SARNAT SCORING TOOL

Normal/Mild	Moderate HIE	Severe HIE
1. Level of Consciousness Code 1: arouses to wakefulness, responds to external stim, or appears hyperalert or inconsolable/irritable	Code 2: Lethargic: delayed but complete response to external stimuli (start with mild stimuli first then proceed to more noxious stimuli)	Code 3: stupor/coma: infant is not arousable and is non-responsive to external stimuli; may have a delayed but incomplete response to stimuli
2. Spontaneous Activity Code 1: infant is active	2 = Decreased activity Code 2: activity is decreased	Code 3: no activity
3. Posture Code 1: if infant is moving around and does not maintain one posture, should have flexion of lower extremity at hip and/or knees	2 = Distal flexion, complete extension Code 2 if strong <u>distal</u> flexion, complete extension or "frog-legged" position (complete abduction)	Code 3 if decerebrate with or without stimulation
4. Tone Code 1 if there is normal resistance	2a = Hypotonia (focal or general) 2b = Hypertonia Code 2: 2a if hypotonic or floppy either focal or generalized 2b if increased tone noted	Code 3: 3a if flaccid (like a rag doll) 3b if rigid (stiffness or inflexibility)
5. Primitive Reflexes * Suck Code 1 if the infant vigorously sucks examiners finger or the ET tube *Moro Code 1 if, with stimulus, there is extension of limbs, opening of hands extension with abduction of UE	Code 2 if suck is weak or if infant has a bite Code 2 if incomplete	Code 3 = Suck is Absent Code 3 = Absent Code 3 if absent
6. Autonomic System *Heart rate Code 1 if > 100 per min or consistent tachycardia *Respiration Code 1 if breathing spontaneously or if periodic breathing without desaturation *Pupils Code 1 if normal in size and reactive to light	Code 2 if bradycardia (< 100/min) with only occasional increases to >120/min Code 2 if periodic breathing associated with desaturations (SpO ₂ < 80%) ± supplemental O ₂ Code 2 if constricted and reacting to light Code 3 if skew deviation of eyes, pupils are	Code 3 if heart rate is not constant and varies widely between <100 and > 120 Code 3 if apnea or requiring ventilator support: • 3a if spontaneous breaths above the ventilator • 3b if no spontaneous breaths above the vent Code 3 if skew deviation of eyes, pupils are dilated or non-reactive to light • If pupils asymmetric, assign 3

Refer to Power Point Slides for visual clarification: Screening Neurologic Exam for Therapeutic Hypotherma @ http://hopefn3.org

Adapted from: A Phase II Multi-site Study of Autologous Cord Blood Cells for Hypoxic Ischemic Encephalopathy (HIE)