IV Drug Compatibility Chart

The IV drug compatibility chart is based on information from the *Handbook of Injectable Drugs, 16th Edition*, by Lawrence A. Trissel, FASHP, copyright 2010, American Society of Health-System Pharmacists. Incompatibilities are based on meeting **any** of the following criteria:

- Additive Compatibility
- Drugs in Syringe Compatibility
- Y-Site Injection Compatibility (1:1 Mixture)

Additionally, in some cases one brand of product may be compatible but another brand of drug is not. When this occurred, "incompatible" was used.

Disclaimer:

This IV Drug Compatibility Chart is provided as a quick reference, however since information is subject to change it is advised that you check with a pharmacist for recommendations as well as product information to check for any changes or additional incompatibilities.

Key:

- = Compatible
- = Incompatible
- = A drug intersects with itself
- = The relationship was investigated and the results were equivocal.
  = No data available

IV Drug Compatibility Chart

	Alteplase (Activase, rTPA)	Amiodarone (Cordarone)	Argatroban	Atropine	Calcium chloride	Diltiazem (Cardizem)	Dobutamine (Dobutrex)	Dopamine	Epinephrine (Adrenalin)	Esmolol (Brevibloc)	Furosemide (Lasix)	Heparin	Insulin (regular)	Lidocaine (Xylocaine)	Lorazepam (Ativan)	Magnesium Sulfate	Metoprolol Tartrate (Lopressor)	Morphine Sulfate	Norepinephrine Bitartrate	Pantoprazole (Protonix)	Phenytoin (Dilantin)	Potassium chloride	Propofol (Diprivan)	Sodium bicarbonate	Sodium nitroprusside (Nipride)	Succinylcholine (Anectine)	Verapamil
Abatacept																											
Abciximab				●													●										
Acetylcysteine																											
Acyclovir Sodium						●	●	●				●			●	●		●		●		●	●	●			
Adenosine																											
Aldesleukin								●				●			●	●						●					
Alfentanil hydrochloride																		●					●				
Allopurinol Sodium															●			●				●		●			
Alteplase, Recombinant							●	●				●		●			●	●									
Amifostine								●			●				●	●		●				●		●			
Amikacin Sulfate		●	●		●	●	●		●	●	●	●			●	●		●	●	●	●	●	●	●		●	●
Amiodarone Hydrochloride		●		●	●		●	●	●	●	●	●	●	●	●	●		●	●	●		●		●	●		●
Amphotericin B Desoxycholate																●				●		●	●	●			●
Amphotericin B Lipid-Based														●	●	●	●	●			●	●		●			●
Ampicillin Sodium/Sulbactam Sodium		●				●			●	●			●					●									
Ampicillin Sodium													●	●		●		●		●		●	●	●			●
Antihemophilic Factor																											
Argatroban			●	●		●	●	●			●			●			●	●	●						●		●
Asparaginase																								●			
Atracurium Besylate							●	●	●	●		●						●				●	●		●		
Atropine Sulfate		●	●				●				●	●						●		●		●	●	●			●
Azacitidine																											
Azathioprine																											
Azithromycin											●							●				●					

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Basaliximab																											
Bendamustine Hydrochloride																											
Benztropine Mesylate																											
Bevacizumab																											
Bivaliruden	●	●		●		●	●	●	●	●	●			●	●	●	●	●	●			●		●	●		●
Bleomycin Sulfate (BLM)											●	●															
Bortezomib																											
Bumetanide						●	●				●				●								●				
Buprenorphine Hydrochloride				●							●	●											●				
Busulfan																											
Butorphanol Tartrate				●														●									

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C1 Inhibitor, Human																											
Cabazitaxel																											
Calcium Chloride		●			●		●	●	●	●				●		●		●	●	●			●	●	●		●
Calcium Gluconate		●					●		●		●	●		●		●			●	●		●	●				●
Carboplatin																							●	●			
Carmustine																								●			
Cefepime Hydrochloride							●	●			●	●	●		●	●		●			●	●	●	●			
Cefotaxime Sodium						●						●			●	●				●			●				●
Cefoxitin Sodium						●						●				●		●					●	●			●
Ceftaroline Fosamil Monoacetate																											
Ceftazidime		●				●	●	●	●	●	●							●		●	●		●	●			
Ceftizoxime Sodium		●											●														
Ceftriaxone Sodium		●				●								●				●					●	●			
Cefuroxime Sodium		●				●					●							●		●			●				
Chloramphenicol Sodium Succinate					●			●		●		●		●		●		●				●		●			●
Chlorpromazine Hydrochloride																		●		●		●	●				
Cidofovir																											
Cimetidine				●		●			●	●	●	●	●	●	●			●	●			●	●	●	●		●
Ciprofloxacin						●	●	●			●	●		●	●	●			●	●	●	●	●	●				●
Cisatracurium Besylate							●	●	●	●	●			●	●	●		●	●			●	●	●	●		
Cisplatin											●	●			●	●		●					●				
Clevidipine Butyrate																											
Clindamycin Phosphate		●				●				●		●				●				●		●	●				●
Clorfarabine																		●									
Cyclosporine																●				●			●				
Cytomegalovirus Immune Globulin Intravenous, Human																											

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Dacarbazine																											
Daclizumab																											
Daptomycin								●						●													
Darbepoetin Alfa																											
Daunorubicin Hydrochloride (DNR)																								●			
Decitabine																											
Denileukin Diftitox																											
Desmopressin Acetate																											
Dexamethasone											●																
Dexamethasone Sodium Phosphate											●			●	●			●		●		●	●	●			
Dexmedetomidine Hydrochloride		●				●	●	●	●	●	●			●		●			●			●	●	●	●		●
Diazepam						●	●				●	●						●		●		●	●				●
Digoxin		●				●	●					●	●	●				●		●		●	●				●
Diltiazem Hydrochloride			●			●	●	●	●	●	●		●	●	●			●	●		●	●		●	●		
Dimenhydrinate				●			●				●	●			●	●		●	●	●		●					●
Diphenhydramine Hydrochloride			●	●										●				●		●		●	●	●			
Dobutamine Hydrochloride	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●		●	●	●	●	●	●	●	●		●
Docetaxel							●	●			●				●	●		●				●		●			
Dopamine Hydrochloride	●	●	●		●	●	●	●		●	●	●	●	●	●			●	●	●		●	●	●	●		●
Doripenem				●		●	●	●		●	●		●		●	●			●	●		●		●			
Doxorubicin Hydrochloride, Conventional							●	●			●	●			●			●					●	●			
Doxycycline Hyclate		●				●										●		●					●				
Drotrecogin Alfa							●	●			●		●			●			●			●					

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Enalaprilat							●	●		●		●		●		●		●		●	●	●	●		●		
Enoxaparin Sodium												●															
Epinephrine Hydrochloride		●			●	●	●	●	●		●	●			●			●	●	●		●	●	●	●		●
Epirubicin Hydrochloride																											
Epoetin Alfa Recombinant																											
Epoprostenol Sodium																											
Eptifibatide																											
Eribulin Mesylate																											
Erythromycin Lactobionate			●			●				●	●	●	●	●	●	●		●				●		●			●
Esmolol Hydrochloride					●	●		●		●	●	●	●			●		●	●	●	●	●	●	●	●		
Esomeprazole Sodium																											
Estrogens Conjugated																				●		●					
Ethacrynate Sodium																						●					
Etoposide							●	●			●				●	●		●				●		●			

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Factor IX Concentrates																											
Famotidine				●			●	●	●	●	●		●	●	●	●		●	●		●	●	●	●	●		●
Fenoldopam Mesylate		●	●	●		●	●	●		●	●			●	●	●		●	●		●	●	●	●			●
Fentanyl Citrate		●	●	●		●	●	●	●	●	●	●		●	●			●	●	●	●	●	●				
Ferumoxytol																											
Fibrinogen Concentrate (Human)																											
Filgrastim											●				●			●				●		●			
Fluconazole		●					●	●			●	●			●			●		●	●	●	●				
Fludarabine Phosphate															●	●		●				●		●			
Flumazenil							●	●				●		●													
Fluorouracil												●						●				●	●				
Folic Acid																											
Fosaprepitant Dimeglumine																											
Foscarnet Sodium						●	●				●				●			●			●	●					
Fosphenytoin Sodium															●							●					
Furosemide		●	●	●		●	●	●	●	●	●	●		●	●			●	●	●		●	●	●	●		●

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Ganciclovir Sodium																							●				
Gemcitabine Hydrochloride							●	●			●				●							●					
Gemtuzumab Ozogamicin																											
Gentamicin Sulfate		●				●		●		●	●	●	●		●	●		●		●			●				●
Granisetron Hydrochloride							●	●			●				●	●		●				●	●	●			

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Heparin Sodium (lock flush solution)	●	●		●		●	●	●	●	●	●	●	●	●		●		●	●	●	●	●	●	●	●	●	●
Hydrocortisone Sodium Succinate			●	●	●	●		●	●		●	●		●	●	●		●	●	●		●	●				●
Hydromorphone Hydrochloride				●			●	●	●	●	●	●			●	●		●	●		●	●	●				●

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Ibandronate Sodium																											
Ibritumomab tiuxetan																											
Ibuprofen Lysine																											
Ibutilide Fumarate																											
Idarubicin Hydrochloride																●											
Ifosfamide																											
Imipenem-Cilastatin Sodium		●				●									●								●	●			
Immune Globulin I.V.																											
Inamrinone Lactate				●	●		●	●	●					●													
Indomethacin Sodium Trihydrate								●			●		●							●		●		●	●		
Infliximab																											
Insulin Injection (regular insulin)		●				●	●	●		●			●	●		●		●	●	●		●	●	●	●		●
Interferon Alfa-2b Recombinant																											
Interferon Gamma-1b																											
Irinotecan Hydrochloride																											
Iron Dextran Parenteral																											
Isoproterenol Hydrochloride		●			●		●				●	●				●				●		●		●	●	●	●
Ixabepilone																											

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Ketorolac Tromethamine																		●									

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Labetalol Hydrochloride		●				●	●	●	●	●	●		●	●	●	●		●		●		●	●	●	●		
Lacosamide																			●								
Lepirudin																											
Leucovorin Calcium											●													●			
Levetiracetam																											
Levofloxacin							●	●	●		●		●	●	●			●					●	●	●		
Levoleucovorin Calcium																											
Levothyroxine Sodium																											
Lidocaine Hydrochloride	●	●	●		●	●	●	●			●	●	●							●	●	●	●	●			●
Liothyronine Sodium																		●							●		
Lorazepam		●				●	●	●	●		●							●	●	●		●	●				
Lymphocyte Immune Globulin Anti-Thymocyte Globulin Sterile Solution																											

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Mannitol																				🔴			🟢	🟢			
Mechlorethamine Hydrochloride																											
Melphalan Hydrochloride											🟢				🟢			🟢				🟢					
Meperidine Hydrochloride				🟢		🟢	🟢	🟢			🔴	🔴	🟢	🟢		🟢	🟢	🔴		🔴		🟢	🟢	🟢		🟢	🟢
Mesna																								🟢			
Methocarbamol																											
Methotrexate, Methotrexate Sodium (Amethopterin, MTX)											🟢	🟢			🟢			🟢					🔴	🟢			
Methoxy Polythylene Glycol-Epoetin Beta																											
Methyldopate HCl										🟢						🟢		🟢				🟢		🟢			🟢
Methylergonovine Maleate																											
Methylprednisolone		🟢				🟢		🟢				🟢						🟢	🟢	🔴		🔴	🔴	🟢			🟢
Metoclopramide HCl				🟢		🟢					🔴	🟢	🟢	🟢		🟢		🟢		🔴		🟢	🔴	🔴			🟢
Metoprolol Tartrate	🟢		🟢															🟢									
Metronidazole		🟢				🟢		🟢		🟢					🟢	🟢		🟢									
Micafungin Sodium					🟢	🔴	🔴	🟢	🔴	🟢	🟢		🔴	🟢	🟢	🟢		🔴	🟢		🔴	🟢			🟢		
Midazolam Hydrochloride		🟢	🟢	🟢		🟢	🔴	🟢	🟢	🟢	🔴	🔴	🟢		🟢			🟢	🟢	🔴		🟢	🔵	🔴	🟢		
Milrinone Lacatate		🟢	🟢	🟢	🟢	🟢	🟢	🟢	🟢		🔴		🟢	🟢	🟢	🟢		🟢	🟢			🟢	🟢	🟢	🟢		🟢
Minocycline Hydrochloride																											
Mitomycin											🟢	🔴															
Mitoxantrone Hydrochloride																						🟢	🟢				
Morphine Sulfate	🟢	🟢	🟢	🟢	🟢	🟢	🟢	🟢	🟢	🟢	🔴	🔴	🟢	🟢	🟢	🟢	🟢		🟢	🔴	🔴	🟢	🔴	🟢	🟢	🟢	🟢
Moxifloxacin Hydrochloride																											
Muromonab-CD3																											
Mycophenolate Mofetil HCl								🟢											🟢								

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Naloxone Hydrochloride												●								●			●				●
Natalizumab																											
Nesiritide			●			●	●	●	●		●		●	●			●	●	●						●		●
Nicardipine Hydrochloride														●	●	●		●	●						●		
NitroglycerinIV	●	●	●			●	●	●	●	●	●	●	●	●	●			●	●	●	●		●		●		●
Nitroprusside Sodium			●		●	●	●		●	●	●	●	●	●		●		●		●		●	●				●
Norepinephrine Bitartrate		●	●		●	●	●	●	●	●	●	●	●	●	●	●		●		●		●	●	●	●	●	●

IV Drug Compatibility Chart

	Alteplase (Activase, rTPA)	Amiodarone (Cordarone)	Argatroban	Atropine	Calcium chloride	Diltiazem (Cardizem)	Dobutamine (Dobutrex)	Dopamine	Epinephrine (Adrenalin)	Esmolol (Brevibloc)	Furosemide (Lasix)	Heparin	Insulin (regular)	Lidocaine (Xylocaine)	Lorazepam (Ativan)	Magnesium Sulfate	Metoprolol Tartrate (Lopressor)	Morphine Sulfate	Norepinephrine Bitartrate	Pantoprazole (Protonix)	Phenytoin (Dilantin)	Potassium chloride	Propofol (Diprivan)	Sodium bicarbonate	Sodium nitroprusside (Nipride)	Succinylcholine (Anectine)	Verapamil
Ofatumumab																											
Ondansetron Hydrochloride											●				●	●		●				●	●	●			
Oxaliplatin							●	●			●				●	●						●					●
Oxytocin, Parenteral													●							●		●		●			●

IV Drug Compatibility Chart

	Alteplase (Activase, rTPA)	Amiodarone (Cordarone)	Argatroban	Atropine	Calcium chloride	Diltiazem (Cardizem)	Dobutamine (Dobutrex)	Dopamine	Epinephrine (Adrenalin)	Esmolol (Brevibloc)	Furosemide (Lasix)	Heparin	Insulin (regular)	Lidocaine (Xylocaine)	Lorazepam (Ativan)	Magnesium Sulfate	Metoprolol Tartrate (Lopressor)	Morphine Sulfate	Norepinephrine Bitartrate	Pantoprazole (Protonix)	Phenytoin (Dilantin)	Potassium chloride	Propofol (Diprivan)	Sodium bicarbonate	Sodium nitroprusside (Nipride)	Succinylcholine (Anectine)	Verapamil
Paclitaxel					●						●				●	●		●				●	●	●			
Palifermin																											
Palonosetron Hydrochloride				●										●	●							●				●	
Pamidronate Disodium																											
Pancuronium Bromide							●	●	●	●		●			●								●		●		●
Panitumumab																				●							
Pantoprazole Sodium				●	●		●	●	●	●	●	●	●	●	●	●		●	●		●	●	●	●	●		●
Pegaspargase																											
Pegloticase																											
Pemetrexed																											
Penicillin G Aqueous Potassium					●	●		●		●		●		●		●		●		●		●		●			●
Pentamidine Isethionate						●																					
Phenobarbital Sodium												●						●		●			●				●
Phenytoin Sodium						●	●			●				●				●		●		●	●				●
Phytonadione									●													●		●			
Piperacillin Sodium/Tazobactam Sodium		●				●	●	●			●	●			●					●		●		●			
Polymyxin B Sulfate										●		●				●											
Potassium Salts		●		●		●	●	●	●	●	●	●	●	●		●		●	●	●	●		●	●	●	●	●
Pralatrexate															●												
Prednisolone																											
Procainamide Hydrochloride		●				●	●			●				●						●		●			●		●
Prochlorperazine				●							●			●				●		●		●	●	●			
Promethazine Hydrochloride				●							●	●						●				●					
Propranolol Hydrochloride	●						●											●		●		●	●				●
Protamine Sulfate																											●
Pyridoxine Hydrochloride																											

IV Drug Compatibility Chart

	Alteplase (Activase, rTPA)	Amiodarone (Cordarone)	Argatroban	Atropine	Calcium chloride	Diltiazem (Cardizem)	Dobutamine (Dobutrex)	Dopamine	Epinephrine (Adrenalin)	Esmolol (Brevibloc)	Furosemide (Lasix)	Heparin	Insulin (regular)	Lidocaine (Xylocaine)	Lorazepam (Ativan)	Magnesium Sulfate	Metoprolol Tartrate (Lopressor)	Morphine Sulfate	Norepinephrine Bitartrate	Pantoprazole (Protonix)	Phenytoin (Dilantin)	Potassium chloride	Propofol (Diprivan)	Sodium bicarbonate	Sodium nitroprusside (Nipride)	Succinylcholine (Anectine)	Verapamil
Quinidine Gluconate		●									●																●
Quinupristin/Dalfopristin																						●					

IV Drug Compatibility Chart

	Alteplase (Activase, rTPA)	Amiodarone (Cordarone)	Argatroban	Atropine	Calcium chloride	Diltiazem (Cardizem)	Dobutamine (Dobutrex)	Dopamine	Epinephrine (Adrenalin)	Esmolol (Brevibloc)	Furosemide (Lasix)	Heparin	Insulin (regular)	Lidocaine (Xylocaine)	Lorazepam (Ativan)	Magnesium Sulfate	Metoprolol Tartrate (Lopressor)	Morphine Sulfate	Norepinephrine Bitartrate	Pantoprazole (Protonix)	Phenytoin (Dilantin)	Potassium chloride	Propofol (Diprivan)	Sodium bicarbonate	Sodium nitroprusside (Nipride)	Succinylcholine (Anectine)	Verapamil
Ranitidine Hydrochloride				●		●	●	●	●	●	●	●	●	●	●			●	●	●		●	●		●		
Rasburicase																											
Remifentanil Hydrochloride							●	●	●	●	●			●	●	●		●	●			●		●			
Reteplase Recombinant																											
Rifampin						●																					
Rituximab																											
Rocuronium Bromide																											
Romidepsin																											

IV Drug Compatibility Chart

	Alteplase (Activase, rTPA)	Amiodarone (Cordarone)	Argatroban	Atropine	Calcium chloride	Diltiazem (Cardizem)	Dobutamine (Dobutrex)	Dopamine	Epinephrine (Adrenalin)	Esmolol (Brevibloc)	Furosemide (Lasix)	Heparin	Insulin (regular)	Lidocaine (Xylocaine)	Lorazepam (Ativan)	Magnesium Sulfate	Metoprolol Tartrate (Lopressor)	Morphine Sulfate	Norepinephrine Bitartrate	Pantoprazole (Protonix)	Phenytoin (Dilantin)	Potassium chloride	Propofol (Diprivan)	Sodium bicarbonate	Sodium nitroprusside (Nipride)	Succinylcholine (Anectine)	Verapamil
Sargramostim								●			●				●	●		●				●		●			
Scopolamine Hydrobromide				●							●							●					●			●	
Sildenafil Citrate																						●					
Sodium Bicarbonate		●		●	●	●	●		●		●	●	●	●		●		●	●	●		●	●			●	●
Sodium Chloride					●																						
Sotalol Hydrochloride																			●								
Streptozocin																											
Succinylcholine Chloride												●						●	●				●	●			

IV Drug Compatibility Chart

	Alteplase (Activase, rTPA)	Amiodarone (Cordarone)	Argatroban	Atropine	Calcium chloride	Diltiazem (Cardizem)	Dobutamine (Dobutrex)	Dopamine	Epinephrine (Adrenalin)	Esmolol (Brevibloc)	Furosemide (Lasix)	Heparin	Insulin (regular)	Lidocaine (Xylocaine)	Lorazepam (Ativan)	Magnesium Sulfate	Metoprolol Tartrate (Lopressor)	Morphine Sulfate	Norepinephrine Bitartrate	Pantoprazole (Protonix)	Phenytoin (Dilantin)	Potassium chloride	Propofol (Diprivan)	Sodium bicarbonate	Sodium nitroprusside (Nipride)	Succinylcholine (Anectine)	Verapamil
Tacrolimus							●	●		●	●		●		●						●	●		●	●		
Telavancin																		●									
Temozolomide																											
Temsirolimus																											
Tenecteplase																											
Teniposide											●				●			●				●		●			
Theophylline						●					●			●							●	●			●		●
Thiotepa								●			●							●				●		●			
Ticarcillin Disodium and Clavulanate Potassium						●							●					●		●			●				
Tigecycline								●	●					●								●					
Tirofiban Hydrochloride		●		●			●	●	●		●			●				●									
Tobramycin Sulfate		●			●	●				●	●	●	●			●		●		●		●	●				●
Tocilizumab																											
Topotecan Hydrochloride																											
Trastuzumab																											
Treprostinil Sodium																											
Trimethroprim and Sulfamethoxazole						●				●		●			●	●		●		●							●
Tubocurarine Chloride																											

IV Drug Compatibility Chart

	Alteplase (Activase, rTPA)	Amiodarone (Cordarone)	Argatroban	Atropine	Calcium chloride	Diltiazem (Cardizem)	Dobutamine (Dobutrex)	Dopamine	Epinephrine (Adrenalin)	Esmolol (Brevibloc)	Furosemide (Lasix)	Heparin	Insulin (regular)	Lidocaine (Xylocaine)	Lorazepam (Ativan)	Magnesium Sulfate	Metoprolol Tartrate (Lopressor)	Morphine Sulfate	Norepinephrine Bitartrate	Pantoprazole (Protonix)	Phenytoin (Dilantin)	Potassium chloride	Propofol (Diprivan)	Sodium bicarbonate	Sodium nitroprusside (Nipride)	Succinylcholine (Anectine)	Verapamil
Valproic Acid																											
Vancomycin Hydrochloride		●				●				●		●	●		●	●		●		●		●	●	●			●
Vasopressin		●	●			●	●	●	●		●		●	●					●	●	●			●			●
Vecuronium Bromide		●				●	●	●	●	●	●				●				●				●		●		
Verapamil Hydrochloride		●	●	●	●		●	●	●		●	●	●	●		●		●	●	●	●	●	●	●	●		
Vinblastine Sulfate											●	●															
Vincristine Sulfate											●	●												●			
Vinorelbine Tartrate											●				●			●				●		●			
Voriconazole																											

IV Drug Compatibility Chart

	Alteplase (Activase, rTPA)	Amiodarone (Cordarone)	Argatroban	Atropine	Calcium chloride	Diltiazem (Cardizem)	Dobutamine (Dobutrex)	Dopamine	Epinephrine (Adrenalin)	Esmolol (Brevibloc)	Furosemide (Lasix)	Heparin	Insulin (regular)	Lidocaine (Xylocaine)	Lorazepam (Ativan)	Magnesium Sulfate	Metoprolol Tartrate (Lopressor)	Morphine Sulfate	Norepinephrine Bitartrate	Pantoprazole (Protonix)	Phenytoin (Dilantin)	Potassium chloride	Propofol (Diprivan)	Sodium bicarbonate	Sodium nitroprusside (Nipride)	Succinylcholine (Anectine)	Verapamil
Warfarin Sodium							●	●	●	●		●		●				●				●					

IV Drug Compatibility Chart

	Alteplase (Activase, rTPA)	Amiodarone (Cordarone)	Argatroban	Atropine	Calcium chloride	Diltiazem (Cardizem)	Dobutamine (Dobutrex)	Dopamine	Epinephrine (Adrenalin)	Esmolol (Brevibloc)	Furosemide (Lasix)	Heparin	Insulin (regular)	Lidocaine (Xylocaine)	Lorazepam (Ativan)	Magnesium Sulfate	Metoprolol Tartrate (Lopressor)	Morphine Sulfate	Norepinephrine Bitartrate	Pantoprazole (Protonix)	Phenytoin (Dilantin)	Potassium chloride	Propofol (Diprivan)	Sodium bicarbonate	Sodium nitroprusside (Nipride)	Succinylcholine (Anectine)	Verapamil
Zidovudine							●	●							●			●		●		●					
Zoledronic Acid																											