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Titolo	Congenital Heart Disease : Morphological and Functional Assessment / / edited by Hideaki Senzaki, Satoshi Yasukochi
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Part I. Morphological Assessment of Congenital Heart Disease -- Chapter 1 Real-Time 3-Dimensional (3D) Echocardiography for Diagnosis and Treatment of Congenital Heart Diseases in Practical Medicine: Transepicaardial and Transesophageal Approach -- Chapter 2 Assessment of Atrioventricular Valve Anatomy and Function in Congenital Heart Diseases Using Three-Dimensional Echocardiography -- Chapter 3 Assessment of Intra-Cardiac Anatomy by Magnetic Resonance Imaging -- Chapter 4                      Assessment of Extra-Cardiac and Intra-Cardiac Anatomy by MD-CT -- Part II. Functional Assessment of Congenital Heart Disease -- Chapter 5 Assessment of Ventricular Function Using the Pressure-Volume Relationship -- Chapter 6 Assessment of Vascular Function by Using Cardiac Catheterization -- Chapter 7 Assessment of Ventricular-Vascular Function by Echocardiography -- Chapter 8 Assessment of Hemodynamics by Magnetic Resonance Imaging.
Sommario/riassunto	This book comprehensively covers the latest information about

ventricular–vascular morphology and function in congenital heart disease (CHD) assessed by various innovative methodologies. Anatomical (morphological) abnormalities in CHD are generally accompanied with abnormal loading conditions, which, in turn, cause ventricular and vascular functional impairments. The functional impairments may also exist independently of the anatomical abnormalities. These two (morphological and functional abnormalities) importantly interact to determine underlying pathophysiology and generate clinical symptoms in CHD. Therefore, detailed and precise assessment of morphology and function is essential to better understand and treat this disease. Recent advances in technology have provided useful tools for this purpose, and novel findings are accumulating. The information contained here will provide researchers and clinicians with invaluable knowledge in this field.

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