

KSS-PN Maintenance (Electrolyte containing)

Consultant:	Patient Identifier Label here Name: Hospital Number: DOB:
Birth weight (Kg):	
Working weight (Kg):	

Administration: Discard bag if disconnected

Aqueous bag Batch No.:	Start Date:	Start Time:	Finish Date and Time: +48hrs)	
SMOF Lipid bag Batch No.:	Start Date:	Start Time:	Finish Date and Time: +48hrs)	

TIME				
Total Fluid requirement		ml/kg/day	=	ml/day
Less total Concurrent infusions & Sidearm		ml/hour	=	ml/day
Less Enteral feeds		ml/kg/day	=	ml/day
Equals Total PN volume (Max 107ml/kg/day-preterm; 92ml/kg/day-term)		ml/kg/day	=	ml/day
Less SMOF lipid volume (max 17ml/kg/day) (max 43ml)		ml/kg/day	=	ml/day
Equals Aqueous volume (Max 90ml/kg/day-preterm; 75ml/kg/day-term)		ml/kg/day	=	ml/day
Nurse Signature 1:	Nurse Signature 2:	Pharmacist's signature		

Change in Regimen (1) :TIME				
Total Fluid requirement		ml/kg/day	=	ml/day
Less total Concurrent infusions & Sidearm		ml/hour	=	ml/day
Less Enteral feeds		ml/kg/day	=	ml/day
Equals Total PN volume (Max 107ml/kg/day-preterm; 92ml/kg/day-term)		ml/kg/day	=	ml/day
Less SMOF lipid volume (max 17ml/kg/day) (max 43ml)		ml/kg/day	=	ml/day
Equals Aqueous volume (Max 90ml/kg/day-preterm; 75ml/kg/day-term)		ml/kg/day	=	ml/day
Nurse Signature 1:	Nurse Signature 2:	Pharmacist's signature:		

Change in Regimen (2): TIME				
Total Fluid requirement		ml/kg/day	=	ml/day
Less total Concurrent infusions & Sidearm		ml/hour	=	ml/day
Less Enteral feeds		ml/kg/day	=	ml/day
Equals Total PN volume (Max 107ml/kg/day-preterm; 92ml/kg/day-term)		ml/kg/day	=	ml/day
Less SMOF lipid volume (max 17ml/kg/day) (max 43ml)		ml/kg/day	=	ml/day
Equals Aqueous volume (Max 90ml/kg/day-preterm; 75ml/kg/day-term)		ml/kg/day	=	ml/day
Nurse Signature 1:	Nurse Signature 2:	Pharmacist's signature		

Change in Regimen (3):TIME				
Total Fluid requirement		ml/kg/day	=	ml/day
Less total Concurrent infusions & Sidearm		ml/hour	=	ml/day
Less Enteral feeds		ml/kg/day	=	ml/day
Equals Total PN volume (Max 107ml/kg/day-preterm; 92ml/kg/day-term)		ml/kg/day	=	ml/day
Less SMOF lipid volume (max 17ml/kg/day) (max 43ml)		ml/kg/day	=	ml/day
Equals Aqueous volume (Max 90ml/kg/day-preterm; 75ml/kg/day-term)		ml/kg/day	=	ml/day
Nurse Signature 1:	Nurse Signature 2:	Pharmacist's signature		

Neonatal Parenteral Nutrition KSS-PN

Prescription

Prescribed total fluid ml/kg/day	60	90	120	150
Total PN volume ml/kg/day	46	66	87	107
SCAMP KSS-PN Aqueous PN formula (12% glucose concentration)				
Aqueous PN Volume ml/kg/day	40	60	75*	90**
Glucose g/kg/day	4.8	7.2	9	10.8
Glucose mg/kg/min	3.3	5	6.3	7.5
Amino acid g/kg/day	1.7	2.6	3.3	3.9
Sodium mmol/kg/day	1.6	2.4	3	3.6
Potassium mmol/kg/day	0.8	1.2	1.5	1.8
Calcium mmol/kg/day	0.6	0.9	1.1	1.35
Phosphate mmol/kg/day	0.8	1.2	1.5	1.8
Magnesium mmol/kg/day	0.08	0.12	0.15	0.18
Chloride mmol/kg/day	1.1	1.6	2	2.4
Peditrace (ml/kg/day)	0.4	0.6	0.75	0.9
Energy (non-nitrogen) kcal/kg/day	19	29	36	43
Energy (total) kcal/kg/day	26	39	49	59
SMOFLipid PN Formula (Contains Vitamins)				
Lipid PN volume mL/kg/day	6	6	12	17
SMOF lipid g/kg/day	1	1	2	3
Energy kcal/kg/day	10	10	20	30
Aqueous and Lipid PN will provide the following				
Total energy (Non-Nitrogen Energy) Kcal/kg/day	36(29)	49(39)	69(56)	88(73)
Prescriber's Signature				
Date and time:				

- Remember fluid requirement is not the same as nutritional requirement
- Some patients may not fit the columns due to lipid intolerance or raised urea levels (amino acid delivery may need to be reduced)
- *For a term baby the **maximum** aqueous PN volume required is 75mL/kg/day (3.3g/kg/day amino acids)
- **For a preterm baby the **maximum** aqueous PN volume required is 90mL/kg/day (3.9g/kg/day amino acids)

Weaning of PN

- Start reducing PN once enteral feeds are tolerated at 30ml/kg/day
- First stop side arms if possible- do not stop drug infusions and check electrolyte infusions are running as low as possible.
- Reduce the SMOF Lipid and Aqueous PN volumes as feeds increase, as indicated on Neonatal Parenteral nutrition chart
- Stop SMOF lipid infusion when on **120ml/kg/day** enteral feeds
- Aqueous PN infusion can continue until 150ml/kg/day of enteral feeds is reached. (Sometimes the aqueous PN may be stopped when 120ml/kg/day of enteral feeds is reached for babies >28 weeks-consultant decision)
- Infants >2.5kg: ensure maximum amount of Vitlipid infant (10ml) is not exceeded (maximum SMOFLipid 43ml/day)

SMOF Lipid	vitlipid Infant	solivito N	Phosphate	Total volume
3 g/kg	4ml/kg	1ml/kg	0.3 mmol/kg	17ml/kg

Electrolyte (mmol) addition to a syringe (to make up to 50ml)			
Fluid volume	1 mmol/kg/day	2 mmol/kg/day	3 mmol/kg/day
30ml/kg/day	1.7	3.3	5
15ml/kg/day	3.3	6.7	10
10ml/kg/day	5	10	15

Glucose sidearm (if additional additives change every 24 hours) Prescribe on IV infusion chart				
Volume ml/kg/day	5%/10%			
Glucose (sidearm)	mg/kg/min			
Glucose (SCAMP)	mg/kg/min			
Total Glucose (Sidearm + SCAMP)	mg/kg/min			
Prescriber's signature:				