

Special Issue

Heart Valve Surgery: Recent Trends and Future Perspective

Message from the Guest Editors

The Special Issue will focus on current and future approaches to diagnosing and surgically treating mitral valve disease in both children and adults. Recent advancements in assessing valve function for surgical decision-making have primarily relied on echocardiography, CT, and MRI to evaluate stenosis and regurgitation severity, and the introduction of 3D echocardiography has enhanced anatomical and functional assessment, yet integration with hemodynamic data remains limited. A key challenge is understanding how loading conditions affect valve function, complicating data interpretation. Currently, the prediction of post-intervention valve function is largely subjective, relying on clinical experience. In the perioperative period, the degree of regurgitation and stenosis is often underestimated due to the impact of bypass-induced loading changes on cardiac function. This Special Issue will bring together both current trends and future perspectives in mitral valve diagnostics and therapy, highlighting the need for improved assessment techniques and predictive models to enhance surgical outcomes in both pediatric and adult patients.

Guest Editors

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Deadline for manuscript submissions

27 July 2026



Journal of Clinical Medicine

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 5.2
Indexed in PubMed



mdpi.com/si/242221

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There has been an explosion of gene and target based research and therapeutics in the multitude of fields that compose clinical medicine. The *Journal of Clinical Medicine's* (JCM) staff and editorial board are dedicated to providing cutting edge, timely, and peer-reviewed articles covering the diverse subspecialties of clinical medicine. The journal publishes concise, innovative, and exciting research articles as well as clinically significant articles and reviews that are pertinent to the myriad of disciplines within medicine. The articles published are relevant to both primary care physicians and specialists. The journal's full-texts are archived in PubMed Central and indexed in PubMed. Please consider submitting your manuscripts for publication to our journal and check us out on-line!

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