

Special Issue

Precision Medicine in Valvular Heart Disease: Diagnosis and Management

Message from the Guest Editor

Cardiovascular medicine has undergone a profound transformation in recent decades, driven by advances in molecular biology, genetics, imaging methods, and interventional technologies. In this context, valvular diseases have also come to be understood from the perspective of their etiological, molecular, and clinical heterogeneity. Conditions such as aortic stenosis, mitral regurgitation, and valvular heart disease of genetic or inflammatory origin present distinct trajectories for progression and therapeutic response, highlighting the limitations of standardized treatment models.

Precision medicine, therefore, emerges as a strategic approach in valvular heart disease, integrating clinical, genetic, biomarker, and advanced imaging phenotype data (such as myocardial strain and computed tomography for valve calcium scoring) and individual patient characteristics to guide more assertive decisions. This approach allows for not only risk stratification and the identification of the ideal time for intervention—surgical or transcatheter—but also the selection of the most appropriate therapy, reducing complications and optimizing outcomes.

We look forward to receiving your contributions.

Guest Editor

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