

Therapeutic hypothermia: daily assessment 1

Up to 24 hours of age

Date and time:

Age (hours):

Gestation:

Weight:

OFC:

Name:

DOB:

Hosp number:

NHS number:

Neurological Assessment – Sarnat Score

Domain	Stage 1 (mild)	Stage 2 (moderate)	Stage 3 (severe)
Seizures	None	Focal or multifocal seizures	Uncommon (excl. decerebration) Or frequent seizures
Level of consciousness	Normal Hyperalert	Lethargic Decreased activity in an infant who is aroused and responsive Can be irritable to external stimuli	Stuperose/ comatose Not able to rouse and unresponsive to external stimuli
Spontaneous activity when awake or aroused	Active Vigorous, does not stay in one position	Less than active Not vigorous	No activity whatsoever
Posture	Moving around and does not maintain only one position	Distal flexion, complete extension or frog-legged position	Decerebrate with or without stimulation (all extremities extended)
Tone	Normal – resists passive motion Hypertonic, jittery	Hypotonic or floppy, either focal or general	Completely flaccid like a rag doll
Primitive reflexes	Suck: vigorously sucks finger or ET tube Moro – Normal extension of limbs followed by flexion	Suck: weak Moro: incomplete	Suck: completely absent Moro: completely absent
Autonomic system	Pupil – normal size, reactive to light Heart rate normal >100 Respirations - normal	Pupils – constricted <3mm but react to light Heart rate: bradycardia (<100 variable up to 120) Respirations: periodic irregular breathing effort	Pupils: fixed dilated, skew gaze, not reactive to light Heart rate: variable inconsistent rate, irregular, may be bradycardic Respirations: completely apnoeic requiring positive pressure ventilation
Agreed Sarnat Score		Stage 2 or 3 encephalopathy is defined by seizures or the presence of signs in at least 3 of the remaining 6 categories	

aEEG/EEG	Normal Baseline >5 μ v, Upper >10 μ v Sleep/wake cycle	Discontinuous normal voltage Baseline <5 μ v Upper >10 μ v	Burst suppression Background 0-2 μ v with bursts >25 μ v	Low voltage Baseline <5 μ v Upper <10 μ v	Flat trace All activity <5 μ v
Seizures?	Yes / No				
Comments					

Anticonvulsants and sedatives given

Name	Date and time given

Signature:

Name:

Grade:

Therapeutic hypothermia: daily assessment 2

24 to 48 hours of age

Date and time:

Age (hours):

Name:
DOB:
Hosp number:
NHS number:

Neurological Assessment – Sarnat Score

Domain	Stage 1 (mild)	Stage 2 (moderate)	Stage 3 (severe)
Seizures	None	Focal or multifocal seizures	Uncommon (excl. decerebration) Or frequent seizures
Level of consciousness	Normal Hyperalert	Lethargic Decreased activity in an infant who is aroused and responsive Can be irritable to external stimuli	Stuporose/ comatose Not able to rouse and unresponsive to external stimuli
Spontaneous activity when awake or aroused	Active Vigorous, does not stay in one position	Less than active Not vigorous	No activity whatsoever
Posture	Moving around and does not maintain only one position	Distal flexion, complete extension or frog-legged position	Decerebrate with or without stimulation (all extremities extended)
Tone	Normal – resists passive motion Hypertonic, jittery	Hypotonic or floppy, either focal or general	Completely flaccid like a rag doll
Primitive reflexes	Suck: vigorously sucks finger or ET tube Moro – Normal extension of limbs followed by flexion	Suck: weak Moro: incomplete	Suck: completely absent Moro: completely absent
Autonomic system	Pupil – normal size, reactive to light Heart rate normal >100 Respirations - normal	Pupils – constricted <3mm but react to light Heart rate: bradycardia (<100 variable up to 120) Respirations: periodic irregular breathing effort	Pupils: fixed dilated, skew gaze, not reactive to light Heart rate: variable inconsistent rate, irregular, may be bradycardic Respirations: completely apnoeic requiring positive pressure ventilation
Agreed Sarnat Score		Stage 2 or 3 encephalopathy is defined by seizures or the presence of signs in at least 3 of the remaining 6 categories	

aEEG/EEG	Normal Baseline >5µv, Upper >10µv Sleep/wake cycle	Discontinuous normal voltage Baseline <5µv Upper >10µv	Burst suppression Background 0-2µv with bursts >25µv	Low voltage Baseline <5µv Upper <10µv	Flat trace All activity <5µv
Seizures?	Yes / No				
Comments					

Anticonvulsants and sedatives given

Name	Date and time given

Signature:

Name:

Grade:

Therapeutic hypothermia: daily assessment 3

48 to 72 hours of age

Date and time:

Age (hours):

Name:

DOB:

Hosp number:

NHS number:

Neurological Assessment – Sarnat Score

Domain	Stage 1 (mild)	Stage 2 (moderate)	Stage 3 (severe)
Seizures	None	Focal or multifocal seizures	Uncommon (excl. decerebration) Or frequent seizures
Level of consciousness	Normal Hyperalert	Lethargic Decreased activity in an infant who is aroused and responsive Can be irritable to external stimuli	Stuperose/ comatose Not able to rouse and unresponsive to external stimuli
Spontaneous activity when awake or aroused	Active Vigorous, does not stay in one position	Less than active Not vigorous	No activity whatsoever
Posture	Moving around and does not maintain only one position	Distal flexion, complete extension or frog-legged position	Decerebrate with or without stimulation (all extremities extended)
Tone	Normal – resists passive motion Hypertonic, jittery	Hypotonic or floppy, either focal or general	Completely flaccid like a rag doll
Primitive reflexes	Suck: vigorously sucks finger or ET tube Moro – Normal extension of limbs followed by flexion	Suck: weak Moro: incomplete	Suck: completely absent Moro: completely absent
Autonomic system	Pupil – normal size, reactive to light Heart rate normal >100 Respirations - normal	Pupils – constricted <3mm but react to light Heart rate: bradycardia (<100 variable up to 120) Respirations: periodic irregular breathing effort	Pupils: fixed dilated, skew gaze, not reactive to light Heart rate: variable inconsistent rate, irregular, may be bradycardic Respirations: completely apnoeic requiring positive pressure ventilation
Agreed Sarnat Score		Stage 2 or 3 encephalopathy is defined by seizures or the presence of signs in at least 3 of the remaining 6 categories	

aEEG/EEG	Normal Baseline >5µv, Upper >10µv Sleep/wake cycle	Discontinuous normal voltage Baseline <5µv Upper >10µv	Burst suppression Background 0-2µv with bursts >25µv	Low voltage Baseline <5µv Upper <10µv	Flat trace All activity <5µv
Seizures?	Yes / No				
Comments					

Anticonvulsants and sedatives given

Name	Date and time given

Signature:

Name:

Grade: