



NEONATAL MEDICATION PROTOCOLS

FAT EMULSION 20% (SMOF)
Created by: NCCU
Date for review: Oct 2017

NCCU Clinical Guidelines
KEMH/PMH
Perth, Western Australia

DRUG:	FAT EMULSION 20% (SMOF)
PRESENTATION:	Prefilled syringes: 20% fat emulsion (1g = 5mL of fat emulsion) Infusion: 500mL (Use prefilled syringe prepared by the pharmacy if available)
ACTION & INDICATION:	Concentrated source of energy, essential fatty acid for babies unable to receive enteral feeding because of immaturity or illness. To be initiated at the discretion of the consultant in the total parenteral nutrition regimen (e.g. for obstructive jaundice) in place of conventional fat emulsion (Clinoleic 20%; 6B) or (Clinoleic with Soluvit N and Vitalipid N 17%; SCN)
DOSE:	Commencing dose: 5-10 mL/kg/day (target 2g fat/kg/day) Second and ongoing dose: 10-17.5 mL/kg/day (target 3-3.5 g fat/kg/day) 3.5g/kg/day is equivalent to 17.5 mL/kg/day Dose increment: 5 mL/kg/day not exceeding target dose. <i><u>Refer to SCN or 6B QRG's for recommended prescribing rates.</u></i>
ADMINISTRATION:	<i>Do not dilute</i> Intravenous infusion: Infants <34 weeks 0.5-1mL/hour Infants ≥34 weeks 0.5-3mL/hour Do not infuse in excess of 0.15g/kg/hour.
COMMENTS:	Use with caution in the presence of hepatic disease. Rapid infusion may interfere with pulmonary diffusion of gases. Fat overload can occur with rapid infusion. Protect from light. Supplied in amber syringes but amber lines are not used. <i>Do not add medication to fat emulsion syringes.</i> <ul style="list-style-type: none"><i>Multivitamins will be included into the parenteral nutrition bag instead of the fat emulsion.</i><i>Prefilled syringes of SMOF may not be available if initiated on weekends or PH's. Continue using prefilled syringes of Fat Emulsion Clinoleic 20% (PMH) or Clinoleic with Soluvit N and Vitalipid N 17% (KEMH) until Pharmacy are able to manufacture prefilled SMOF syringes or supply 500mL infusion bag.</i>
REFERENCES:	Neofax 2013, MIMS 2014
DATE:	Oct 2014