

Special Issue

Myocardial Oxygen Consumption and Myocardial Efficiency in Various Physiological States

Message from the Guest Editor

Over the past 60 years, sporadic reports have evaluated MVO₂ and MyoEff. These studies were invasive and required special catheters, limiting the ongoing pursuit of these measures. The use of left ventricular pressure-volume (PV) constructs led to the reintroduction of MyoEff in the late 1980s and early 1990s. However, conducting PV studies in patients is plagued by the same issues listed previously.

Despite these hurdles, the field of cardiac research has seen significant progress. Nuclear positron emission tomography has emerged as a non-invasive option for measuring MVO₂, offering a promising alternative to invasive methods. Combining these data with a collection of stroke work (SW) data allows for the non-invasive calculation of MyoEff. In contrast, numerous studies have used indirect metrics to provide directional evaluation of MVO₂ and MyoEff, in contrast to measures of SW and MVO₂. This Special Issue underscores the importance of understanding myocardial performance and the impact on MyoEff across disease states, as it can provide crucial insights and guide treatment strategies.

Guest Editor

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Deadline for manuscript submissions

closed (15 April 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/211499

*Journal of Cardiovascular
Development and Disease*
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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

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