

Special Issue

Cardiogenic Shock and Cardiac Arrest: Updates, Challenges and Opportunities

Message from the Guest Editor

Cardiac arrest remains a leading global cause of mortality and morbidity, with survival rates stagnating despite advancements in resuscitation science. This Special Issue explores the multifaceted nature of cardiac arrest and the critical need for innovation and scientific advances to improve outcomes. Cardiac arrest is not a singular event but a complex interplay of pathophysiological mechanisms, patient-specific variables, and system-level factors. Its treatment requires an interdisciplinary approach, integrating expertise from a wide array of clinical specialties and health systems science. Novel therapies, such as extracorporeal cardiopulmonary resuscitation (ECPR), offer promising avenues for improving outcomes in select populations, yet their implementation demands rigorous scientific validation and resource-intensive infrastructure. This Issue seeks to emphasize gaps in understanding cardiac arrest physiology, including the roles of microcirculatory dysfunction, metabolic derangements, and neurological injury. Contributions highlighting emerging technologies. Please click [here](#) to find more information.

Guest Editor

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