



Pan Asian Therapeutic Hypothermia Electronic Registry

Background

- Controlled therapeutic hypothermia is a method of preserving neurological function post-resuscitation.
- Therapeutic hypothermia (TH) after cardiac arrest can possibly help protect patients' neurological function.
- Therapeutic hypothermia is very new in the Asia Pacific, although it is standard of care in many countries in Europe and North America.

Proposal



- ▶ Set up a hypothermia registry in Singapore and across the Asia Pacific through the Pan Asian Resuscitation Outcomes Study (PAROS) network.
- ▶ Development of hypothermia registry will allow participating hospitals to collectively enter and manage data.
- ▶ A standardized case record form will be adopted across participating hospitals for more seamless data collection and analyzing of outcomes.
- ▶ Encourage sharing of best practice and build a platform for further research in TH.

Benefits

- ▶ Improve the survival rate of post-cardiac arrest patients
- ▶ Better neurological outcomes for patients in Singapore



E-PAROS - HYPOTHERMIA VARIABLES



Sections	Hypothermia Elements
<i>Demographics</i>	<ul style="list-style-type: none"> • Site ID/ National Identifier • Age • Gender • Race • Medical History • GCS/CRC at ROSC • Type of patient • Transferred case from (free text) • BHCA (Y/N) • OHCA (Y/N) • PAROS case (Y/N)
<i>Event Information</i>	<ul style="list-style-type: none"> • Location • OHCA (PAROS/CARES location type categories) • BHCA (ED/ICU/Ward/Others) • Date and time of arrest • Arrest witnessed • Arrest after arrival of ambulance crew/first responder • Include NA option for BHCA case • Who initiated CPR (use AHA as guide) • Bystander • EMS • Hospital staff • First arrest rhythm of patient • Any defibrillation? Y/N • Date of ROSC • Time of sustained ROSC • Arrest etiology (cardiac/non-cardiac) • Coronary Angiogram performed • Was PCI done - stent placed? Y/N • Was an ICD place and/or scheduled? Y/N • Was CABG done? Y/N • Was ECMO initiated? Y/N

E-PAROS - HYPOTHERMIA VARIABLES



Sections	Hypothermia Elements
<i>Hypothermia Information</i>	<ul style="list-style-type: none"> • Therapeutic hypothermia induced? (Y/N) • Where was hypothermia care initiated - EMS - ED - ICU • Date and time therapeutic hypothermia initiated • Cooling method (External vs internal) - Surface - Intravascular - Intranasal - ECMO - Others • Target temperature reached? (Y/N) • Date and Time target temperature reached • Target temperature (free text) • Did overshoot occur? (Y/N) - during cooling phase • Date and time rewarming initiated • Date and time rewarming complete • Rebound hyperthermia - to set threshold at 37.5 deg C
<i>Hospital/Discharged information</i>	<ul style="list-style-type: none"> • Hospital Outcome - Died in ED - Survived to admission - Survived to discharge • Neurological Outcome at Discharge from Hospital (CPC and OPC) • Date of discharge • Discharge from Hospital (location discharged to) • GCS at discharge • Date and time of death

Additional elements

- Any neurological monitoring
- Any Seizure during hypothermia
- Any Cardiac arrhythmia
- Any Skin Complications
- Stress ulcer / GI Bleed
- Hypotension
- Hyperkalemia - upon rewarming
- Hyperglycemia
- Pneumonia / sepsis
- Cause of death (cardiac/non-cardiac)
- Death related to index visit