

## CLINICAL AUDIT: ENCEPHALOPATHY (NEONATAL)

	REPUBLIC OF SOUTH AFRICA							
Date:								
Definition:								
	Neonatal encephalopathy (NNE) is a disorder of brain dysfunction presenting with a wide spectrum of clinical signs. Features							
	include:							
	Altered level of consciousness (hyperalert /irritable/lethargic/difficult to arouse)							
•	Abnormal tone and primitive reflexes							
•	•	osturing/staring/blinking/yawning)						
•	·	and maintaining respiration (respirato	ry distre	ss/abno	rmal brea	athing	pattern /weak or absent cry/	
	apnoea).							
	=	ity and mortality and consequent litig	ation.					
	Method:							
	ll encephalopathy cases r			tool for	Fnaanha	lonath	y and an the LUE table on the	
		he monthly clinical and record audit s e consolidated death report.	ummary	1001 101	Епсерпа	юраціі	y and on the HIE table on the	
	nsure an action plan is dra	•						
	pplicable (NA):	Does not apply to the unit or individ	ual asses	sment.				
	Compliant (NC):	Not documented or not done						
	liant (C):	Fully compliant						
	, ,	, .						
RESUS	SCITATION:		NA	NC	С		COMMENT	
1.	Baby not breathing in g							
2.	If not breathing ventilat							
۷.	minute	minute						
3.	Initially resuscitated wit							
4.	Baby only suctioned for							
5.	Duration of resuscitatio							
6.	If Apgar score <7 at 5 m	ins -Cord/arterial blood gas taken						
0.	within 1 hr of birth							
		RESUSCITATION Totals (6):						
ASSESSMENT AND PLANNING-ADMISSION				NC	С		COMMENT	
Admission assessment								
7.	Assessed by an MO within 1 hr of admission							
8.		hy management checklist						
commenced								
Admission Investigations								
9.		lood gas taken within 1 hr of birth.						
10.	Urine dipstix assessed							
11.	Blood taken for assessm	en for assessment of infection-FBC, CRP & Culture						
12.	•	onormal WCC/ raised CRP-						
12.	✓ Lumbar punctu	•						
13.	U&E taken after 24-48h							
14.		euro-imaging 72 hours after birth						
	✓ Cranial ultraso							
	ASSESSMENT AN	D PLANNING-ADMISSION totals (8):						
	SSMENT AND PLANNING	NA	NC	С		COMMENT		
	Nursing Assessment							
15.	Normothermia maintained							
16. Blood glucose monitored 3hrly for 1 <sup>st</sup> 24hrs and then as								
	indicated on chart and I							
17.		Oxygen saturations recorded at least 3hrly						
18.	BP monitored 3hrly							
19.	Abnormal assessments in 1hr	identified, acted upon & reassessed						
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ASSES	SSMENT AND PLANNING-ONGOING cont.	NA	NC	С	COMMENT
Medical Assessment					
20.	Reviewed <u>twice daily</u> by MO on day of admission and while unstable				
21.	Sarnat and Thompson score completed daily				
22.	Investigations reviewed and actioned				
23.	Once stable assessed daily. Problem list, examination, assessment and management plan updated				
24.	Definitive diagnosis obtained				
25.	Referral center consulted if diagnosis uncertain				
	ASSESSMENT AND PLANNING-ONGOING totals (11):				
IMPL	EMENTATION/ MANAGEMENT	NA	NC	С	COMMENT
Gene	ral				
26.	Parents are fully informed/counselled of diagnosis and findings and on-going condition of baby				
27.	Multidisciplinary team input recorded				
Medi	cations				
28.	Pen G/Ampicillin and Gentamycin commenced on admission				
29.	Antibiotics discontinued after 72 hrs if baby is well, CRP & FBC normal and no growth on culture				
30.	Changed to Cefotaxime if meningitis confirmed on CSF or suspected but LP unsuitable.				
	IMPLEMENTATION/ MANAGEMENT Totals (5):				
Nutri		NA	NC	С	COMMENT
31.	NPO until blood gas & BP stable & stool /bowel sounds present				
32.	Normal daily fluid volumes given (neonatalyte)				
33.	If NPO > 3 days-referral centre consulted on day 4/TPN commenced				
34.	If mean arterial blood pressure (MAP) low (< 40 mmHg)- SINGLE bolus of 10ml/kg 0.9% Saline or Modified Ringers Lactate given				
	NUTRITION Totals (4):				
			l		
Seizu	re management				
35.	Date and time of first seizure documented				
36.	Seizure activity documented-frequency and duration				
37.	Seizures managed according to guideline				
38.	If seizures persisted- further management given in consultation with paediatrician/neonatologist				
39.	When seizures stopped- loaded and then maintained with Phenobarbitone PO				
	SEIZURE MANAGEMENT Totals (5):				
TRAN	SFER/DISCHARGE/DEATH				
40.	Palliative care plan in place including pain management and resuscitation plans (discussed with parents)				
41. Follow up bookings documented and discussed with mother					
TRANSFER/DISCHARGE/DEATH Totals (2):					

Cubtatala buayaht famyard	NA	NC	С	Total Possible	Compliant	X100=%	
Subtotals brought forward				Score	Total Score		
Resuscitation				6-NA		%	
Assess. & planning -Admission				8-NA		%	
Assess. & planning -Ongoing				11-NA		%	
Implementation/Management				5-NA		%	
Nutrition				4-NA		%	
Seizure Management				5-NA		%	
Transfer/Discharge/Death				2-NA	_	%	
Final Score:				41-NA		%	

ASSESSED BY:		Date:			
Paediatrician Sign:		Print:			
MP No.					
Neonatal unit nurse Sign:		Print:			
SANC No.					
Sign:		Print:			