

Special Issue

Clinical Applications of Cardiovascular Computed Tomography (CT)

Message from the Guest Editor

In its three decades of existence, cardiovascular CT has profoundly disrupted patient assessment and has established itself as one of the most recommended tests to guide patient management. Open questions remain regarding the prevention and treatment of cardiovascular disease, primarily based on the need to identify high-risk patients before they experience clinical symptoms and to guide invasive therapy. At the same time, the worldwide use of CT is still on the rise, raising safety concerns. In younger patients, the main issue is the exposure to ionizing radiation, while for the elderly with impaired renal function, the principal concern may be contrast-associated acute kidney injury.

This special issue aims to provide new insights into the clinical benefits of cardiovascular CT, including novel technology (spectral imaging, reconstruction algorithms, quantitative or functional imaging, artificial intelligence), advances in disease diagnosis and prevention, and emerging techniques (fractional flow reserve, perfusion imaging, pericoronary fat attenuation).

Guest Editor

Dr. David C. Rotzinger

Department of Diagnostic and Interventional Radiology, Lausanne University Hospital and University of Lausanne, Rue du Bugnon 46, 1011 Lausanne, Switzerland

Deadline for manuscript submissions

closed (31 May 2025)



Journal of Cardiovascular Development and Disease

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 3.7
Indexed in PubMed



mdpi.com/si/156201

*Journal of Cardiovascular
Development and Disease*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jcdd@mdpi.com

[mdpi.com/journal/
jcdd](https://mdpi.com/journal/jcdd)





Journal of Cardiovascular Development and Disease

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 3.7
Indexed in PubMed



[mdpi.com/journal/
jcdd](https://mdpi.com/journal/jcdd)



About the Journal

Message from the Editor-in-Chief

The primary goal of the *Journal of Cardiovascular Development and Disease* (JCDD, ISSN 2308-3425) is to provide cardiovascular scientists a platform to publish their work in a quick and efficient way. Topics can range from studies designed to decipher the events underlying early heart development to studies focusing on the origins of congenital and acquired heart disease. Papers submitted to JCDD undergo a fast, yet thorough, peer-review process. In this process, we will apply strict ethical policies and standards. JCDD guarantees fast dissemination of results to a large scientific audience

Editor-in-Chief

Prof. Dr. Thomas Brand
National Heart & Lung Institute, Imperial College London, South
Kensington Campus, London SW7 2AZ, UK

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPLus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Cardiac and Cardiovascular Systems) /
CiteScore - Q2 (General Pharmacology, Toxicology and
Pharmaceutics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 28.8 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).