Special Issue

Recent Advances in Cardiac Arrest

Message from the Guest Editor

Cardiac arrest (CA) is a significant public health problem, affecting over 60,000 individuals in Japan and over 300,000 individuals in the US each year. Although their survival rates have been improved through updated resuscitation guidelines, their neurological outcomes remain poor, and there many patients have been left in a vegetative state or a coma after CA, even if they successfully achieved a return of spontaneous circulation and received intensive care treatment after CA. So far, numerous clinical trials have attempted to discover novel therapies for improving their neurological outcomes, but no established treatments exist except targeted temperature management, which means we need to further facilitate the research to improve their outcomes. This Special Issue (SI) aims to discuss knowledge gaps and research priorities in the field of resuscitation science for CA, as well as to present potential novel treatment strategies to improve their outcomes. The scope of this SI intentionally encompasses a wide range of topics and perspectives related to the research for CA. This not only includes basic research, but also clinical research, review articles, and case reports.

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