



NEONATAL MEDICATION PROTOCOLS

FAT EMULSION 20%
 Created by: NCCU
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NCCU Clinical Guidelines
 KEMH/PMH
 Perth, Western Australia

DRUG:	FAT EMULSION 20% (CLINOLEIC)
PRESENTATION:	Prefilled syringes: 20% fat emulsion (1g = 5mL of fat emulsion) Infusion: 500mL
ACTION & INDICATION:	Concentrated source of energy and essential fatty acid for babies unable to receive enteral feeding because of immaturity or illness Included in total parenteral nutrition regimen
DOSE:	Day 1 and day 2: 5 mL/kg/day (target 1 g fat/kg/day) Day 3 and day 4: 10 mL/kg/day (target 2 g fat/kg/day) Day 5 and day 6: 15 mL/kg/day (target 3 g fat/kg/day) Day 7 and onwards: 15-17.5 mL/kg/day (target dose 3.5 g fat/kg/day) Dose increment: 5 mL/kg/d, not exceeding target dose of 3.5 g fat/kg/day. 3.5 g/kg/day is equivalent to 17.5 mL/kg/day
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 or unconjugated hyperbilirubinaemia. NOTE: Multivitamins will be included into the parenteral nutrition bag instead of in the 20% fat emulsion. 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>
REFERENCES:	Neofax 2013
DATE:	Oct 2014