

STS/SCA BLOOD CONSERVATION CLINICAL PRACTICE GUIDELINES

Transfusions in cardiac surgery patients:

- 50% of patients undergoing cardiac procedures receive blood transfusions
- Complex cardiac operations like redo procedures, aortic operations, and implantation of VADs require blood transfusion with much greater frequency
- Increasing evidence suggests that blood transfusion during cardiac procedures portends worse short and long-term outcomes
- Interventions aimed at reducing bleeding and blood transfusion during cardiac procedures are an increasingly important part of Quality Improvement

Blood Conservation In Cardiac Surgery

Padhraic Smyth



Blood Conservation In Cardiac Surgery:

Blood Conservation in Cardiac Surgery Karl H. Krieger, O. Wayne Isom, 2012-12-06 Drs Karl Krieger and Wayne Isom two of the foremost cardiothoracic surgeons have brought together many of the top cardiologists and hematologists as well as most of their department at the New York Hospital Cornell Medical Center to produce an impressive book on blood conservation and transfusion in cardiac surgery The book will serve as the most current reference source on all aspects of blood conservation from the use of erythropoietin to the benefits of post operative blood salvage In addition the book outlines an overall clinical approach to blood transfusion and conservation The subject matter covers numerous areas involved in the preoperative considerations in cardiac surgery the intraoperative decision making in cardiac surgery postoperative bleeding and management and a section on the algorithm for bloodless surgery at the New York Hospital Cornell Medical Center

Blood Conservation in Cardiac Surgery Robert David Slight, Pankaj Mankad, 2008 Cardiac surgery is traditionally a heavy user of blood and blood products Until recently the benefits of transfusion have been largely assumed and the risks relatively ignored This has prompted us to examine new ways of minimising patient exposure to donor red blood cells RBC s At the present time most clinical guidelines for RBC transfusion are based mainly upon haemoglobin concentration Hb As Hb may be artificially depressed by the haemodiluting effect of the heavy clear fluid load associated with cardiac surgery transfusing based upon Hb alone may overestimate the requirement for RBC s Where such haemodilution is present systemic oxygenation may be maintained through a viscosity mediated patho physiological response The work reported in this thesis attempts to explore the relative contribution of both red cell volume RCV and plasma volume PV to the anaemia encountered following cardiac surgery while also examining factors that may be associated with a low post operative RCV In addition we have explored on a theoretical basis what Hb would represent a critical level of systemic oxygen delivery DO_2 Crit Taken together this has allowed us to develop an RCV based transfusion guideline aimed at reducing the incidence of unnecessary and potentially counter productive RBC transfusion As RBC s may be associated with pulmonary endothelial damage we have also studied the impact of the RCV guideline developed on post operative acute lung injury ALI Finally in a separate study the merits of a simple activated clotting time ACT based system of anti coagulation management for cardiopulmonary bypass CPB versus that of an individualised heparin management system HMS are described

Blood Use in Cardiac Surgery N. Friedel, R. Hetzer, D. Royston, 2013-06-29 Cardiac surgery has developed dramatically since the first open heart operations were performed in the mid 1950s Although the improvement of surgical technique extracorporeal circulation and postoperative management has contributed to a marked reduction of morbidity and mortality the development of cardiac surgery to its present state would not have been possible without blood substitution by homologous donor blood Only 20 years ago open heart operations required an average of 8 units of blood preserves The excessive need of donor blood in those early days was mainly due to premature surgical technique insecure control of anticoagulation severe blood trauma by

extracorporeal circulation and the lack of retransfusion technologies that would have allowed the reuse of shed mediastinal blood. The introduction of new technologies such as normovolemic hemodilution in intraoperative autotransfusion postoperative return of shed mediastinal blood and predonation of autologous blood has greatly reduced donor blood requirements. At present the majority of routine coronary artery surgical procedures can be performed without any blood transfusion. Blood loss however may be considerable in patients undergoing complex valve surgery or reoperations as they often require several units of transfused blood. Blood conservation has now become an area of major interest for the cardiac surgeon. This increased concern is caused by infectious complications of blood transfusion in particular hepatitis and more recently AIDS.

Perioperative Blood Transfusion and Blood Conservation in Cardiac Surgery, 2007 *Patient Blood Management in Cardiac Surgery* Christian von Heymann, Christa Boer, 2019-06-03 This book provides a multidisciplinary approach to the maintenance of hemostasis and minimisation of blood loss in patients undergoing cardiac surgery. All aspects of patient blood management are covered that may contribute to a reduction in perioperative bleeding and transfusion requirements in cardiac surgery. This is achieved through practical cases and a theoretical background that gives a better understanding of patient hemostasis and the occurrence of bleeding complications. This book is relevant to cardiac surgeons, anesthesiologists, clinical perfusionists, hematologists and intensivists. Advanced Therapy in Cardiac Surgery Kenneth L. Franco, Edward D. Verrier, 2003 Advanced Therapy in Cardiac Surgery Second Edition This second edition of Advanced Therapy in Cardiac Surgery presents state of the art techniques and an in depth review of cardiac surgery from the leading authorities. Each of the 62 succinct chapters represents the personal treatment protocols of the experts. The Advanced **Manual of Perioperative Care in Adult Cardiac Surgery** Robert M. Bojar, 2021-01-26 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 *Blood Conservation in the Surgical Patient* Mohammed Ramez Salem,1996

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 *An Interdisciplinary Education Initiative to Promote Blood Conservation in Cardiac Surgery* Tamara S. Goda,2013 Keywords Blood Conservation blood transfusion cardiac surgery clinical practice guidelines provider adherence transfusion education

Handbook of Patient Care in Cardiac Surgery John H. Lemmer,Gus J. Vlahakes,2012-03-28 The thoroughly updated Seventh Edition of this popular and widely used handbook presents the most current protocols and recommendations for care of patients undergoing cardiac surgery This edition reflects current ACLS guidelines and the latest developments in cardiac surgery The transplantation chapter has been entirely rewritten by a new author Experts from leading hospitals offer detailed practical guidelines on preoperative evaluation and preparation intraoperative management and postoperative care for all current cardiac surgical procedures Perspectives valuable for cardiac surgeons cardiac nurses and anesthesiologists are included throughout Coverage includes a chapter on infants and children Appendices list drug dosages for adults and for infants and children **The Management and Logistics of Blood Banking** ,1980 *Redo Cardiac Surgery in Adults*

V.R. Machiraju,Hartzell V. Schaff,Lars G. Svensson,2011-12-02 Redo cardiac surgeries are challenging cases with a myriad of influential factors ranging from the patient s pathology to the whimsy of the previous surgeon Redo Cardiac Surgery in Adults 2nd Edition clearly outlines practical approaches surgical techniques and management of associated conditions such as perioperative stroke and acute kidney function It covers the spectrum of redo cardiac operations including coronary artery bypass mitral valve repair reoperation for prosthetic mitral valve endocarditis aortic arch reoperation descending and thoracoabdominal aortic reoperation and reoperations following endovascular aortic repair All redo cardiac surgeries present a complex array of challenges beyond what the original procedure demands This book written by an outstanding group of

prominent physicians will give the reader the knowledge and tools to approach these cases with confidence

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 **Blood Conservation in**

Cardiac Surgery, 2001 *Evidence-based Practice of Anesthesiology* Lee A. Fleisher, 2009 This book summarizes the best available evidence concerning the most common clinical questions that anesthesiologists face every day so you will have an informed basis for making effective patient management decisions This new edition covers 24 new topics and explores a full range of important issues in perioperative management discussing the clinical options examining the relevant research and presenting expert recommendations It features the latest information on clinical situations and reviews all clinical options based on the most recent clinical trials providing a valuable framework for translating evidence into practice Cardiac Surgery Shahzad G. Raja, 2020-02-11 This textbook provides a succinct overview of cardiac surgery with key concepts being emphasized throughout An abundance of illustrations intra operative photographs tables as well as information boxes aids the reader to visualise grasp and retain difficult concepts The inclusion of evidence based approaches to the management of a range of cardiac surgical conditions equips the reader with an understanding of how to overcome a variety of potentially tough clinical challenges Concise Cardiac Surgery A Complete Guide comprehensively covers a range of techniques used in cardiac surgery It is therefore an ideal resource for the trainee and practising cardiac surgeon seeking a practically focused text detailing how to apply the latest techniques and evidence based approaches in their day to day practice Cardiac Surgery A.C. Cernaianu, A.J. DelRossi, 2012-12-06 The topics in this book represent the presentations given at the Fifth Annual Meeting entitled Cardiac Surgery Current Issues held at the Frenchman s Reef Beach Resort St Thomas U S Virgin Islands November 11 14 1992 This symposium was sponsored by the Division of Cardiothoracic Surgery the School of

Cardiovascular Perfusion and the Department of Nursing Education and Quality Assurance of Cooper Hospital University Medical Center the University of Medicine and Dentistry of New Jersey Robert Wood Johnson Medical School Camden New Jersey as well as the Academy of Medicine of New Jersey Chapter authors were charged with the task of writing brief overviews of major issues related to the field of cardiac surgery The book is specifically tailored to the needs of cardiothoracic surgeons cardiovascular perfusionists allied health professionals and nursing personnel involved in all phases of caring for the cardiac surgical patient Although intended as a reference source with emphasis on up dated approaches applied in cardiac surgery it is hoped that the discussion of these topics will compliment other texts and manuscripts Obviously a book of this length cannot cover the whole multidisciplinary and complex field of cardiac surgery However co editors are certain that the annual appearance of this text will highlight comprehensive new and interesting approaches to the field of cardiac surgery

Kaplan's Cardiac Anesthesia E-Book Joel A. Kaplan, David L. Reich, Steven N.

Konstadt, 2011-04-11 Optimize perioperative outcomes with Kaplan's Cardiac Anesthesia Dr Joel L Kaplan and a host of other authorities help you make the best use of the latest techniques and navigate your toughest clinical challenges Whether you are administering anesthesia to cardiac surgery patients or to cardiac patients undergoing non cardiac surgery you will have the guidance you need to avoid complications and ensure maximum patient safety Consult this title on your favorite e reader conduct rapid searches and adjust font sizes for optimal readability Compatible with Kindle nook and other popular devices Update your understanding of cardiovascular and coronary physiology and the latest advances in molecular biology and inflammatory response mechanisms Master the newest approaches to perioperative assessment and management including state of the art diagnostic techniques Tap into the latest knowledge about 2D and 3D transesophageal echocardiography anesthesia delivery for minimally invasive robotic cardiac surgery assist devices and artificial hearts cardiac pacing cardiac resynchronization therapy ablation techniques and more Access the complete contents online at Expert Consult plus additional online only features including an ECG atlas videos that demonstrate 2 D and 3 D TEE techniques in real time and an Annual Year End Highlight from the Journal of Cardiovascular Anesthesia that is posted each February Clearly visualize techniques with over 800 full color illustrations

Essentials of Blood Product Management in Anesthesia Practice Corey S. Scher, Alan David Kaye, Henry Liu, Seth Perelman, Sarah Leavitt, 2021-03-12 This comprehensive book is written to inform and improve outcomes of patients in need of blood management during surgical procedures Information is presented in an accessible format allowing for immediate use in clinical practice Beginning with an overview of the history of blood transfusions early chapters present the foundational information needed to comprehend information in later chapters Nuanced procedures drugs and techniques are covered including new biologicals to assist clotting and blood substitutes Further discussions focus on potential complications seen in blood transfusions such as diseases of the coagulation system pathogen transmissions and acute lung injuries Chapters also examine the complexities of treating specific demographics of

which include the geriatric patient and patients suffering from substance abuse Essentials of Blood Product Management in Anesthesia Practice is an invaluable guide for anesthesiologists surgeons trauma physicians and solid organ transplant providers

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