

Title: Consensus definition on post-resuscitation shock: A pre-planned, randomized data-driven Delphi definition

Authors: Pedro D. Wendel Garcia (pedro david.wendelgarcia@usz.ch), Joachim Düring, all further interested STEPCARE investigators

Objectives: Arriving at a viable, clinically implementable and potentially therapy defining definition for post-resuscitation shock by combining a data-driven and Delphi process

Main Outcomes: Consensus definition on post-resuscitation shock

Population: All patients randomized to STEPCARE.

Design/Statistics: Supervised and unsupervised machine learning methods combined with a Delphi process including all interested STEPCARE investigators and other leading researchers in the field.

Additional Variables to be included into database (same as for the inotropic therapy in cardiac arrest patients with post-resuscitation shock sub-study):

- **Hourly Observations (at 0, 4, 8, 12, 16, 20, 24, 28, 32, 36, 40 hours):**
 - RASS and Drugs -> (We would take the Vasoactive Drugs out of this Section and create a dedicated one)
 - Vasoactive Management
 - Noradrenaline Dose [mcg/kg/min] [mcg/min] [Not used]
 - Vasopressin Dose [IE/min] [Not used]
 - Adrenaline Dose [mcg/kg/min] [mcg/min] [Not used] -> **Instead of the Question Adrenaline Infusion Yes/No**
 - Dobutamine Dose [mcg/kg/min] [mcg/min] [Not used] -> **Instead of the Question Dobutamine Infusion Yes/No**
 - Milrinone Dose [mcg/kg/min] [mcg/min] [Not used]
 - Levosimendan Dose [mcg/kg/min] [mcg/min] [Not used]
 - Use of Methylene Blue [yes] [no]
 - Use of Corticosteroids for Shock Reversal [yes] [no]
 - Fluid Management
 - Infused crystalloids for a plasma expanding/ resuscitation purpose over the last 4 hours [ml]
 - Infused colloids for a plasma expanding/ resuscitation purpose over the last 4 hours [ml]
- **Hourly Observations (at 48, 56 hours):**
 - RASS and Drugs -> (We would take the Vasoactive Drugs out of this Section and create a dedicated one)
 - Vasoactive Management

- Noradrenaline Dose [mcg/kg/min] [mcg/min] [Not used]
 - Vasopressin Dose [IE/min] [Not used]
 - Adrenaline Dose [mcg/kg/min] [mcg/min] [Not used] -> **Instead of the Question Adrenaline Infusion Yes/No**
 - Dobutamine Dose [mcg/kg/min] [mcg/min] [Not used] -> **Instead of the Question Dobutamine Infusion Yes/No**
 - Milrinone Dose [mcg/kg/min] [mcg/min] [Not used]
 - Levosimendan Dose [mcg/kg/min] [mcg/min] [Not used]
 - Use of Methylene Blue [yes] [no]
 - Use of Corticosteroids for Shock Reversal [yes] [no]
 - Fluid Management
 - Infused crystalloids for a plasma expanding/ resuscitation purpose over the last 8 hours [ml]
 - Infused colloids for a plasma expanding/ resuscitation purpose over the last 8 hours [ml]
- **Hourly Observations (72, 96, 120 hours):**
- RASS and Drugs -> (We would take the Vasoactive Drugs out of this Section and create a dedicated one)
 - Vasoactive Management
 - Noradrenaline Dose [mcg/kg/min] [mcg/min] [Not used]
 - Vasopressin Dose [IE/min] [Not used]
 - Adrenaline Dose [mcg/kg/min] [mcg/min] [Not used] -> **Instead of the Question Adrenaline Infusion Yes/No**
 - Dobutamine Dose [mcg/kg/min] [mcg/min] [Not used] -> **Instead of the Question Dobutamine Infusion Yes/No**
 - Milrinone Dose [mcg/kg/min] [mcg/min] [Not used]
 - Levosimendan Dose [mcg/kg/min] [mcg/min] [Not used]
 - Use of Methylene Blue [yes] [no]
 - Use of Corticosteroids for Shock Reversal [yes] [no]
 - Fluid Management
 - Infused crystalloids for a plasma expanding/ resuscitation purpose over the last 24 hours [ml]
 - Infused colloids for a plasma expanding/ resuscitation purpose over the last 24 hours [ml]