Neonatal Therapeutic Cooling Program

Inclusions and Exclusions
- ≥ 36 weeks gestation
- ≥ 1,800 grams at birth
- ≤ 6 hours of age
Exclude: severe chromosomal or other anomalies, extremis/nonintervention

Physiologic Criteria
- Cord or arterial blood gas ≤ 1 hr?
  - No blood gas ≤ 1 hr
    - OR
    - pH 7.01-7.15
    - OR
    - Base deficit 10-15.9
  - Combined with
    - A major perinatal event:
      - Variable/late FHR decels
      - Cord prolapse/rupture
      - Uterine rupture
      - Mom trauma
      - Mom hemorrhage/abruption
      - Mom CPR
  - AND
    - Apgar < 5 at 10 min, OR PPV at > 10 min
    - + moderate or severe encephalopathy

Neurologic Exam Criteria
- Moderate or severe encephalopathy is demonstrated by the following.
  - Moderate encephalopathy has three of six findings below:
    1. Lethargic
    2. Inactive, decreased activity
    3. Flexion/extension posture
    4. Hypotonia focal or general
    5. Weak suck/incomplete Moro
    6. Pupils constricted, bradycardia, periodic breathing

  - Severe encephalopathy has three of six findings below:
    1. Stupor/coma
    2. No activity
    3. Decerebrate
    4. Flaccid tone
    5. Absent suck/Moro
    6. Pupils dilated/unreactive/skew, variable HR, apnea

OR
- Any seizure witnessed by a reliable observer.

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Cooling