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Nota di contenuto	Science of Ultrasound and Echocardiography -- Instrumentation for Transesophageal Echocardiography -- Indications and Guidelines for Performance of Transesophageal Echocardiography in Congenital Heart Disease and Pediatric Acquired Heart Disease -- Structural Evaluation of the Heart by Transesophageal Echocardiography -- Evaluation of complex cardiac malpositions, dextrocardia, heterotaxy -- Functional Evaluation of the Heart by Transesophageal Echocardiography -- Systemic and Pulmonary Venous Anomalies -- Atrial Abnormalities -- Atrial Septal Defects -- Atrioventricular Septal Defects and Atrioventricular Valve Anomalies -- Ventricular Septal Defects -- Evaluation of the Single Ventricle -- Outflow Tract Anomalies -- Evaluation of Conotruncal Abnormalities -- Transposition complexes:

corrected and congenitally corrected -- Great Artery and Other Vascular Abnormalities -- Congenital Coronary Artery Anomalies -- Intraoperative and Postoperative Transesophageal Echocardiography in Congenital Heart Disease -- Transesophageal echocardiography for noncongenital heart disease in pediatric patients -- Additional Applications of Transesophageal Echocardiography -- Applications of Transesophageal Echocardiography in the Cardiac Catheterization Laboratory -- Applications of TEE in the critical care/emergency care setting -- Transesophageal Echocardiography in Adults with Congenital Heart Disease -- Transesophageal Three-Dimensional Echocardiography in Congenital Heart Disease -- Clinical Applications of Three-Dimensional Transesophageal Echocardiography in Congenital Heart Disease.

Sommario/riassunto

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.
