

Y-SITE INJECTION DRUG COMPATIBILITY CHART with Parenteral Nutrition Solutions (TPN)

For this chart, lipids (fat emulsion) = INTRALIPID ONLY

- Locate the drug name in the first column. If different concentrations are indicated, determine which concentration applies.
- Under "TPN Admixture Type", check the compatibility of the drug with the type of TPN admixture the patient is receiving (3-in-1 versus 2-in-1). Note: 2-in-1 contains dextrose, amino acids (TRAVASOL), and may also contain electrolytes, vitamins and trace elements only in one bag. 3-in-1 also called Total Nutrient Admixture (TNA) contains lipids (fat emulsion) in addition to items listed under 2-in-1 in one bag.
- For 2-in-1 TPN when column reads C¹, if there is a piggy-back fat (lipid) emulsion, it must be interrupted while drug is infused.
- Check if the TPN admixture the patient is receiving contains either ranitidine or insulin. If so, check the last two columns to determine whether this changes the compatibility.
- If TPN admixture contains iron dextran, it should **NOT** be co-infused with any other medication.

Drug	TPN Type		ranitidine in TPN	insulin in TPN
	3-in-1	2-in-1		
acyclovir	I	I	I	I
amikacin 5 mg/mL or less	C	C	C	
amikacin more than 5 mg/mL	I	C ¹	C	
aminophylline 2.5 mg/mL	C	C	C	I
aminophylline more than 2.5 mg/mL	I	I	I	I
amiodarone				
amphotericin B	I	I	I	I
ampicillin 20 mg/mL or less	C	C	C	C
azithroMYCIN				
calcium chloride	I	I	I	I
calcium gluconate 40 mg/mL or less (0.18 mEq/mL or 0.09 mmol/mL or less)	C	C	C	C
ceFAZolin	C	C	C	C
cefoTAXime	C	C		
ceftAZIDime	C	C	C	
ceftriAXONE	I	I	I	I
ceFURoxime	C	C		
chloramphenicol		C ¹	C	
ciprofloxacin	I	I	I	
clindamycin	C	C		
cloxacillin 10 mg/mL or less		C		
cotrimoxazole	C	C		
cycloPHOSPHAMIDE	C	C	C	
cycloSPORINE 5 mg/mL or more	I	I	I	I
cytarabine (ARA-C)	C	I	C	I
DOBUTamine	C	C	C	C
dimenhyDRINATE				
diphenhydrAMINE	C	C	C	
DOPamine	I	C ¹	C	I

¹ The piggy-back infusion of lipid emulsion (if any) should be interrupted during co-infusion of the 2-in-1 TPN with this medication

3-in-1 = TRAVASOL + dextrose + lipid emulsion + additives all in one bag

2-in-1 = TRAVASOL + dextrose + additives in one bag ± lipid bag administered separately via piggy-back

C = **Compatible**; may be mixed via a Y-site. Compatibility depends upon many factors including temperature, pH, IV fluid, concentration, order of mixing and brand of drug.

Check tubing below Y-site carefully for discoloration, cloudiness or precipitation

I = **Incompatible DO NOT MIX**

blank = **DO NOT MIX**; conflicting or no compatibility information available

Drug	TPN Type		ranitidine in TPN	insulin in TPN
	3-in-1	2-in-1		
erythromycin lactobionate	I	C ¹	C	
fentanyl citrate	C	C	C	
fluCONazole	C	C	C	
foscarnet	I	I	I	I
furosemide 3 mg/mL or less	C			
ganciclovir	I	I	I	I
gentamicin	C	C	C	C
heparin 25 units/mL or less	C	C	C	C
heparin 100 units/mL	I	C	C	C
hydrocortisone sodium succinate	C	C		I
HYDROMorphone	I	I	I	I
imipenem-cilastatin	C	C		C
insulin, regular	C	C	C	C
lidocaine	C		C	C
magnesium sulfate 0.8 mEq/mL or less	C	C	C	C
magnesium sulfate more than 0.8 mEq/mL	I	C ¹	C	C
mannitol	C	C		
meperidine	C	C	C	C
meropenem	C		C	C
metoclopramide	C	I	C	C
metronidazole	C	C		
midazolam	I	I	I	I
milrinone		C	C	C
morphine 1 mg/mL or less	C	C	C	C
morphine 15 mg/mL or more	I	I	I	I
moxifloxacin				
nitroglycerin	C	C	C	C
NORepinephrine	C	C	C	I
octreotide	C	C		
ondansetron	I	C ¹	C	
pancuronium				
pantoprazole				
penicillin G sodium		C ¹	C	C
phenytoin	I	I	I	I
piperacillin/tazobactam	C	C	C	
potassium chloride	C	C	C	C
POTASSIUM phosphate	I	I	I	I
procainamide				
proCHLORperazine mesylate				
proPOFol		C	I	I
ranitidine	C	C	C	C
sodium bicarbonate	I	I	I	I
tobramycin	C	C	C	C
vancomycin	C	C	C	C
vitamin K (phytonadione)	C	C	C	C

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