CANDIDACY CHECKLIST FOR NEONATAL THERAPEUTIC HYPOTHERMIA (COOLING)

PATIENT'S NAME:	HOSP. NO:			
TIME of BIRTH: hrs. C	URRENT AGE in hours /minutes:	hrsmins.		
If current age is greater than 6 hours, call tertiary cooling centre before proceeding.				
Directions for the use of this checklist: Start at the top and work through each numbered component. When directed to proceed to the exam (neurological criteria), refer to the exam found on page 2. If there is missing data, (such as Apgar scores) and you are in doubt as to whether or not the patient qualifies for cooling, consult with the tertiary cooling centre promptly to discuss the patient.				
Clinical Information	Criteria (place a tick in the box that corresponds to the patient information)	Instructions		
	1 ≥ 36 weeks gestation	Go to — 》 2 Weight		
Gestation	= 35 weeks gestation	May not be eligible Contact cooling centre		
	< 35wks gestation	Not Eligible		
Weight	2 ≥ 1800 grams	Go to ——— 3 Blood Gas		
	< 1800 grams	Not Eligible		
Blood Gas pH = Base Deficit =	pH < 7.0 or Base Deficit ≥ 16	Criteria met thus far. Go to EXAM*		
Source: Cord Or 1st infant blood gas at <1hour of life Arterial Capillary Venous Time Obtained::	No gas obtained or pH ≥ 7.0 or Base Deficit < 16	May not be eligible; Go to ——————————————————————————————————		
Acute Perinatal Event (tick all that apply)	Variable / late foetal HR decelerations Prolapsed / ruptured/tight nuchal cord Uterine Rupture Maternal haemorrhage / placental abruption Maternal trauma (eg. vehicle accident) Mother received CPR	Any ticked, Go to — >> 5 Apgar score		
	No perinatal event or Indeterminate what the event was because of home birth or missing information	May not be eligible; Go to ——————————————————————————————————		
Apgar Score at	5 Apgar ≤ 5 at 10 minutes	Criteria met thus far. Go to EXAM*		
1 minute 5 minute 10 minute	Apgar > 5 at 10 minutes	May not be eligible; Go to Resuscitation after delivery		
Resuscitation after Delivery (tick all that apply) PPV/intubated at 10 minutes	6 Continued need for PPV or Intubated at 10 minutes?	Criteria met thus far. Go to EXAM*		
CPR Adrenaline administered	No PPV/not Intubated at 10 mins?	Does not meet the current evidence based criteria for therapeutic hypothermia		

Circle findings for each domain PATIENT IS ELIGIBLE FOR COOLING WHEN 3 OR MORE DOMAINS HAVE FINDINGS IN COLUMNS 2 OR 3

Neurological criteria to be assessed between 1 and 6 hours after birth (Assessment of encephalopathy may be less accurate if performed prior to 1 hour of age)

Domain	1	2	3
Seizures	No Seizures	Focal or Multifocal Seizures	Severe, Generalised Seizures
		(Multifocal: clinical activity involving > one site which is asynchronous and usually migratory) Note: If the patient is < 6 hours old and meets the gestation, weight and blood gas criteria and has a witnessed seizure, patient is eligible for cooling regardless of the rest of this exam	(Often resistant to conventional treatment) Note: If the patient is < 6 hours old and meets the gestation, weight and blood gas criteria and has a witnessed seizure, patient is eligible for cooling regardless of the rest of this exam
Level of Consciousness	Normal or Hyperalert	Lethargic Decreased activity in an infant who is aroused and responsive Definition of Lethargic: • Sleeps excessively with occasional spontaneous eye opening • Responses are delayed but complete • Threshold for eliciting such responses increased • Can be irritable when disturbed	Stuporous / Comatose Demonstrates no spontaneous eye opening and is difficult to arouse with external stimuli Definition of Stuporous: Aroused only with vigorous and continuous stimulation Definition of Comatose: No eye opening or response to vigorous stimulation In both stupor and coma, the infant may respond to stimulation by grimacing/ stereotyped withdrawal / decerebrate posture
Spontaneous activity when awake or aroused	Active Vigorous, doesn't stay in one position	Less than active, not vigorous	No activity
Posture	Moving around and does not maintain only one position	Distal flexion, complete extension or "frog-legged" position Term infants with HIE often exhibit • Weakness in hip-shoulder distribution (eg proximal part of extremities) • Distal joints, fingers and toes often exhibit strong flexion • Thumbs strongly flexed and adducted. • Wrists often flexed • Above postures are enhanced by any stimulation	Decerebrate with or without stimulation (all extremities extended)
Tone	Normal Resists passive motion Hypertonic, jittery Lowered threshold to all types of minimal stimuli eg light touch, sudden noises Infant may even respond to his/her own sudden movements	Hypotonic or floppy, • Axial hypotonia and/or limb hypotonia	Completely flaccid
Primitive reflexes	Suck: Vigorously sucks finger or ETT Moro: Normal: Limb extension followed by flexion with stimulus	Suck: Weak Moro: Incomplete	Suck: Completely absent Moro: Completely absent
Autonomic system	General Activation of Sympathetic nervous system Pupils: Normal size (-1/3 of iris diameter) Reactive to Light Heart Rate: Normal, > 100bpm Respirations: Regular spontaneous breathing	General Activation of Parasympathetic nervous system Pupils: Constricted (< 3mm estimated) but reactive to light Heart Rate: Bradycardia (< 100bpm, variable up to 120) Respirations: Periodic, irregular breathing effort Often have more copious secretions and require frequent suctioning	Pupils: • Skew gaze, fixed, dilated, • not reactive to light Heart Rate: • Variable, inconsistent heart rate, irregular, may be bradycardic Respirations: • Completely apnoeic, requiring PPV & / or ET intubation and ventilation

Signature: Date of Exam: ____/_ _ Time of Exam: _ Professional No.:_