



# INTRALIPID<sup>®</sup> 20% & DRUG COMPATIBILITY GUIDELINES

The decision to Y-site a medication with Intralipid<sup>®</sup> 20% should be considered carefully.

In some instances, medications may be visually compatible with Intralipid<sup>®</sup> 20% but there is insufficient data to indicate whether or not the drug is chemically stable or, as in the case of antibiotics, the antimicrobial activity is retained.

Physical compatibilities with medications at a Y-site are not consistent between different fat emulsion products. (i.e. If compatible with Intralipid<sup>®</sup>, one cannot assume compatible with SMOFLipid<sup>®</sup>)

Read comments below where indicated by notation number (i.e. 4,7)

## INTRALIPID 20% COMPATIBILITIES (Y-site)

|                         |                                  |                           |
|-------------------------|----------------------------------|---------------------------|
| Aminophylline           | DOBUTamine                       | metroNIDAZOLE             |
| Amoxicillin/clavulanate | Enalaprilat                      | Morphine <sup>1</sup>     |
| Ampicillin              | Famotidine                       | Nitroglycerin             |
| Caffeine                | fentaNYL                         | Norepinephrine            |
| CeFAZolin               | Fluconazole                      | Octreotide                |
| cefoTAXime              | Furosemide                       | Penicillin G Sodium       |
| cefOXItin               | Gentamicin                       | Phytonadione (Vitamin K1) |
| ceftAZIDime             | Granisetron                      | Piperacillin-Tazobactam   |
| cefTRIAxone             | Heparin ( <i>Max 1 unit/mL</i> ) | Potassium Chloride        |
| ceFUROXime              | Hydrocortisone                   | Primene PN* Solutions     |
| chlorproMAZINE          | Insulin (Regular)                | Pyridoxine (Vitamin B6)   |
| Ciprofloxacin           | Isoproterenol                    | Sodium Bicarbonate        |
| Clindamycin             | Magnesium Sulfate                | Tobramycin                |
| Dexamethasone           | Meropenem                        | Travasol PN* Solutions    |
| Digoxin                 | methyIPREDNISolone               | Vancomycin                |
| diphenhydrAMINE         | Metoclopramide                   | Zidovudine                |

\*PN = Parenteral Nutrition

- If a medication is not listed as compatible, the prescriber is responsible to make the decision to run (or not to run) a drug concurrently with Intralipid. The prescriber must document this decision on an order sheet.  
ex. Drug X may be run concurrently with Intralipid<sup>®</sup> 20% during infusion.
- Observe IV Intralipid<sup>®</sup> 20% for oiling out and discontinue immediately if this occurs.
- For compatibility on any other drugs please contact pharmacy.

## **INTRALIPID 20% INCOMPATIBILITIES**

### **MUST NOT be run concurrently**

|                             |                           |                     |
|-----------------------------|---------------------------|---------------------|
| Acyclovir                   | cycloSPORINE <sup>2</sup> | PHENobarbital       |
| Albumin                     | Diazepam                  | phenytoIN           |
| Amikacin                    | LORazepam                 | Potassium Phosphate |
| Amphotericin B deoxycholate | Midazolam                 | Sodium Phosphate    |
| Calcium Chloride            | Ondansetron               |                     |
| Calcium Gluconate           | Pantoprazole              |                     |

### **NOT RECOMMENDED DUE TO INSUFFICIENT OR CONFLICTING DATA**

|                                 |   |                       |                         |
|---------------------------------|---|-----------------------|-------------------------|
| Acetaminophen                   | Cloxacillin   | Ketamine <sup>3</sup> | phenylePHrine           |
| acetaZOLAMIDE                   | Deferoxamine  | Ketorolac             | Potassium Acetate       |
| Alprostadil                     | Dexmedetomidine   | Labetalol             | Propranolol             |
| Alteplase                       | DOPamine <sup>4</sup>                                   | LevETIRAcetam         | Protamine               |
| Amiodarone                      | EPINEPHrine   | Levocarnitine         | Rifampin                |
| Amphotericin B Lipid Complex    | Ertapenem   | Levosimendan          | Rocuronium              |
| Amphotericin B Liposome         | Esmolol   | Levofloxacin          | Salbutamol              |
| Antithymocyte Globulin (rabbit) | Ethacrynic Acid   | Linezolid             | Sodium Acetate          |
| Atropine                        | Filgrastim  | Milrinone             | Sodium Chloride         |
| Azithromycin                    | Fish oil emulsion (Omegaven <sup>®</sup> ) <sup>5</sup> | Moxifloxacin          | Tacrolimus <sup>6</sup> |
| Bivalirudin                     | Glucagon  | Mycophenolate         | Vasopressin             |
| Caspofungin                     | hydrALAZINE   | Naloxone              | Verapamil               |
| Cefepime                        | HYDROmorphone <sup>7</sup>                              | Neostigmine           | Voriconazole            |
| Cidofovir                       | Ibuprofen   | Palonosetron          |                         |
| Cisatracurium                   | Indomethacin  | Phentolamine          |                         |

### **If a medication is incompatible with Intralipid<sup>®</sup> 20% and a separate site is not possible:**

- Stop the Intralipid<sup>®</sup> 20% temporarily.
- Adequately flush tubing with compatible solution before and after drug administration.

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- <sup>1</sup> Compatible with morphine 1 mg/mL. With morphine 15 mg/mL damage to emulsion integrity occurs immediately.
  - <sup>2</sup> Non-PVC equipment must be utilized for intravenous administration of cycloSPORINE.
  - <sup>3</sup> Ketamine: No information available in the literature regarding compatibility with PN or lipids. Ketamine has been connected at the Y-site connection with PN, Intralipid<sup>®</sup> 20% and HYDROmorphine or morphine in 6L oncology, with no apparent problems with pain control or lines.
  - <sup>4</sup> DOPamine: Variable compatibility results have been reported for DOPamine with Intralipid<sup>®</sup> 20%. DOPamine may degrade over time in the alkaline pH of lipids resulting in lower than expected clinical effects.
  - <sup>5</sup> Fish oil emulsion: No compatibility data available. Has been connected at a Y-site connection with PN and Intralipid<sup>®</sup> 20% in NICU with no apparent problems.
  - <sup>6</sup> Non-PVC equipment must be utilized for intravenous administration of tacrolimus.
  - <sup>7</sup> HYDROmorphine has been connected at a Y-site connection with PN and Intralipid<sup>®</sup> 20% in 6L oncology with no apparent problems with pain control or lines.