

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

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

OR

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.

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

Cooling

pH ≤ 7.0
 OR
 Base deficit ≥ 16

+ moderate or severe encephalopathy

Cooling