



The Cutting Edge of Cardiac Pacing, Electrophysiology and Diagnostic Techniques

Guest Editors:

Dr. Fabrizio Guarracini

Cardiothoracovascular
Department, Electrophysiology
Unit, Niguarda Hospital, Piazza
Ospedale Maggiore 1, 20162
Milano, Italy

Dr. Patrizio Mazzone

Cardiothoracovascular
Department, Electrophysiology
Unit, Niguarda Hospital, Piazza
Ospedale Maggiore 1, 20162
Milano, Italy

Deadline for manuscript
submissions:

30 September 2024

Message from the Guest Editors

Implantable cardioverter defibrillators (ICDs) have clearly established a proven benefit in reducing the risk of sudden cardiac death in patients affected by advanced heart failure or genetic diseases. Novel extravascular ICDs ensure the same benefits as transvenous ones but at the cost of a significantly reduced rate of complications, with subsequent fewer negative implications, especially in young patients. Resynchronization therapy is the cornerstone of the heart failure armamentarium, with even more well-tested technologies and possible fields of employment, in particular regarding conduction system pacing. Leadless pacemakers represent the most significant innovation in cardiac pacing technology, avoiding leads, surgical wounds, infections and battery replacement. On the other hand, catheter ablation is currently capable of treating 100% of cardiac arrhythmias, although with variable results. The advent of three-dimensional (3D) mapping systems has completely overturned electrophysiological techniques by providing detailed anatomical and electrical information of the heart, allowing for precise localization of arrhythmogenic substrates and targeted ablation.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Andreas Kjaer

Department of Clinical
Physiology, Nuclear Medicine &
PET National University Hospital,
Rigshospitalet, University of
Copenhagen, Blegdamsvej 9, DK-
2100 Copenhagen, Denmark

Message from the Editor-in-Chief

You are cordially invited to submit research articles, short communications, comprehensive reviews, case reports or interesting images for consideration and publication in *Diagnostics* (ISSN 2075-4418). *Diagnostics* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [PMC](#), [Embase](#), [Inspec](#), [CAPus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Medicine, General & Internal*)

Contact Us

Diagnostics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/diagnostics
diagnostics@mdpi.com
[X@diagnostic_mdpi](#)