

TITLE: STANDARD ADULT IVPB ADMIXTURES

EFFECTIVE DATE: 8/04

POLICY#: PN.02

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 REVIEW/REVISION DATE: 5/05, 5/06,
3/07, 7/10, 12/10, 5/11

 Created by: R. Thelin, PharmD
Revised by: R. Thelin, PharmD

 DISTRIBUTION:
Nursing; Pharmacy

Product	Standard Diluent	Other diluent	Standards	Infusion Time /Notes	Maximum conc.
acetaZOLAMIDE (Diamox)	D5W	NS	All doses in 50mL	15 minutes	10mg/mL
acyclovir (Zovirax)	D5W	NS	< 350mg in 50ml 350-700mg in 100ml > 700mg in 250ml	60 minutes	7mg/mL
allopurinol (Aloprim)	NS	D5W	≤ 300mg / 50mL 300mg-600mg / 100mL	30 minutes 60 minutes	6mg/mL
amikacin (Amikin)	NS	D5W	≤ 500mg in 50ml > 500mg in 100ml	30 minutes 60 minutes	10mg/ml
aminocaproic acid (Amicar)	D5W	NS	≤ 2grams in 100mL >2grams in 250mL	60 minutes 60 minutes	40mg/mL
aminophylline	D5W	NS	<500mg in 100mL	30 minutes	5mg/mL
amphotericin B (Fungizone)	D5W	-	Dilute to 0.1mg/ml	4 - 6 hours	0.25mg/ml
amphotericin B (Liposome)	D5W	-	Dilute to 1mg/ml	120 minutes	2mg/ml
ampicillin	NS	D5W	≤ 1gram/50-100mL > 1gram/100mL	30 minutes	40mg/ml
ampicillin /sulbactam (Unasyn)	NS	-	1.5gram/50-100mL 3.0gram/100mL	30 minutes 60 minutes	30mg AMP/ml
azithromycin (Zithromax)	NS	D5W	250mg/250mL 500mg/250mL	60 minutes 90 minutes	2mg/ml
aztreonam (Azactam)	NS	D5W	≤ 1gram/50mL >1gram/100mL	30 minutes 60 minutes	40mg/mL
calcium gluconate	D5W	NS	≤ 1gram/50mL	20 minutes	40mg/mL
casopogungin (Cancidas)	NS	-	≤ 50mg/250ml (100ml if volume restricted) 70mg/250ml	60 minutes	0.5mg/mL
ceFAZolin (Ancef)	D5W	NS	≤ 1gram/50mL >1 gram/100mL	30 minutes	40mg/mL
cefepime (Maxipime)	NS	D5W	≤ 1gram/50-100mL 1-2 gram/100mL	30 minutes	40mg/mL
cefotaxime (Claforan)	NS	D5W	All doses in 50ml	30 minutes	40mg/mL
cefoTEtan (Cefotan)	D5W	NS	All doses in 50mL	30 minutes	40mg/mL
cefTAZIDIME (Fortaz)	NS	D5W	All doses in 100ml	30 minutes	40mg/mL
cefTRIAxone (Rocephin)	D5W	NS	All doses in 50ml	30 minutes	40mg/mL
cefUROXime (Zinacef)	D5W	NS	≤ 750mg/50ml 1500mg/100ml	30 minutes	30mg/mL
ciprofloxacin (Cipro)	D5W	NS	200mg/100ml 400mg/200ml	60 minutes 90 minutes	2mg/mL
clindamycin (Cleocin)	NS	D5W (premix)	< 300mg-600mg/50ml 900mg/50-100ml 1200mg/100ml	30 minutes 30 minutes 60 minutes	12mg/mL
daptomycin (Cubicin)	NS	-	IV Push: IVPB: All doses in 50mL	2 minutes 30 minutes	50mg/mL 20mg/mL
desmopressin (DDAVP)	NS	-	≤4mcg IV push >4mcg/kg/50mL	1 minute 15 minutes	4mcg/mL
dexamethasone [Decadron]	NS	D5W	≤ 20mg IV push >20mg in 50mL	Over ≥ 2min 15-30min	4mg/mL 2mg/mL

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digoxin IMMUNE FAB (DIGIFAB) Vial = 40mg	NS	-	≤ 80mg/100mL 120mg-240mg/250mL 280mg-480mg/500mL	30 minutes	1mg/mL
doripenem (Doribax)	NS	D5W	All doses in 100mL	60 minutes	5mg/mL
doxycycline (Vibramycin)	NS	D5W	100mg/100ml 200mg/250ml	90 minutes 120 minutes	1mg/mL
edetate calcium disodium (CALCIUM DISODIUM VERSENATE)	NS	D5W	All doses in 500mL	12 hours	20mg/mL
ertapenem (Invanz)	NS	-	500mg/50mL 1 gram/50-100mL	30 minutes	20mg/mL
erythromycin	NS	-	250mg/50ml 500mg/100ml 1 gram/ 250ml	60 minutes	5mg/ml
famotidine (Pepcid)	NS	D5W	IV Push: dilute to 10mL IVPB: dilute in 50-100 mL	2 minutes 15-30 minutes	2mg/mL 1mg/mL
fluconazole (Diflucan)	NS	D5W	50mg/25ml, 100mg/50ml 200mg/100ml 400mg/200ml >400mg (2mg/mL)	60 minutes 60 minutes 120 minutes 240 minutes	2mg/ml
FOSphenytoin (Cerebyx)	NS	D5W	≤300mg IV push >300mg to <1000mg/50mL ≥1000mg/100mL	100mg/min 20 minutes 20 minutes	20mg/mL
GANciclovir (Cytovene)	NS	D5W	All doses in 100mL	60 minutes	10mg/mL
gentamicin (Garamycin)	NS	D5W	≤ 200mg/50-100ml > 200mg/100ml	30 minutes 60 minutes	5mg/ml
hydrocortisone (Solu-CORTEF)	D5W	NS	≤ 100mg IV Push >100mg to <1000mg/100ml ≥ 1000mg/250ml	>1 minute 30 minutes 60 minutes	50mg/ml
ibuprofen (Caldolor)	NS	D5W	≤ 400mg/100mL > 400mg to 800mg/250mL	30 minutes	4mg/mL
imipenem/cilastatin (Primaxin)	NS	D5W	250mg/50-100ml 500mg/100ml 1000mg/200-250ml	30 minutes 60 minutes 120 minutes	5mg/ml
iron sucrose (Venofer)	NS	-	≤100mg IV push [HD only] 50-200mg/100mL ≥250mg/250mL	5 minutes 30 minutes 60 minutes	[20mg/mL] 2mg/mL 2mg/mL
lacosamide (Vimpat)	NS	D5W	≤ 100mg /50mL >100/50mL	30 minutes 60 minutes	4mg/mL
levETIRAcetam (Keppra)	NS	D5W	All doses in 100mL	15 minutes	15mg/mL
levofloxacin (Levaquin)	D5W	NS	250mg/50mL 500mg/100mL 750mg/150mL	60 minutes 60 minutes 90 minutes	5mg/ml
linezolid (Zyvox)	D5W	NS	400mg/200ml 600mg/300ml	90 minutes 120 minutes	2mg/ml
magnesium sulfate	SW (premix)	NS	≤ 2gram/50-100mL 4gram/100mL	120 minutes 240 minutes	40mg/mL
mannitol 20%	-	-	[20G/100mL] All doses from 20% bag	167mL/hr	1G/5mL
methocarbamol (Robaxin)	D5W	NS	≤ 500mg/50ml > 500/100ml	30 minutes 60 minutes	100mg/ml

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methylidopa (Aldomet)	D5W	NS	250mg/50 ml 500mg/100 ml	30 minutes 60 minutes	10mg/ml
methylPREDNISolone Na Succinate (Solu-MEDROL)	NS	D5W	≤ 125mg IV Push >125mg-1000mg/50ml > 1000mg/100ml	≥3 minutes 30 minutes 30 minutes	40mg/ml
metoclopramide (Reglan)	NS	D5W	≤ 10mg IV Push >10mg/50mL	5mg/min 15 minutes	5mg/mL
metroNIDAZOLE (Flagyl)	NS	-	250mg/50ml ≥500mg/100ml	60 minutes	5mg/mL
micafungin (Mycamine)	NS	D5W	All doses in 100mL	60 minutes	1.5mg/mL
ondansetron (Zofran)	D5W	NS	≤4mg IV push >4mg/50mL 32mg/50mL	≥ 1 minute 15 minutes 30 minutes	2mg/mL
oxacillin (Prostaphlin)	NS	D5W	≤ 1 gram/50 ml >1 gram/100 ml	30 minutes 60 minutes	40mg/ml
pamidronate (Aredia)	NS	D5W	60-90mg/250-500mL	≥120 minutes	0.4mg/mL
pantoprazole (Protonix)	NS	D5W	40mg IV Push 40 or 80mg/100ml	2 minutes 15 minutes	4mg/ml
penicillin G potassium or sodium (Pfizerpen)	D5W	NS	≤ 2 million units/50 ml > 2 million units/100 ml	30 minutes 60 minutes	50,000 units/ml
piperacillin/tazobactam (Zosyn)	D5W	NS	2.25-3.375 gram/50ml 4.5 gram/100 ml	30 minutes 60 minutes <small>[may infuse over 4hrs]</small>	200mg/ml
polymyxin B	D5W	NS	All doses in 500mL (1mg=10,000units)	90 minutes (or cont. infusion)	200 units/mL
potassium chloride	SW (premix)	NS or D5W	10mEq/100mL 20mEq/100mL	30-60 minutes 60-120 minutes	0.8 mEq/mL
potassium phosphate	D5W	NS	15mMol/250mL 22.5mMol/250mL 30mMol/250mL	4 hours 4 hours 6 hours	0.12 mMol/mL
prochlorperazine (Compazine)	NS	D5W	All doses in 50mL	30 minutes	0.8mg/mL
ranitidine (Zantac)	Sodium Cl	D5W	50mg/50-100mL	30 minutes	1mg/mL
rifampin	NS	-	300mg/50ml 600mg/100ml	60 minutes	6mg/ml
sincalide (Kinevac)	NS	-	≤ 5mcg/50mL	4 minutes	0.1mcg/mL
sodium phosphate	D5W	-	15mMol/250mL 22.5mMol/250mL 30mMol/250mL	4 hours 4 hours 6 hours	0.12 mMol/mL
thiamine	NS	D5W	All doses in 50mL	15 minutes	5mg/mL
tigecycline (Tygacil)	NS	D5W	50mg/100mL 100mg/100mL	30 minutes 60 minutes	1mg/mL
tobramycin (Nebcin)	NS	D5W	≤ 200mg/50ml > 200mg/100ml	30 minutes 60 minutes	5mg/ml
trimethoprim/sulfamethoxazole (Bactrim, Septra)	D5W	-	≤ 200mg TMP /250ml ≤ 400mg TMP /500ml >400mg TMP/1000mL	60 minutes 90 minutes 90 minutes	0.8mg/mL TMP
valproate sodium (Depacon)	D5W	NS	All doses in ≥ 50ml	60 minutes <small>[Migraine: over 10min]</small>	200mg/ml

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vancomycin (Vancocin)	D5W	NS	≤ 500mg/100ml > 500mg/200-250ml	60 minutes 90 minutes	5mg/ml
voriconazole (VFend)	NS	D5W	≤ 200mg/100ml > 200mg/250ml	60 minutes 120 minutes	5mg/ml
zidovudine (AZT, Retrovir)	D5W	NS	All doses in 100mL	60 minutes	4mg/mL
zoledronic acid (Zometa, Reclast)	NS	D5W	≤ 5mg/100mL	≥ 15 minutes	0.04 mg/mL

Available drug delivery systems:

ADD-Vantage® System



Pull plug from vial, MIX, then administer.

A completely needless system, containing a vial attached to a diluent bag. Vials attached in a clean environment are considered a closed system and maintain stability and sterility for 30 days, with refrigeration unnecessary. Vials attached outside of a clean environment must still be used immediately upon attachment.

Once connected, the plug is pulled from the vial and drug and diluent are mixed prior to administration.

*Caution: ensure mixing of drug and diluent before administration

See wall chart.

DUPLEX® System



A completely needless, latex-free system pre-filled with drug and diluent doses. Unlike the Add-Vantage® system, the diluent cannot be administered without the medication diluted first. Room temperature storage and is completely sterile until activation, which can be done right at the patient’s bedside. Requires popping two seals, one to mix powder and diluent, and another to allow administration via IV set.

See directions.