

Special Issue on
Reperfusion and Extracorporeal Resuscitation for Cardiac Arrest

CALL FOR PAPERS

Since the successful implementation of the milestone developments of structured cardiopulmonary resuscitation (CPR) including early defibrillation, advanced life support measures, and post-cardiac arrest temperature management, patient outcomes have not improved much.

Extracorporeal cardiopulmonary resuscitation (ECPR) using extracorporeal life support is one of the most promising and controversial treatment options in cardiac arrest, due to its ability to treat and/or act as a bridge for treatment of a potentially reversible underlying condition on one hand and its resource-intensive nature on the other hand. The potential ability to treat a patient with individualized reperfusion therapy has been a long sought aim in resuscitation research.

The field of ECPR is currently developing around the globe and enthusiasm in the specialist community is increasing rapidly. So far available results are still scarce but very promising. Clearly patient selection and the speed of the performance to safe precious time are key issues. But still little is known about the exact methods as how and where to employ ECPR on a patient-individual level and even less is known about early individual measures of prognosis. Furthermore, more evidence concerning microcirculation during and after cardiac arrest is urgently needed. The post-cardiac arrest syndrome and its complexity need to be put into the scientific spotlight and investigated intensely.

To increase available evidence on this subject the purpose of this special issue is to publish high-quality research papers as well as review articles addressing recent advances on extracorporeal resuscitation and reperfusion after cardiac arrest. Original, high-quality contributions that are not yet published or that are not currently under review by other journals or peer-reviewed conferences are sought.

Potential topics include but are not limited to the following:

- ▶ New measures of CPR
- ▶ Out-of-hospital ECPR
- ▶ In-hospital ECPR for out-of-hospital cardiac arrest
- ▶ ECPR for in-hospital cardiac arrest
- ▶ Methods of ECPR (pressure versus flow theories)
- ▶ Experimental developments of CPR and ECPR
- ▶ Alternative measures of perfusion during cardiac arrest
- ▶ Reperfusion injury and potential treatment options
- ▶ Microcirculation in cardiac arrest, CPR, and severe shock
- ▶ Prognostic tools for reperfusion and/or ECPR

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/bmri/emergency.medicine/lerc/>.

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Manuscript Due

Friday, 28 July 2017

First Round of Reviews

Friday, 20 October 2017

Publication Date

Friday, 15 December 2017