

Special Issue

Revolutionizing Arrhythmia Therapy: Novel Approaches in Pacing and Defibrillation

Message from the Guest Editors

The field of cardiac electrophysiology is undergoing a profound transformation driven by technological innovation and refined pathophysiological understanding. Conventional pacing and defibrillation strategies—long the cornerstone of bradyarrhythmia and sudden death prevention—are now being reshaped by the advent of conduction system pacing, leadless stimulation, subcutaneous and extravascular ICDs, and the integration of advanced imaging and remote monitoring. This Special Issue highlights recent advances redefining arrhythmia prevention and treatment, bridging innovative research with clinical practice. Topics of interest include new approaches to conduction system pacing and defibrillation, optimization of device implantation, physiological pacing for heart failure prevention, and arrhythmia detection through artificial intelligence. By gathering cutting-edge research, clinical experience, and technological insights, this Special Issue will offer a forward-looking perspective on how next-generation pacing and defibrillation strategies are revolutionizing the management of arrhythmic disorders and improving patient outcomes.

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