

Special Issue

Coronary CT Angiography in Coronary Artery Disease: Challenges and Future Opportunities

Message from the Guest Editors

Coronary computed tomography angiography (CCTA) has emerged as a transformative non-invasive imaging modality in the diagnosis, risk stratification, and management of coronary artery disease (CAD). With continual advances in scanner technology—including dual-source, spectral imaging, and, more recently, photon-counting CT—CCTA now offers unprecedented resolution and diagnostic precision. The evolving integration of artificial intelligence, plaque characterization, and CT-derived fractional flow reserve (FFR-CT) further positions CCTA as a cornerstone of personalized cardiovascular care. This Special Issue aims to explore the current applications and future opportunities of CCTA across the full spectrum of CAD, from stable angina and INOCA/ANOCA to acute coronary syndromes and complex revascularization planning. By bringing together contributions from experienced clinicians and researchers, this Special Issue seeks to foster multidisciplinary dialogue and advance the implementation of CCTA in routine and precision cardiology.

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