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Altri autori (Persone)	MavroudisConstantine BackerCarl L
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Nota di contenuto	Title page; Copyright page; Contents; List of Contributors; Preface; CHAPTER 1: Development of the Heart and Great Vessels; Introduction; Formation of Cardiac Precursors; Formation of the Tube Heart; The Tube Heart, Segments, and Segmental Identity; Genetic Determination of Cardiac Segmentation; Looping; Looping, Convergence, and Septation - Key Landmarks; Endocardial Cushion Development and Myocardialization; Atrial Septation; Interventricular Septation; The Atrioventricular Junction Segment and Atrioventricular Valve Development; Development of the Conduction System Morphogenesis of the Outflow TractLandmarks in the Outflow Tract; Aorticopulmonary Septation; Development of the Semilunar Valves; Conus Septation; Morphogenesis of the Great Vessels and Coronary Circulation; The Neural Crest and Cardiac Development; Origins of the Outflow Tract Endothelium; Epicardial Cell Migration and Development of the Coronary Arteries; Development of the Aortic Arch; Development of the Pulmonary Veins; Development of the Systemic Veins; References; CHAPTER 2: Nomenclature and Classification of Pediatric and Congenital Heart Disease; Background; Segmental Anatomy

The Meaning of Left and Right Cardiac Relations and Cardiac Connections (or Cardiac Alignments); Atrial Situs; Ventricular Loop; Atrioventricular Connection; Ventriculoarterial Connection; The Position of the Heart and the Orientation of Its Apex; Classification of Cardiac Lesions; Description of Cardiac Lesions; Consensus Definitions; Nomenclature, Definitions, and Classification Controversies; Summary; References; CHAPTER 3: Physiology of the Fetal and Neonatal Circulations and Fetal Cardiac Surgery; Fetal Circulation; Fetal Intra- and Extracardiac Shunts; Venous Return Cardiac Output, Oxygenation, and Distribution Intracardiac and Vascular Pressures; Circulatory Changes at Birth; The Transition; Closure of the Ductus Arteriosus; Pulmonary Circulation; Myocardial Performance; Fetal Surgery; Fetal Cardiac Surgery; Animal Models of Congenital Lesions; Cardiopulmonary Bypass and the Placenta; Understanding Placental Hemodynamics; The Fetal Stress Response; Role of the Endothelium in Placental Dysfunction; Understanding the Fetal Bypass Circuit; Fetal Myocardial Protection; Miscellaneous Factors; Future Directions; References

CHAPTER 4: Preoperative Diagnostic Evaluation Introduction; History; Physical Examination; Chest Radiography; Abdominal Situs; Cardiac Silhouette; Aortic Arch; Lung Parenchyma; Electrocardiography; Preoperative Echocardiography; Atrial Septal Defects; Ventricular Septal Defects; Tetralogy of Fallot; Truncus Arteriosus; Common Atrioventricular Canal; d-Transposition of the Great Arteries; Coarctation of the Aorta; Hypoplastic Left Heart Syndrome; Cardiac Magnetic Resonance Imaging; Applications of Cardiac MRI; Intracardiac Shunts; Tetralogy of Fallot (TOF) Pulmonary Blood Supply in Patients with Pulmonary Atresia

Sommario/riassunto

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 incl
