PHYSICIAN ORDER SHEET
Allegheny General Hospital
Pittsburgh, PA

ULESS SPECIFIED “THIS BRAND ONLY”, THE GENERIC EQUIVALENT OR THERAPEUTIC ALTERNATIVE WILL BE DISPENSED

☐ 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 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________________
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 1mcg/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

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