

Drug	Standard Diluent and Concentration	Expiration Discard by	BUD Room Temp	Special Instructions	Aux Labels	Manufacturer	Vial Size	Vial Reconstitution	Vial Exp Refrig unless noted	Confirm prior to Mixing	Reference I=Insert, T=Trissel, M=MicroMedex, A=Article, F&C=Fact and Comparisons
Acetaminophen	10 mg/mL, draw from bag	6 h		Repackaged only: Draw individual doses from premix		Fresenius Kabi	10 mg/mL, 100 mL IVPB	n/a	24 hour after removal from overwrap		I, Fresenius Kabi (c. 9.2021)
Acetazolamide	50 mg/mL SWFI		72 h FRIDGE	draw dose into syringe from reconstituted vial		XGen	500 mg	10 mL SWFI	12 h		I, XGEN (c. 12.2020)
Acetylcysteine	Up to 30 mg/mL D5W (or SW or 0.45% NS)		24 h	if infant/toddler, may reduce diluent volume NTE 30 mg/mL		Sagent	200 mg/mL 30 mL vial	n/a			I, Sagent (c. 11.2019)
Acyclovir	7 mg/mL NS	24 h		follow prep instructions to prepare dilution; draw dose into syringe or IVPB from dilution as directed; Do not refrigerate		Eugia Pharma	50 mg/mL, 10 mL vial	n/a	1 h		I, Eugia Pharma (c.4.2020)
Alprostadil (Prostin VR)	10 mcg/mL D5W	24 h		admix in D5W; Do not tube		Pfizer	0.5 mg/mL 1 mL vial	n/a	1 h		I, Pfizer (c. 4.2013)
Alteplase	0.01-1 mg/mL in NS	8 h		admix in NS	Do not shake; do not tube	Genentech	2 mg	2.2 mL SWFI	6 h	yes	I, Genentech (c. 2018)
Amikacin	5 mg/mL NS up to 20 mg/mL		24 h			Teva	250 mg/mL, 2 mL	n/a	6 h		I, Teva (c. 7.2018)
Aminocaproic Acid - *in progress*	100 mg/mL D5W		48 h			Hospira	250 mg/mL, 20 mL	n/a	6 h		I, Hospira (c. 6.2018) T; Zhang YP, Trissel LA. Stability of aminocaproic Acid injection admixtures in 5% dextrose injection and 0.9% sodium chloride injection. Int J Pharm Compd. 1997 Mar-Apr;1(2):132-4. PMID: 23995973.
Aminocaproic Acid	40 mg/mL in D5W (neonate) 50 mg/mL in D5W (infant, pediatric, adolescent, adult)		30 h			Hospira	250 mg/mL, 20 mL	n/a	6 h		USP, I, Hospira (c. 6.2018)
Amiodarone: Bolus	Bolus: up to 3 mg/mL in D5W		2 h	Premix preferred No filter for bolus		Mylan (vial) Baxter (premix)	150 mg/3 mL 450 mg/9 mL	n/a	1 h		I, Mylan (c. 7.2020)
Amiodarone: Infusion	Infusion: 1.8mg/mL in D5W		24 h	Premix preferred Mix in non PVC container Send with 0.22 micron filter	Filter	Mylan (vial) Baxter (premix)	150 mg/3 mL 450 mg/9 mL	n/a	1 h		I, Mylan (c. 7.2020)
Amphotericin-B Conventional	less than or equal to 0.1 mg/ mL in D5W		immediate use 1 h	Protect from light; Use 20g or larger needle at each stage of dilution		X-gen	50 mg	10 mL SWFI	6 h	yes	I, X-Gen (c. 10.2020)
Amphotericin liposomal (AmBisome)	1 to 2 mg/mL in D5W 0.2 - 0.5 mg/mL may ne appropriate for infants and small children	6 h		Use 5 micron filter provided for preparation Do Not Tube Not comptible with NS		Gilead	50 mg	12 mL SWFI	6 h	yes	I, Gilead (c. 8/2020)
Ampicillin IV (Peds through adults)	20 - 30 mg/mL in NS	8 h		follow prep instructions to prepare dilution; draw ose into syringe or IVPB from dilution as directed		Sandoz, Piramal Critical Care	250 mg 500 mg 1g 2g	250 mg - 2.4 mL SWFI 500 mg - 4.8 mL SWF 1g - 9.6 mL SWFI 2g - 19.6 mL SWFI	1 h		I, Piramal (c. 2019) I, Sandoz (c. 8.2020)
Ampicillin IV (Neonates)	100 mg/mL in NS	immediate use 1 h		follow prep instructions to prepare dilution; draw ose into syringe or IVPB from dilution as directed; use immediately		Sandoz, Piramal Critical Care	250 mg 500 mg 1g 2g	250 mg - 2.4 mL SWFI 500 mg - 4.8 mL SWF 1g - 9.6 mL SWFI 2g - 19.6 mL SWFI	1 h	yes	I, Piramal (c. 2019) I, Sandoz (c. 8.2020)
Ampicillin IM	250 mg/mL in SWFI	immediate use 1 h		follow prep instructions to prepare dilution; draw ose into syringe or IVPB from dilution as directed; use immediately		Sandoz, Piramal Critical Care	250 mg 500 mg 1g 2g	250 mg - 1 mL SWFI 500 mg - 1.8 mL SWF 1g - 3.5 mL SWFI 2g - 6.8 mL SWFI	1 h		I, Piramal (c. 2019) I, Sandoz (c. 8.2020)
Ampicillin/sulbactam	20mg/mL ampicillin in NS (20mg/mL Ampicillin, 10mg/mL Sulbactam=30 mg/mL combined)	8 h		follow prep instructions to prepare dilution; draw dose into syringe or IVPB from dilution as directed		Hikma, Auromedics, Mylan	1.5 g 3 g	1.5 g - 9.2 mL SWFI 3 g - 18.4 mL SWFI	1 h		I, Hikma (c. 10.2020) I, Auromedics (c. 5.2018) I, Mylan (c. 12.2020)
Antihemophilic Factors (Factor VIIa, VIII, IX, PCC etc.)	See Adult Chart	3 h		admix per package insert		Various			1 h	yes	

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Antithrombin	50 units/mL	3 h		allow vial and diluent to reach room temp before reconstitution. Swirl vial to dissolve, do not shake. Inspect vial for particulate matter and discoloration. Utilize provided filter needle during preparation. Do not tube.		Grifols	500 units	10 mL SWFI	3 h	yes	I, Grifols (c. 2019)
Anti-Thymocyte Globulin	Up to 0.5 mg/mL NS or D5W	24 h		admix in NS or D5W; Send w/0.22 micron filter. Do not shake or tube.		Genzyme	25 mg	5 mL SWFI (provided)	1 h	yes	I, Genzyme (c. 10.2018)
Azithromycin	2 mg/mL - syringe up to 2 mg/mL - IVPB NS or D5W		24 h	admix in D5W		Athenex	500 mg	4.8 mL SWFI	6 h		I, Athenex (c. 5.2019)
Aztreonam	20 mg/mL syringe up to 20 mg/mL IVPB NS		48 h	follow prep instructions to prepare dilution; draw dose into syringe or IVPB from dilution as directed		Fresenius Kabi	1 g	1 g -9.6 mL SWFI	6 h		I, Fresenius Kabi
<del>Dacium (HMP/SIMX)</del> See Trimethoprim/Sulfameth oxazole											
Bevacizumab ophthalmic/intravitreal	2.5 mg/0.1 mL			draw dose from vial into 0.3 mL syringe with 31-gauge needle; split dose into 2 syringes, one for each eye		Genentech	25 mg/mL - 4 mL	n/a	6 h		I, Genentech (c. 9.23.2022)
Bivalirudin	1 mg/mL syringe and IVPB in NS or D5W	24 h				Sandoz	250 mg	5 mL SWFI	24 h		I, Sandoz (c. 6.2019)
Bumetanide Injection	0.25 mg/mL		24 h	draw dose into syringe from vial		Hospira	0.25 mg/mL 4 mL, 10 mL	n/a	6 h		I, Hospira (c. 3.2021); Cornish LA, Montgomery PA, Johnson CE. Stability of bumetanide in 5% dextrose injection. Am J Health Syst Pharm. 1997 Feb 15;54(4):422-3. doi: 10.1093/ajhp/54.4.422. PMID: 9043565
Bumetanide Infusion	0.04 mg/mL in NS		24 h	admix in NS		Hospira	0.25 mg/mL 4 mL, 10 mL	n/a	6 h		USP, I, Hospira (c. 3.2021); Cornish LA, Montgomery PA, Johnson CE. Stability of bumetanide in 5% dextrose injection. Am J Health Syst Pharm. 1997 Feb 15;54(4):422-3. doi: 10.1093/ajhp/54.4.422. PMID: 9043565.
Bumetanide Infusion	0.25 mg/mL		24 h	straight draw from vial		Hospira	0.25 mg/mL 4 mL, 10 mL	n/a	6 h		I, Hospira (c. 3.2021); Cornish LA, Montgomery PA, Johnson CE. Stability of bumetanide in 5% dextrose injection. Am J Health Syst Pharm. 1997 Feb 15;54(4):422-3. doi: 10.1093/ajhp/54.4.422. PMID: 9043565
Caffeine citrate	20 mg/mL		24 h	straight draw from vial		Sagent	20 mg/mL 3 mL	n/a	6 h		I, Sagent (c. 3.2020)
Calcium chloride	20 mg/mL NS		30 h			American Regent, IMS	100 mg/mL 10 mL	n/a			USP, I, American Regent (c. 2017) PI, IMS (c. 12.2021)
Calcium gluconate	20 mg/mL NS		immediate use 1 h	admix in NS; use immediately		Fresenius Kabi	100 mg/mL 10 mL	n/a	4 h		I, Fresenius Kabi (c. 7.2018)
Cefazolin	40 mg/mL D5W	24 h		draw dose into syringe from 2 g/50 mL IVPB		B.Braun	2 g DUPLEX IVPB	n/a	6 h		I, Bbraun (c. 7.2021)
Cefazolin	40 mg/mL NS or D5W	24 h		follow prep instructions to prepare dilution; draw dose into syringe or IVPB from dilution as directed		Westward	1 g 2 g	1 g - 9.5 mL SWFI 2 g - 19 mL SWFI	6 h		I, Westward, Apotex (c. 2018, 8.2022)

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Cefazolin - IM	330 mg/mL	24 h		follow prep instructions to prepare dilution; draw dose into syringe or IVPB from dilution as directed		Westward	1 g	1 g - 2.5 mL SWFI (PF)	6 h		I, Westward, Apotex (c. 2018, 8.2022)
Cefepime	40 mg/mL D5W		12 h	draw dose into syringe from 2 g/50 mL IVPB		B.Braun	2 g DUPLEX IVPB	n/a	6 h		I, Bbraun (c. 11.2018)
Cefepime	40 mg/mL NS	24 h		follow prep instructions to prepare dilution; draw dose into syringe or IVPB from dilution as directed		Apotex	1 g 2 g	1 g - 10 mL SWFI 2 g - 20 mL SWFI	6 h		I, Apotex (11.2021)
Cefotetan	40 mg/mL D5W		12 h	draw dose into syringe from 2 g/50 mL IVPB		B.Braun	2 g DUPLEX IVPB	n/a	6h		I, B. Braun (7.2021)
Cefotetan	40 mg/mL NS		24 h	follow prep instructions to prepare dilution; draw dose into syringe or IVPB from dilution as directed		Fresenius Kabi	1 g 2 g	1 g - 9.5 mL SWFI 2 g - 19 mL SWFI			
Cefoxitin	40 mg/mL D5W		12 h	draw dose into syringe from 2 g/50 mL IVPB		B.Braun	2 g DUPLEX IVPB	n/a	6 h		I, B.Braun (7.2019)
Cefoxitin	40 mg/mL NS	18 h		follow prep instructions to prepare dilution; draw dose into syringe or IVPB from dilution as directed		Sagent	1 g 2 g	1 g - 9.5 mL SWFI 2 g - 19 mL SWFI	6 h		M, I, Sagent (c. 9.2018)
Ceftaroline (Teflaro)	12 mg/mL NS		6 h	draw dose into syringe from reconstituted vial	Refrigerate	Allergan	400 mg	20 mL SWFI	6 h	yes	I, Allergan (c. 12.2021)
Ceftazidime - IV-NEONATES ONLY	40 mg/mL D5W		12 h	follow prep instructions to prepare dilution; draw dose into syringe or IVPB from dilution as directed		Sagent	1 g	10 mL SWFI	6 h		I, Sagent (c. 8/2020)
Ceftazidime - IM - NEONATES ONLY	280 mg/mL SWFI or 1% Lidocaine	12 h		draw dose into syringe from reconstituted vial		Sagent	1 g	3 mL SWFI or Lidocaine 1%	6 h		I, Sagent (c. 8/2020)
Ceftriaxone	40 mg/mL D5W	48 h		draw dose into syringe from 2 g/50 mL IVPB		B.Braun	2 g DUPLEX IVPB	n/a	6 h		USP, I, B.Braun (1.2022)
Ceftriaxone	40 mg/mL NS or D5W	48 h		follow prep instructions to prepare dilution; draw dose into syringe or IVPB from dilution as directed		Sandoz	1 g 2 g	1 g - 9.6 SWFI 2 g - 19.2 mL SWFI	6 g		I, Sandoz/Hospira (c. 6.2017)
Ceftriaxone (Rocephin) - IM	350 mg/mL SWFI or 1%lidocaine	24 h		draw dose into syringe from reconstituted vial		Sandoz	250 mg 500 mg 1 g 2 g	For 250 mg/ mL: 250 mg- 0.9 mL For 350 mg/mL: 500 mg - 1 mL 1 g - 2.1 mL 2 g - 4.2 mL	6 h		I, Sandoz/Hospira (c. 6.2017)
Chlorothiazide	28 mg/mL	immediate use 1 h		draw dose into syringe from reconstituted vial		Sagent	500 mg	18 mL SWFI	1 h	yes	I, Sagent (c. 7.2014)
Cidofovir	Manufacturer recommends 100 mL NS; 6 mg/mL NS syringe	24 h FRIDGE		Must be handled, prepared and administered as ANTINEOPLASTIC drug per manufacturer safe handling guidelines. Do not tube.	Hazardous Drug; refrigerate	Avet Pharma	75 mg/mL 5 mL	n/a	6 h	yes	I, Avet Pharma (c. 12/2020)
Ciprofloxacin	2 mg/mL in D5W		24 h	draw dose into syringe from 2 mg/mL premix IVPB		Sagent	400 mg/200 mL IVPB 200 mg/100 mL IVPB	n/a	6 h		T, I, Sagent (c. 8.2020)
Cisatracurium	1 mg/mL in NS		30 h	admix in NS		Fresenius Kabi Sandoz AbbVie	10 mg/mL 20 mL	n/a	6 h		USP, T, I AbbVie (c.2019) I, Sandoz (5.2020) I, Fresenius Kabi (c.7.2016)
Clindamycin	18 mg/mL in D5W		30 h	draw dose from 900 mg/50 mL IVPB		Baxter	900 mg/50 mL IVPB	n/a	6 h		USP, I, Baxter (c. 2020)
Colistimethate (Colistin) - INHALED	75 mg/mL in SWFI		24 h	in sterile environment, draw dose from vial into Aerogen syringe	For inhalation only	Xellia	150 mg	2 mL SWFI	6 h	yes	I, Xellia (c. 7.2017)
Cosyntropin	5 mcg/mL in NS	12 h		draw dose into syringe from reconstituted vial		Sandoz	250 mcg	1 mL NS			F&C, I, Sandoz (c. 2012)
Cyclosporine	0.5-2.5 mg/mL in D5W or NS	24 h		Admix in Non-PVC container NS or D5W; use filter needle ; Do not tube	Hazardous drug	Novartis	50 mg/mL 5 mL Ampule	n/a	1 h	yes	I, Novartis (c.6.2022)

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Deferoxamine	Up to 20 mg/mL in NS or D5W		24 h	admix in NS or D5W; Do not refrigerate		Apotex	500 mg, 2000 mg	500 mg - 5 mL SWFI 2000 mg - 20 mL SWFI	3 h	yes	I, Apotex (c. 9.2021)
Defibrotide	10 - 20 mg/mL in NS or D5W		4 h	can make up to 4 doses from one vial and store in refrigerator up to 24 hours		Jazz	80 mg/mL 2.5 mL	n/a	6 h	yes	I, Jazz Pharmaceuticals (c. 2016)
Desmopressin (DDAVP) IV	up to 0.5 mcg/mL in NS	immediate use 1 h		admix in NS		Amring	4 mcg/mL 1 mL	n/a	1 h	yes	I, Amring (c. 2.2020)
Dexamethasone	0.02 mg/mL 0.4 mg/mL in NS	24 h		C&R to prepare compound		Hikma	4 mg/mL	n/a	6 h		I (Hikma c.(12.2019), USP
Dexmedetomidine	4 mcg/mL in NS		48 h	admix in NS		Accord	100 mcg/mL 2 mL	n/a	6 h		T
Digoxin	10 mcg/mL NS	immediate use 1 h		C&R to prepare compound ; Do not refrigerate		Westward	500 mcg/2 mL ampule (protect from light)	n/a	Immediate use		I (Westward c 2017), USP, Neofax (accessed 6.2022)
Dobutamine	2 mg/mL in D5W	24 h		admix in D5W		Hospira	12.5 mg/mL 20 mL	n/a	6 h		I, Hospira (c. 11.2019)
Dopamine	1.6 - 3.2 mg/mL in D5W, D10W, NS		24 h	admix in D5W, D10W or NS or draw dose into syringe from premix infusion		Hospira	40 mg/mL 10 mL	n/a	1 h		I, Hospira (c. 5.2020)
Doxycycline	0.1-1 mg/mL in NS or D5W		48 h	admix in NS or D5W, use filter needle	Protect from light	Fresenius Kabi	100 mg	10 mL SWFI	6 h		I, Fresenius Kabi (c. 6.2020)
Electrolyte Combinations (DKA fluids, chemo post-hydration, etc)			30 h								USP
Custom Epidural			30 h								USP
Enoxaparin	100 mg/mL		48 h	do not tube; straight draw from vial		Fresenius Kabi	100 mg/mL 3 mL	n/a	28 d		T, USP, I Fresenius Kabi (c. 2020)
Epinephrine	20-40 mcg/mL in NS	48 h		admix in NS	Protect from light	Par	1 mg/mL	n/a	28 d		I, Par (c. 1.2019); Allwood MC. The stability of four catecholamines in 5% glucose infusions. J Clin Pharm Ther. 1991 Oct;16(5):337-40. doi: 10.1111/j.1365-2710.1991.tb00322.x. PMID: 1752912.
Epoprostenol (arginine) for Injection	15 -30 mcg/mL in NS		concentration dependent	see epoprostenol handout and PI; dispense with 0.22 micron filter; mix to exact volume. Do not tube	Filter	Actelion	0.5 mg 1.5 mg	0.5mg-5mL NS or SWFI 1.5mg-5mL NS or SWFI	immediate use	yes	I, Actelion (c. 7.2016)
Epoprostenol for Inhalation	2.5 - 30 mcg/mL in NS		48 h	See Epoprostenol Handout and PI Use Aerogen syringe Mix to exact volume. Do not tube		Actelion	0.5 mg 1.5 mg	0.5mg-5mL NS or SWFI 1.5mg-5mL NS or SWFI	immediate use		I, Actelion (c. 7.2016)
Ertapenem - IV	20 mg/mL in NS	24 h FRIDGE		draw dose into syringe from reconstituted vial - see prep instructions	refrigerate	Auromedics	1 g	10 mL SWFI	6 h		I, AuroMedics (c. 5.2022)
Ertapenem - IM	280 mg/mL in 1 % lidocaine	1 h		draw dose into syringe from reconstituted vial		Auromedics	1 g	3.2 mL 1% lidocaine	1 h		I, AuroMedics (c. 5.2022)
Erythromycin	5 mg/mL in NS	8 h		draw dose into syringe from reconstituted vial	Do not refrigerate	Hospira	500 mg	10 mL SWFI	6 h		I, Hospira (c. 11.2019)
Erythropoietin alfa - epx (Retacrit)	Various strengths	24 h		straight draw from vial use only single dose vial in neonates	Do not tube	Pfizer	2000 unit 20000 unit	n/a	SDV - 1 h MDV - 21 d		USP
Ethacrynic acid	1 mg/mL in NS	24 h		draw dose from reconstituted vial		Patheon	50 mg	50 mL NS	6 h		
Famotidine	0.4 mg/mL		30 h	admix in NS		Fresenius Kabi	10 mg/mL 2 mL	n/a	6 h		I, Fresenius Kabi, USP 797 (c. 4.2021)
Fentanyl	10 mcg/mL		48 h	admix in syringe		Hospira	100 mcg - 2 mL 250 mcg - 5 mL 500 mcg - 10 mL 1000 mcg - -20 mL	n/a	6 h		Extended Stability for Parenteral Drugs 6th Edition, 2017. Ed. Bing, CD et. al. ASHP, 4500 East-West Highway, Suite 900, Bethesda, MD 20814

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Filgrastim - aafi (Nivestym)	300 mcg/mL 600 mcg/mL		24 h	draw dose from vial or pre-filled syringe Note concentration difference vial to syringe		Pfizer	300 mcg/mL vials 600 mcg/mL PFS	n/a	6 h		I, Pfizer (c. 4.2021)
Fluconazole	2 mg/mL		48 h	draw dose into syringe from 2 mg/mL premix IVPB	hazardous drug	Sagent	200 mg in 100 mL IVPB 400 mg in 200 mL IVPB	n/a	6 h		I, Sagent (c. 11.2020)
Fomepizole	10-15 mg/mL in NS	24 h		admix in NS		American Regent	1 g/mL 1.5 mL	n/a	6 h		I, American Regent (c. 11.2020)
Foscarnet	12 mg/mL (peripheral) in NS	24 h				Fresenius Kabi	24 mg/mL 250 mL	n/a	6 h		I, Fresenius Kabi (c. 6.2021)
Foscarnet	24 mg/mL (central)	24 h		draw dose into syringe		Fresenius Kabi	24 mg/mL 250 mL	n/a	6 h		I, Fresenius Kabi (c. 6.2021)
Fosphenytoin	25 mgPE/mL in NS or D5W		48 h	admix in NS or D5W. Do not tube	Hazardous drug	Pfizer	50 mgPE/mL 2 mL, 10 mL	n/a	6 h		I, Pfizer (c. 2.2021)
Furosemide infusion	2 mg/mL in NS		30 h	Follow prep instructions to admix in NS		Hospira	10 mg/mL - 2 mL, 4 mL, 10 mL vial sizes (protect from light)	n/a	6 h		I, Hospira (c. 5.2018); van der Schaar JAJ, Grouls R, Franssen EJJ, Crul M. Stability of Furosemide 5 mg/mL in Polypropylene Syringes. Int J Pharm Compd. 2019 Sep-Oct;23(5):414-417. PMID: 31513540.
Furosemide injection and concentrated infusion	10 mg/mL		30 h	draw dose into syringe from vial		Hospira	10 mg/mL - 2 mL, 4 mL, 10 mL vial sizes (protect from light)	n/a	6 h		I, Hospira (c. 5.2018)
Furosemide Injection	5 mg/mL in NS		30 h	Use C&R to prepare compound. Draw dose into syringe from repackaged syringe		Hospira	10 mg/mL - 2 mL, 4 mL, 10 mL vial sizes (protect from light)	n/a	6 h		I (Hospira c. 5.2018); van der Schaar JAJ, Grouls R, Franssen EJJ, Crul M. Stability of Furosemide 5 mg/mL in Polypropylene Syringes. Int J Pharm Compd. 2019 Sep-Oct;23(5):414-417. PMID: 31513540. Van der Schaar JAJ, Grouls R, Franssen EJJ, Crul M. Stability of Furosemide 5 mg/mL in Polypropylene Syringes. Int J Pharm Compd. 2019 Sep-Oct;23(5):414-417. PMID: 31513540.
Ganciclovir	5 mg/mL NS	24 h FRIDGE		admix in NS; do not use bacteriostatic NS to dilute. Must be handled, prepared and administered as ANTINEOPLASTIC drug per manufacturer safe handling guidelines. Do not tube.	Hazardous drug; refrigerate	Fresenius Kabi	500 mg	10 mL SWFI	6 h	yes	T
Gentamicin - IV	5 mg/mL NS	24 h		admix in NS		Fresenius Kabi	10 mg/mL - 2 mL	n/a	6 h		M, I, Fresenius Kabi (c. 10.2019)
Gentamicin - IM	10 mg/mL neonate 40 mg/mL pediatric	24 h				Fresenius Kabi	10 mg/mL - 2 mL 40 mg/mL - 2 mL; 20 mL	n/a	6 h		USP, I, Fresenius Kabi (c. 10.2019)
Gentamicin Intrathecal	5 mg/mL NS		immediate use 1 h			Fresenius Kabi	10 mg/mL - 2 mL	n/a	immediate use	yes	F&C, I, Fesenius Kabi (c. 10.2019)
Heparin infusion (syringe)	100 units/ mL ND or D5W	24 h		admix in NS, D5W, 0.45% , or D10W		Fresenius Kabi	1000 units/mL 1 mL, 2 mL 5000 units/mL 1 mL, 2 mL 10000 units/mL 1 mL, 2 mL	n/a	6 h		M; USP, I, Fresenius Kabi (c. 10.2020)
Heparin 10 unit/mL 1 mL special flush for NICU	10 unit/mL		30 h	draw dose (1 mL) into 10 mL syringe from heparin 10 unit/mL BLUE flush syringe		Medefil	10 unit/mL 5 mL	n/a	6 h		USP; I, Medefil (c. 12.2016)



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Hydrocortisone	0.5 mg/mL		4 h	C&R to prepare 10 mg/mL compound ; follow prep instructions to further dilute to 0.5 mg/mL. Draw dose into syringe from 0.5 mg/mL preparation		Pfizer	00 mg Act-O-Vial (2 mL diluent), 50 mg/mL	Add 2 mL bacteriostatic water dilution contents from Act-O-Vial	3 d RT Protect from Light		I (Pfizer c. 5.2021)
Hydrocortisone	10 mg/mL		24 h	C&R to prepare 10 mg/mL compound ; draw dose into syringe from compounded dilution		Pfizer	100 mg Act-O-Vial (2 mL diluent), 50 mg/mL	Add 2 mL bacteriostatic water dilution contents from Act-O-Vial	3 d RT Protect from Light		I (Pfizer c. 5.2021), T, Gupta VD, Ling J. Stability of hydrocortisone sodium succinate after reconstitution in 0.9% sodium chloride injection and storage in polypropylene syringes for pediatric use. Int J Pharm Compd. 2000 Sep-Oct;4(5):396-7. PMID: 23981703.
Hydromorphone	0.2 mg/mL NS		48 h	Admix in NS		Hospira	10 mg/mL 1 mL, 5 mL, 50 mL	n/a	6 h		I, Hospira (c. 7.2020), T
Ibuprofen Lysine	4 mg/mL in D5W (default) or NS	immediate use 1 h		Medication to be delivered within 15-30 minutes of due time and infused within 60 minutes. Contact pharmacy if known delays in administering dose.		X-Gen Pharm	10 mg/mL 2mL	n/a	immediate use; 1 h	yes	I (XGen c.1.2020), T
Immune Globulin (IVIG)	100 mg/mL		8 h	Do not dilute, transfer pooled doses from bottle to sterile empty container		CSL Behring	100 mg/mL 50 mL, 100 mL, 200 mL, 400 mL	n/a	immediate use	yes	I, CSL Behring (c. 3.2019)
Indomethacin	0.5 mg/mL NS		30 h	Draw dose into syringe from reconstituted vial		Fresenius Kabi	1 mg	2 mL NS PF	6 h	yes	USP, I, Fresenius Kabi (c. 11.2016); Walker SE, Gray S, Schmidt B. Stability of reconstituted indomethacin sodium trihydrate in original vials and polypropylene syringes. Am J Health Syst Pharm. 1998 Jan 15;55(2):154-8. doi: 10.1093/ajhp/55.2.154. PMID: 9465980.
Infliximab	0.4-4 mg/mL NS		3 h	admix in NS; See PI for admixture details: Use 21 g needle or smaller, gently swirl vials, do NOT shake. Mix in NS only. Dispense with 1.2 micron or smaller filter; do not tube	Filter	Janssen	100 mg	10 mL SWFI	immediate use	yes	I, Janssen (c. 5.2020)
Infliximab-dyyb	0.4-4 mg/mL NS		3 h	admix in NS; See PI for admixture details: Use 21 g needle or smaller, gently swirl vials, do NOT shake. Mix in NS only. Dispense with 1.2 micron or smaller filter; Do not tube	Filter	Pfizer	100 mg	10 mL SWFI	immediate use	yes	I, Pfizer (c. 11.2019)
Insulin (0-5 kg)	0.2 unit/ mL NS	24 h		C&R to prepare dilution. Use prepared dilution to admix following prep instructions.		Novo Nordisk	100 unit/mL 10 mL	n/a	6 h		I, Novo Nordisk (c. 11.2019)
Insulin (Peds) 1 unit/mL	1 unit/mL NS	24 h		admix in NS		Novo Nordisk	100 unit/mL 10 mL	n/a	6 h		I, Novo Nordisk (c. 11.2019)
Iron Sucrose	1 mg/mL syringe 100-199 mg in 100 mL IVPB >200 mg in 250 mL IVPB NS		48 h	admix in NS		American Regent	20 mg/mL 5 mL	n/a	6 h		USP, I, American Regent (c. 10.2020)
Isoproterenol (Isuprel)	10 - 20 mcg/mL D5W or NS		24 h	admix in NS; admix in D5W or NS; Do not use the injection if its color is pinkish or darker than slightly yellow or contains precipitate		Nexus	0.2 mg/mL 1 mL, 5 mL	n/a	6 h		F&C, I, Nexus (c. 6.2020), T
Ketamine	10 mg/mL		30 h	draw dose from 10 mg/mL vial		Par	10 mg/mL 20 mL	n/a	6 h		USP Bing, Caryn Dellamorte, and Anna Nowobilski-Vasilios, eds. Extended stability for parenteral drugs. ASHP, 2017.
Labetalol	1 mg/mL	24 h		admix in NS		Hospira	5 mg/mL 20 mL, 40 mL	n/a	6 h		T, I Hospira (c.4.2018)

Drug	Standard Diluent and Concentration	Expiration Discard by	BUD Room Temp	Special Instructions	Aux Labels	Manufacturer	Vial Size	Vial Reconstitution	Vial Exp Refrig unless noted	Confirm prior to Mixing	Reference I=Insert, T=Trissel, M=MicroMedex, A=Article, F&C=Fact and Comparisons
Labetalol	5 mg/mL	24 h		draw dose into empty bag from 5 mg/mL vial		Hospira	5 mg/mL 20 mL, 40 mL	n/a	6 h		USP, I Hospira (c. 4.2018)
Lacosamide	4-5 mg/mL in NS		4 h	admix in NS; do not tube		Fresenius Kabi	10 mg/mL, 20 mL	n/a	1 h		I, Fresenius Kabi (c. 6.30.2022)
Leucovorin	10 mg/mL SWFI	immediate use; 1 h				Sagent	50 mg 100 mg 200 mg	5 mL SWFI PF 10 mL SWFI PF 20 mL SWFI PF	immediate use		I, Sagent (c. 9.2019)
Levetiracetam	Maintenance: 5-15 mg/mL D5W Load: 100 mg/mL		24 h	admix in D5W (maintenance) or draw dose from vial into syringe (load)		Hospira	100 mg/mL 5 mL, 10 mL	n/a	6 h		I, Hospira (c. 11.2021)
Levofloxacin	5 mg/mL in D5W		30 h	Draw dose into syringe from 5 mg/mL premix IVPB		Westward	500 mg/100 mL premix IVPB	n/a	6 h		T, I, Westward (c. 2019)
Levothyroxine infusion	0.4 mcg/mL NS	16 h		Admix in NS		Fresenius Kabi	100 mcg	5 mL NS	4 h		T,I, Fresenius Kabi (c. 6.2017);.
Levothyroxine syringe	20 mcg/mL	4 h		draw dose into syringe from reconstituted vial		Fresenius Kabi	100 mcg	5 mL NS	4 h		I, Fresenius Kabi (c. 6.2017)
Linezolid	2 mg/mL		30 h	Draw dose into syringe from 2 mg/mL premix IVPB		Piramal	2 mg/mL 300 mL premix IVPB	n/a	6 h		USP, I, Piramal (c. 5.2022)
Lipid (e.g. ILE, SMOF lipid, Nutrilipid syringes)	20% (200 mg/mL)		24 h FRIDGE	Draw dose into syringe from pre-mixed IVPB; Overfill: Dose volume ≤ 2 mL: Draw 3 mL into a 2 mL syringe; All other dose volume + additional 5 mL overfill rounded to the nearest mL ; protect from light (NICU only)	Refrigerate; filter	Fresenius Kabi (SMOF) Baxter (Nutrilipid)	20% 250 mL, 500 mL	n/a	6 h		USP, I, Fresenius Kabi (c. 1.2021) I, Baxter (c. 10.2020)
Magnesium Sulfate	40 mg/mL SWFI or D5W		48 h	Draw dose into syringe from premix 2 g/50 mL IVPB		WG	500 mg/mL 2 mL, 10 mL	n/a	6 h		USP, I, WG (c.8.2017)
Meropenem	20 mg/mL NS		24 h FRIDGE	admix in NS	Refrigerate	Fresenius Kabi	500 mg 1 g	10 mL SWFI 20 mL SWFI	3 h		I, Fresenius Kabi (c. 3.2021)
Mesna	up to 20 mg/mL in D5W or NS	24 h		admix in D5W or NS		Fresenius Kabi	100 mg/mL	n/a	6 h		I, Fresenius Kabi (c. 4/2019)
Metoclopramide	5 mg/mL		24 h	draw dose into syringe from vial		Hospira	5 mg/mL 2 mL	n/a	6 h		USP, I, Hospira (c. 4.2018)
Methadone	1 mg/mL NS		30 h	admix in NS		Mylan Akorn	10 mg/mL 20 mL MDV	n/a	28 d		USP, M, T, Mylan (c. 5.2022) I, Akorn (c.7.2022)
Methylprednisolone syringe	10 mg/mL NS	24 h FRIDGE	4 h	Use preservative free (Act-o-Vial) in neonates; admix in NS	Refrigerate	Pharmacia and Upjohn	40 mg/mL	1 mL accompanying diluent	48 h		I, Pharmacia & Upjohn (c. 11.2021)
Metronidazole	5 mg/mL NS		30 h	draw dose into syringe from 500 mg/100 mL premix IVPB		Baxrer	5 mg/mL 100 mL premix IVPB	n/a	6 h		USP, I, Baxter (3.2021)
Micafungin	syringe: 1 mg/mL IVPB: in 100 mL NS	24 h		use prep instructions to prepare, note concentration of reconstituted product	Protect from light	Fresenius Kabi	50 mg 100 mg	5 mL NS	24 h		I, Fresenius Kabi (c. 1.2020)
Midazolam	0.5 mg/mL NS (neonate) 1 mg/mL (pediatric) NS, or D5W	24 h		admix in NS or D5W		Hospira	5 mg/mL 2 mL, 10 mL	n/a	6 h		I, Hospira (c. 8.2022)
Morphine (NICU, PICU) IV syringe infusion	0.1 mg/mL (neonate) 0.5 mg/mL (pediatric) NS, D5W, D10W		48 h	admix in NS, D5W or D10W		Hikma	10 mg/mL 1 mL	n/a	6 h		T, I, Hikma (c. 6.2019)
Morphine 1 mg/mL	1 mg/mL NS or D5W		48 h	Premix preferred; admix in NS or D5W		Hospira	50 mg/mL 20 mL, 50 mL	n/a	6 h		T, I, Hospira (c. 9.2021)
Naloxone	40 mcg/mL NS	24 h		admix in NS		Mylan	0.4 mg/mL 1 mL SDV 0.4 mg/mL 10 mL MDV	n/a	6 h SDV 28 d MDV		F&C; I, Mylan (c. 8.2020)
Nitroglycerin	200-400 mcg/mL NS or D5W		Non-PVC: 24 h glass: 48 h	admix in NS or D5W; Mix in Non-PVC container or glass		American Regent	5 mg/mL 10 mL	n/a	6 h		T, I, American Regent (c. 2019)
Nitroprusside	0.2 mg/mL D5W	24 h		Admix in D5W; protect from light	Protect from light	Xiromed	25 mg/mL 2 ml	n/a	6 h		I, Xiromed (c. 9.2020)
Norepinephrine	32 mcg/mL D5W	24 h		admix in D5W; protect from light	Protect from light	Mylan	1 mg/mL 4 mL	n/a	6 h		I, Mylan (c. 10.2021)

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Octreotide	10 mcg/mL NS	24 h		admix in NS		Fresenius Kabi	100 mcg/mL 200 mcg/mL 500 mcg/mL	n/a	6 h		I, Fresenius Kabi (c. 4.2020)
Oxacillin	20 - 30 mg/mL NS		48 h	admix in NS		Sagent	1 g 2 g	10 mL SWFI 20 mL SWFI	6 h		I, Sagent (c. 2.2018)
Pantoprazole	4 mg/mL NS	24 h		Draw dose into syringe from reconstituted vial		Hikma	40 mg	10 mL NS	6 h		I, Hikma (c.3.2022)
Penicillin G	60,000 units/mL D5W		24 h	Draw dose into syringe from premix IVPB		Baxter	60,000 unit/mL 50 mL premix IVPB	n/a	6 h		I, Baxter (c. 5.2021)
Pentamidine	up to 6 mg/mL D5W	24 h		admix in D5W only		APP	300 mg	3 mL SWFI	6 h		I, APP (c.
#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
Pentobarbital	5 mg/mL NS	24 h		Admix in NS; Do not refrigerate		Akron	50 mg/mL 20 mL, 50 mL	n/a	28 d		I, Akron (c. 7.2022) Walker SE, Iazzetta J. Compatibility and stability of pentobarbital infusions. Anesthesiology. 1981; 55:487-9
Phenobarbital	10 mg/mL NS		30 h	C&R to prepare compound, draw dose from repackage syringe		Cameron	65 mg/mL 1 mL 130 mg/mL/ 1 mL	n/a	6 h		M, USP, I, Cameron (c. 2.2020)
Phenylephrine	200 mcg/mL NS or D5W		4 h	admix in NS or D5W; prefer premix		Meitheal, Sandoz	10 mg/mL 1 mL, 5 mL, 10 mL	n/a	6 h	yes	I, Meitheal (c. 11.2019) I, Sandoz (c. 11.2019)
Phytonadione	0.5 mg/mL NS		2 h	admix in NS; protect from light; filter ampule	Protect from light	Hospira	10 mg/mL 1 mL	n/a	1 h	yes	I, Hospira (c. 4.2021); T
Potassium chloride	Central: 0.4 mEq/mL Peripheral: 0.1 mEq/mL		48 h	draw dose into syringe from premix IVPB	High alert medicaton	Baxter	0.4 mEq/ mL 50 mL, 100 mL 0.1 mEq/mL 100 mL	n/a	6 h		USP, I, Baxter (c. 12.2016)
Potassium phosphate	0.05 mM P/mL - peripheral 0.12 mM P/mL - central IVPB when > 50 mL NS or D5W		48 h	C&R to prepare compound. Draw dose from repackage		Hospira	3 mM P (4.4 mEq K+)/mL 15 mL	n/a	6 h		USP, M, I, Hospira (c. 6.2017)
Rasburicase	up to 0.12 mg/mL NS	24 h FRIDGE		admix in NS 50 mL IVPB	Refrigerate do not shake do not tube	Sanofi-Aventis	1.5 mg	1 mL manufacturer supplied diluent	6 h		M, I, Sanofi-Aventis (c. 2019)
Remdesivir	1.25 mg/mL NS	1 h - syringe 24 h - bag		Select bag or syringe to yield 1.25 mg/mL concentration; admix in NS		Gilead	100 mg	19 mL SWFI	1 h		I, Gilead (c.2021)
Rifampin	syringe - 6 mg/mL NS IVPB - up to 6 mg/mL NS	6 h		follow prep instructions to prepare dilution; draw dose into syringe or IVPB from dilution as directed; Do not refrigerate		Sanofi-Aventis	600 mg	10 mL SWFI	6 h		I, Sanofi (c. 1.2022)
Rituximab	1 - 4 mg/mL NS or D5W		24 h	admix in NS or D5W; do not shake; do not tube		Genentech	100 mg/mL 10 mL, 50 mL	n/a	1 h	yes	I, Genentech (c.9.2019)
Rituximab-pvvr	1 - 4 mg/mL NS or D5W	8 h		admix in NS or D5W; *BUD- 24 h in RFG, infuse within 8 hours of removal from fridge; do not tube		Pfizer	100 mg/mL 10 mL, 50 mL	n/a	1 h	yes	I, Pfizer (11.2021)
Sargramostim	Syringe: at least 10 mcg/mL in NS; if <10 mcg/mL, add albumin		48 h	admix in NS; do not shake or tube	Refrigerate	Partner	250 mcg	1 mL SWFI	6 h	yes	I, Partner (c. 5.2018); T
Sildenafil	0.8 mg.mL		30 h	draw dose into syringe from vial		AuroMedics	0.8 mg.mL 12.5 mL	n/a	6 h		USP, I, AuroMedics (c. 7.2019)



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Sodium phosphate	0.05 mM P/mL - peripheral 0.12 mM P/mL - central IVPB when > 50 mL NS or D5W		30 h	C&R to prepare compound. Draw dose from repackage		Hospira	3 mM P (4 mEq Na)/ mL 15 mL	n/a	6 h		USP, I, Hospira (c. 1.2018); Perks W, Iazzetta J, Chan PC, Brouzas A, Law S, Walker SE. Extended Stability of Sodium Phosphate Solutions in Polyvinyl Chloride Bags. Can J Hosp Pharm. 2017 Jan-Feb;70(1):7-12. doi: 10.4212/cjhp.v70i1.1622. Epub 2017 Feb 28. PMID: 28348427; PMCID: PMC5358065.
Terbutaline	1000 mcg/mL		30 h	draw dose into syringe from vial; protect from light		Fresenius Kabi	1 mg/mL 2 mL	n/a	1 h		M, I, Fresenius Kabi (c. 7.2022)
Tobramycin	5 mg/mL NS		24 h	Admix in NS		Fresenius Kabi	40 mg/mL 2 mL	n/a	6 h		F&C, M, I, Fresenius Kabi (c. 4.2018)
Treprostinil	5 mcg/mL NS	(A) SWFI or NS - 48 h FRIDGE (B) approved diluent - 48 h FRIDGE		Mix to exact volume in syringe or CADD. Ensure use of correct concentration vial - concentrations vary!	Refrigerate	Teva	1 mg/mL 20 mL MDV 2.5 mg/mL 20 mL MDV 5 mg/mL 20 mL MDV 10 mg/mL 20 mL MDV	SWFI, NS or or approved high-pH glycine diluent	28 d		I, Teva (c. 5.2022)
Trimethoprim/Sulfamethoxazole	(A) 0.64 mg/mL syringe, IVPB (B) 1.07 mg/mL, concentrated Admix in D5W only	(A) 6 h (B) 2 h		Mix in non-PVC container; Do not refrigerate		Mylan, Teva	TMP/SMX 480 mg/2400 mg 30 mL MDV	n/a	48 h		I, Mylan, Teva (c. 6.2021, 4.2019)
Unasyn - see ampicillin/sulbactam	above										
Valproate	50 mg/mL in NS or D5W		24 h	admix in NS or D5W; do not tube	Hazardous drug	WestWard	100 mg/mL 5 mL	n/a	6 h		I, WestWard (c. 7.2020)
Vancomycin	5 mg/mL NS		24 h FRIDGE	C&R to prepare compound	refrigerate	Hospira	5 mg/mL repackage	n/a	6 h		I, Hospira (c. 3.2021)
Vasopressin	0.2 units/mL (pressor) 0.01 units/mL; 0.05 units/mL (DI) NS or D5W		18 h	admix in NS or D5W		Eagle	20 units/mL 1 mL	n/a	6 h		I, Eagle (c. 6.2021)
Vecuronium	1 mg/mL NS	24 h		admix in NS	Refrigerate	Sun	10 mg 20 mg	10 mL SWFI 20 mL SWFI	6 h		I, Sun (c. 6.2018)
Voriconazole	2 mg/mL D5W	24 h FRIDGE		follow prep instructions to prepare dilution; draw dose into syringe or IVPB from dilution as directed; do not tube	Hazardous drug Refrigerate	Pfizer	200 mg	19 mL SWFI	6 h		T, I, Pfizer (c. 1.2021)
Zidovudine	4 mg/mL in D5W	8 h		admix in D5W; do not tube	Hazardous drug	ViiV	10 mg/mL 20 mL	n/a	6 h		I, ViiV (c/ 2020)