



NEONATAL




FAT EMULSION 20% (SMOF) WITH VITAMINS
(Soluvit N and Vitalipid N® KEMH)

This document should be read in conjunction with this [DISCLAIMER](#)

Unrestricted: Any prescriber may initiate treatment as per guideline

Presentation	Prefilled syringes 25mL (KEMH SCN) Contains: 20% SMOF fat emulsion 18.75 mL Soluvit N infant 1.25 mL Vitalipid N Infant 5 mL 1g ≈6mL of fat emulsion containing vitamins Final Fat content of combination Emulsion = 17%									
Classification	Fat Emulsion with Vitamins									
Indication	Concentrated source of energy and essential fatty acid for babies unable to receive enteral feeding because of immaturity or illness. <ul style="list-style-type: none"> • Contains both water soluble and fat soluble vitamins • Included in a total parenteral nutrition regimen 									
Dose	Administered as per Neonatal Parenteral Nutrition <u>KEMH Only</u> – Initial dose with TPN Starter Pack on Admission 6mL /kg/ day (≈ 1g fat/kg/day) <u>KEMH and PMH</u> <table border="1" data-bbox="424 1610 1425 1865"> <thead> <tr> <th></th> <th><u>Rate</u></th> <th><u>Fat Dose</u></th> </tr> </thead> <tbody> <tr> <td>First PN Order</td> <td>12mL /kg/ day</td> <td>≈ 2g fat/kg/day</td> </tr> <tr> <td>Second/Subsequent PN</td> <td>18-20mL/kg / day</td> <td>≈ 3.1-3.4g fat/kg/day</td> </tr> </tbody> </table>		<u>Rate</u>	<u>Fat Dose</u>	First PN Order	12mL /kg/ day	≈ 2g fat/kg/day	Second/Subsequent PN	18-20mL/kg / day	≈ 3.1-3.4g fat/kg/day
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Dose Adjustment	Dose increment: 6 mL/kg per day, not exceeding target dose of 3-3.4 g fat/kg/d).									

Guidelines & Resources	Neonatal Parenteral Nutrition
Compatible Fluids	Not to be diluted with any other fluids
Administration	<u>IV Infusion:</u> Do not infuse in excess of 0.15g/kg/hour (1mL/kg/hr)
Storage	Protect from light. Supplied in amber syringes. Use amber lines for administration
Interactions	Do not add medication to fat emulsion syringes containing vitamins
Notes	Use with caution in the presence of hepatic disease or unconjugated hyperbilirubinemia. Rapid infusion may interfere with pulmonary diffusion of gases. Fat overload can occur with rapid infusion.
References	MIMS Australia. SMOF 20% . In: MIMS Online [Internet]. St Leonards (New South Wales): MIMS Australia; 2019 [cited 2019 Oct 4]. Available from: https://www.mimsonline.com.au Truven Health Analytics. Parental Nutrition . In: NeoFax [Internet]. Greenwood Village (CO): Truven Health Analytics; 2019 [cited 2019 Oct 4]. Available from: https://neofax.micromedexsolutions.com/

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