



Clinical Applications of Cardiovascular Computed Tomography (CT)

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

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Message from the Guest Editor

Dear Colleagues,

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).

Dr. David C. Rotzinger
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