

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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