

Title: Cutting Edge Concepts for Managing Cardiac Arrest in the Critically Ill Child:
Beyond the 2015 Guidelines

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Date & Time: Saturday June 4th; 0830-1700

Location: MTCC Hall 714B

Target Audience: Novice to expert critical care clinicians (physicians, nurses, respiratory therapists, pharmacists), and those involved with Resuscitation Quality Assurance, Education and Research

Objectives: The overall objective of this one-day workshop is for pediatric critical care attendees and faculty to engage in a series of discussions about current cutting edge concepts and controversies in cardiopulmonary resuscitation. In the majority of cases, the topics to be discussed are either in emerging areas and/or do not yet have clear answers or sufficient evidence to lead to consensus and clear guidelines to date. The faculty include subject matter experts on each topic area to enable sharing of experience from a variety of domains, i.e. clinical directors, simulation-based education and research, animal lab directors, international authorities of current guidelines and quality assurance leaders. Each topic area session will start with a presentation to trigger discussion (e.g. simulation demonstration, video highlighting key elements of topic, surveys with audience response software, etc...) For each topic, at least three faculty will share their current approaches and rationale on these controversial issues and the remaining participants and faculty will have an opportunity to share their concerns and perspectives.

The resuscitation topic sessions to be discussed include but are not limited to:

1. Post-op cardiac patients – open chest, cardiac transplant, single ventricle patients, etc...
2. Cardiac arrest and mechanical circulatory support – ECPR, Ventricular Assist Devices, etc...
3. Goal directed CPR – choice of targets based on patient population and resources, external vs internal target, depth, rate, ETCO₂, diastolic blood pressure, etc...
4. Evolving teamwork and leadership concepts, human factors and ergonomic issues during resuscitation
5. Resuscitation during Transport – Patient selection, issues related to delivery of high quality CPR while in transport, approaches to keeping providers safe
6. Resuscitation in low resource settings
7. Resuscitation systems of care – data capture, analytics, event debriefing programs, forensic analysis, education programs

Workshop Sponsors: Laerdal Corporation, Zoll Medical Corporation