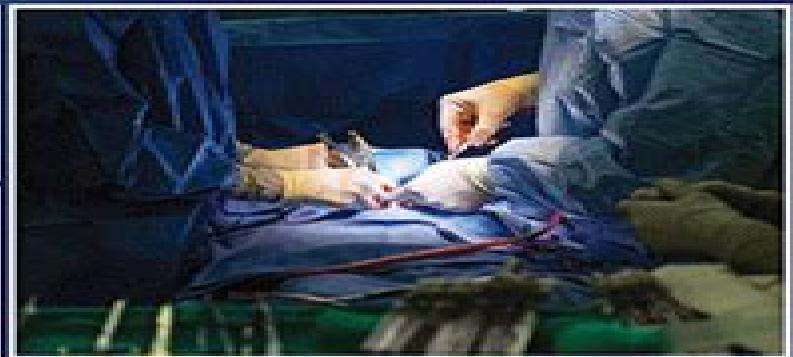
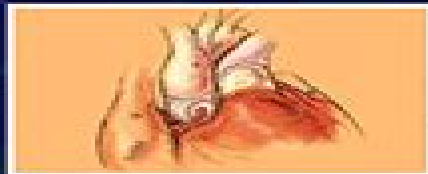




FIFTH EDITION

# PEDIATRIC CARDIAC SURGERY

EDITED BY  
**CONSTANTINE MAVROUDIS**  
**CARL L. BACKER**



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# Pediatric Cardiac Surgery

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## **Pediatric Cardiac Surgery:**

*Pediatric Cardiac Surgery* Constantine Mavroudis, Carl L. Backer, 2023-04-17 Der Bereich der p diatrischen Herz und Gef chirurgie umfasst nicht nur die Herzchirurgie bei S uglingen und Kindern sondern auch die Herzchirurgie bei Erwachsenen zur Korrektur von angeborenen Herzfehlern Da die Kindersterblichkeit aufgrund von Herzfehlern zur ckgeht und Patienten mit angeborenen Herzfehlern zunehmend ein langes gesundes Leben f hren ergeben sich neue Herausforderungen Somit war der Bedarf an Einf hrungen in diesen lebensrettenden Bereich noch nie so gro Pediatric Cardiac Surgery ist ein gut verst ndliches umfassendes Lehrbuch das diesen Bedarf seit ber drei ig Jahren erf llt und von Fachleuten auf allen Ebenen genutzt wird Das Lehrwerk das zahlreiche farbige Abbildungen enth lt bietet zun chst eine wissenschaftliche Einf hrung in die kardiovaskul re Entwicklung und dann detaillierte Analysen von Defekten in verschiedenen Bereichen des Herzens mit den entsprechenden Verfahren zur Korrektur dieser Defekte Die aktualisierte f nfte Auflage ber cksichtigt die neuesten wissenschaftlichen Erkenntnisse und bleibt damit ein unverzichtbares Werk zu diesem Thema Die f nfte Auflage von Pediatric Cardiac Surgery enth lt unter anderem Beitr ge von ber 75 nationalen und internationalen Experten auf dem Gebiet Beeindruckende anatomische Illustrationen von Rachid Idriss Neue Kapitel in denen der neueste Stand der Forschung dargestellt wird sowie neue Inhalte in Bezug auf die kardiale Bildgebung und die medizinische Ausbildung Pediatric Cardiac Surgery ist ein wichtiges Nachschlagewerk f r Herzchirurgen die sich auf Kinder und Erwachsene spezialisiert haben Kardiologen und alle medizinischen Fachkr fte die mit p diatrischen oder erwachsenen Herzpatienten arbeiten Atlas of Pediatric Cardiac Surgery Constantine Mavroudis, Carl Lewis Backer, 2015-10-24 The raison d etre for a new atlas of congenital heart surgery is based on the reality that the specialty has undergone numerous changes in the last few years resulting in improved techniques and new operations The sheer number of new procedures and the required attendant technical skills to successfully complete an operation has become a challenge to master especially for residents who are pursuing a career in congenital heart surgery While the techniques that we are espousing are mostly our own there is a great deal of similarity amongst international centers owing to the influence of video presentations manuscript publications and chapter reviews We therefore believe that the techniques that are illustrated in this atlas are likely to be similar to the techniques that are taught worldwide to residents and fellows The atlas is organized generally by diseases and procedures pertaining thereto Two general sections involve cannulation techniques and palliative procedures respectively A special section depicts difficult problems in the form of clinical vignettes that may arise during cardiopulmonary bypass such as decreased venous return undiagnosed patent ductus arteriosus and technical errors leading to hemodynamic complications The reader is instructed to apply measures that will lead to resolution of these problems We have chosen procedures which cover the breadth of congenital heart surgery While perhaps not totally inclusive the reader will find the greater majority of congenital heart procedures illustrated and explained in this text *A handbook of operating techniques in cardiac surgery*

Benedict Raj R,2017-05-06 Every member of the surgical team usually has a personal journal with notes and diagrams I too have always put all I appreciated into my little notebook of diagrams and notes whenever I learned anything valuable in a case I find it useful even now to revise my notes before I sleep on the night before a challenging case This handbook was derived from that habit and it will help you see what unique things I saw during my training in India We all know that there are deficiencies in learning cardiac surgery from books a single surgical tutor or a small institute doing less work By giving you concisely all the basic steps of each operation we aim to make the team s training period a lot easier the learning curve shorter and you will then be a more confident cardiac surgical trainee This I hope will help your mentor find you as a very capable person to teach Cheers and all the very best **Pediatric Cardiac Surgery** Constantine Mavroudis,Carl L.

Backer,2023-01-19 Der Bereich der p diatrischen Herz und Gef chirurgie umfasst nicht nur die Herzchirurgie bei S uglingen und Kindern sondern auch die Herzchirurgie bei Erwachsenen zur Korrektur von angeborenen Herzfehlern Da die Kindersterblichkeit aufgrund von Herzfehlern zur ckgeht und Patienten mit angeborenen Herzfehlern zunehmend ein langes gesundes Leben f hren ergeben sich neue Herausforderungen Somit war der Bedarf an Einf hrungen in diesen lebensrettenden Bereich noch nie so gro Pediatric Cardiac Surgery ist ein gut verst ndliches umfassendes Lehrbuch das diesen Bedarf seit ber drei ig Jahren erf llt und von Fachleuten auf allen Ebenen genutzt wird Das Lehrwerk das zahlreiche farbige Abbildungen enth lt bietet zun chst eine wissenschaftliche Einf hrung in die kardiovaskul re Entwicklung und dann detaillierte Analysen von Defekten in verschiedenen Bereichen des Herzens mit den entsprechenden Verfahren zur Korrektur dieser Defekte Die aktualisierte f nfte Auflage ber cksichtigt die neuesten wissenschaftlichen Erkenntnisse und bleibt damit ein unverzichtbares Werk zu diesem Thema Die f nfte Auflage von Pediatric Cardiac Surgery enth lt unter anderem Beitr ge von ber 75 nationalen und internationalen Experten auf dem Gebiet Beeindruckende anatomische Illustrationen von Rachid Idriss Neue Kapitel in denen der neueste Stand der Forschung dargestellt wird sowie neue Inhalte in Bezug auf die kardiale Bildgebung und die medizinische Ausbildung Pediatric Cardiac Surgery ist ein wichtiges Nachschlagewerk f r Herzchirurgen die sich auf Kinder und Erwachsene spezialisiert haben Kardiologen und alle medizinischen Fachkr fte die mit p diatrischen oder erwachsenen Herzpatienten arbeiten **PEDIATRIC CARDIAC SURGERY MANUAL FOR**

**PERIOPERATIVE NURSES** Edith D Jonkman,2019-05-30 This book is a guide on congenital heart disease and associated surgical interventions on newborns and children It is aimed at the pediatric cardiac perioperative nurse explaining and revealing the variety of cardiac defects and complex surgical procedures **Pediatric and Congenital Cardiac Care** Paul R. Barach,Jeffery P. Jacobs,Steven E. Lipshultz,Peter C. Laussen,2014-12-04 There are growing questions regarding the safety quality risk management and costs of PCC teams their training and preparedness and their implications on the welfare of patients and families This innovative book authored by an international authorship will highlight the best practices in improving survival while paving a roadmap for the expected changes in the next 10 years as healthcare undergoes major

transformation and reform An invited group of experts in the field will participate in this project to provide the timeliest and informative approaches to how to deal with this global health challenge The book will be indispensable to all who treat pediatric cardiac disease and will provide important information about managing the risk of patients with pediatric and congenital cardiac disease in the three domains of the analysis of outcomes the improvement of quality and the safety of patients

**Manual of Pediatric Cardiac Intensive Care** Prashant Shah,2013-08-31 This manual is a practical guide to the care of children after cardiac surgery Beginning with discussion on preparing for and receiving a paediatric patient from the operating theatre the next chapter describes monitoring techniques Each of the following sections discusses the management of different conditions that may arise after surgery including mediastinal bleeding arrhythmias capillary leak syndrome pulmonary gastrointestinal and renal issues and infection Appendices include drugs administration and dosage and guidelines for endotracheal suction Key points Concise guide to the care of children after cardiac surgery Covers management of numerous conditions that may arise post surgery Separate chapter dedicated to monitoring techniques Appendices include discussion on drug administration and endotracheal suction

**Fundamentals of Congenital Minimally Invasive Cardiac Surgery** Vladimiro Vida,Giovanni Stellin,2018-08-01 Fundamentals of Congenital Minimally Invasive Cardiac Surgery is a first of its kind fully illustrated guide that is solely dedicated to the most diffused congenital minimally invasive cardiac surgery procedures It provides detailed step by step descriptions of surgical maneuvers to underline each aspect of the procedures along with full color drawings and operative pictures to enhance understanding Each chapter fully describes the preoperative setting the needed materials and the required technical skills that make specific congenital heart defects amenable to minimally invasive surgical treatment This is the perfect go to reference for pediatric and congenital cardiac surgeons and is also a must have guide for residents in cardiac surgery who are looking to review the technical aspects and outcomes of utilizing a minimally invasive approach for cardiac surgery Provides an extensive step by step description of the most common minimally invasive pediatric cardiac surgical procedures Uses high quality full color drawings and operative pictures of the most important steps of the procedures to facilitate understanding Combines information on both the detailed operations of minimally invasive pediatric cardiac surgery and the approach behind them

**Critical Heart Disease in Infants and Children E-Book** Ross M. Ungerleider,Kristen Nelson McMillan,David S. Cooper,Jon N. Meliones,Jeffrey Jacobs,2018-09-26 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Pediatric Surgery Now in brilliant full color and reflecting recent significant changes in the field Critical Heart Disease in Infants and Children 3rd Edition keeps you abreast of the skills and knowledge required to safely care for children with congenital and acquired heart disease in the ICU Pediatric intensivists cardiologists cardiac surgeons and anesthesiologists from leading centers around the world provide a well rounded perspective on basic scientific principles medical and pharmacologic treatments surgical techniques and equipment Features comprehensive updates throughout the

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*Humanitarian Activities in Pediatric Cardiology* Antonio Francesco Corno, Sanjiv Nichani, 2021-12-02 [Pediatric and Congenital Cardiac Care](#) Paul R. Barach, Jeffery P. Jacobs, Steven E. Lipshultz, Peter C. Laussen, 2014-12-04 There are growing questions regarding the safety quality risk management and costs of PCC teams their training and preparedness and their implications on the welfare of patients and families This innovative book authored by an international authorship will highlight the best practices in improving survival while paving a roadmap for the expected changes in the next 10 years as healthcare undergoes major transformation and reform An invited group of experts in the field will participate in this project to provide the timeliest and informative approaches to how to deal with this global health challenge The book will be indispensable to all who treat pediatric cardiac disease and will provide important information about managing the risk of patients with pediatric and congenital cardiac disease in the three domains of the analysis of outcomes the improvement of quality and the safety of patients *Emerging Role of Stress Perfusion Cardiovascular Magnetic Resonance in the Patient with Congenital Heart Disease* Eduardo M. da Cruz, Dunbar Ivy, Victor Hraska, James Jaggars, Pediatric and Congenital Cardiology Cardiac Surgery and Intensive Care provides a consistent and comprehensive approach to multiple congenital

and acquired cardiac pathologies pre peri and postoperatively with the use of algorithms guidelines and current research issues Included with this book are interactive videos with the most common interventions online access to practical learning activities and to the comprehensive Aristotle score and database This reference work satisfies the need for a universal and practical review of management of critically ill children and adults with congenital heart disease based upon taskforce decisions and the cumulative experience of the world leaders in the field Publisher's website *Pediatric Cardiac Surgery* Marshall L. Jacobs, William I. Norwood, 1992 *Anesthetic Considerations for Pediatric Cardiac Surgery* Paul A. Radnay, Hideo Nagashima, 1980 Brain Injury and Pediatric Cardiac Surgery Richard Jonas, Jane Newburger, Joseph Volpe, 2019-08-16 An estimated 30 000 children are born in the USA with congenital heart disease each year two thirds of which will require corrective surgery Medical advances have formed a trend of operating on newborns rather than waiting until the child is older Ten years ago the mortality for these operations was 60% to 70% That percentage has dropped to 2% This specialized book explores the basic mechanisms of neurologic injury associated with congenital heart surgery while covering the emerging technologies for assessment of neurologic integrity and injury The text also highlights the current and future techniques for reducing and preventing these injuries and reviews the pertinent medicolegal issues *Critical Care of Children with Heart Disease* Ricardo A. Munoz, Victor O. Morell, Eduardo M. da Cruz, Carol G. Vetterly, Jose Pedro da Silva, 2020-01-01 This extensively revised new edition comprehensively reviews the medical and surgical management of the acutely ill child with congenital and acquired cardiac disease It enables the reader to gain a thorough understanding of basic and practical concepts of anatomy pathophysiology surgical techniques and peri operative management in this group of patients Extensively revised chapters cover the management of cardiac patients on extracorporeal membrane oxygenation hemofiltration and plasma exchange New topics covered include the use of pharmaceuticals in cardiac intensive care the implications of interventional cardiology in pediatric intensive care and ventricular assist devices Practically relevant guidelines are also included for cardiovascular nurses *Critical Care of Children with Heart Disease* presents a thorough review of the practical concepts available treatment techniques and the challenges associated with managing these patients in the critical care unit It represents a timely and valuable textbook reference for students and practising healthcare professionals alike seeking to learn or further their understanding of the latest advances in this discipline **Manual of Pediatric Cardiac Care** Mohammed Abdullah Bin-Moallim, Wael Jasim Mohamed Husain, Yousif Saleh Alakeel, Mohamed Salim Kabbani, Abdullah Ali Alghamdi, 2024-07-30 This two volume manual covers the most relevant protocols in pediatric cardiac care to serve as a practical guide that matches and reflects the high level of accumulated knowledge and expertise in this clinical field It includes 179 chapters and offers comprehensive precise and up to date practical tips with specific care protocols to provide the most efficient strategies for high quality care in patients with congenital heart disease CHD This book simplifies learning with many tables flowcharts graphs and algorithms for easy access and fast action Volume I covers

many key sections such as prenatal morphogenesis and physiology of the human heart fetal cardiology neonates and congenital heart disease cardiac imaging pediatric cardiac catheterization pediatric cardiac electrophysiology critical events and emergency procedures in pediatric cardiac care management of specific cardiac conditions general pediatric and subspecialty issues related to children with CHD follow up standards in pediatric outpatient cardiology clinic prophylaxis in children with CHD quality aspects professional conduct and training in pediatric cardiac care This manual is a must have resource for pediatricians neonatologists clinical pharmacy specialists pediatric intensive care physicians pediatric cardiologists pediatric cardiac intensive care physicians pediatric cardiac surgeons and or surgeons interested in pediatric cardiac surgery

**Congenital Heart Disease in Pediatric and Adult Patients** Ali Dabbagh, Antonio Hernandez Conte, Lorraine Lubin, 2017-03-09 Congenital Heart Disease in Pediatric and Adult Patients Anesthetic and Perioperative Management provides a comprehensive up to date overview of care of the pediatric patient undergoing cardiac surgery and anesthesia After introductory chapters that encompass pediatric cardiovascular embryology physiology and pharmacology diagnostic approaches and preoperative considerations are explained The intraoperative management of a wide range of specific lesions is then discussed with full descriptions of anesthesia plans added with descriptions on diagnostic methods and surgical interventions Postoperative care is also addressed and a concluding section considers anesthesia outside the cardiac operating room In the twenty first century advances in minimally invasive technology have led to the introduction of a wide array of pediatric cardiac procedures More traditional surgical procedures have also been transformed by new devices and surgical approaches The cardiac anesthesiologist is faced with an ever increasing role in the perioperative care of pediatric patients undergoing cardiologic procedures in operating rooms as well as less conventional locations In this book accomplished experts from around the world in the fields of pediatric anesthesia cardiology and cardiac surgery describe the multiple facets of caring for this very unique patient population

*Manual of Pediatric Intensive Care - E-Book* Manoj Luthra, 2012-08-30 Elaborates pre and postoperative guidelines in the intensive care of pediatric cardiac surgery patients An indispensable book for the cardiothoracic pediatric and intensive care residents involved in the acute management of children with heart disease Addresses the need of a reference manual for general surgery and medicine residents while on rotation in the cardiac care unit Comprehensive chapters provide simple solutions and explanations to clinical problems rather than offering detailed physiological explanations Drugs and doses have been given in tables for easy reference at the point of care A practical book that can be read at leisure and referred to at the bedside

*Pediatric Cardiac Surgery Annual 2003*, 2003



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