

Is the Baby at Risk for Brain Injury?

CONSIDERATIONS FOR THERAPEUTIC HYPOTHERMIA

Hypoxic Ischemic Encephalopathy (HIE): Altered neurological function caused by significant hypoxia and or ischemia around the time of birth.

Consider Therapeutic Hypothermia if:

One or more of the following

- Blood gas on either cord blood or ABG/VBG in the first hour of life:
 - pH < 7 or base deficit > 16
 - pH 7.01-7.15 or base deficit -10 to -15.9 with an acute perinatal event
- Acute perinatal event
- APGAR < 5 at 10 minutes
- PPV given at delivery for longer than 10 minutes
- Abnormal neurological exam or seizure activity

Criteria for Cooling

Neonate should meet this criteria:

- Gestational age greater than or equal to 36 weeks
- Birth weight greater than 1800 grams
- Less than 6 hours since the insult occurred

Consult CHOI NICU if concerns are present

Don't delay consultation. Cooling must be initiated within 6 hours.

Candidacy for Cooling



Neurological Exam



Passive Cooling

Consult CHOI NICU before initiating passive cooling.

1. Place newborn on cardiorespiratory monitoring
2. Turn off radiant warmer
3. Monitor temperature every 15 minutes with a target temperature of 33.5 C (92.3 F)
4. If body temperature falls below 33 C, turn radiant warmer on with the temperature set 0.5 C above the current body temperature

Consult OSF Carehub for Assistance and Urgent Transfer

1-800-252-5433