NICU - HIE: Therapeutic Hypothermia - Admission Neonatal

| DATE       | TIME       | WEIGHT | GESTATIONAL AGE | GESTATIONAL AGE
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<td>DD MM YYYY</td>
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<td>_______ KG</td>
<td>(GA)</td>
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Status/Admit/Transfer/Discharge

- Hypoxic-Ischemic Encephalopathy (HIE) - Therapeutic Hypothermia Admission Eligibility: Infant has ALL of the following:
  - Probable perinatal asphyxia
  - Less than 8 hours of age
  - Moderate or severe encephalopathy
  - No unstable coagulopathy or Persistent Pulmonary Hypertension of the Newborn (PPHN)

Patient Care

Therapeutic Hypothermia Protocol:

- Using the CritiCool; initiate hypothermia with target core temperature 33.-34 degrees C. (Start Date/Time:__________)

- Using the CritiCool; initiate re-warming mode (after 72 hours of cooling). Re-warming will take approximately 7-8 hours to complete. (Start Date/Time: ___________) (Approximate completion in 7-8 hours Date/Time: _______)
  - Note: The CritiCool will increase by 0.2 degrees C every 30 minutes until it reaches 36.5 degrees C.

- Using the CritiCool; maintain core temperature at 36.5 degrees C in ‘Neonatal Rewarming’ mode for 24 hours and protocol is complete (Stop Date/Time:______)  

Vital Signs

- Monitor heart rate and set alarm limits greater than or equal to 80 bpm
- Print ECG tracing if abnormal cardiac rhythm noted
- Target mean blood pressure between _________ and _________ mmHg (Standard: 40-45 mmHg)

Medications

- morphine 10 mcg/kg/hour IV continuous infusion

IV Infusions

- dextrose 10% in water (D10W) 50 mL/kg/day continuous infusion (for the first 24 hours)
- Document fluid balance every 6 to 12 hours
- Call MD If urine losses exceed 2 mL/kg/h over 12 hours

Respiratory

- SpO2 maintain _________ % to _________ % (Standard: 90-94%)
- Maintain pH _________ (Standard: pH 7.3-7.4)
- Maintain PCO2 _________ (Standard: PCO2 at 40-50)

Signature:_______________________________________  Print Name:____________________________________
College ID:______________________________________   Pager:________________________________________
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NICU - HIE: Therapeutic Hypothermia - Admission (Neonatal)

DATE _____/_____/_______       TIME _________

DD      MM       YYYY

WEIGHT:_________ KG

GESTATIONAL AGE (GA) _____________________

☐ ALLERGY CAUTION sheet reviewed

Laboratory

Chemistry

Routine Laboratory Testing: Day 1 and Day 2 ONLY

› Target blood glucose: 3.3 to 6 mmol/L
  ☐ Blood glucose point of care measurement on admission
  ☐ Blood glucose point of care measurement. Repeat every 6 hours
  ☐ Sodium every 12 hours
  ☐ Chloride every 12 hours
  ☐ Magnesium at 24 and 48 hours
  ☐ Lactate with every arterial and venous blood gas
  ☐ Alanine aminotransferase (ALT) at 24 and 48 hours
  ☐ Aspartate aminotransferase (AST) at 24 and 48 hours
  ☐ Lactate dehydrogenase (LDH) at 24 and 48 hours
  ☐ Bilirubin at 24 and 48 hours
  ☐ Urea at 24 and 48 hours
  ☐ Potassium every 12 hours
  ☐ Calcium at 24 and 48 hours
  ☐ Creatinine at 24 and 48 hours

Hematology

☐ Complete blood cell count with automated white blood cell differential on admission

› The following coagulation studies to be done ONCE only
  ☐ Partial thromboplastin time (PTT), activated
  ☐ International Normalized Ratio (INR)
  ☐ Fibrinogen
  ☐ D-dimer

Diagnostic Tests/Procedures

› aEEG Monitoring: amplitude-integrated electroencephalogram
  ☑ Initiate and continue aEEG for 5 days (120 hours)
  ☑ Physician or aEEG super-user: Print most representative aEEG page every 24 h and attach to chart
  ☑ Physician: Attach and complete an aEEG reporting checklist for each printed page
  ☐ EEG (complete requisition)

Consults

☐ Consult to neurology

☐ MRI to be booked by neurology after re-warming complete (date/time:_____________________

☐ Consult to cardiology if on inotrope/vasopressor support

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