

Neuroprotection Care Pathway (NCP1) Diagnosis and Initial Management of HIE

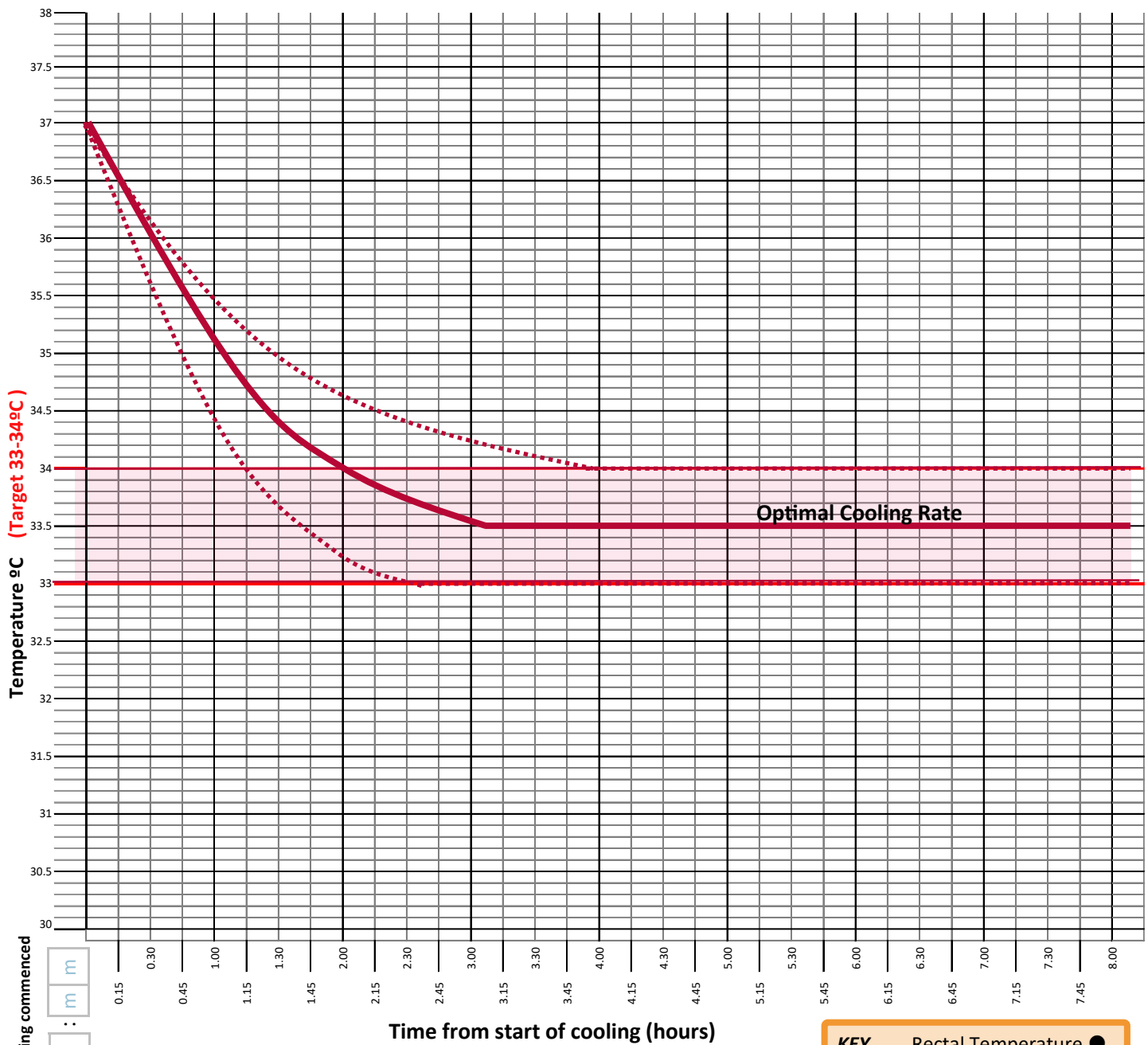
Surname:
First names:
Date of Birth:
NHS.:
(use hospital identification label)

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Do you need to COOL?

RECTAL TEMPERATURE MONITORING CHART IF PASSIVE COOLING USED



KEY Rectal Temperature ●

ACTIONS TAKEN TO ACHIEVE TEMPERATURE CONTROL

TIME

Sign/date

CAUTION from 34°C to avoid hypothermia (hat on, incubator to minimum)

Commence **COOLING** Name/Sign
Date & Time

See neonatal neuroprotection website www.bebop.nhs.uk for guidelines and paperwork

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ADMISSION DETAILS

Surname:
First names:
Date of Birth:
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Time of Birth :
Gestation
Sex ☐ M ☐ F
Birth weight gm
Head circumference cm
Admission temp C

Resuscitated >10 minutes Yes ☐ No ☐
First gasp (minutes)
Apgar Score (please write X if unknown)
1 min 5 min
10 min 20 min
Blood gas results (worst set of results within 60 mins incl. cord blood)
pH pO₂ kPa
pCO₂ kPa Base deficit

Pregnancy complications: None ☐ or please give details

Mode of delivery: Pre-labour CS ☐ In labour CS ☐ SVD cephalic ☐ SVD breech ☐ Instrumental ☐

Delivery complications: None ☐ or please give details

Congenital abnormalities apparent at birth: None ☐ or please give details

NEUROLOGICAL STATUS

Domain	Stage 1 (mild)	Stage 2 (moderate)	Stage 3 (severe)
Conscious-ness	Normal Hyperalert	Lethargic Decreased activity in an infant who is aroused and responsive Irritable to external stimuli	Stuperose/ comatose Not able to rouse Unresponsive to external stimuli
Spontaneous activity	Active Vigorous does not stay in one position	Less than active Not vigorous	No activity whatsoever
Posture	Moving around 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 Respirations - normal	Pupils – constricted <3mm but react to light Heart rate: bradycardia (<100) Respirations: periodic irregular breathing effort	Pupils: fixed dilated, not reactive to light Heart rate: variable Respirations: apnoeic requiring IPPV
Seizure	none	Common focal or multifocal seizures	Uncommon (excluding decerebration) Or frequent seizures

Time Cranial USS done :

Resistance Index

US showed

Time CFM started :

CFM showed

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CLINICAL MANAGEMENT

CLINICAL MANAGEMENT CHECKLIST	✓	Sign/date/time
Actively manage blood pressure to maintain within normal range	<input type="checkbox"/>	ONGOING
Avoid hyper/hypocapnoea	<input type="checkbox"/>	ONGOING
Restricted fluids (unless clinically indicated)	<input type="checkbox"/>	
Maintain blood sugar within normal range	<input type="checkbox"/>	ONGOING

TRANSFER REFERRAL (IF REQUIRED)

TRANSFER CHECKLIST (for infants born outside of Regional NICU)	✓	Sign/date/time
Refer to PaNDR for transfer to Regional NICU ASAP	<input type="checkbox"/>	
Full handover to PaNDR including this form (original in local notes)	<input type="checkbox"/>	

PARENTAL INVOLVEMENT

PARENTAL INVOLVEMENT CHECKLIST	✓	Sign/date/time
Parents spoken to by the most senior member of the medical staff on site (information in HIE Guidelines)	<input type="checkbox"/>	
Parents given the opportunity to see the baby	<input type="checkbox"/>	
Parents given a Parental Information leaflet	<input type="checkbox"/>	
Parents receive a picture of their baby	<input type="checkbox"/>	

TEMPERATURE CONTROL

TEMPERATURE CONTROL CHECKLIST	✓	Sign/date/time
Continuous rectal temperature monitoring started	<input type="checkbox"/>	
Rectal temperature documented every 15 minutes (chart overleaf)	<input type="checkbox"/>	ONGOING

	Time	Team (Referring Unit / ANTS /Receiving Unit)
Passive Cooling: (time started)	<input type="text" value="h"/> <input type="text" value="h"/> : <input type="text" value="m"/> <input type="text" value="m"/>	
Active Cooling: (time started)	<input type="text" value="h"/> <input type="text" value="h"/> : <input type="text" value="m"/> <input type="text" value="m"/>	
Time TARGET TEMPERATURE consistently maintained (33.0°C-34.0°C)	<input type="text" value="h"/> <input type="text" value="h"/> : <input type="text" value="m"/> <input type="text" value="m"/>	

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