

Special Issue

Advanced Imaging in Acute Coronary Syndrome

Message from the Guest Editors

Cardiovascular disease (CVD) remains the leading global cause of mortality, particularly affecting low- and middle-income nations. The initial manifestation of CVD is often acute coronary syndrome (ACS). Echocardiography serves as the primary assessment for ACS patients. Recent trials have extensively explored Coronary CT angiography (CCTA) for evaluating those with suspected NSTEMI-ACS in emergency departments. Beyond depicting coronary anatomy, CCTA's capability to identify signs of coronary plaque instability holds promise for ACS assessment. Furthermore, cardiac magnetic resonance (CMR) directly visualizes infarcted regions, providing insights into scarring and viability distinct from other myocardial injuries like myocarditis. Both intravascular coronary imaging techniques, Optical Coherence Tomography (OCT) and Intravascular Ultrasound (IVUS), are pivotal in shaping treatment strategies for ACS. The analysis of advanced non-invasive and invasive imaging in ACS holds tremendous potential, promising enhanced clinical management for these patients.

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