1. The labor and delivery nurse or physician will call the fellow phone for an umbilical cord blood gas with a pH less than 7.15 (either arterial or venous).

## If a neonates who has a:

- 1. Gestational Age greater than or equal to 35 weeks gestation
- 2. Birth weight greater than or equal to 1.8 kg
- 3. less than or equal to 6 hours since insult occurred

And has biochemical evidence of a possible hypoxic-ischemic insult as evidenced by:

- a) pH <u>less than or equal to 7.0</u> with base deficit of greater than or equal to 16 on arterial blood gas determination (base excess more negative than -16)
- b) pH7.01--7.15, base deficit 10-15.9 or no blood gas available and acute perinatal event (cord prolapse, heart rate decelerations, uterine rupture) and either:

APGAR <u>less than or equal to</u> 5 at 10 minutes or assisted ventilation at birth required for greater than or equal to 10 min

c) or a difficult birth or resuscitation

However, the baby does not have seizures, meet 3 of the 6 of the neurologic exam criteria for entry into the therapeutic hypothermia. The bedside clinician should consider:

- Serial neurologic exams for the first 6 hours of life. Consider admission to the NICU for close monitoring. If the neonate is admitted to the nursery during the day, the newborn staff should perform a neurologic exam. If brought to the newborn nursery after hours, the NICU fellow on-call will perform the exam.
- 2. Monitor temperature closely and prevent from becoming warmer than 37°C.
- 3. If the bedside clinician is very concerned about possible injury, ie. There was a sentinel event such as an abruption, the pH was less than 7.0 on a cord gas, the clinician may consider:
  - a. LFTs (abnormal with an AST or ALT above 100)[1]
  - b. Cardiac enzymes (Tropinin T (greater than 0.1) or I and CK total and CK-MB (greater than 25 IU/I)[1]
  - c. Lactic acid (greater than 7.5)[1]
  - d. Coagulation studies
  - e. NICHD hypothermia score (hopefn3.org)

Labs should be drawn at 1 hour of age [1].	
•	If the labs are abnormal, neonate should be transferred to the NICU.
1.	Shah, S., M. Tracy, and J. Smyth, <i>Postnatal lactate as an early predictor of short-term outcome after intrapartum asphyxia</i> . J Perinatol, 2004. <b>24</b> (1): p. 16-20.