

PHYSICIAN ORDER SHEET

Allegheny General Hospital
Pittsburgh, PA

UNLESS SPECIFIED "THIS BRAND ONLY", THE GENERIC EQUIVALENT OR THERAPEUTIC ALTERNATIVE WILL BE DISPENSED

Place Patient Identification Here

STAT

Page _____ with questions

Therapeutic Hypothermia Orders

See Reverse side for dosing/ monitoring considerations

Confirm Diagnostic Studies Performed:

Check box if not yet done

- CXR (circle one) PA and Lateral vs. Portable
- EKG
- CDC with Differential
- Chem 18
- Mg, Ph
- CK, CKMB, Troponin
- Lactate
- ABG
- aPTT, PT, INR
- Urine HCG if female <50

Pre-Induction Orders

Check Reverse Document Eligibility

- Confirm Sedation to RASS Score of -4
 - Confirm placement of Icy[®] catheter
 - Document
 - GCS
 - Pupil response
 - Dolls eyes response
 - Corneal reflex
 - Paralyze
 - Vecuronium 0.1mg/kg IV x1
- Therapeutic goal of Train of Four (1 of 4)**
- Insert temperature sensing Foley catheter

Monitoring Orders

- End Tidal CO2 monitor
- Continuous bladder temperature
- Continuous Telemetry
- Train of four q2 hours if paralyzed

Induction Orders

- Goal temperature of 33°C
- Duration of Cooling: 18 hours

Preferred Regimen:

- Attach ALSIUS Icy[®] catheter to CoolGuard 3000[®] system
- Attach temperature sensing Foley catheter to CoolGuard 3000[®] system
- Set CoolGuard 3000[®] temperature control to 33.0° C

Alternative Regimen

as needed based on availability of CoolGuard 3000[®]

- Attach temperature sensing Foley catheter to monitor
- IV Infusion: 1500mL 4°C Normal Saline over 30 minutes
- Recheck temperature
- If greater than 33.5°C: give an additional 500ml of IV NSS over 10 minutes
- Repeat 500ml IV bolus every 10 minutes until at goal temperature.
- Apply Ice Packs to groin and axilla
- Place patient on cooling blanket if available, set to 4°C

Prescriber's Signature _____ Pager _____ Date/Time _____

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Post Induction Orders

NEVER LET PATIENT TEMPERATURE DROP BELOW 32°C

- Temperature greater than 34°C**
 - Ice packs to groin and axilla
 - 500mL 4°C NSS IV bolus over 10 minutes
- Labs q8 hours x 32 hours**
 - CBC
 - Chem-8
 - aPTT, PT, INR
 - ABG
 - Lactate
 - CXR in AM
 - CK, CKMB, Troponin
- Shivering**
 - Dilaudid 1mg IV prn
or
 - Vecuronium 1 mcg/kg/min IV infusion
- If Paralyzed**
 - EEG qAM after induction

Rewarming Orders

NEVER LET PATIENT TEMPERATURE RISE ABOVE 37.5°C

- Begin rewarming 18 hours after the target temperature is reached**
 - Aim for slow rewarming
- Rebound hyperthermia** (Temperature >37.5°C)
 - Acetaminophen 1gm PR x1
 - Ice packs to groin and axilla
- Passive Rewarming**
 - warm air blanket if temperature <36°C after twelve hours of passive rewarming.
- Discontinue neuromuscular blockade**
- Lighten Sedation** once TOF returns to 4 of 4:
titrate RASS to -2.
- Dilaudid** 1mg IV prn shivering or pain

Prescriber's Signature _____ Pager _____ Date/Time _____

Eligibility for Therapeutic Hypothermia

Inclusion Criteria:

- Cardiac arrest with return of spontaneous circulation (initial rhythm: ventricular fibrillation (VF) or pulseless ventricular tachycardia (VT). *Consider use in pulseless electrical activity (PEA), or asystole.*
- Age greater than 18 years. Women of childbearing age must have a negative pregnancy test (must be documented on the chart)
- Unresponsive after return of spontaneous circulation (ROSC) – i.e. coma
- Endotracheal intubation with mechanical ventilation
- Blood pressure can be maintained at least 90 mm Hg systolic either spontaneously or with fluid and pressors.

Exclusion Criteria:

- Another reason to be comatose (e.g. drug overdose, head trauma, stroke, overt status epilepticus)
- Pregnancy
- Temperature of <30° C after cardiac arrest
- Documented Do Not Resuscitate (DNR) or Do Not Intubate (DNI) code status and patient not intubated as part of resuscitation efforts

Relative Exclusion Criteria:

- Known, pre-existing coagulopathy or bleeding
- Cardiac arrest time or “down time” of greater than 30 minutes

Richmond Agitation Sedation Scale

| <u>Score</u> | <u>Term</u> | <u>Description</u> |
|--------------|-------------------|---|
| +4 | Combative | Overtly combative or violent; immediate danger to staff |
| +3 | Very agitated | Pulls on or removes tube(s) or catheter(s) or has aggressive behavior toward staff |
| +2 | Agitated | Frequent nonpurposeful movement or patient–ventilator dyssynchrony |
| +1 | Restless | Anxious or apprehensive but movements not aggressive or vigorous |
| 0 | Alert and calm | |
| -1 | Drowsy | Not fully alert, but has sustained (more than 10 seconds) awakening, with eye contact, to voice |
| -2 | Light sedation | Briefly (less than 10 seconds) awakens with eye contact to voice |
| -3 | Moderate sedation | Any movement (but no eye contact) to voice |
| -4 | Deep sedation | No response to voice, but any movement to physical stimulation |
| -5 | Unarousable | No response to voice or physical stimulation |