

Neonatal fluid & Feed Management C/L

- This checklist is to be used from Day 1, for all babies admitted in the neonatal unit, to guide the daily calculation of IV fluid and feed requirements.
- The purpose of this management checklist is to ensure an appropriate and acceptable standard of care.
- It is aimed at nurses and junior/inexperienced medical practitioners.
- Individual critical clinical judgment should always be used.

Name:			IP. NO.				
ADMISSIO	ON (DAY 1):						✓
	Select total required daily fluids.						
Preterm < 1		100 r	nl/kg/day				
Preterm > 1			ml/kg/day				
Term			nl/kg/day				
	therapy and receiving IV fluid		additional 20ml/kg	ı/dav			
	Calculate actual daily fluids to be admi				iaht.		
	p1 by birth weight.		Total dail				ml/day
	Calculate feeds.						-
HIV exposur	re: Do not give breastmilk if mother has c	onfirme	d treatment failur	e-See	HIV guideli	nes	
	ck or distressed apply colostrum 3-6hrly		>1000g start bre				
	sues but do not commence NG feeds.					5 ,	
>1500g and	well-start full feeds.		<1000g start bro	east m	ilk feeds at	10ml/kg/day	
1. Multiply f	eed volume by birth weight		Total dail				mls/day
	tal feed volume by 8		3hrly	feed v	olume:		nls/3hrly
	alculate IV fluids		•				•
1. Subtract	Total feeds (Step 3) from total daily volun	ne (Step	2) Maintenance	fluid	volume:		mls/day
2. Divide m	aintenance fluid by 24	, ,	,	IV FI	uid rate:		ml/hr
Step 5: Doo	cument						
Documer	nt in medical plan in Daily assessment cl	nart					
	nt in fluid balance in Daily assessment cl						
Sign:			Print:				
Date:			Time:				
DAY 2 ✓							
Step 1: S	Select total required daily fluids. (At lea	st 12 hr	s must have pass	ed sinc	e birth)		
Preterm < 1	000g	120 r	nl/kg/day				
Preterm > 1	000g	100 r	nl/kg/day				
Term			nl/kg/day				
	therapy and receiving IV fluid		additional 20ml/kg				
Step 2: 0	Calculate actual daily fluids to be admi	nistered					
	p1 by birth weight.		Total dail	y fluid	volume:		ml/day
	Calculate feeds.						
	decreased/no bowel sounds apply		>1000g start/inc	rease I	EBM feeds	by 20ml/kg/day	
	mouth tissues- don't commence feeds						
>1500g and well continue full feeds <1000g start/increase EBM by 10ml/kg/day							
						l/kg/day	
						mls/day	
3. Divide total feed volume by 8 3hrly feed volume: mls/3hrly							
Step 4: Calculate IV fluids							
						mls/day	
2. Divide maintenance fluid by 24 IV Fluid rate: ml/hr							
Step 5: Document							
Document on medical plan on Daily assessment chart							
	nt on fluid balance on Daily assessment c	nart		1			
Sign:			Print:				
Date:			Time:	I	05405 -51011		0.11035
			FIGH	TING DI	SEASE. FIGHT	TING POVERTY, GIVIN	G HOPE

Name:				IP. NO.			
DAY 3							✓
	elect total requi	red daily fluids. (At lea	st 12 hr	s must have pass	ed since birth)		
Preterm < 10		rea daily maids. (7 tt lee		nl/kg/day	ca since birtinj		
Preterm > 10				nl/kg/day			
Term	,00g			nl/kg/day			
	nerapy and rece	iving IV fluid		additional 20ml/kg	ı/dav		
		daily fluids to be admi					
	1 by birth weight.		111010101		y fluid volume:		ml/day
	alculate feeds.				y mana venamen		,
	ecreased/no bow	el sounds apply		>1000g start/inc	rease FBM feeds	s by 20ml/kg/day	
		on't commence feeds.		Freedy starting	.0000 22.11.1000	by zomingady	
	well continue full			<1000g start/inc	rease EBM by 10)ml/kg/dav	
	previous day's fee				y feed volume:		l/kg/day
2. Multiply by					y feed volume:		mls/day
	al feed volume by	<i>i</i> 8			feed volume:	n	nls/3hrly
	Iculate IV fluids					-	
		3) from total daily volur	ne (Ster	2) Maintenanc	e fluid volume:		mls/day
	intenance fluid b		(IV Fluid rate:		ml/hr
Step 5: Docu							-
		on Daily assessment of	hart				
		on Daily assessment of					
Sign:				Print:			
Date:				Time:			
DAY 4							✓
	elect total requi	red daily fluids. (At lea	st 12 hr	s must have pass	ed since birth)		
Preterm < 10		Tou daily manage (7 to 100		nl/kg/day			
Preterm > 10				nl/kg/day			
Term				nl/kg/day			
	nerapy and rece	ivina IV fluid		additional 20ml/kg	ı/dav		
		daily fluids to be admi					
	1 by birth weight.				y fluid volume:		ml/day
	alculate feeds.						
	oe commenced o	r TPN aiven		>1000g start/inc	rease EBM feeds	s by 20ml/kg/day	
>1500g and well continue full feeds <1000g start/increase EBM by 10ml/kg/day							
					l/kg/day		
					mls/day		
					nls/3hrly		
Step 4: Calculate IV fluids						<u> </u>	
					mls/day		
	2. Divide maintenance fluid by 24					ml/hr	
Step 5: Document							
Document on medical plan on Daily assessment chart							
Document on fluid balance on Daily assessment chart							
Sign:		,		Print:			
Date:				Time:			

Name:				IP. NO.			
DAY 5							✓
Step 1: Sel	ect total requi	red daily fluids. (At leas	st 12 hr	s must have pass	ed since birth)		
Preterm < 100				180ml/kg/day			
Preterm > 100	00g			nl/kg/day			
Term				nl/kg/day			
	erapy and rece			additional 20ml/kg			
		laily fluids to be admir	nistered			1	
	by birth weight.			Total dail	y fluid volume:		ml/day
	culate feeds.						ı
	daily as tolerat				rease EBM feeds		
	ell continue full				rease EBM by 10		
	evious day's fee				y feed volume:	m	l/kg/day
		(birth/daily weight)			y feed volume:		mls/day
	feed volume by			3hrly	feed volume:	n	nls/3hrly
	culate IV fluids						
		from total daily volum	ne (Step	2) Maintenanc			mls/day
	tenance fluid b	y 24			IV Fluid rate:		ml/hr
Step 5: Docum							
		on Daily assessment cl					
	on fluid balance	on Daily assessment cl	hart				
Sign:				Print:			
Date:				Time:			
DAY 6							✓
		red daily fluids. (At leas			ed since birth)		
Preterm < 100				180ml/kg/day			
Preterm > 100	00g			180ml/kg/day			
Term				nl/kg/day			
	erapy and rece			additional 20ml/kg			
•		laily fluids to be admir	nistered			1	
	by birth weight.			Total dail	y fluid volume:		ml/day
	culate feeds.						1
	daily as tolerat				rease EBM feeds		
>1500g and well continue full feeds 							

Name:			IP. NO.				
DAY 7						✓	
Step 1: Select total rec	juired daily fluids. (At lea	ast 12 hr	s must have pass	ed since birth)			
Preterm < 1000g		160 -					
Preterm > 1000g		160 -	160 -180ml/kg/day				
Term			nl/kg/day				
If on phototherapy and re			additional 20ml/kg				
Step 2: Calculate actua	al daily fluids to be admi	nistere					
Multiply Step1 by birth weight. Total daily fluid vo				y fluid volume:		ml/day	
Step 3: Calculate feed:							
			>1000g start/increase EBM feeds by 20ml/kg/day				
>1500g and well continue full feeds <1000g start/increase EBM by 10ml/kg/day							
Increase previous day's feed volume			•	y feed volume:	m	ıl/kg/day	
Multiply by biggest weight (birth/daily weight)			Total daily feed volume:			mls/day	
3. Divide total feed volume by 8			3hrly feed volume: r			nls/3hrly	
Step 4: Calculate IV flu					_		
					mls/day		
Divide maintenance fluid by 24				IV Fluid rate:		ml/hr	
Step 5: Document							
Document on medical plan on Daily assessment chart							
Document on fluid balance on Daily assessment chart							
Sign:			Print:				
Date:			Time:				

Ongoing						
Step 1: Select total required daily fluids.						
Preterm < 1000g	160-180 ml/kg/day					
Preterm > 1000g	160-180 ml/kg/day					
Term	150 ml/kg/day					
If on phototherapy and receiving IV fluid	Add additional 20ml/kg/day					
NB. Do not exceed 180ml/kg/day without dietician and						
Step 2: Calculate actual daily fluids to be admin	Step 2: Calculate actual daily fluids to be administered according to weight.					
Multiply Step1 by biggest weight (birth/daily weight)						
2. If baby fails to gain weight or loses weight for 3 days consult dietician.						
Step 3: Calculate feeds.						
1. Increase all babies' (including <1000g) feeds daily by 20ml/kg/day but do not exceed 180ml/kg/day						
2. Add fortification (FM 85) after consultation with MDT, if baby not gaining at least 15g/kg/day for 1 week with						
adequate fluid volumes, at least 100ml/kg feeds, increased frequency of feeds & no medical problems.						
Step 5: Calculate IV fluids						
1. Aim to have baby on full feeds by Day 8-10. No IV fluids.						
Sign:	Print:					
Date:	Time:					

Authorized By:	Milan.	Dr N. McKerrow-KZN Provincial Paediatrician			
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Abbreviations: IP= Inpatient; g= grams; ml=milliliters; kg=kilogram; hr/hrly=hour/ly; IV= Intravenous					