

Special Issue

Transcatheter Aortic Valve Replacement: Latest Advances and Prospects

Message from the Guest Editors

Aortic stenosis is the most common degenerative valvular heart disease leading to surgery or transcatheter therapy in Europe and North America. During the last decade, transcatheter aortic valve replacement (TAVR) has become an established treatment for elderly patients with severe aortic stenosis across the surgical risk spectrum. Despite the substantial reduction in procedural complications with device iterations, increasing experience and procedure simplification, when they do occur, they may have a negative impact on patient outcomes. Therefore, continuous efforts seek to minimize some of the knowledge gaps and unresolved issues, such as choice of intervention in patients with bicuspid aortic valve or small aortic annulus, management of concomitant comorbidities, conduction disturbances, future coronary access, and long-term durability. This Special Issue aims to address some of these gaps, including pre-procedural planning, streamline procedure, and post-procedural management, to improve clinical outcomes and ensure the best lifetime management for these patients. Both original research contributions and state-of-the-art reviews are welcome.

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Deadline for manuscript submissions

closed (20 August 2023)



Journal of Clinical Medicine

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 5.2
Indexed in PubMed



mdpi.com/si/130217

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