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Titolo	Advances in Treatments for Aortic Valve and Root Diseases // edited by Khalil Fattouch, Patrizio Lancellotti, Mani A. Vannan, Giuseppe Speciale
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Nota di contenuto	Aortic root anatomy -- Functional anatomy and dynamics of aortic root -- Multimodality imaging assessment of aortic stenosis -- Multimodality imaging assessment of aortic regurgitation -- Stress echocardiography in aortic valve disease -- Multimodality imaging assessment of prosthetic aortic valve -- Imaging predictors of reparable aortic valve -- TAVI: candidate selection and treatment guidance -- 4D flow imaging in aortic disease -- Aortic mitral valve coupling in aortic disease -- Bicuspid aortic valve -- Angio CT-scan and MRI imaging considerations prior to minimally invasive surgery -- Tricuspid aortic valve repair -- Bicuspid aortic valve repair -- Aortic annulus stabilization using external rings -- Aortic annulus stabilization using internal rings -- Root replacement with biological valve conduits -- Aortic valve-sparing reimplantation technique -- Aortic valve-sparing remodelling technique -- Aortic valve-sparing in aortic dissection -- Minimally invasive aortic root techniques -- Modified David Operation -- Mini-sternotomy -- Right anterior mini-thoracotomy -- Totally endoscopic aortic valve replacement -- Sutureless aortic valve implantation -- Rapid deployment aortic valve

implantation -- Stentless aortic valve prosthesis -- Aortic valve replacement with autologous pericardium -- Transcatheter aortic valve implantation (TAVI) using the transapical approach -- Transfemoral TAVI: devices and techniques -- Alternative approaches for TAVI: Transaortic, subclavian, carotid -- Aortic valve-in-valve implantation -- Demographics and operative options: D. Pacini - Roberto Di Bartolomeo -- The Heart Valve Center of Excellence/Heart team.

Sommario/riassunto

This book describes the different aspects of aortic valve and root diseases including comprehensive discussion of the state-of-the-art diagnostic imaging options, disease risk stratification, selection of candidates for valve repair or percutaneous intervention, and most recent therapeutic options. The growing prevalence of valvular heart disease represents a major challenge in terms of short- and long-term management and surveillance. Aortic valve diseases, including aortic stenosis and regurgitation, are among the most frequent of these, while the number of cases of aortic root disease is also on the rise. Aortic valve disease treatment options include valve surgery, valve repair, minimally invasive valve surgery, and percutaneous approaches and all are covered in this volume. *Advances in Treatments for Aortic Valve and Root Diseases* is a highly illustrated, case oriented reference aimed at cardiology fellows in training, while also helpful to surgeons, cardiologists, imagers, interventionalists, as well as other clinicians and students involved in the diagnosis and treatment of aortic valve and root diseases.
