism cystic fibrosis and diabetes mellitus and offers clinical cases and summary reports that can be used as a quick guides to each condition Several new conditions have been added to this section including metabolic issues conditions eating disorders transgender medicine and childhood endocrine conditions Section IV is a completely new section that focuses on hospital medicine Chapters within this section include pre op clearance maintaining safety neurodiversity considerations ER issues and triaging emergencies contact with PCP adult issues not addressed pediatric issues often overlooked inpatient transition policies procedures Med Peds Transition palliative care hospice and unique inpatient cases In Part V additional clinical considerations that are not necessarily condition specific but are highly relevant to the care of young adults with chronic childhood conditions are examined Part VI describes the socio legal issues involved in caring for this population Finally part VII is another completely new section that focuses on public health and population considerations Chapters in this section include telemedicine disaster preparedness quality improvement health care services mental health psychiatry neurodiversity and addressing equity and racism Written by experts in the field *Care of Adults with Chronic Childhood Conditions 2e* provides primary care providers with a new framework for the care of young adults and identifies opportunities to influence patient health outcomes over a life trajectory *Perioperative Care of the Elderly* Gabriella Bettelli, 2017-11-16 This innovative comprehensive book covers key elements of perioperative management of older patients from preoperative evaluation to post hospital care *The ESC Textbook of Intensive and Acute Cardiovascular Care* Marco Tubaro, Pascal Vranckx, Susanna Price, Christiaan Vrints, 2015-02-26 Are you a member of ACCA Go to the ACCA website to find out about special offers on *The ESC Textbook of Intensive and Acute Cardiovascular Care* and to buy your copy today *The ESC Textbook of Intensive and Acute Cardiovascular Care* is the official textbook of the Acute Cardiovascular Care Association ACCA of the ESC This new updated edition continues to comprehensively approach all the different issues relating to intensive and acute cardiovascular care The textbook is addressed to all those involved in intensive and acute cardiac care



from cardiologists to emergency physicians and healthcare professionals The chapters cover the various acute cardiovascular diseases that need high quality intensive treatment but also organisational issues cooperation among professionals and interaction with other specialities in medicine The largest section of the textbook is devoted to non cardiac disease which could acutely involve the cardiovascular system Other noteworthy chapters are on ethical issues which are so important in acute cardiac care such as patient safety donor organ management and palliative care A unique characteristic of the textbook is the presence of a whole section devoted to biomarkers which underline the growing importance of laboratory medicine in the field of intensive and acute cardiac care A particular asset of the textbook is the digital version available on Oxford Medicine Online which has additional online features including an extra chapter on lung ultrasound and many more images and videos as well as a full list of references from all chapters The online version is updated by the same authors on a yearly basis and is available with the print version and separately on a subscription basis allowing easy access to content in digital and mobile optimised format The textbook aligns directly with the core training curriculum for ACCA This print edition of The ESC Textbook of Intensive and Acute Cardiovascular Care comes with access to the online version on Oxford Medicine Online for as long as the edition is published by Oxford University Press 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

*Care of Adults with Chronic Childhood Conditions* Mariecel Pilapil, David E. DeLaet, Alice A. Kuo, Cynthia Peacock, Niraj Sharma, 2016-11-24 This book addresses the unique healthcare needs of adults with chronic childhood illnesses It presents a model of primary and secondary prevention for emerging adulthood primary prevention in which all young adults are screened for high risk behaviors and health needs and secondary prevention in which young adults with chronic childhood conditions are optimized through coordinated care connections to community resources and social family support This book is organized in five parts Part I provides a detailed overview of the health care transition from pediatrics to adult medicine from both a policy and practice perspective In Part II the concept of emerging adulthood as a developmental period is explored and strategies for providing improved comprehensive care for this age group are discussed Part III reviews specific chronic childhood conditions such as attention deficit hyperactivity disorder autism cystic fibrosis and diabetes mellitus and offers clinical cases and summary reports that can be used as a quick guides to each condition In Part IV additional clinical considerations that are not necessarily condition specific but are highly relevant to the care of young adults with chronic childhood conditions are examined Part V describes the socio legal issues involved in caring for this population *Care of Adults with Chronic Childhood Conditions* provides primary care providers with a new framework for the care of young adults and identifies opportunities to influence patient health outcomes over a life trajectory

**Handbook of Clinical Anaesthesia 3E** Brian Pollard, 2011-08-26 The Handbook of Clinical Anaesthesia has been completely updated for this new edition providing trainee anaesthetists with a concise but comprehensive source of clinical

information and qualified anaesthetists with an indispensable aide Written and edited by experts in the field this compact but detailed text provides all the essential practica

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