Pilot Study: Feasibility of induction and maintenance of therapeutic hypothermia following successful resuscitation from pediatric cardiac arrest

Record Data on Hypothermia Study Data Collection Sheet

- Place cooling blanket under the patient
- Place rectal probe
- Place axillary probe
- Ask the fellow to place the esophageal temperature probe (measure to mid sternum)
- If team wants a Foley catheter place temperature sensing foley (in research drawer)

Initiate cooling protocol  (see attached cooling protocol algorithm)

Note:
1. Time 0 is the time point at which cooling is initiated. All data prior to cooling can be collected retrospectively once cooling has begun

2. Highlighted times are when blood needs to be sent, please look at wall sheet and bags for tubes and instructions, time 0 for blood draw is the time of the cardiac arrest

- Send blood specimens at noted time points on wall collection sheets

With questions page Alexis Topjian 21050 (cell phone 267-496-1670) or GCRC nursing pager 14641
REWARMING (TIME 25-42 HOURS)

****All interventions should be based on rectal temperature**

Time = 25 hours

**DO NOT USE AUTOMATIC**

Hour 25-30: goal temp 33-35C
DATE/TIME: ___________________
- On MANUAL, increase goal temperature to 35 C
  *If temperature is < 33-35 C, increase blanket temperature to 36 C

Hour 31-36: goal temp 34-36C
DATE/TIME: ___________________
- On MANUAL, increase goal temperature to 36 C
  *If temperature is < 34-36 C, increase blanket temperature to 37 C

Hour 37-42: goal temp 35-37C
DATE/TIME: ___________________
- On MANUAL, increase goal temperature to 37 C
  *If temperature is < 35-37 C, increase blanket temperature to 38 C

Hour 43-48: goal temp 36 – 37 C
DATE/TIME: ___________________
- IF temperature is less than 36 at this time point then increase blanket temperature to 38 C with a goal of reaching a rectal temp > 36 C

WHEN TEMP >36.5
PATIENT IS OFF COOLING PROTOCOL. MEDICAL TEAM DECIDES TEMPERATURE CONTROL

Goal final temperature > 36 C- when this is obtained, patient is off study protocol

If temp < 32, turn off blanket and wait for temperature to rise to > 32
If > target, set blanket to maximal cool and repack ice until you are in goal range
**INDUCTION AND MAINTENANCE (TIME 0-24 HOURS)**

****All interventions should be based on rectal temperature**

**Time = 0**

Measure RECTAL Temperature

**Temp > 34 C**

**Temp ≤ 34 C**

MAINTENANCE PHASE (goal 32-34 C)
1. Remove Ice bags
2. Set blanket to AUTOMATIC, goal 33 C
   * if no rectal probe set blanket to 33 and use foley temp, as goal

When Temp ≤ 34 C

If Temp > 32 C

If Temp > 34 C

If Temp < 32 C

1. remove ice packs if on
2. turn off cooling blanket is > 32 C
3. when > 32 C resume MAINTENANCE PHASE

If Temp < 32 C

**Time = 24 h**

At time 24 hours advance to the REWARMING PHASE on the next page