Patient Details or a	ddressograph¹:							
Name:			Ī	Neonatal Parei	otoral Nutritio	n Order For	m	
Date of birth:				Neonalai Parei	iterai Nutritio	ii Oidei Foii	11	
Unit Number:								
CHI:		Week beginning <sup>2</sup> :						
		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Working weight <sup>3</sup> (g)								
Target daily fluids4 (	ml/kg/day)							
Total hourly fluid rate	e <sup>5</sup> (ml/hr)							
Total other continuo	us infusions <sup>6</sup> (ml/hr)							
Weaning regimen <sup>7</sup>								
Predicted hourly mill	k <i>(ml/hr) at 6pm</i> 8							
Serum Triglyceride L	_evel ( <i>Day 4/weekly</i> ) <sup>9</sup>							
SMOF lipid rate (m	l/hr) <sup>10</sup>							
Amino acids rate (r	ml/hr) Predicted at 6pm <sup>11</sup>							
	Standard (2.88g) Central (3.1g) <sup>13</sup>							
, , ,	<u> </u>	Waa /Na	Waa INIa	Var /Na	Waa (Na	Waa (Na	Waa /Na	V /N.
Additional electrolyte		Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Total Sodium <sup>16</sup>	mmol/kg/day			_				
	mmol/day							
Total Potassium <sup>16</sup>	mmol/kg/day			_				
	mmol/day							
Total Calcium <sup>16</sup>	mmol/kg/day)							
	mmol/day							
Total Phosphate <sup>16</sup>	mmol/kg/day)							
	mmol/day							
Comments <sup>17</sup>								
Sign and PRINT NAME <sup>18</sup>								
Pharmacist Check <sup>19</sup>								

## Version 14 August 2025

## Instructions for completing the Neonatal Parenteral Nutrition Order Form

Complete the order form as follows:

- 1. Document patient details. Use a new order form per patient per week
- 2. Put Monday's date
- 3. Confirm working weight
- 4. Check patients target daily fluid requirement
- 5. Calculate the hourly fluid rate
- 6. Calculate the combined hourly rate of any continuous drug infusions that are running
- 7. State which weaning regimen baby is on nil by mouth (NBM), trophic or specify weaning regimen
- 8. Using the feed increment chart calculate predicted hourly milk rate at 6pm
- 9. Serum triglycerides should be checked on day 4 after starting lipid. Once stable triglycerides should be checked weekly.
- 10. Calculate the SMOF lipid rate as per Table 2 or Table 3. Remember to check most recent serum triglyceride level in case adjustment needed
- 11. Calculate the predicted amino acid rate at 6pm (target daily fluid rate minus drug infusions, minus milk and minus lipid)
- 12. If the patients daily fluid requirement is not met with PN, infusions and milk calculate rate of additional fluid required to meet requirements
- 13. Specify which PN bag is required- 10% sodium free (2.27g), 12.5% standard (2.88g) or 16% central (3.1g).
- 14. Specify if day 1 or day 2 of 48 hour bag or 24 hour bag.
- 15. State if additional electrolytes are required. For potassium additions do not exceed 4mmol/100ml peripherally.
- 16. Using the rate calculated in step 10 work out what electrolytes baby will already receive per day using Table 1. If additional electrolytes are needed order the **total** amount you want the baby to receive. Check to ensure final concentration of electrolytes do not exceed stability as per Table 5.
- 17. Include any other information you would like to communicate in the comments box.
- 18. Sign and Print
- 19. Clinical pharmacist will sign after they have checked order form and scan to pharmacy Aseptic.

Table 1. Nutritional Content of PN per 100mls				
	Sodium Free 10%	Standard 12.5%	Central 16%	
Protein (g)	2.27	2.88	3.1	
Amino Acid (g)	2.56	3.2	3.4	
Sodium (mmol)	0	3.2	4.0	
Potassium (mmol)	1.62	1.31	0	
Phosphate (mmol)	0.6	1.62	0.8	
Calcium (mmol)	0.6	1.62	0.8	
Magnesium (mmol)	0.17	0.17	0.2	
Glucose (g)	10	12.5	16	
Energy (kcal)	49	62	76	

Table 2. SMOF lipid			
Starting SMOF lipid	SMOF lipid rate		
Day 1	0.5ml/kg/hr		
Day 2	0.5ml/kg/hr		
Day 3	0.75ml/kg/hr		

Table 3. Weaning SMOFvits			
When aqueous PN volume is:	SMOF lipid volume should be:		
≥90ml/kg	0.75ml/kg/hr		
≥60ml/kg	0.5ml/kg/hr		
≥30ml/kg	0.25ml/kg/hr		
<30ml/kg	stop		

	Table 4. Maximum rates			
	Sodium Free 10% (2.27g	Standard bag 12.5% (2.88g)	Central bag 16% (3.1g)	
	Preterm			
Aqueous	125ml/kg	125ml/kg	100ml/kg	
Lipid	18ml/kg	18ml/kg	18ml/kg	
	Term			
Aqueous	110ml/kg	80ml/kg	80ml/kg	
Lipid	18ml/kg	18ml/kg	18ml/kg	

Table 5. Maximum electrolyte final concentrations per 1000ml			
	Standard bag 12.5% (2.88g)	Central bag 15% (3.1g)	
Sodium	150mmol/L	200mmol/L	
Potassium	150mmol/L	200mmol/L	
Calcium	30mmol/L	20mmol/L	
Phosphate	40mmol/L	50mmol/L	

At weekends pharmacy must be phoned on **22906** if any changes are needed