



Catheter Ablation for Cardiac Arrhythmias: Clinical Updates and Perspectives in Cardiac Electrophysiology

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Message from the Guest Editors

Cardiac electrophysiology is a rapidly evolving field. Today, catheter ablation stands as the first-line therapy for many cardiac arrhythmias, such as AV node reentry tachycardia, typical and atypical atrial flutter, and atrial fibrillation. Pulmonary vein isolation (PVI) is the most frequently performed ablation procedure in cardiac electrophysiology and a pivotal strategy in the rhythm management of atrial fibrillation patients. Over the past decades, various thermal and non-thermal modalities for cardiac catheter ablation have emerged. These include 3D mapping-integrated point-by-point radiofrequency ablation, single-shot cryoballoon PVI, and pulsed-field ablation. Additionally, ablation procedures for premature ventricular contractions (PVCs) and ventricular tachycardia (VT) have significantly improved outcomes for these complex arrhythmias. With a deeper understanding of arrhythmic substrates, modulators, and triggers, substrate-based ablation is gaining increasing attention. This Special Issue aims to provide clinical updates and perspectives on the rapidly evolving cardiac arrhythmia catheter ablation field.





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