

Special Issue

Aortic Valve Replacement Innovations and Outcomes

Message from the Guest Editors

Aortic valve replacement has undergone profound transformation, evolving from conventional open-heart surgery to now include minimally invasive transcatheter approaches. The aim of this Special Issue of *Medicina* is to present contemporary innovations and outcomes in the field of aortic valve replacement. We seek to cover the full spectrum of approaches, including open surgical replacement, minimally invasive surgery, and transcatheter aortic valve implantation. This is also a time of exciting progress in valve technologies themselves. Biological prostheses have seen advances in anticalcification treatments, leaflet durability, and hemodynamic performance, while mechanical valves are being reimaged with improved biocompatibility and reduced need for lifelong anticoagulation. Topics of particular interest include comparative outcomes of surgical and transcatheter techniques, innovations in valve materials and designs, durability and structural valve degeneration, patient-centered outcomes, and next-generation mechanical valve development.

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