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# Atlas of Pediatric Cardiac Surgery



 Springer

# Atlas Of Pediatric Cardiac Surgery

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## **Atlas Of Pediatric Cardiac Surgery:**

**Atlas of Pediatric Cardiac Surgery** Constantine Mavroudis, Carl Lewis Backer, 2015-10-24 The raison d'être 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.

**Pediatric Cardiac Surgery** Constantine Mavroudis, Carl L. Backer, 2013-02-04 Pediatric cardiac surgery is a dynamic, fast-moving field. Busy practitioners like you need clear and comprehensive guidance you can rely on to ensure optimal patient care. For over 25 years *Pediatric Cardiac Surgery* has been the gold standard reference for pediatric and adult congenital heart surgeons, pediatric and congenital cardiologists, intensivists, anesthesiologists, residents, and nurses. Now in this thoroughly revised fourth edition, you again get trusted, complete coverage of the field with timely new features and expert reviews of critical topics including heart transplantation, emerging modalities for diagnosing congenital heart and tracheal defects, the surgical technique of Fontan conversion with arrhythmia surgery, the medical challenges of managing adult CHD patients, and more. This new edition includes contributions from over 65 world-renowned experts. More beautiful illustrations by renowned medical illustrator Rachid Idriss, which have brought acclaim to previous editions. Reviews of the embryology, physical findings, diagnostic criteria, and therapeutic choices for each disease entity, and describes the latest in surgical techniques in each chapter. All new chapters that guide readers through new treatment options and other key developments since the publication of the third edition, highlighting recent advances in congenital heart surgery. All new chapters that review advances in right ventricular to pulmonary artery conduits, arrhythmia surgery, double outlet ventricles, and adult congenital heart disease among other key topics.

**Pediatric Cardiac Surgery** Constantine Mavroudis, Carl L. Backer, 2023-01-19 Der Bereich der pädiatrischen Herz- und Gefäßchirurgie umfasst nicht nur die Herzchirurgie bei Säuglingen 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

**Congenital Heart Disease: A Surgical Color Atlas** A. Sukru Mercan, MD, FETCS, Zakariya Hubail, BMedSc, MD, FAAP, S. Yen Ho, PhD, FRCPath, FESC, FHEA, 2015-01-31 Congenital Heart Disease A Surgical Color Atlas is a pictorial illustration with over 750 stunning photographs and line drawings that highlight important surgical anatomic and pathologic points of congenital heart disease This impressive work by a surgeon a cardiologist and a pathologist features full color images as seen through the surgeon s eyes juxtaposed with line drawings to allow for the full examination of anatomic and surgical details From the Preface This Atlas may very well be the most accurate photographic description of congenital heart disease ever published Hisashi Nikaidoh MD

**Board Review Atlas of Pediatric Cardiology** Dilachew A. Adebo, 2024-07-13 This book is the first board review atlas in Pediatric Cardiology Chapters cover high yield and image based board style questions with full explanations This book utilizes images from fetal echocardiography transthoracic echocardiography transesophageal echocardiography cardiac computed tomography cardiac magnetic resonance 12 lead electrocardiogram ambulatory ECG monitoring and intracardiac electrophysiology tracing This highly illustrated atlas will be an excellent resource not only for board certification and recertification but also as a clinical guide in Pediatric Cardiology Board Review Atlas of Pediatric Cardiology is a valuable resource for pediatric cardiologists pediatric cardiology fellows pediatric cardiac surgeons and pediatric radiologists and residents

National Library of Medicine Audiovisuals Catalog National Library of Medicine (U.S.), *Transesophageal Echocardiography for Pediatric and Congenital Heart Disease* Pierre C. Wong, Wanda C. Miller-Hance, 2021-07-17 This extensively revised textbook reviews the use of transesophageal echocardiography TEE in pediatric and young adult patients with cardiac disease It reviews how TEE

has made a vital contribution to these patients successful and continually improving clinical outcomes enabling them to live well into adulthood The book details the evolving technology and applications of TEE including three dimensional TEE describing how this imaging approach remains at the forefront of clinical practice for pediatric patients and those with congenital heart disease CHD Transesophageal Echocardiography for Pediatric and Congenital Heart Disease represents a unique contribution as the only contemporary text to focus exclusively on the clinical application of TEE in children and all patients with CHD Written by numerous prominent specialists in the field it presents a comprehensive modern and integrated review of the subject Specific chapter topics include the physics and instrumentation of TEE structural and functional evaluation and specialized aspects of the examination with emphasis on the technical considerations pertinent to both pediatric and adult patients with a variety of congenital and acquired cardiovascular pathologies Consequently it serves as a comprehensive reference for the TEE evaluation of CHD utilizing the segmental approach to diagnosis and discussing the TEE evaluation of the many anomalies encompassing the CHD spectrum In addition numerous other relevant topics are discussed including application of TEE for perioperative and interventional settings The book is richly illustrated with many chapters supplemented by illustrative case studies and accompanying videos A specific section with multiple choice questions and answers is provided at the end of each chapter to reinforce key concepts This textbook therefore provides an invaluable and indispensable resource for all trainees and practitioners using TEE in the management of CHD and pediatric patients

**Finding the Way** Dr. Constantine Mavroudis, 2024-01-17 About the Book Dr Mavroudis was born in Thasos Greece in July of 1946 He spent the first year of his life in his birthplace before immigrating to the United States with his family in 1947 In his inspiring extraordinary memoir Dr Mavroudis recounts his youth in New Jersey with his parents making a living through a luncheonette ice cream parlor and his rise to become one of the most world renowned pediatric congenital heart surgeons Dr Mavroudis established the second successful neonatal cardiac transplant program in the world He made many scientific and clinical contributions to the field by his research multiple publications his numerous editions of his textbook Pediatric Cardiac Surgery now in its 5th Edition and educating the next generation of surgeons including his own son Finding the Way is the tale of resourcefulness hard work and where humble beginnings lead to extraordinary endings About the Author Dr Constantine Mavroudis graduated from the University of Virginia School of Medicine 1973 and completed General Surgery Training 1973 1979 Thoracic Cardiovascular Training 1979 1981 and was a Research Fellow 1976 1977 all at the University of California San Francisco His first faculty position was at the University of Louisville School of Medicine 1981 1989 where he became Chief of Pediatric Cardiac Surgery and rose to the rank of Professor of Surgery He was recruited to Children s Memorial Hospital Northwestern University the Feinberg School of Medicine in 1989 as the Wills J Potts Professor of Surgery Division Director of Pediatric Cardiac Surgery and Surgeon in Chief During 2008 2011 Dr Mavroudis was chair of the Department of Pediatric and Congenital Heart Surgery with a joint appointment in the Department of Bioethics at the

Cleveland Clinic During 2012-2019 he was Director of Congenital Heart Surgery AdventHealth for Children in Orlando and Professor of Surgery Johns Hopkins University School of Medicine In 2020 he became Professor Emeritus of Surgery Johns Hopkins University School of Medicine and was recruited to Peyton Manning Children's Hospital in Indianapolis as Chief of Pediatric Cardiothoracic Surgery Dr Mavroudis spends his leisure time training for athletic events He has completed eleven marathons eighty five Olympic distance triathlons and fifteen 70.3 Ironman Triathlons in the United States Europe and Africa He and his family enjoy fishing trips winery visits SCUBA adventures and sailing vacations Dr Mavroudis is happily married forty years to the former Martha Smith of Louisville Kentucky Together they have two children Paula and Constantine

Pediatric Cardiac Anesthesia Carol L. Lake, Peter D. Booker, 2005 Long established as the 1 reference on pediatric cardiac anesthesia this definitive text is now in its thoroughly revised Fourth Edition The book provides comprehensive guidelines on preoperative evaluation perioperative management and postoperative care for all pediatric cardiac surgical procedures and includes quick reference summaries of perioperative management for each procedure For this edition Dr Lake is joined by an eminent British co editor Peter D Booker and an international group of distinguished contributors Coverage includes cutting edge information on echocardiography fast tracking and the newest surgical techniques New chapters cover teaching practice management anesthesia for cardiac MIS and hemostasis coagulation and transfusion **Atlas of Adult Congenital Heart Surgery** Constantine Mavroudis, Joseph A. Dearani, 2019-10-08 This atlas comprehensively covers surgical techniques for congenital heart surgery As the population with congenital heart defects increases more and more operations will be required to treat the residual defects new defects and replacement strategies such as valve replacements Chapters are devoted to specific conditions and feature detailed descriptions of how to perform a variety of appropriate reparative surgical techniques involving complex anatomy reoperative surgery and unique techniques to this speciality enabling the reader to develop a deep understanding of how to successfully resolve situations such as left ventricular outflow tract obstruction anomalous pulmonary venous return and anomalous origin of the coronary arteries Atlas of Adult Congenital Heart Surgery provides a foundational resource for practising and trainee cardiac surgeons nurses and healthcare associates seeking specialist training and insight to the resolution of congenital heart diseases in adults **Nadas' Pediatric Cardiology - E-Book** Edward P. Walsh, John E. Mayer, Sarah A. Teele, David W. Brown, 2023-12-05 In recent years the field of pediatric cardiology has undergone rapid change resulting in earlier diagnoses and improved long term outcomes for many patients Nadas Pediatric Cardiology 3rd Edition offers an easy to understand practical and team based approach to this complex field addressing the current needs of pediatric cardiologists surgeons fellows and other members of the pediatric cardiology team It thoroughly covers all diagnostic and management aspects of both acquired and congenital heart disease providing a strong foundation and an actionable approach to care of the pediatric cardiology patient and family Provides comprehensive coverage of the foundational and practical aspects of care for complex heart problems in children covering both therapy and

surgery from basic information through complex team based clinical applications Includes new chapters on cardiomyopathies structural heart disease interventional procedures genetics electrophysiology and imaging Discusses the latest information on diagnosis and treatment of congenital heart disease including in the fetus and young adult Covers current drugs used in pediatric heart conditions and surgical therapy Shares the knowledge and expertise of editors and authors at Boston Children s Hospital one of the world s largest and most highly rated pediatric cardiology and congenital heart surgery institutions using a team based approach Covers the full spectrum of care including anesthesia the ICU and nursing considerations

Ethical and Social Aspects in Pediatric and Congenital Heart Surgery Antonio Corno, 2025-07-14 This book focuses on the ethical and social aspects related to pediatric and congenital heart surgery The surgical procedures required for the repair of a congenital heart malformations are frequently seen as only a technical problem limited to cut and stitch On the contrary there are endless aspects to take into consideration from the communications with the child patient unless he she is a neonate or small infant and his her family trust building with the family the ethical issues related to the choice of type and timing among the available surgical options in relationship to the needs of the patient and his her family and their cultural and socioeconomic environment the impact of the differences in culture education religion socio economic situation the balance between risks and potential benefits in complex operations without any margin for error the information to the patient and his her family of the potential early and late complications including death the involvement of teamwork required for each procedure with members of a large team not directly under control by the surgeon with potential mistakes and omissions by any member of the team the way of sharing bad results and the support to the family in the case of poor outcomes While a few books deal partly with some of these aspects this is the first work entirely dedicated to address them all This important and unique work draws on the author s many years of experience in many different hospitals in different countries and continents Key audiences include the very large number of families of children who underwent or need to undergo surgery for a congenital heart defect all the caregivers and practitioners involved with the management of these patients and all researchers and students dealing with the topic of heart malformations

**Pediatric Cardiology** Robert H. Anderson, Carl L. Backer, Stuart Berger, Nico A. Blom, Ralf J. Holzer, Joshua D. Robinson, 2024-08-05 This reference work aims to be the primary resource in the field of heart disease in children and adult congenital heart disease It contains nearly 100 chapters covering all aspects of heart disease in three populations fetus with acquired and congenital heart diseases children with acquired and congenital heart diseases and adults with congenital heart diseases Divided into five main sections the book provides a comprehensive up to date and continuously revised overview of what is known in the field as well as resources for practical use such as normal values medication information and review of published guidelines The first section of the book includes historical background on congenital heart disease and the evolution of medical surgical and catheter therapeutics The fetal heart disease section comes next and covers cardiovascular embryogenesis etiological mechanisms

diagnostic tools presentation and management cardiomyopathies arrhythmias perinatal management and emergencies The bulk of the book lies in the third section on pediatric cardiology which examines not only basic science assessment and therapies but also a wide variety of specific acquired and congenital diseases such as valvular lesions arterial diseases cyanotic heart diseases cardiomyopathies cardiac tumors and pulmonary hypertension This is followed by the section on adult congenital heart diseases discussing echocardiography electrophysiology neurodevelopment and a variety of unique aspects of congenital heart disease in the adult years The final section of the book focuses on pharmacology with chapters on inotropes vasopressors diuretics and more Pediatric Cardiology Fetal and Pediatric Heart Diseases Adult Congenital Heart Diseases is an essential reference for physicians residents fellows medical students nurse practitioners and allied health professionals in cardiology pediatrics cardiac surgery and imaging radiology

The Developing Heart: A 'History' of Pediatric Cardiology Catherine A. Neill, E.P. Clark, 2013-04-18 Pediatric cardiology is celebrating in the 1990s the 50th anniversary of the beginnings of the age of therapy This informal history describes how the discipline grew from the era of pathologic anatomy to the dawn of therapy the beginnings of closed heart surgery between 1939 and 1945 That dawn ushered in a remarkable half century of change and growth leading from clinicophysiologic correlations through the start of open heart surgery in the 1950s The text celebrates some of the achievements of this vivid and heroic age and describes how in the mid 1970s new surgical and medical approaches including prostaglandins and Doppler echocardiography led to successful cardiac treatment in infancy the infant era Interventional cardiology and the study of childhood arrhythmias began Now in the 1990s a new era emphasising molecular biology and cardiac development is growing from the tools and concepts of the past The four eras have focused on pathologic anatomy clinicophysiologic correlations and surgery heart problems in infancy and now the developing heart In each era there have been advances in the four domains of pediatric cardiology the heart before birth the normal heart heart disease and defects and preventive cardiology Growth in knowledge has been both episodic and dramatic yet not a picture of unalloyed achievement The later chapters discuss some of the problems beginning to be recognised in the new and current developmental era The pioneers of pediatric cardiology both men and women are more than eponyms for each used in new and original ways the tools and concepts available in their era The interaction of tools and concepts is a theme in this book Just as the tool of the stethoscope was vital in delineating the clinical profile of ventricular septal defect and patent ductus the fluoroscope played a role in developing the concept of the Blalock Taussig shunt Pioneers also include patients and their families and the book includes some discussion of what little is known of childhood and of the child with heart disease in the four different eras This is a brief overview of the growth of knowledge of children's hearts from before William Harvey until our own time and includes references to histories of cardiac surgery and to collections of classic cardiac papers By its emphasis on the child as the central historic figure and on the interaction of tools and concepts in the growth of knowledge the text provides a celebratory approach to the 50th anniversary of modern



pediatric cardiology      *Principles and Practice of Cardiothoracic Surgery* Michael S. Firstenberg, 2013-06-12 The field of cardiothoracic surgery continues to evolve at a rapidly expanding rate New technologies are under constant development and as patients present with more advanced pathophysiology and complex comorbidities management becomes more dependent on multi disciplinary Teams While there are a variety of innovative and high profile topics that dominate the literature and the interests of clinicians sometimes is it the basics both in terms of acute and sometimes unusual problems that often challenge cardiothoracic surgeons on a day to day basis The goal of *Principles and Practice of Cardiothoracic Surgery* is to hopefully highlight the current state of the art management of these problems      **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      **Critical Heart Disease in Infants and Children E-Book** David G. Nichols, William J. Greeley, Dorothy G. Lappe, Ross M. Ungerleider, Duke E. Cameron, Philip J. Spevak, Randall C. Wetzel, 2006-08-29 Pediatric intensivists cardiologists cardiac surgeons and anesthesiologists from the leading centers around the world present the collaborative perspectives concepts and state of the art knowledge required to care for children with congenital and acquired heart disease in the ICU Their multidisciplinary approach encompasses every aspect of the relevant basic scientific principles medical and pharmacologic treatments and surgical techniques and equipment From the extracardiac Fontan procedure and the Ross procedure through new pharmacologic agents and the treatment of pulmonary hypertension to mechanical assist devices heart and lung transplantation and interventional cardiac catheterization all of the developments that are affecting this rapidly advancing field are covered in depth Employs well documented tables text boxes and algorithms to make clinical information easy to access Features chapters each written and reviewed by intensivists surgeons and cardiologists Integrates the authors extensive experiences with state of the art knowledge from the literature Offers four completely new chapters Cardiac Trauma Congenital Heart Disease in the Adult Congenitally Corrected Transposition of the Great Arteries and Outcome Evaluation Describes the basic pharmacology and clinical applications of all of the new pharmacologic agents Details important refinements and developments in surgical techniques including the Ross pulmonary autograft replacement of the aortic valve video assisted fluoroscopy and the extracardiac Fontan connection and discusses their indications and

potential complications Explores the latest advances in the treatment of pulmonary hypertension new developments in mechanical assist devices heart and lung transplantation and interventional cardiac catheterization Examines issues affecting adults with congenital heart disease      Women in Pediatric Cardiology 2021 Sarah Nordmeyer,Laura Muiño Mosquera,2023-01-30      *State of the Art Surgical Coronary Revascularization* David P. Taggart,John D. Puskas,2021 This is the most authoritative textbook ever dedicated to the art and science of surgical coronary revascularization with 71 chapters organized in 9 sections and written by over 100 recognized world experts It covers every aspect of the surgical management of coronary artery pathology and ischaemic heart disease      **Congenital Heart Disease, E-Book** Richard Van Praagh,2022-01-22 Authored by the originator of the standard nomenclature for this spectrum of disorders Congenital Heart Disease A Clinical Pathological Embryological and Segmental Analysis discusses the history anatomic features and physiologic consequences of CHD in one authoritative resource The Van Praagh approach to the segmental classification of CHD developed and implemented by Dr Richard Van Praagh in the 1960s at Boston Children s Hospital remains widely used today facilitating communication among radiologists cardiologists surgeons and pediatricians who are involved in the diagnosis characterization and management of this disease This unique atlas offers complete coverage of the ubiquitous Van Praagh language of CHD including the signs symptoms and clinical manifestations of malpositioned malformed or absent cardiovascular chambers vessels and valves using traditional as well as state of the art technology Based upon the systematic widely accepted Van Praagh system of three part notation used to succinctly describe the visceratrial situs the orientation of the ventricular loop and the position and relation of the great vessels Demonstrates how the Van Praagh approach facilitates interpreting and reporting findings through cardiac imaging with CT MR and ultrasonography including fetal cardiac imaging Presents the pathologic anatomy that pediatric and adult cardiologists radiologists and echocardiographers need to understand in order to make accurate diagnoses in complex congenital heart disease as well as the pathologic anatomy that interventionists pediatric cardiac surgeons and adult congenital heart surgeons need to know in order to manage their patients successfully Features more than 550 high quality images to help you visualize and recognize malformations Shares the knowledge and expertise of a world renowned authority on congenital heart disease a master teacher and the originator of the Van Praagh segmental classification system Explores the synergy between the various disciplines who manage patient care including surgeons radiologists cardiologists pathologists and pediatricians Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices

## Whispering the Secrets of Language: An Emotional Quest through **Atlas Of Pediatric Cardiac Surgery**

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