

Constantine Mavroudis
Carl Lewis Backer Editors

Illustrations by
Richard F. Idess

Atlas of Pediatric Cardiac Surgery



 Springer

Atlas Of Pediatric Cardiac Surgery

Constantine Mavroudis, Carl L. Backer



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, 2023-04-17 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 zurückgeht und Patienten mit angeborenen Herzfehlern zunehmend ein langes gesundes Leben führen, ergeben sich neue Herausforderungen. Somit war der Bedarf an Einführungen in diesen lebensrettenden Bereich noch nie so groß. *Pediatric Cardiac Surgery* ist ein gut verständliches, umfassendes Lehrbuch, das diesen Bedarf seit über drei Jahrzehnten erfüllt und von Fachleuten auf allen Ebenen genutzt wird. Das Lehrwerk, das zahlreiche farbige Abbildungen enthält, bietet zunächst eine wissenschaftliche Einführung in die kardiovaskuläre Entwicklung und dann detaillierte Analysen von Defekten in verschiedenen Bereichen des Herzens mit den entsprechenden Verfahren zur Korrektur dieser Defekte. Die aktualisierte fünfte Auflage berücksichtigt die neuesten wissenschaftlichen Erkenntnisse und bleibt damit ein unverzichtbares Werk zu diesem Thema. Die fünfte Auflage von *Pediatric Cardiac Surgery* enthält unter anderem Beiträge von über 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 für Herzchirurgen, die sich auf Kinder und Erwachsene spezialisiert haben, Kardiologen und alle medizinischen Fachkräfte, die mit pädiatrischen oder erwachsenen Herzpatienten arbeiten.

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 zurückgeht und Patienten mit angeborenen Herzfehlern zunehmend ein langes gesundes Leben führen ergeben sich neue Herausforderungen Somit war der Bedarf an Einführungen in diesen lebensrettenden Bereich noch nie so groß Pediatric Cardiac Surgery ist ein gut verständliches umfassendes Lehrbuch das diesen Bedarf seit über drei Jahrzehnten erfüllt und von Fachleuten auf allen Ebenen genutzt wird Das Lehrwerk das zahlreiche farbige Abbildungen enthält bietet zunächst eine wissenschaftliche Einführung in die kardiovaskuläre Entwicklung und dann detaillierte Analysen von Defekten in verschiedenen Bereichen des Herzens mit den entsprechenden Verfahren zur Korrektur dieser Defekte Die aktualisierte fünfte Auflage berücksichtigt die neuesten wissenschaftlichen Erkenntnisse und bleibt damit ein unverzichtbares Werk zu diesem Thema Die fünfte Auflage von Pediatric Cardiac Surgery enthält unter anderem Beiträge von über 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 für Herzchirurgen die sich auf Kinder und Erwachsene spezialisiert haben Kardiologen und alle medizinischen Fachkräfte die mit pädiatrischen oder erwachsenen Herzkranke Patienten arbeiten

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

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

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 viscerotransposition 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

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

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

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.

Unveiling the Magic of Words: A Report on "**Atlas Of Pediatric Cardiac Surgery**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Atlas Of Pediatric Cardiac Surgery**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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