Protocol for Whole-Body Hypothermia and Re-Warming
Last Updated 12/29/2008

I. Selection Process

Inclusion Criteria:

- Infants will be evaluated using two steps
  A. Biochemical criteria (Step 1A), Clinical (Step 1B),
  B. Neurological (Step 2)
- Infants must meet BOTH Steps (1 and 2) and not meet any exclusion criteria to be eligible for therapeutic hypothermia

A. Clinical and Biochemical criteria
   1. History of an acute perinatal event
   2. Apgar score ≤5 at 10 minutes of life
   3. Cord pH or any postnatal blood gas pH of ≤7.0 at ≤1 hour
   4. Base deficit on cord gas or any postnatal blood gas of ≥16 mEq/L at ≤1 hour
   5. Continued need for ventilation initiated at birth and continued for at least 10 minutes

STEP 1A: IF BLOOD GAS IS AVAILABLE

1. Cord pH or first postnatal blood gas within 1 hour with pH ≤7.0
   OR
2. Base deficit on cord gas or first postnatal blood gas within 1 hour at ≥16 mEq/L

- If infant meets ONE of the above criteria, proceed to Step 2 (Neurological examination) otherwise continue on to Step 1B

STEP 1B: IF BLOOD GAS IS NOT AVAILABLE
(Or pH 7.01-7.15 or Base Deficit 10-1 mEq/L)

1. Acute perinatal event (i.e. abruptio placentae, cord prolapse, severe fetal heart rate abnormalities such as variable or late decelerations)

   AND

   A. Apgar score ≤5 at 10 minutes of life
   OR
   B. Continued need for ventilation initiated at birth and continued for at least 10 minutes

- If the infant meets criteria 1 above AND either criteria A or B, proceed to Step 2: Neurological Examination