



NEONATAL MEDICATION PROTOCOLS

INJECTABLE MEDICATION GUIDELINE / TPN AND
 LIPID COMPATIBILITY INFORMATION
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NCCU Clinical Guidelines
 KEMH/PMH
 Perth, Western Australia

INJECTABLE MEDICATION GUIDELINE

This table provides a guide to the compatibilities of medications commonly infused in the NCCU.

Medication compatibilities are **concentration, temperature and light dependant**.

Do not use solutions where there is a visual change in the bag, or tubing.

Refer also to The Australian Injectable Drugs Handbook 5th Edition that is kept in the Medication Trolley

Contact your pharmacist for further information.

	Calcium Gluconate	Dobutamine	Dopamine	Morphine	Sodium bicarbonate	TPN *	Sodium Chloride	Glucose
Calcium Gluconate	•	Yes	Yes	Yes	No	Yes	Yes	Yes
Dobutamine	Yes	•	Yes	Yes	No	Yes	Yes	Yes
Dopamine	Yes	Yes	•	Yes	No	Yes	Yes	Yes
Morphine	Yes	Yes	Yes	•	No	Yes	Yes	Yes
Sodium Bicarbonate	No	No	No	No	•	No	Yes	Yes
TPN *	Yes	Yes	Yes	Yes	No	•	Yes	Yes

TPN is the amino acid/glucose solution only. It does not include Fat Emulsion.

Reference: Trissell LA. Handbook on Injectable Drugs 16th Ed 2011

The Australian Injectable Drugs Handbook 5th Ed 2011

These lists of medications are known to be either compatible or incompatible with TPN solutions and lipids. For medications not listed contact your Pharmacist for further information.

Parenteral Nutrition and Lipid Compatibility Information

Compatible with TPN Solution	Compatible with Lipids Note KEMH Lipid syringes contain Vitamins. The below compatibilities may not apply. Contact your Pharmacist.
Adrenaline	Adrenaline
Benzylpenicillin	Benzylpenicillin
Cefotaxime	Cefotaxime
Ceftazidime	Ceftazidime
Ciprofloxacin	Ceftriaxone
Dexamethasone	Cephazolin
Digoxin	Clindamycin
Erythromycin	Digoxin
Fentanyl	Dobutamine
Fluconazole	Dopamine
Gentamicin	Erythromycin
Hydrocortisone	Fentanyl
Insulin	Gentamicin
Isoprenaline	Hydrocortisone
Meropenem	Insulin
Morphine	Isoprenaline
Noradrenaline	Lignocaine
Octreotide	Meropenem
Phenobarbitone	Metronidazole
Piperacillin and tazobactam	Morphine
Ranitidine	Piperacillin and tazobactam
Ticarcillin and clavulanic acid	Ranitidine
Tobramycin	Tobramycin
Vancomycin	Vancomycin

Parenteral Nutrition and Lipid Incompatibility Information

Incompatible with TPN Solution	Incompatible with Lipids
Aciclovir	Aciclovir
Amoxicillin	Amikacin
Amphotericin B	Amphotericin B
Amphotericin liposomal	Amphotericin liposomal
Ampicillin	Ampicillin
Calcium Chloride	Calcium Chloride
Calcium Gluconate	Calcium Gluconate
Ceftriaxone	Ciprofloxacin
Cephazolin	Diazepam
Diazepam	Frusemide
Flucloxacillin	Ganciclovir
Frusemide	Heparin Conc > 1unit/mL
Ganciclovir	Indomethacin
Metoclopramide	Magnesium salts
Metronidazole	Midazolam
Midazolam	Octreotide
Phenytoin	Phenobarbitone
Phosphate salts	Phenytoin
Sodium Bicarbonate	Sodium Bicarbonate
Sulphamethoxazole/Trimethoprim	Sulphamethoxazole/Trimethoprim

Reference:

Paediatric Injectable Guidelines 4th Ed 2011 The Royal Children's Hospital Melbourne