BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART						
DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Leucovorin 50 mg/5 mL 200 mg/20 mL 1000 mg/100 mL (GMP) (F)(PFL) no preservative[1]	N/A	10 mg/mL[1]	50 mg: discard unused portion[1,2] 200 mg,1000 mg: 8 h F[1,2]	syringe	8 h RT[1,2]	
				0.05-10 mg/mL NS, D5W, Ringer's, LR, D10W, D5-NS[1,2] 50-250 mL†	**NS**, D5W, LR, Ringer's: 24 h RT[1] D10W, D5-NS: 8 h RT[1]	
Leucovorin 50 mg/5 mL 500 mg/50 mL (Pfizer/Hospira) (F)(PFL) no preservative[3]	N/A	10 mg/mL[3]	8 h[3]	syringe	8 h RT[3]	
				0.05–10 mg/mL **NS**, D5W, LR, Ringer's, D10W, D5NS[3] 50-250 mL†	**NS**, D5W, LR, Ringer's: 24 h RT[3] D10W, D5NS: 8 h RT[3]	

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Leucovorin 50 mg/5 mL 500 mg/50 mL (Teva) (F)(PFL) no preservative[4]	N/A	10 mg/mL[5]	discard unused portion[5]	syringe	8 h[6,7]	
				0.4 - 4.8 mg/mL **NS**, D5W[8] 50-250 mL†	72 h **F**, RT[8]	
				0.06 - 0.4 mg/mL **NS**, D5W[4] 50-250 mL†	**NS**: 24 h RT[4] D5W: 12 h RT[4]	
				0.06 - 1 mg/mL Ringer's, Lactated Ringer's, D10W, D10-NS[4]	Ringer's, LR: 24 h RT[4] D10W: 12 h RT[4] D10NS: 6 h RT[4]	

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Lurbinectedin 4 mg (Jazz) (F) no preservative[9]	8 mL SWI[9]	0.5 mg/mL[9]	12 h **F**, RT[9,10]	100-250 mL **NS**, D5W[9]	complete administration within 24 h **F**, RT[9]	- larger infusion volume is recommended for peripheral line[9] - do not use nylon membrane filters for administration if diluted in NS[9]; BD Alaris pumps and syringe sets have polyethersulfone membrane in-line filters[11]
Lurbinectedin 4 mg (Pharma Mar) (F) no preservative[12] (SAP)	8 mL SWI[12]	0.5 mg/mL[12]	12 h **F**, RT[10,12]	100–250 mL **NS**, D5W[12]	30 h **F**, RT[12]	- larger infusion volume is recommended for peripheral line[12]

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Melphalan 50 mg (Marcan) (RT)(PFL) no preservative[13]	10 mL supplied diluent[13] rapidly add diluent and immediately shake vigorously to dissolve[13] record time of reconstitution	5 mg/mL[13]	2 h RT[13] **do NOT refrigerate**[13]	0.1-0.45 mg/mL **NS** only[13]	complete administration within 50 min RT from time of initial reconstitution[13]	- will precipitate if stored in fridge[13]
Melphalan 50 mg (Taro) (RT)(PFL) no preservative[14]	10 mL supplied diluent[14] rapidly add diluent and immediately shake vigorously to dissolve [14] record time of reconstitution	5 mg/mL[14]	2 h RT[14] **do NOT refrigerate**[14]	0.1-0.45 mg/mL **NS** only[14]	complete administration within 50 min RT from time of initial reconstitution[14]	- will precipitate if stored in fridge[14]

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Mesna 400 mg/4 mL 1000 mg/10 mL (Baxter) (RT) no preservative[15]	N/A	100 mg/mL[15] (use filter needle to withdraw from ampoule)	discard unused portion[15]	≥1 mg/mL **NS**, D5W, D5½-NS, LR[15-17] 100 mL†	24 h RT[15]	
Mesna 1000 mg/10 mL 5000 mg/50 mL (Baxter) (RT) preservative[15]	N/A	100 mg/mL[15]	8 d RT[15] (vial may be punctured up to 4 times)[15]	≥1 mg/mL **NS**, D5W, D5½-NS, LR[15-17] 100 mL†	24 h RT[15]	
Mesna 1000 mg/10 mL (Fresenius Kabi) (RT) preservative[18]	N/A	100 mg/mL[18]	14 d **F, R**T[18,19]	≥1 mg/mL **NS**, D5W[20] 100 mL†	48 h F, 24 h RT[18]	

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Methotrexate 50 mg/2 mL 500 mg/20 mL 1 g/40 mL (Accord) (RT)(PFL) no preservative[21]	N/A	25 mg/mL[21]	50mg: discard unused portion[21] 500 mg, 1 g: 8 h RT[21]	syringe	use within 8 h RT of initial puncture[21]	- for high-dose regimens (e.g., 1-12 g/m^2 as a single dose): use preservative-free methotrexate[21] - do not use for IT injection
				0.4–2 mg/mL **NS**, D5W[21] 50-500 mL†	use within 24 h RT of initial puncture[21] **(PFL)	
				high dose (e.g., 1-12 g/m^2 as a single dose): 1000 mL* NS	use within 24 h RT of initial puncture[21] **(PFL)	
Methotrexate **<u>intravitreal injection</u>** 50 mg/2 mL (Accord) (RT)(PFL) no preservative[21]	N/A	25 mg/mL[21]	discard unused portion[21]	syringe for intravitreal use	use within 4 h of initial puncture[10]	- for intravitreal use preservative-free methotrexate is preferred[22]

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Methotrexate **IT Injection** Only preservative free methotrexate may be administered by the intrathecal route[23] 50 mg/2 mL (Accord) (RT)(PFL) no preservative[21]	N/A	25 mg/mL[21]	discard unused portion[21]	IT syringe qs to 6 mL with preservative free NS[24,25] diluents containing preservatives should **NOT** be used for intrathecal administration[26]	use within 4 h of initial puncture[10]	- auxiliary info[10]: IT - label to include route in full (i.e., INTRATHECAL injection) attached to both syringe and outer Ziploc bag[27]
Methotrexate 50 mg/2 mL 500 mg/20 mL (Accord) (RT)(PFL) preservative[21]	N/A	25 mg/mL[21]	28 d F[10,21]	syringe	10 d **F**[10,21]	- contains benzyl alcohol[21] - do NOT use for high-dose regimens (e.g., 1-12 g/m^2 as a single dose)[21] - do NOT use for IT injection[21]
				0.4–2 mg/mL **NS**, D5W[21] 50-500 mL†	24 h RT[21]	

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Methotrexate 50 mg/2 mL 500 mg/20 mL 1 g/40 mL 2.5 g/100 mL (Pfizer/Hospira) (RT)(PFL) no preservative[28]	N/A	25 mg/mL[28]	50mg: discard unused portion[28] 500 mg, 1 g, or 2.5 g: 8 h RT[28]	syringe	use within 8 h RT of initial puncture[28]	- for high-dose regimens (e.g., 1-12 g/m^2 as a single dose): use preservative-free methotrexate[28] - do not use for IT injection
				0.4–2 mg/mL **NS**, D5W[28] 50-500 mL†	use within 24 h RT of initial puncture[28] **(PFL)	
				high dose (e.g., 1-12 g/m^2 as a single dose): 1000 mL* NS	use within 24 h RT of initial puncture[28] **(PFL)	
Methotrexate **<u>intravitreal injection</u>** 50 mg/2 mL (Pfizer/Hospira) (RT)(PFL) no preservative[28]	N/A	25 mg/mL[28]	discard unused portion[28]	syringe for intravitreal use	use within 4 h of initial puncture[10]	- for intravitreal use preservative-free methotrexate is preferred[22]

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Methotrexate **IT Injection** Only preservative free methotrexate may be administered by the intrathecal route[23] 50 mg/2 mL (Pfizer/Hospira) (RT)(PFL) no preservative[28]	N/A	25 mg/mL[28]	discard unused portion[28]	IT syringe qs to 6 mL with preservative free NS[24,25] diluents containing preservatives should **NOT** be used for intrathecal administration[26]	use within 4 h of initial puncture[10]	- auxiliary info[10]: IT - label to include route in full (i.e., INTRATHECAL injection) attached to both syringe and outer Ziploc bag[27]
Methotrexate 50 mg/2 mL 500 mg/20 mL (Pfizer/Hospira) (RT)(PFL) preservative[28]	N/A	25 mg/mL[28]	28 d F[10,28]	syringe	10 d **F**[10,28]	- contains benzyl alcohol[28] - do NOT use for high-dose regimens (e.g., 1-12 g/m^2 as a single dose)[28] - do NOT use for IT injection[28]
				0.4–2 mg/mL **NS**, D5W[28] 50-500 mL†	24 h RT[28]	
Mitomycin 20 mg (Accord) (RT)(PFL) no preservative[29]	40 mL SWI[29] shake well[29]	0.5 mg/mL[29]	12 h F, 6 h RT[10,30] **(PFL)[30]	syringe	72 h F, 6 h RT[30] **(PFL)[30]	

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Mitomycin <u>intravesical</u> 20 mg (Accord) (RT)(PFL) no preservative[29]	40 mL SWI[29] shake well[29]	0.5 mg/mL[29]	12 h F, 6 h RT[10,30] **(PFL)[30]	syringe	72 h F, 6 h RT[30] **(PFL)[30]	
	10 mL SWI[31] shake well[29]	2 mg/mL[31]	use immediately after preparation to prevent precipitation[32]	syringe	use immediately after preparation to prevent precipitation[32]	- may precipitate due to low solubility[32,33] - do NOT refrigerate[32]
	25 mL SWI shake well	0.8 mg/mL[34]	discard unused portion[2,34] **(PFL)[2,34]	syringe	4 days RT[34] **(PFL)[2,34]	- do NOT refrigerate[34]
	33.3 mL SWI shake well	0.6 mg/mL[34]	discard unused portion[2,34] **(PFL)[2,34]	syringe	4 days **F**, RT[34] **(PFL)[2,34]	
Mitomycin <u>intraperitoneal</u> 20 mg (Accord) (RT)(PFL) no preservative[29]	40 mL SWI[29] shake well[29]	0.5 mg/mL[29]	12 h F, 6 h RT[10,30] **(PFL)[30]	0.02-0.04 mg/mL **NS**, sodium lactate[29]	NS: 18 h F, 3 h RT[30] sodium lactate: 6 h F, 3 h RT[30]	

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Mitomycin 20 mg (Teva) (RT)(PFL) no preservative[35]	40 mL SWI[35] shake well[35]	0.5 mg/mL[35]	12 h F, 6 h RT[10,35] **(PFL)[35]	syringe	72 h F, 6 h RT[35] **(PFL)[35]	
Mitomycin **<u>intravesical</u>** 20 mg (Teva) (RT)(PFL) no preservative[35]	40 mL SWI[35] shake well[35]	0.5 mg/mL[35]	12 h F, 6 h RT[10,35] **(PFL)[35]	syringe	72 h F, 6 h RT[35] **(PFL)[35]	
	10 mL SWI[31] shake well[35]	2 mg/mL[31]	use immediately after preparation to prevent precipitation[32]	syringe	use immediately after preparation to prevent precipitation[32]	- may precipitate due to low solubility[32,33] - do NOT refrigerate[32]
	25 mL SWI shake well	0.8 mg/mL[34]	discard unused portion[2,34] **(PFL)[2,34]	syringe	4 days RT[34] **(PFL)[2,34]	- do NOT refrigerate[34]
	33.3 mL SWI shake well	0.6 mg/mL[34]	discard unused portion[2,34] **(PFL)[2,34]	syringe	4 days **F**, RT[34] **(PFL)[2,34]	

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Mitomycin <u>intraperitoneal</u> 20 mg (Teva) (RT)(PFL) no preservative[35]	40 mL SWI[35] shake well[35]	0.5 mg/mL[35]	12 h F, 6 h RT[10,35] **(PFL)[35]	0.02-0.04 mg/mL **NS**, sodium lactate[35]	NS: 18 h F, 6 h RT[35] sodium lactate: 6 h **F**, RT[35]	
mitoXANTRONE 20 mg/10 mL (Fresenius Kabi) (RT) no preservative[36]	N/A	2 mg/mL[36]	discard unused portion[36]	0.2-0.6 mg/mL **NS**, D5W[36] 50 mL†	24 h RT[36]	
mitoXANTRONE 20 mg/10 mL 25 mg/12.5 mL 30 mg/15 mL (Pfizer/Hospira) (RT)(PFL) no preservative[37]	N/A	2 mg/mL[37]	discard unused portion[37]	0.2-0.6 mg/mL **NS**, D5W[37] 50 mL†	72 h F, 24 h RT[37] **(PFL)[37]	
Mogamulizumab 20 mg/5 mL (Kyowa) (F)(PFL) do not shake no preservative[38]	N/A	4 mg/mL[38]	discard unused portion[38]	0.1-3 mg/mL NS 100 mL* mix by gentle inversion; do not shake[38]	24 h F[38]	- discard if cloudy, discoloured, or visible particulates are present[38] - administer with 0.2 micron in-line filter[38]

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Mogamulizumab 20 mg/5 mL (Kyowa) (F)(PFL) do not shake no preservative[39] (SAP)	N/A	4 mg/mL[39]	discard unused portion[39]	0.1-3 mg/mL NS[39] 100 mL* mix by gentle inversion; do not shake[39]	24 h F[39]	- discard if cloudy or discoloured[39] - administer with 0.2 micron in-line filter[39]
Nivolumab 40 mg/4 mL 100 mg/10 mL (BMS) (F)(PFL) do not shake no preservative[40]	N/A	10 mg/mL[40]	discard unused portion[40]	1-10 mg/mL **NS**, D5W[40] 25-100 mL† mix by gentle inversion; do not shake[40] OR undiluted in empty infusion bag or glass bottle[40]	complete administration within 7 days F, including max 8 h at RT[40] **(PFL)[40] (can be in room light when at RT)[40]	- do not shake[40] - administer with 0.2 micron in-line filter[40] - may contain a few amorphous particles[40] - discard if cloudy, has pronounced colour change (should be clear to pale yellow)[40]

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
oBINutuzumab 1000 mg/40 mL (Roche) (F)(PFL)** do not shake no preservative[41]	N/A	25 mg/mL[41]	discard unused portion[42]	**NS** 100 mg: 100 mL[41] 900 mg: 250 mL[41] 1000 mg: 250 mL[41]	24 h **F**, 48 h RT[41,43]	-once removed from the fridge, diluted product is stable for an additional 48 h RT[41,43] - do NOT shake[41] - do NOT use dextrose containing solutions[41]
Octreotide 50 mcg/1 mL 100 mcg/1 mL 500 mcg/1 mL (Omega) (F)(PFL) no preservative[44]	N/A	50 mcg/mL[44] 100 mcg/mL[44] 500 mcg/mL[44]	discard unused portion[44]	NS[44] volume adjusted to ensure a continuous infusion of octreotide at 25 mcg/h[44]	24 h RT[44]	
Octreotide multidose vial: 1000 mcg/5 mL (Omega) (F)(PFL) preservative[44]	N/A	200 mcg/mL[44]	15 d F[44]	NS[44] volume adjusted to ensure a continuous infusion of octreotide at 25 mcg/h[44]	24 h RT[44]	

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Octreotide (SANDOSTATIN®) 50 mcg/1 mL 100 mcg/1 mL 500 mcg/1 mL (Novartis) (F)(PFL) no preservative[45]	N/A	50 mcg/mL[45] 100 mcg/mL[45] 500 mcg/mL[45]	discard unused portion[45]	NS[45] volume adjusted to ensure a continuous infusion of octreotide at 25 mcg/h[45]	24 h RT[45]	
Octreotide (SANDOSTATIN®) multi-dose vial: 1000 mcg/5 mL (Novartis) (F)(PFL) preservative[45]	N/A	200 mcg/mL[45]	14 d **F**, RT[45]	NS[45] volume adjusted to ensure a continuous infusion of octreotide at 25 mcg/h[45]	24 h RT[45]	

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Octreotide (SANDOSTATIN LAR®) (long acting) 10 mg 20 mg 30 mg (Novartis) (F)(PFL) no preservative[45]	2 mL supplied diluent[45] add diluent: gently run diluent down sides of vial[45] do NOT disturb for 2–5 min; then swirl moderately[45] record time of reconstitution	10 mg: 5 mg/mL[45] 20 mg: 10 mg/mL[45] 30 mg: 15 mg/mL[45]	discard unused portion[45]	syringe (for deep intragluteal administration only)[45]	use within 4 h of initial reconstitution[10,45]	- do NOT shake[45]

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Octreotide suspension (long acting) 10 mg 20 mg 30 mg (Teva) (F)(PFL) no preservative[46]	2 mL supplied diluent let stand at RT for 30 min prior to reconstitution[46] add supplied diluent[46] let vial stand for 5 min after adding diluent to saturate powder[46] shake moderately in horizontal direction for ≥30 sec to create suspension[46] record time of reconstitution	10 mg: 5 mg/mL[46] 20 mg: 10 mg/mL[46] 30 mg: 15 mg/mL[46]	discard unused portion[46]	syringe (for deep intragluteal administration only)[46]	use within 4 h of initial reconstitution[10,46]	- gently shake to resuspend before administration[46] - delay in administration may result in sedimentation[46]

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Oxaliplatin 50 mg/10 mL 100 mg/20 mL 200 mg/40 mL (Dr. Reddy's) (RT)(PFL) no preservative[47]	N/A	5 mg/mL[47]	discard unused portion[47]	0.2-0.7 mg/mL D5W[47] 100-500 mL† do **NOT** use NS or other chloride-containing solution[47] do **NOT** use aluminum-containing needle and syringe[47]	0.2-2 mg/mL: 48 h F, 24 h RT[47]	- do **NOT** use aluminum-containing needle, syringe, or tubing[47]
Oxaliplatin 50 mg/10 mL 100 mg/20 mL 200 mg/40 mL (Pfizer/Hospira) (RT) no preservative[48]	N/A	5 mg/mL[48]	discard unused portion[48]	0.2-0.7 mg/mL D5W[48] 100-500 mL† do **NOT** use NS or other chloride-containing solutions[48] do **NOT** use aluminum-containing needle and syringe[48]	**0.2-0.4 mg/mL:** 24 h RT[48] or 5 d F plus an additional 8 h RT[49] **0.5–2 mg/mL:** 24 h RT[48] or 10 d F, plus an additional 8 h RT[10,49] **(PFL) when stored in F[49]	- do **NOT** use aluminum-containing needle, syringe, tubing[48]

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Oxaliplatin 50 mg/10 mL 100 mg/20 mL 150 mg/30 mL 200 mg/40 mL (Sandoz) (RT)(PFL) no preservative[50]	N/A	5 mg/mL[50]	12 h **F**, RT[10,51]	0.2-0.7 mg/mL D5W[50] 100-500 mL† do **NOT** use NS or other chloride-containing solution[50] do **NOT** use aluminum-containing needle and syringe[50]	0.2-2 mg/mL: 48 h F, 24 h RT[50]	- do **NOT** use aluminum-containing needle, syringe, tubing[50]
Oxaliplatin 50 mg/10 mL 100 mg/20 mL 200 mg/40 mL (Teva) (RT)(PFL) no preservative[52]	N/A	5 mg/mL[52]	discard unused portion[52]	0.2-0.7 mg/mL D5W[52] 100-500 mL† do **NOT** use NS or other chloride-containing solution[52] do **NOT** use aluminum-containing needle and syringe[52]	0.2-2 mg/mL: 48 h F, 24 h RT[52]	- do **NOT** use aluminum-containing needle, syringe or tubing[52]

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PACLitaxel 30 mg/5 mL 100 mg/16.7 mL 300 mg/50 mL (Accord) (RT)(PFL) preservative[53]	N/A	6 mg/mL[53]	30 mg, 100 mg: 28 d RT[10,53] 300 mg: 24 h RT[10,53]	0.3-1.2 mg/mL **NS**, D5W, D5NS, D5LR[53] 50-500 mL†	complete administration within 27 h RT[53]	- use non-DEHP bag and tubing [53] - administer with 0.2 micron in-line filter[53] - avoid excessive shaking[53]
				0.1 mg/mL **NS**[54]	44 h **F**, RT[54]	
PACLitaxel 30 mg/5 mL 100 mg/16.7 mL 300 mg/50 mL (Biolyse) (RT) preservative[55]	N/A	6 mg/mL[55]	28 d RT[56]	0.3-1.2 mg/mL **NS,** D5W[55] 50-500 mL†	complete administration within 27 h RT[57,58]	- use non-DEHP bag and tubing [55] - administer with 0.2 micron in-line filter[55]
				0.1 mg/mL **NS**[54]	44 h **F**, RT[54]	
				0.012-0.12 mg/mL **NS**[59]	16 h RT[57]	
				devices with spikes (e.g., chemo dispensing pins) **may be used** with vials[60]		

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BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART						
DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Paclitaxel 30 mg/5 mL 100 mg/16.7 mL 300 mg/50 mL (Sandoz) (RT)(PFL) preservative[61]	N/A	6 mg/mL[61]	30 mg, 100 mg: 28 d RT[10,61] 300 mg: 24 h RT[10,61]	0.3-1.2 mg/mL **NS**, D5W, D5NS[61] 50-500 mL†*	complete administration within 27 h RT[61]	- use non-DEHP bag and tubing[61] - administer with 0.2 micron inline filter[61] - avoid excessive shaking
				0.1 mg/mL **NS**[54]	44 h **F**, RT[54]	
PACLitaxel, nanoparticle, albumin-bound (NAB) 100 mg (Celgene) (RT)(PFL) no preservative[62]	20 mL NS[62] slowly direct diluent against side of vial (i.e., ≥1 min) during reconstitution[62] let stand for ≥5 min to wet powder[62] gently swirl or invert for ≥2 min[62]	5 mg/mL[62]	use immediately (RT) or 8 h F[62] **(PFL)[62]	in empty sterile PVC, non-PVC, or non-DEHP infusion bag[62]	48 h F plus an additional 8 h RT[63]	- each vial contains 900 mg human albumin[62] - to prevent foaming, do NOT inject NS directly onto the powder[62] - some settling may occur; use mild agitation to resuspend[62] - administer with 15 micron filter ONLY[62] (NOTE: filters with pore size less than 15 microns may cause filter blockage)[64]

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BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART						
DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
PACLitaxel, nanoparticle, albumin-bound (NAB) 100 mg (Panacea/Apo) (RT)(PFL) no preservative[65]	20 mL NS[65] slowly direct diluent against side of vial (i.e., ≥1 min) during reconstitution[65] let stand for ≥5 min to wet powder[65] gently swirl or invert for ≥2 min[65] (if foaming occurs, let stand for ≥15 min)[65]	5 mg/mL[65]	use immediately (RT) or 8 h F[65] **(PFL)[65]	in empty sterile PVC, non-PVC, or non-DEHP infusion bag[65]	56 h F plus an additional 4 h RT[66]	- each vial contains 900 mg human albumin[65] - to prevent foaming, do NOT inject NS directly onto the powder[65] - some settling may occur; use gentle inversion to resuspend[65] - discard if visible particulates are present[65] - administer with 15 micron filter ONLY[65]
Pamidronate 30 mg/10 mL 60 mg/10 mL 90 mg/10 mL (Fresenius Kabi) (RT) no preservative[67]	N/A	3 mg/mL[67] 6 mg/mL[67] 9 mg/mL[67]	discard unused portion[67]	≤0.36 mg/mL[67] **NS**, D5W[67] 250 mL†	24 h RT[67]	- do **NOT** mix with calcium containing solutions (e.g., Lactated Ringer's)[67]

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Pamidronate 30 mg/10 mL 60 mg/10 mL 90 mg/10 mL (Hospira) (RT) no preservative[68]	N/A	3 mg/mL[68]	discard unused portion[68]	0.06–0.36 mg/mL **NS**, D5W[68] 250 mL†	24 h F plus an additional 24 h RT (total 48 h)[68] **(PFL)[68]	- do **NOT** mix with calcium containing solution (e.g., Lacated Ringer's)[68]
		6 mg/mL[68]				
		9 mg/mL[68]				
Pamidronate 30 mg/10 mL 60 mg/10 mL 90 mg/10 mL (Omega) (RT) no preservative[69]	N/A[69]	3 mg/mL[69]	discard unused portion[69]	0.06–0.36 mg/mL **NS**, D5W[69] 250 mL†	24 h F plus an additional 24 h RT (total 48 h)[69] **(PFL)[69]	- do **NOT** mix with calcium containing solution (e.g., Lactated Ringer's)[69]
		6 mg/mL[69]				
		9 mg/mL[69]				
Pamidronate 30 mg/10 mL 60 mg/10 mL 90 mg/10 mL (Pfizer) (RT) no preservative[70]	N/A	3 mg/mL[70]	discard unused portion[70]	0.06-0.36 mg/mL **NS**, D5W[70] 250 mL†	24 h F plus an additional 24 h RT (total 48 h)[70] **(PFL)[70]	- do **NOT** mix with calcium containing solution (e.g., Lactated Ringer's)[70]
		6 mg/mL[70]				
		9 mg/mL[70]				

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BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART						
DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Pamidronate 30 mg/10 mL 60mg/10 mL 90 mg/10 mL (Sandoz Canada) RT no preservative[71]	N/A	3 mg/mL[71] 6 mg/mL[71] 9 mg/mL[71]	discard unused portion[71,72]	**NS**; D5W[71] 250 mL†	24 h RT[71]	- do **NOT** mix with calcium containing solution (e.g., Lactated Ringer's)[71]
PANitumumab 100 mg/5 mL 400 mg/20 mL (Amgen) (F)(PFL) do not shake no preservative[73]	N/A	20 mg/mL[73]	discard unused portion[73]	1-10mg/mL NS[73] 100 mL†	24 h F, 6 h RT[73-76]	- administer with 0.2 micron in-line filter[73] - solution may contain particulates which do not affect product quality[73] - do not administer if discoloured[73]

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Pegaspargase (pegylated asparaginase *E. coli*) 3750 units/5 mL (Servier) (F)(PFL) do not shake no preservative[77]	N/A	750 units/mL[77]	discard unused portion[77]	IM[77]: max volume: 2 mL in children and adolescents; 3 mL in adults if volume greater than above, use multiple sites[77]	syringe: use within 4 h of vial puncture[2,77]	- do NOT shake[77]
				IV[77]: 100 mL **NS**, D5W	bag: use within 4 h of vial puncture[2,77]	
Pembrolizumab 100 mg/4 mL (Merck) (F)(PFL) do not shake no preservatives[78]	N/A	25 mg/mL[78]	discard unused portion[2,78]	1-10 mg/mL **NS**, D5W[78] 50 mL* mix by gentle inversion[78]	complete administration within 96 h F, 6 h RT[78]	- administer with 0.2 micron in-line filter[78] - bring vials and diluted solutions to RT prior to use[78] - vials contain 0.25 mL overfill[78]

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Pemetrexed 100 mg 500 mg (Accord) (RT) no preservative[79]	100 mg: 4.2 mL NS[79] 500 mg: 20 mL NS[79]	25 mg/mL[79]	12 h **F**, RT[10,79]	100 mL NS[79]	24 h **F**, RT[79]	- do **NOT** mix with calcium containing solution (e.g., Ringer's)[79]
Pemetrexed 100 mg/4 mL 500 mg/20 mL 850 mg/34 mL 1000 mg/40 mL (Accord) (RT)(PFL) no preservative[80]	N/A	25 mg/mL[80]	discard unused portion[80]	100 mL NS[80]	24 h F[80]	- do **NOT** mix with calcium containing solution (e.g., Ringer's)[80]
Pemetrexed 100 mg 500 mg (Dr. Reddy's) (RT) no preservative[81]	100 mg: 4.2 mL NS[81] 500 mg: 20 mL NS[81]	25 mg/mL[81]	12 h **F**, RT[10,82-84]	100 mL NS[81]	24 h **F**, RT[82-84]	- do **NOT** mix with calcium containing solution (e.g., Ringer's)[81]
Pemetrexed 100 mg 500 mg (Lilly) (RT) no preservative[85]	100 mg: 4.2 mL NS[85] 500 mg: 20 mL NS[85]	25 mg/mL[85]	12 h **F**[10,85]	100 mL NS[85]	24 h **F**[85]	- do **NOT** mix with calcium containing solution (e.g., Ringer's)[85]

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Pemetrexed 100 mg 500 mg 1000 mg (Taro) (RT) no preservative[86]	100 mg: 4.2 mL NS[86] 500 mg: 20 mL NS[86] 1000 mg: 40 mL NS[86]	25 mg/mL[86]	12 h F[10,86]	100 mL NS[86]	24 h F[86]	- do **NOT** mix with calcium containing solution (e.g., Ringer's)[86]
Pentostatin 10 mg (Hospira/Pfizer) (F) no preservative[87]	5 mL SWI[87]	2 mg/mL[87]	8 h RT[87]	0.18-0.33 mg/mL[87] 25-50 mL **NS**, D5W[87]	8 h RT[87]	
PERTuzumab 420 mg/14 mL (Roche) (F)(PFL) no preservative[88]	N/A	30 mg/mL[88] do NOT shake[88]	discard unused portion[42,88]	250 mL **NS** only[88] mix by gentle inversion to avoid foaming[88]	24 h **F**, RT[88]	- do NOT use dextrose containing solutions[88]

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
PERTuzumab-trastuzumab 1200 mg-600 mg/15 mL 600 mg-600 mg/10 mL (Roche) (F)(PFL) do not shake no preservative[89]	N/A	**1200 mg-600 mg[89]:** 80 mg/mL pertuzumab and 40 mg/mL trastuzumab **600 mg-600 mg[89]:** 60 mg/mL pertuzumab and 60 mg/mL trastuzumab	discard unused portion[89]	SC syringe[89]	10 d F, 24 h RT[10,89]	- do not shake[89] - contains recombinant human hyaluronidase[89]
Plerixafor 24 mg/1.2 mL (sanofi-aventis) (RT) no preservative[90]	N/A	20 mg/mL[90]	discard unused portion[90]	SC syringe[90]	48 h RT[72,91]	

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Polatuzumab vedotin 30 mg 140 mg (Hoffman-La Roche) (F)(PFL) do not shake no preservative[92]	30 mg: 1.8 mL SWI[92] 140 mg: 7.2 mL SWI[92] direct diluent against side of vial during reconstitution[92] swirl gently to mix[92]	20 mg/mL[92] (PFL)	12 h F, RT[10,92]	0.72-2.7 mg/mL **NS**, D5W, ½NS[92] (dilute to a minimum volume of 50 mL) [92] gently invert bag to mix[92]	in NS: 72 h **F**, 4 h RT[92] in D5W or ½NS: 72 h **F**, 8 h RT[92]	- do NOT shake[92] - administer with 0.2 micron in-line filter[92] -discard if discolouration or visible particulates are present[92]
Pralatrexate 20 mg/1 mL 40 mg/2 mL (Servier) (F)(PFL) no preservative[93]	N/A	20 mg/mL[93]	discard unused portion[2]	syringe[93]	24 h **F**, RT[94] **(PFL)[94]	- do NOT dilute[93]
Raltitrexed 2 mg (Pfizer) (**F**,RT)(PFL) no preservative[95]	4 mL SWI[95]	0.5 mg/mL[95]	12 h **F**, RT[10,95]	50-250 mL **NS**, D5W[95]	complete administration within 24 h **F**, RT[95]	

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Ramucirumab 100 mg/10 mL 500 mg/50 mL (Eli Lilly) (F)(PFL) (do not shake) no preservative[96]	N/A	10 mg/mL[96]	discard unused portion[96]	0.4–4 mg/mL NS[96,97] 250-500 mL† gently invert to mix[96] do NOT shake[96]	24 h F, 4 h RT[96]	- administer with 0.2 micron in-line filter[96] - do NOT use dextrose containing solutions[96]
riTUXimab (RITUXAN®) 100 mg/10 mL 500 mg/50 mL (Roche) (F)(PFL) no preservative[98]	N/A	10 mg/mL[98]	discard unused portion[98]	1-4 mg/mL **NS**, D5W[98] 250-500 mL†	**NS:** 10 d F plus an additional 24 h RT[10,98] **D5W:** 24 h F plus an additional 12 h RT[98]	
riTUXimab intravitreal injection (RITUXAN®) 100 mg/10 mL (Roche) (F)(PFL) no preservative[98]	N/A	10 mg/mL[98]	discard unused portion[98]	syringe for intravitreal use	use within 4 h of initial puncture[10]	

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
riTUXimab **<u>subcutaneous</u>** (**RITUXAN® SC**) 1400 mg/11.7 mL 1600 mg/13.4 mL (Roche) (F)(PFL) no preservative[99]	N/A	120 mg/mL[99]	discard unused portion[99]	SC syringe[99]	48 h F plus 8 h RT[99]	- contains hyaluronidase[99] - formulations are NOT interchangeable[99]
riTUXimab (**RIXIMYO®**) 100 mg/10 mL 500 mg/50 mL (Sandoz) (F)(PFL) (do NOT shake) no preservative[100]	N/A	10 mg/mL[100]	discard unused portion[100]	1-4 mg/mL **NS**, D5W[100] 250-500 mL† gently invert to mix	**NS**: 10 d F plus an additional 24 h RT[10,100] **D5W**: 24 h F plus an additional 12 h RT[100]	
riTUXimab **<u>intravitreal injection</u>** (**RIXIMYO®**) 100 mg/10 mL (Sandoz) (F)(PFL) (do NOT shake) no preservative[100]	N/A	10 mg/mL[100]	discard unused portion[100]	syringe for intravitreal use	use within 4 h of initial puncture[10]	

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
riTUXimab (**RUXIENCE®**) 100 mg/10 mL 500 mg/50 mL (Pfizer) (F)(PFL) no preservative[101]	N/A	10 mg/mL[101]	discard unused portion[101]	1-4 mg/mL **NS**, D5W[101] 250-500 mL† gently invert to mix	24 h F plus an additional 24 h RT[101]	
riTUXimab **intravitreal injection** (**RUXIENCE®**) 100 mg/10 mL 500 mg/50 mL (Pfizer) (F)(PFL) no preservative[101]	N/A	10 mg/mL[101]	discard unused portion[101]	syringe for intravitreal use	use within 4 h of initial puncture[10]	
riTUXimab (**TRUXIMA®**) 100 mg/10 mL 500 mg/50 mL (Teva/Celltrion) (F)(PFL) no preservative[102]	N/A	10 mg/mL[102]	discard unused portion[102]	1-4 mg/mL **NS**, D5W[102] 250-500 mL† gently invert to mix	24 h F plus an additional 12 h RT[102]	

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
riTUXimab **intravitreal injection** (**TRUXIMA®**) 100 mg/10 mL 500 mg/50 mL (Teva/Celltrion) (F)(PFL) no preservative[102]	N/A	10 mg/mL[102]	discard unused portion[102]	syringe for intravitreal use	use within 4 h of initial puncture[10]	
romiDEPsin 10 mg (Celgene Inc.) (RT)[103] no preservative[42]	2.2 mL supplied diluent[103,104] swirl gently to mix[103]	5 mg/mL[103]	8 h RT[103]	500 mL NS[103]	24 h RT[103]	- reconstituted solution will be slightly viscous[105] - vials contain overfill to allow for full drug recovery (drug vial contains 11 mg romidepsin; diluent vial contains 2.4 mL diluent)[103]

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Sacituzumab govitecan 180 mg (Gilead) (F)(PFL) no preservative[106]	20 mL NS[106] bring vials to RT before reconstitution[106] slowly add diluent to vial and gently swirl; allow to dissolve for up to 15 min[106] do not shake[106]	10 mg/mL[106]	use immediately after reconstitution to prepare infusion solution[106] discard unused portion[106]	1.1-3.4 mg/mL NS[106] 100-1000 mL NS† slowly inject solution to bag to minimize foaming; do not shake[106]	24 h F[106], plus an additional 8 h RT including infusion time[106] **(PFL)[106]	- do not shake[106] - protect container from light during administration[106] - vials contain overfill (~20 mg per vial)[107]
Siltuximab 100 mg 400 mg (Janssen) (F)(PFL) no preservative[108]	100 mg: 5.2 mL SWI[108] 400 mg: 20 mL SWI[108] bring vial to RT prior to use (~30 min)[108] gently swirl, do NOT shake[108]	20 mg/mL[108]	2 h RT[108]	250 mL D5W[108] dilute to final volume by withdrawing volume from bag equal to volume of drug to be added[108]	complete administration within 6 h RT[108]	- administer with 0.2 micron in-line filter[108]

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Sirolimus, nanoparticle, albumin-bound (NAB) 100 mg (Aadi) (F)(PFL) no preservative[109] (SAP)	20 mL NS[109] slowly direct diluent against side of vial (over ≥1 min)[109] let stand for ≥5 min to wet powder[109] gently swirl or invert for ≥2 min to avoid foaming[109] if foaming/clumping occurs, let stand until foam subsides (≥15 min)[109]	5 mg/mL[109]	4 h F[110,111] **(PFL)[109]	undiluted in empty PVC or non-PVC infusion bag[109]	9 h F, followed by max 4 h RT[109] **(PFL)[109]	- each vial contains ~800-900 mg human albumin[109,112] - to prevent foaming, do NOT inject NS directly onto the powder[109] - if powder is visible after reconstitution, gently invert to resuspend powder[109] - to prevent administration of proteinaceous strands, administer with 15 micron filter ONLY[109]

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Streptozocin 1g (Keocyt) (F)(PFL) no preservative[113-116] (SAP)	9.5mL **NS,** SWI, D5W[113-116]	100 mg/mL[113-116]	12 h F[10,114-116]	syringe[114-116]	48 h F[10,114-116]	
				100-500 mL **NS**, D5W, SWI[113-116]	24 h F[114-116]	

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Tebentafusp 100 mcg/0.5 mL (Immunocore/Medison) (F)(PFL) do not shake no preservative[117]	N/A	200 mcg/mL[117]	discard unused portion[117]	100 mL NS[117] Step 1: add calculated volume of human albumin 5% to provide 225-275 mcg/mL final concentration[117] to mix: invert the bag and gently rotate ≥5 times; do NOT shake bag (repeat x3)[117] Step 2: add calculated volume of drug[117] to mix: invert the bag and gently rotate ≥5 times; do NOT shake bag (repeat x3)[117]	complete administration within 24 h F, 4 h RT[117] bring to RT prior to administration[117]	- do NOT use CSTD or filters during **preparation**[117] - CSTD can be used for administration[118] - administer using 0.2 micron in-line filter[117] - once the bag has been removed from fridge, it must remain at RT[117]

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Tebentafusp 100 mcg/0.5 mL (Immunocore/Clinigen) (F)(PFL) do not shake no preservative[119,120] (SAP)	N/A	200 mcg/mL[119]	discard unused portion[2,119,120]	100 mL NS[119,120] Step 1: add calculated volume of human albumin 5% to provide 225-275 mcg/mL final concentration[119,120] to mix: invert the bag and gently rotate ≥5 times; do NOT shake bag (repeat x3)[119,120] Step 2: add calculated volume of drug[119,120] to mix: invert the bag and gently rotate ≥5 times; do NOT shake bag (repeat x3)[119,120]	complete administration within 24 h F, 4 h RT[119,120]	- do NOT use CSTD or filters during **preparation**[119] - CSTD can be used for administration[118] - administer using 0.2 micron in-line filter[119,120] - once the bag has been removed from fridge, it must remain at RT[119,120]

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Teclistamab 30 mg/3 mL 153 mg/1.7 mL (Janssen) (F)(PFL) do not shake no preservative[121]	N/A	30 mg[121]: 10 mg/mL (use for 2.1-52.9 mg doses)* 153 mg[121]: 90 mg/mL (use for 53-375 mg doses)* bring to RT before use (~15 min)[121] swirl gently for 10 sec to mix; do NOT shake[121]	discard unused portion[121]	SC syringe[121] if drug volume >2 mL, divide volume into separate syringes for administration[121]	20 h **F**, RT[121] if stored in fridge, bring to RT prior to administration[121]	- **CAUTION**: two concentrations are available[121] - CSTD must not be used for preparation or administration of syringe volumes less than 1 mL[122]; use filtered venting needle (e.g., Chemo-Vent®) in place of CSTD for preparation[123]

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Temsirolimus 30 mg/1.2 mL (Pfizer/Wyeth) (F)(PFL)[124] no preservative[125]	1.8 mL supplied diluent[124]	10 mg/mL[124]	12 h RT[10,124] **(PFL)[124]	250 mL NS[124] record time of dilution[124]	complete administration within 6 h[124] mix by gentle inversion to avoid foaming[124]	- use non-DEHP bag and tubing - administer with 0.2 micron in-line filter[124]
Teniposide 50 mg/5 mL (BMS) (RT) preservative[126]	N/A	10 mg/mL[126]	discard unused portion	0.1-1 mg/mL **NS,** D5W[126] 50–500 mL*	0.1-0.4 mg/mL: 24 h RT[126] 1 mg/mL: complete administration within 4 h RT of preparation[126,127]	- do not refrigerate - use non-DEHP bag and tubing[126] - do not use if precipitates[126,127] - contains DMA*** - excessive agitation may cause precipitation[126]

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BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART						
DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Thiotepa 15 mg 100 mg (Adienne/Methapharm) (F) no preservative[128] (SAP)	**15 mg:** 1.5 mL SWI[128] **100 mg:** 10 mL SWI[128] to remove haze, filter through 0.22 micron filter after reconstitution[129] record time of reconstitution	10 mg/mL[128]	8 h F[128]	0.5-1 mg/mL NS[128] ≤500 mg: 500 mL[128] >500 mg: 1000 mL[128] reconstituted solution is hypotonic and must be further diluted with NS prior to use[128]	24 h F, 4 h RT[128]	- do not use if precipitates are present[128] - reconstituted solution may be used if opalescent[128] - administer with 0.2 micron in-line filter[128]

Activation Date: 2 March 2006
Revised Date: 1 May 2024

BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART						
DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Thiotepa **IT injection** 15 mg 100mg (Adienne/Methapharm) (F) no preservative[128] (SAP)	**15 mg:** 1.5 mL SWI[128] **100 mg:** 10 mL SWI[128] diluents containing preservatives should **NOT** be used for intrathecal administration[26] to remove haze, filter through 0.22 micron filter after reconstitution[129] record time of reconstitution	10 mg/mL[128]	8 h F[128]	IT syringe qs to 6 mL with preservative free NS[130] diluents containing preservatives should **NOT** be used for intrathecal administration[26]	use within 4 h of initial reconstitution[2]	- auxiliary info[27]: IT - label to include route in full (i.e., INTRATHECAL injection) attached to both syringe and outer ziplock bag[27] - do not use if precipitates are present[128] - reconstituted solution may be used if opalescent[128]
Thyrotropin alfa 1.1 mg (Genzyme) (F)(PFL) no preservative[131]	1.2 mL SWI[131] swirl gently to mix[131] do NOT shake[131]	0.9 mg/mL[131]	12 h F[10,131]	syringe[131]	24 h F[10,131]	- do not use if particulates are present[131]

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BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART						
DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Tislelizumab 100 mg/10 mL (BeiGene) (F)[132,133] (do not shake) no preservative[134] (SAP)	N/A	10 mg/mL[134]	discard unused portion[134]	1-10 mg/mL NS[134] 50-100 mL*	complete administration within 20 h F, 4 h RT (max 24 h from preparation)[134] bring to RT prior to administration[134] mix by gentle inversion; do not shake[134]	
Tocilizumab 80 mg/4 mL 200 mg/10 mL 400 mg/20 mL (Roche) (F)(PFL) no preservative[135]	N/A	20 mg/mL[135]	discard unused portion[135]	100 mL NS[135] dilute to final volume by withdrawing volume from bag equal to volume of drug to be added[135] gently invert to mix[135]	complete administration within 24 h **F**, RT[135] bring to RT prior to administration[135]	- to prevent foaming: slowly add drug to infusion bag and gently invert bag to mix[135]
Topotecan 4 mg/4 mL (Accord) (RT)(PFL) no preservative[136]	N/A	1 mg/mL[136]	12 h **F**, RT[10,136]	0.025-0.5 mg/mL **NS**, D5W[136] 25-50 mL†	10 d F, 4 d RT[10,136]	

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BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART						
DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Topotecan 4 mg/4 mL (Pfizer/Hospira) (F)(PFL) no preservative[137]	N/A	1 mg/mL[137]	discard unused portion[137]	0.02-0.5 mg/mL **NS**, D5W[137] 25-50 mL†	24 h **F**, RT[137]	
Topotecan 4 mg/4 mL (Sandoz) (F)(PFL) no preservative[138]	N/A	1 mg/mL[138]	discard unused portion[138]	0.02-0.5 mg/mL **NS**, D5W[138] 25-50 mL†	24 h F[138] **(PFL)[138]	
Trastuzumab (HERCEPTIN®) 440 mg (Roche) (F) no preservative[139]	20 mL supplied BWI[139] swirl vial gently; allow to stand undisturbed for 5 min[139]	21 mg/mL[139]	28 d F[139]	250 mL **NS** only[139] do NOT use dextrose containing solutions[139]	24 h **F**, RT[139]	- do NOT shake[139]

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BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART						
DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Trastuzumab (HERZUMA®) 150 mg 440 mg (Teva/Celltrion) (F) no preservative[140]	150 mg: 7.2 mL SWI[140]	21 mg/mL[140]	discard unused portion[140]	250 mL **NS** only[140] do **NOT** use dextrose containing solutions[140]	24 h **F**, RT[140]	- do NOT shake[140] - supplied BWI contains benzyl alcohol[140]
	440 mg: 20 mL supplied BWI[140]		28 d F[140]			
	swirl vial gently; allow to stand undisturbed for 5 min[140]					
Trastuzumab (OGIVRI®) 150 mg 440 mg (BGP) (F) no preservative[141]	150 mg: 7.2 mL SWI[141]	21 mg/mL[141]	discard unused portion[141]	250 mL **NS** only[141] do **NOT** use dextrose containing solutions[141]	24 h **F**, RT[141]	- do NOT shake[141] - supplied BWI contains benzyl alcohol[141]
	440 mg: 20 mL supplied BWI[141]		28 d F[141]			
	swirl vial gently; allow to stand undisturbed for 5 min[141]					

BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART						
DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Trastuzumab (TRAZIMERA®) 150 mg 440 mg (Pfizer) (F) no preservative[142]	150 mg: 7.2 mL SWI[142]	21 mg/mL[142]	discard unused portion[142]	250 mL **NS** only[142] do **NOT** use dextrose containing solutions[142]	24 h **F**, RT[142]	- do NOT shake[142] - supplied BWI contains benzyl alcohol[142]
	440 mg: 20 mL supplied BWI[142]		28 d F[142]			
	swirl vial gently; allow to stand undisturbed for 5 min[142]					

BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART						
DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Trastuzumab deruxtecan (ENHERTU®) 100 mg (AstraZeneca) (F)(PFL) no preservative[143]	5 mL SWI[143] swirl gently until completely dissolved[143] do NOT shake[143]	20 mg/mL[143]	12 h F[10,143] **(PFL)[143]	100 mL D5W only[143] gently invert to mix[143] do NOT shake[143] do **NOT** use sodium chloride solution[143]	complete administration within 24 h F, 4 h RT[143] **(PFL)[143]	- do not use if reconstituted solution contains visible particulates or is cloudy or discoloured[143] - protect container from light during administration[144] - administer with 0.2 micron in-line filter[143] - if stored in fridge, bring bag to RT prior to use[143]

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BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART						
DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Trastuzumab emtansine (KADCYLA®) 100 mg 160 mg (Roche) (F)(PFL) no preservative[145]	100 mg: 5 mL SWI[145] 160 mg: 8 mL SWI[145] swirl gently until completely dissolved do NOT shake[145]	20 mg/mL[145]	12 h **F**[10,146]	250 mL **NS** or ½NS only[145] do NOT shake[145] do **NOT** use dextrose containing solutions[145]	24 h F[145]	- do not use if reconstituted solution contains visible particulates or is cloudy or discolored[145] - D5W causes aggregation of the protein[145] - for infusions prepared in NS: administer with 0.2 micron in-line filter or 0.22 micron polyethersulfane (PES) filter[145] - for infusions prepared in ½NS: filter is optional for administration[145]

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BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART						
DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Tremelimumab 25 mg/1.25 mL 300 mg/15 mL (AstraZeneca) (F)(PFL) (do not shake) no preservative[147]	N/A	20 mg/mL[147]	discard unused portion[147]	0.1-10 mg/mL NS, D5W[147] 50 mL* mix by gentle inversion; do NOT shake[147]	24 h **F**, RT[147]	- administer with 0.2 micron in-line filter[147] - discard if visible particles are present[147]

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BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART						
DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Treosulfan 1 g 5 g (Medexus) (RT) no preservative[148]	1 g[148]: 20 mL NS, D5W, SWI, ½NS 5 g[148]: 100 mL NS, D5W, SWI, ½NS **pre-heat** diluent to 25-30°C (max)[149] **shake vial** to loosen powder before adding the warmed diluent[150] vigorous shaking may be required[150]; prolonged standing time may improve solubility[148]	50 mg/mL[148]	12 h RT[10,148]	undiluted in empty infusion bag[148,149]	3 d RT[148]	- do NOT refrigerate as may precipitate[148]

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BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART						
DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Treosulfan 1 g 5 g (medac) (RT) no preservative[151,152] (SAP)	1 g[151,152]: 20 mL SWI, ½NS 5 g[151,152]: 100 mL SWI, ½NS pre-heat diluent to 25-30°C (max)[151,152] shake vial carefully to loosen powder before adding the warmed diluent[151,152] gently shake while adding diluent[151,152] (takes ~2 min to reconstititute)[151,152]	50 mg/mL[151,152]	12 h RT[10,151,153]	undiluted[154] or dilute with **NS** or D5W in empty infusion bag for final concentration = 20 mg/mL[153]	4 d RT[151,153]	- compatible with polytetrafluoroethylene filters[155] - may sometimes require vigorous shaking to reconstitute[151,152] - do NOT refrigerate as may cause precipitation[151,152]
vinBLAStine 10 mg/10 mL (Pfizer) (F)(PFL) no preservative[156]	N/A	1 mg/mL[156]	discard unused portion[2,156]	25-50 mL **NS**, D5W[157]	use within 4 h of initial vial puncture[2,156]	- auxiliary info: WARNING: FOR INTRAVENOUS USE ONLY – FATAL IF GIVEN BY OTHER ROUTES[158,159]

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BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART						
DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
vinBLAStine 10 mg/10 mL (Teva) (F)(PFL) no preservative[160]	N/A	1 mg/mL[160]	discard unused portion[2,160]	25-50 mL **NS**, D5W[157]	use within 4 h of initial vial puncture[2,160]	- auxiliary info: WARNING: FOR INTRAVENOUS USE ONLY – FATAL IF GIVEN BY OTHER ROUTES[158,159]
vinCRIStine 2 mg/2 mL 5 mg/5 mL (Pfizer/Hospira) (F)(PFL) no preservative[161]	N/A	1 mg/mL[161]	8 h F, RT[161]	0.01-0.1 mg/mL **NS**, D5W[161] 50 mL†	24 h F, RT[161] **(PFL)[161]	- auxiliary info: WARNING: FOR INTRAVENOUS USE ONLY – FATAL IF GIVEN BY OTHER ROUTES[158,159] - for LYEPOCHR protocol, see entry for EPOCHR (3-in-1 solution containing either etoposide or etoposide phosphate AND DOXOrubicin and vinCRIStine)

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BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART						
DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
vinCRIStine 1 mg/1 mL 2 mg/2 mL 5 mg/5 mL (Teva) (F)(PFL) no preservative[162]	N/A	1 mg/mL[162]	8 h **F**, RT[162]	0.01-0.1 mg/mL **NS**, D5W[162] 50 mL†	24 h F, RT[162]	- auxiliary info: WARNING: FOR INTRAVENOUS USE ONLY – FATAL IF GIVEN BY OTHER ROUTES[158,159] - for LYEPOCHR protocol, see entry for EPOCHR (3-in-1 solution containing either etoposide or etoposide phosphate AND DOXOrubicin and vinCRIStine)
Vinorelbine 10 mg/1 mL 50 mg/5mL (Fresenius Kabi) (F)(PFL) no preservative[163]	N/A	10 mg/mL[163]	discard unused portion[163]	0.5-2.0 mg/mL **NS**, D5W, ½NS, D5-½NS, Ringer's, Ringer's Lactate[163] 50 mL†	24 h **F**, RT[163]	- auxiliary info: WARNING: FOR INTRAVENOUS USE ONLY – FATAL IF GIVEN BY OTHER ROUTES[158,159]

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BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART						
DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Vinorelbine 10 mg/1 mL 50 mg/5 mL (GMP) (F)(PFL) no preservative[164]	N/A	10 mg/mL[164]	discard unused portion[2]	0.5-2.0 mg/mL **NS**, D5W, ½NS, D5-½NS, Ringer's, Ringer's Lactate[164] 50 mL†	24 h **F**, RT[164]	- auxiliary info: WARNING: FOR INTRAVENOUS USE ONLY – FATAL IF GIVEN BY OTHER ROUTES[158,159]
Vinorelbine 10 mg/1 mL 50 mg/5 mL (Teva) (F)(PFL) no preservative[165]	N/A	10 mg/mL[165]	discard unused portion[165]	0.5–2.0 mg/mL **NS**, D5W, ½NS, D5-½NS, Ringer's, Ringer's Lactate[165] 50 mL†	24 h **F**, RT[165]	- auxiliary info: WARNING: FOR INTRAVENOUS USE ONLY – FATAL IF GIVEN BY OTHER ROUTES[158,159]
Zoledronic acid 4 mg/5 mL (Dr Reddy's) (RT) no preservative[166]	N/A	0.8 mg/mL[166]	discard unused portion[166]	100 mL **NS**, D5W[166]	complete infusion within 24 h of preparation[166] **refrigerate** diluted product if not used immediately after preparation; bring to RT prior to use[166]	- do **NOT** mix with calcium containing solutions (e.g., Lactated Ringer's)[166]

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BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART						
DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Zoledronic acid 4 mg/5 mL (Marcan) (RT) no preservative[167]	N/A	0.8 mg/mL[167]	discard unused portion[167]	100 mL **NS**, D5W[167]	complete infusion within 24 h of preparation[167] **refrigerate** diluted product if not used immediately after preparation; bring to RT prior to use[167]	- do **NOT** mix with calcium containing solutions (e.g., Lactated Ringer's)[167]
Zoledronic acid 4 mg/5 mL (MDA) (RT) no preservative[168]	N/A	0.8 mg/mL[168]	discard unused portion[168]	100 mL **NS**, D5W[168]	complete infusion within 24 h of preparation[168] **refrigerate** diluted product if not used immediately after preparation; bring to RT prior to use[168]	- do **NOT** mix with calcium containing solutions (e.g., Lactated Ringer's)[168]

BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART						
DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	**Reconstitute With:**	**To Give:**	**Vial Stability**	**Product (for IV bag size selection, see Notes†)**	**Product Stability**	**Special Precautions/Notes**
Zoledronic acid (ZOMETA) 4 mg/ 5 mL (Novartis) (RT) no preservative[169]	N/A	0.8 mg/mL[169]	discard unused portion[42]	100 mL **NS,** D5W[169]	complete infusion within 24 h of preparation[169] **refrigerate** diluted product if not used immediately after preparation; bring to RT prior to use[169]	- do NOT mix with calcium containing solutions (e.g., Lactated Ringer's)[169]
Zoledronic acid 4 mg/5 mL (Sandoz) (RT) no preservative[170]	N/A	0.8 mg/mL[170]	discard unused portion[170]	100 ml **NS**, D5W[170]	complete infusion within 24 h of preparation[170] **refrigerate** diluted product if not used immediately after preparation; bring to RT prior to use[170]	- do NOT mix with calcium containing solutions (e.g., Lactated Ringer's)[170]

* Suggested volume based on usual dose range and any concentration range of stability data
† see BC Cancer IV Bag Selection table: standardized bag sizes are provided for select Benefit Drugs with concentration-dependent stability or large drug volume
** Protect from light means minimizing exposure to direct sunlight over a *storage* period. More specific information on protection from light (eg, protecting container and tubing during *administration*) will be indicated in the Special Precautions/Notes column.
*** Contains DMA (N,N dimethylacetamide). Product may be incompatible with closed system transfer devices (CSTD) such as ChemoLock.

Centres are not to change content locally. All suggestions for change are to be forwarded to the Cancer Drug Manual editor.

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Explanatory Notes:

Stability data assumes products prepared using standard aseptic technique in biological safety cabinet at low risk for contamination according to the classification outlined in USP 797.[171,172]
***Vial stability*:** Stability of solution after first puncture or reconstituted solution.
Storage temperature: If information states same stability with refrigerator and room temperature storage, then fridge stability is bolded as preferred (ie, to minimize growth of micro-organisms).
***Discard unused portion*:** Unused portion from single use vials should be discarded at the end of the day.
"overfill known" is stated if the manufacturer states overfill that is present is within acceptable limits.
"Complete administration within __" is stated if the manufacturer specifies that the infusion must be completed in a specific time frame following preparation, usually including entire time required for preparation (from first puncture), storage, and administration of infusion.
Nomenclature for ***In-line filters*** has been standardized to 0.2 micron filter size. For more information, refer to CDM monograph.

Abbreviations:

BWI = bacteriostatic water for injection
CIVI: ambulatory pump = Continuous Intravenous Infusion (e.g., elastomeric infusor)
CSTD = closed system transfer device
D5W = dextrose 5% in water
DMA = N,N dimethylacetamide
F = refrigerate
Non-DEHP = not containing Di(2-ethylhexyl) phthalate (DEHP)
NS = normal saline
PFL = protect from light
RT = room temperature
SAP **=** drug is approved for use through the Health Canada Special Access Program
SWI = sterile water for injection

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