

Special Issue

Takotsubo Syndrome: Insights into Pathophysiology, Diagnosis, and Management

Message from the Guest Editors

Takotsubo syndrome (TTS) is an acute, reversible cardiomyopathy characterized by transient left ventricular dysfunction in the absence of obstructive coronary artery disease. It often presents with chest pain and ECG changes mimicking acute coronary syndrome and is frequently precipitated by physical or emotional stress. Although the exact pathophysiology remains unclear, proposed mechanisms include catecholamine-mediated myocardial stunning, microvascular dysfunction, and autonomic dysregulation. Despite its transient nature, TTS is associated with significant complications including acute heart failure, arrhythmias, thromboembolic events, and recurrence. Advances in imaging modalities, biomarker discovery, and risk stratification are refining diagnostic accuracy and prognostic assessment. However, optimal management strategies remain debated, particularly regarding outcomes and prevention. This Special Issue aims to explore recent advances in the clinical pathophysiology, diagnosis, and clinical management of TTS. We welcome research that contributes to a deeper understanding of disease mechanisms, risk factors, novel diagnostic tools, and emerging therapeutic strategies.

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