

## KSS-PN Starter (No Electrolytes)

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 <b>Total PN volume</b> <b>(Max 107ml/kg/day-preterm; 92ml/kg/day-term)</b>	ml/kg/day	=	ml/day
Less SMOF lipid volume <b>(max 17ml/kg/day) (max 43ml)</b>	ml/kg/day	=	ml/day <b>Give at _____ ml/hour</b>
Equals Aqueous volume <b>(Max 90ml/kg/day-preterm; 75ml/kg/day-term)</b>	ml/kg/day	=	ml/day <b>Give at _____ ml/hour</b>
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 <b>Total PN volume</b> <b>(Max 107ml/kg/day-preterm; 92ml/kg/day-term)</b>	ml/kg/day	=	ml/day
Less SMOF lipid volume <b>(max 17ml/kg/day) (max 43ml)</b>	ml/kg/day	=	ml/day <b>Give at _____ ml/hour</b>
Equals Aqueous volume <b>(Max 90ml/kg/day-preterm; 75ml/kg/day-term)</b>	ml/kg/day	=	ml/day <b>Give at _____ ml/hour</b>
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 <b>Total PN volume</b> <b>(Max 107ml/kg/day-preterm; 92ml/kg/day-term)</b>	ml/kg/day	=	ml/day
Less SMOF lipid volume <b>(max 17ml/kg/day) (max 43ml)</b>	ml/kg/day	=	ml/day <b>Give at _____ ml/hour</b>
Equals Aqueous volume <b>(Max 90ml/kg/day-preterm; 75ml/kg/day-term)</b>	ml/kg/day	=	ml/day <b>Give at _____ ml/hour</b>
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 <b>Total PN volume</b> <b>(Max 107ml/kg/day-preterm; 92ml/kg/day-term)</b>	ml/kg/day	=	ml/day
Less SMOF lipid volume <b>(max 17ml/kg/day) (max 43ml)</b>	ml/kg/day	=	ml/day <b>Give at _____ ml/hour</b>
Equals Aqueous volume <b>(Max 90ml/kg/day-preterm; 75ml/kg/day-term)</b>	ml/kg/day	=	ml/day <b>Give at _____ ml/hour</b>
Nurse Signature 1:	Nurse Signature 2:	Pharmacist's signature	

## Neonatal Parenteral Nutrition KSS-PN Starter No Electrolytes

### Prescription

<b>Prescribed total fluid ml/kg/day</b>	<b>60</b>	<b>90</b>	<b>120</b>	<b>150</b>
<b>Total PN volume ml/kg/day</b>	<b>46</b>	<b>66</b>	<b>87</b>	<b>107</b>
<b>KSS-PN Starter No electrolytes</b> Aqueous PN formula (12% glucose concentration)				
<b>Aqueous PN Volume ml/kg/day</b>	<b>40</b>	<b>60</b>	<b>75*</b>	<b>90**</b>
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	0	0	0	0
Potassium mmol/kg/day	0	0	0	0
Calcium mmol/kg/day	0	0	0	0
Phosphate mmol/kg/day	0	0	0	0
Magnesium mmol/kg/day	0	0	0	0
Chloride mmol/kg/day	0.3	0.4	0.5	0.6
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
SMOF Lipid PN Formula (Contains Vitamins)				
<b>Lipid PN volume mL/kg/day</b>	<b>6</b>	<b>6</b>	<b>12</b>	<b>17</b>
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				
<b>Total energy (Non-Nitrogen Energy) Kcal/kg/day</b>	<b>36(29)</b>	<b>49(39)</b>	<b>69(56)</b>	<b>88(73)</b>
<b>Prescriber's Signature</b>				
<b>Date and time:</b>				

- 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			
<b>Prescriber's signature:</b>				