

	BC C	ANCER CHEMOTHER	RAPY PREPARATION	I AND STABILITY CHA	NRT	
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
Aldesleukin 22 million units (1.3 mg) (SteriMax) (F)(PFL) no preservative ¹	1.2 mL SWI ¹ direct diluent against side of vial during reconstitution ¹ do NOT shake ¹	18 million unit/mL (1.1 mg/mL) ¹	12 h F , RT ^{1,2}	30-70 mcg/mL ¹ 50 mL D5W ¹ <30 mcg/mL: dilute in D5W containing human albumin 0.1% ³	48 h F , RT ¹ bring to RT prior to use ¹	 do NOT use in- line filter¹ avoid bacteriostatic water for injection or NS due to increased aggregation¹
				SC syringe ^{4,5}	10 d F ^{2,5} **(PFL)	
Aldesleukin <u>intralesional</u> 22 million units (1.3 mg) (SteriMax) (F)(PFL) no preservative ¹	1.2 mL SWI ¹ direct diluent against side of vial during reconstitution ¹ do NOT shake ¹	18 million unit/mL (1.1 mg/mL) ¹	12 h F , RT ^{1,2}	add 3.2 mL D5W to reconstituted vial to give 5 million units/mL ^{6,7} withdraw entire contents of vial into syringes for administration ^{6,7}	syringe: 48 h F ⁶ (discard any remaining unused syringes following procedure)	- avoid bacteriostatic water for injection or NS due to increased aggregation ¹



	BC C	ANCER CHEMOTHER	RAPY PREPARATION	I AND STABILITY CHA	RT	
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
Alemtuzumab 30 mg/mL (Genzyme/Bayer) ⁸ (F)(PFL)	N/A	filter NOT required ⁹ 30 mg/mL ⁹	discard unused portion ⁹	SC syringe ¹⁰	discard at the end of the day F, RT	- do NOT shake ¹¹
do not shake no preservative ⁹				100 mL NS , D5W ⁹	8 h F, RT ^{9**} (PFL) ¹¹	
Amivantamab (JNJ-61186372) ^{12,13} 350 mg (Janssen) (F)(PFL) no preservative ¹⁴ (SAP)	N/A	50 mg/mL	discard unused portion ¹⁴	250 mL NS , D5W ¹⁴ dilute to final volume by withdrawing volume from bag equal to volume of drug to be added ¹⁴ mix by gentle inversion ¹⁴	complete administration within 10 h RT ¹⁴	 do not shake¹⁴ discard if discolouration or visible particles are present¹⁴ administer with 0.2 micron in-line filter¹⁴



	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			
Amivantamab 350 mg (Janssen) (F)(PFL) no preservative ¹⁵	N/A	50 mg/mL ¹⁵	discard unused portion ¹⁵	250 mL NS , D5W ¹⁵ dilute to final volume by withdrawing volume from bag equal to volume of drug to be added ¹⁵ mix by gentle inversion; do not shake ¹⁵	complete administration within 10 h RT ¹⁵	 each vial contains 0.5 mL overfill¹⁵ discard if discolouration or visible particles are present¹⁵ administer with 0.2 micron in-line filter¹⁵ 			
Amsacrine 75 mg/1.5 mL (Erfa Canada) (RT) no preservative ¹⁶	glass syringes preferred for reconstitution; MAX time in plastic syringe ¹⁶ : 15 min 13.5 mL supplied diluent (L-lactic acid) ¹ to reconstitute: transfer 1.5 mL from ampoule into the diluent vial ¹⁶	5 mg/mL ¹⁶	12 h RT ^{2,16} **(PFL) ¹⁶	500 mL D5W ¹⁶ (plastic or glass container) ¹⁶	7 d F , 4 d RT ^{2,16}	- contains DMA***			



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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						
Arsenic trioxide 10 mg/10 mL (Phebra/ICON) (RT) no preservative ¹⁷	N/A	1 mg/mL ¹⁷	discard unused portion ¹⁷	100-250 mL NS , D5W ¹⁷	48 h F, 24 h RT ¹⁷							
Arsenic trioxide 10 mg/10 mL (Sandoz) (RT) no preservative ¹⁸	N/A	1 mg/mL ¹⁸	discard unused portion ¹⁸	100-250 mL NS , D5W ¹⁸	48 h F, 24 h RT ¹⁸							
Arsenic trioxide 10 mg/10 mL (SteriMax) (RT) no preservative ¹⁹	N/A	1 mg/mL ¹⁹	discard unused portion ¹⁹	100-250 mL NS , D5W ¹⁹	48 h F, 24 h RT ¹⁹							



	BC C/	ANCER CHEMOTHE	RAPY PREPARATION	I AND STABILITY CHA	RT	
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
Asparaginase-erwinia (asparaginase <i>Erwinia</i> <i>chrysanthemi</i>) 10,000 units (CGF/Jazz) (F) no preservative ²⁰	1-2 mL NS ²⁰ do not shake; mix gently to minimize bubbles and contact with stopper ²⁰	10,000-5000 units/mL	15 min RT ²⁰	syringe ²⁰	4 h RT ²⁰	 contact with the rubber stopper may denature the reconstituted drug, creating filaments of insoluble material; if present, administer with 5 micron filter²⁰ do not use sterile water for reconstitution as the resulting product is not isotonic²⁰
PEG-asparaginase - see pegaspargase in L-Z chart (pegylated asparaginase <i>E. coli</i>)						
Atezolizumab 840 mg/14 mL 1200 mg/20 mL (Hoffman-La Roche) (F)(PFL) do not shake no preservative ²¹	N/A	60 mg/mL ²¹	discard unused portion ²¹	250 mL NS ²¹ mix by gentle inversion ²¹	24 h F, 8 h RT ²¹	- do NOT shake ²¹



	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			
Avelumab 200 mg/10 mL (EMD) (F)(PFL) no preservative ²²	N/A	20 mg/mL ²²	discard unused portion ²³	250 mL NS, ½-NS ²² mix by gentle inversion ²²	complete administration within 24 h F, 8 h RT ²² if refrigerated, bring bag to RT prior to administration ²²	- do NOT shake ²² - administer with 0.2 micron in-line filter 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			
azaCITIDine 100 mg (Celgene) (RT) no preservative ²⁴	4 mL SWI ²⁴ shake vigorously ²⁴ record time of reconstitution	25 mg/mL ²⁴	use within 45 min RT or 8 h F ²⁴	SC syringe ²⁴	45 min RT (including preparation time) or 8 h F ²⁴ refrigerate syringe immediately after preparation if not to be used within 45 min of reconstitution ²⁴ Refrigerated syringes ²⁴ : • allow up to 30 min prior to administration to reach temperature of ~20-25°C • discard syringe if time elapsed at RT is greater than 30 min	 discard if contains large particles²⁴ re-suspend syringe contents before injection by vigorously rolling syringe between palms²⁴ if cold diluent reconstitution is used to extend stability, minimize exposure to RT; ensure proper refrigeration of diluent, reconstituted vial and final product^{25,26} 			
	cold diluent reconstitution: 4 mL SWI at 2-8°C ^{25,26}	25 mg/mL ²⁴	12 h F ^{2,25,26}		22 h F ^{25,26}				



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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			
azaCITIDine 100 mg (Dr. Reddy's) (RT) no preservative ²⁷	4 mL SWI ²⁷ shake vigorously ²⁷	25 mg/mL ²⁷	use within 45 min RT or 8 h F ²⁷	SC syringe ²⁷	45 min RT (including preparation time) or 8 h F ²⁷ refrigerate syringe immediately after preparation if not to be used within 45 min of reconstitution ²⁷ Refrigerated syringes ²⁷ : • allow up to 30 min prior to administration to reach temperature of ~20-25°C • discard syringe if time elapsed at RT is greater than 30 min	 do not filter²⁷ discard if contains large particles²⁷ re-suspend syringe contents before injection by vigorously rolling syringe between palms²⁷ 			



	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			
azaCITIDine 100 mg (Hikma) (RT) no preservative ²⁸	4 mL SWI ²⁸ shake vigorously ²⁸	25 mg/mL ²⁸	use within 45 min RT or 8 h F ²⁸	SC syringe ²⁸	45 min RT (including preparation time) or 8 h F ²⁸ refrigerate syringe immediately after preparation if not to be used within 45 min of reconstitution ²⁸ Refrigerated syringes ²⁸ : • allow up to 30 min prior to administration to reach temperature of ~20-25°C • discard syringe if time elapsed at RT is greater than 30 min	 do not filter²⁸ discard if contains large particles²⁸ re-suspend syringe contents before injection by vigorously rolling syringe between palms²⁸ 			



	BC C	ANCER CHEMOTHEI	RAPY PREPARATION	NAND STABILITY CHA	\RT	
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
BCG (<i>Tice</i> strain) (OncoTICE®) <u>intravesical</u> 50 mg (1 to 8 x 10 ⁸ CFU) (Merck Canada) (F)(PFL) no preservative ²⁹	1 mL preservative-free NS ²⁹ allow to stand for a few min; gently swirl to suspend ²⁹ do NOT shake ²⁹ record time of reconstitution	1 to 8×10 ⁸ CFU/vial ²⁹	2 h F ²⁹ **(PFL) ²⁹	transfer contents from vial to 50 mL syringe, rinse vial with 1 mL NS and transfer rinse solution to the 50 mL syringe, then qs up to 45 mL with NS ²⁹ if a CSTD is used: transfer contents from vial to 50 mL syringe and qs up to 45 mL with NS; do NOT rinse vial ²⁹	use within 2 h F of reconstitution ^{29,30} **(PFL) ²⁹	- auxiliary info: biohazard ³⁰ - do NOT filter ²⁹ - do NOT shake ²⁹



	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		
BCG (<i>Russian</i> strain) (VERITY-BCG®) <u>intravesical</u> 40 mg (1 to 8 x 10 ⁸ CFU) (Verity) (F)(PFL) no preservative ³¹	1 mL preservative-free NS ³¹ allow to stand for a few min; gently swirl to suspend ³¹ do NOT shake ³¹ record time of reconstitution	1 to 8×10 ⁸ CFU/vial ³¹	2 h F ³¹ **(PFL) ³¹	transfer contents from 1 st vial to 50 mL syringe, rinse vial with 1 mL NS and transfer rinse solution to the 50 mL syringe; then, repeat steps for 2 nd vial and qs up to 45 mL with NS ³¹	use within 2 h F of reconstitution ^{30,31} **(PFL) ³¹	 auxiliary info: biohazard³⁰ TWO vials must be used to achieve the recommended full dose³¹ do NOT shake³¹ 		
Belantamab mafodotin 30 mg/1.5 mL (GSK) (frozen)(PFL) do not shake no preservative ³² (SAP)	n/a	20 mg/mL ³²	thaw up to 4 h RT, F before use ³² once thawed: unpunctured vial: 10 d F ³² once thawed: punctured vial: discard unused portion ^{30,32} **(PFL) ³² do NOT shake ³²	0.2-2 mg/mL NS ³² 250 mL* NS ³²	8 h RT ³²	- supplied as frozen liquid ³² - recommended freezer temp ³² is (- 50°C to -15°C) - thawed drug cannot be refrozen ³²		

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Revised Date: 1 May 2024



	BC C	ANCER CHEMOTHER	RAPY PREPARATION	I AND STABILITY CHA	RT	
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
Belantamab mafodotin 100 mg (GSK) (F)(PFL) no preservative ³³ (SAP)	allow vial to stand at RT for 10 min before reconstitution ³⁴ 2 mL SWI ³³ swirl gently to mix; do NOT shake ³⁴	50 mg/mL ³³	use immediately after reconstitution ³³ discard unused portion ³³	0.2-2 mg/mL NS ³³ 250 mL* NS ³³ mix by gentle inversion; do NOT shake ³⁴	complete administration within 8 h RT ³³	- discard if particulate matter is present ³³
Belinostat 500 mg (Spectrum) (RT) no preservative ³⁵ (SAP)	9 mL SWI ³⁵	50 mg/mL ³⁵	12 h RT ³⁵	250 mL NS ³⁵	complete administration within 36 h RT ³⁵	- administer with 0.2 micron in-line filter ³⁵
Bendamustine 25 mg 100 mg (Natco) (RT)(PFL) no preservative ³⁶	25 mg: 5 mL SWI ³⁶ 100 mg: 20 mL SWI ³⁶ shake well; dissolves completely in 5 min ³⁶	5 mg/mL ³⁶	30 min ³⁶	0.2-0.6 mg/mL NS , D2.5-½NS ³⁶ 100-500 mL†	complete administration within 24 h F, 3 h RT ³⁶	



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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		
Bendamustine 25 mg 100 mg (Teva) (RT,F)(PFL) no preservative ³⁷	25 mg: 5 mL SWI ³⁷ 100 mg: 20 mL SW ³⁷ shake well; dissolves completely in 5 min ³⁷	5 mg/mL ³⁷	30 min ³⁷	0.2-0.6 mg/mL NS , D2.5-½NS ³⁷ 100-500 mL†	complete administration within 24 h F, 3 h RT ³⁸			
Bevacizumab (AVASTIN®) 100 mg/4 mL 400 mg/16 mL (Roche) (F)(PFL) do not shake no preservative ³⁹	N/A	25 mg/mL ³⁹	discard unused portion ³⁹	1.4-16.5 mg/mL NS only ³⁹ 100-250 mL†	48 h F , RT ³⁹	- do NOT shake ³⁹		
Bevacizumab (MVASI®) 100 mg/4 mL 400 mg/16 mL (Amgen) (F)(PFL) do not shake no preservative ⁴⁰	N/A	25 mg/mL ⁴⁰	discard unused portion ⁴⁰	1.4-16.5 mg/mL NS only ⁴⁰ 100-250 mL†	48 h F , RT ⁴⁰	- do NOT shake 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
Bevacizumab (ZIRABEV®) 100 mg/4 mL 400 mg/16 mL (Pfizer) (F)(PFL) do not shake no preservative ⁴¹	N/A	25 mg/mL ⁴¹	discard unused portion ⁴¹	1.4-16.5 mg/mL NS only ⁴¹ 100-250 mL†	10 d F, 48 h RT ^{2,41}	- do NOT shake ⁴¹
Bleomycin 15 units (NB: dose in units only) (Fresenius Kabi) (F)(PFL) no preservative ⁴²	6 mL* NS ⁴²	2.5 units/mL	12 h F ^{2,42}	50 mL* NS ⁴²	24 h RT ⁴²	
Bleomycin 15 units (NB: dose in units only) (Pfizer/Hospira) (F)(PFL) no preservative ⁴³	6 mL* NS, SWI ⁴³	2.5 units/mL	12 h F , RT ^{2,43}	50 mL* NS ⁴³	4 h RT ^{2,30,43}	



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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
Blinatumomab 38.5 mcg (Amgen) (F)(PFL) do not shake no preservative ⁴⁴	3 mL SWI ⁴⁴ do NOT use supplied IV solution stabilizer to reconstitute vials ⁴⁴ direct diluent against side of vial during reconstitution ⁴⁴ gently swirl to avoid excess foaming ⁴⁴	12.5 mcg/mL ⁴⁴	12 h F ^{2,45} , 4 h RT ⁴⁵	250 mL NS ⁴⁴ add supplied IV solution stabilizer to NS bag and gently mix to avoid foaming ⁴⁴ add reconstituted drug to bag following addition of IV solution stabilizer ⁴⁴	complete administration within 10 d F, 96 h RT ⁴⁵	 use non-DEHP bag and IV administration set⁴⁴ administer with 0.2 micron in-line filter⁴⁴ prime lines with blinatumomab solution; do NOT use NS
Bortezomib <u>SC injection</u> 3.5 mg (Actavis) (RT)(PFL) no preservative ⁴⁶	1.4 mL NS ⁴⁶	2.5 mg/mL ⁴⁶	12 h F , RT ^{2,47}	SC syringe ⁴⁶	10 d F, 4 d RT ^{2,47}	- auxiliary info: WARNING: SUBCUTANEOUS use only. Fatal if given by other routes.



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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
Bortezomib 3.5 mg (Actavis) (RT)(PFL) no preservative ⁴⁶	3.5 mL NS ⁴⁶	1 mg/mL ⁴⁶	12 h F , RT ^{2,47}	IV syringe ⁴⁶	10 d F, 4 d RT ^{2,47}	- auxiliary info: WARNING: INTRAVENOUS use only. Fatal if given by other routes.
Bortezomib <u>SC injection</u> 3.5 mg (Apotex) (RT)(PFL) no preservative ⁴⁸	1.4 mL NS ⁴⁸	2.5 mg/mL ⁴⁸	12 h F , RT ^{2,49}	SC syringe ⁴⁸	10 d F, 4 d RT ^{2,49}	- auxiliary info: WARNING: SUBCUTANEOUS use only. Fatal if given by other routes.
Bortezomib 3.5 mg (Apotex) (RT)(PFL) no preservative ⁴⁸	3.5 mL NS ⁴⁸	1 mg/mL ⁴⁸	12 h F , RT ^{2,49}	IV syringe ⁴⁸	10 d F, 4 d RT ^{2,49}	- auxiliary info: WARNING: INTRAVENOUS use only. Fatal if given by other routes.



	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			
Bortezomib <u>SC injection</u> 3.5 mg (Janssen) (RT)(PFL) no preservative ⁵⁰	1.4 mL NS ⁵⁰	2.5 mg/mL ⁵⁰	12 h F , RT ^{2,47}	SC syringe ⁵⁰	10 d F, 4 d RT ^{2,47}	- auxiliary info: WARNING: SUBCUTANEOUS use only. Fatal if given by other routes.			
Bortezomib 3.5 mg (Janssen) (RT)(PFL) no preservative ⁵⁰	3.5 mL NS ⁵⁰	1 mg/mL ⁵⁰	12 h F , RT ^{2,47}	IV syringe ⁵⁰	10 d F, 4 d RT ^{2,47}	- auxiliary info: WARNING: INTRAVENOUS use only. Fatal if given by other routes.			
Bortezomib <u>SC injection</u> 2.5 mg 3.5 mg (Juno/MDA) (RT)(PFL) no preservative ⁵¹	2.5 mg: 1 mL NS⁵¹ 3.5 mg: 1.4 mL NS⁵¹	2.5 mg/mL⁵¹	12 h F , RT ^{2,52}	SC syringe ⁵¹	10 d F, 4 d RT ^{2,52}	- auxiliary info: WARNING: SUBCUTANEOUS use only. Fatal if given by other routes.			



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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			
Bortezomib 1 mg 2.5 mg 3.5 mg (Juno/MDA) (RT)(PFL) no preservative ⁵¹	1 mg: 1 mL NS ⁵¹ 2.5 mg: 2.5 mL NS ⁵¹ 3.5 mg: 3.5 mL NS ⁵¹	1 mg/mL⁵¹	12 h F , RT ^{2,52}	IV syringe ⁵¹	10 d F, 4 d RT ^{2,52}	- auxiliary info: WARNING: INTRAVENOUS use only. Fatal if given by other routes.			
Bortezomib <u>SC injection</u> 3.5 mg (Marcan) (RT)(PFL) no preservative ⁵³	1.4 mL NS ⁵³	2.5 mg/mL ⁵³	12 h F, RT ^{2,54,55}	SC syringe ⁵³	10 d F, 2 d RT ^{2,54,55}	- auxiliary info: WARNING: SUBCUTANEOUS use only. Fatal if given by other routes.			
Bortezomib 3.5 mg (Marcan) (RT)(PFL) no preservative ⁵³	3.5 mL NS ⁵³	1 mg/mL ⁵³	12 h F, RT ^{2,54,55}	IV syringe ⁵³	10 d F, 2 d RT ^{2,54,55}	- auxiliary info: WARNING: INTRAVENOUS use only. Fatal if given by other routes.			



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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
Bortezomib <u>SC injection</u> 3.5 mg (PMS) (RT)(PFL) no preservative ⁵⁶	1.4 mL NS ⁵⁶	2.5 mg/mL ⁵⁶	8 h RT⁵	SC syringe ⁵⁶	8 h RT ⁵⁶	- auxiliary info: WARNING: SUBCUTANEOUS use only. Fatal if given by other routes.
Bortezomib 3.5 mg (PMS) (RT)(PFL) no preservative ⁵⁶	3.5 mL NS ⁵⁶	1 mg/mL ⁵⁶	8 h RT ⁵⁶	IV syringe ⁵⁶	8 h RT ⁵⁶	- auxiliary info: WARNING: INTRAVENOUS use only. Fatal if given by other routes.
Bortezomib <u>SC injection</u> 1 mg 2.5 mg 3.5 mg (Taro) (RT)(PFL) no preservative ⁵⁷	1 mg: 0.4 mL NS ⁵⁷ 2.5 mg: 1 mL NS ⁵⁷ 3.5 mg: 1.4 mL NS ⁵⁷	2.5 mg/mL ⁵⁷	8 h RT⁵7	SC syringe ⁵⁷	8 h RT ⁵⁷	- auxiliary info: WARNING: SUBCUTANEOUS use only. Fatal if given by other routes.



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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
Bortezomib 1 mg 2.5 mg 3.5 mg (Taro) (RT)(PFL) no preservative ⁵⁷	1 mg: 1 mL NS ⁵⁷ 2.5 mg: 2.5 mL NS ⁵⁷ 3.5 mg: 3.5 mL NS ⁵⁷	1 mg/mL ⁵⁷	8 h RT ⁵⁷	IV syringe ⁵⁷	8 h RT ⁵⁷	- auxiliary info: WARNING: INTRAVENOUS use only. Fatal if given by other routes.
Bortezomib <u>SC injection</u> 3.5 mg (Teva) (RT)(PFL) no preservative ⁵⁸	1.4 mL NS ⁵⁸	2.5 mg/mL ⁵⁸	12 h F , RT ^{2,47}	SC syringe ⁵⁸	10 d F, 4 d RT ^{2,47}	- auxiliary info: WARNING: SUBCUTANEOUS use only. Fatal if given by other routes.
Bortezomib 3.5 mg (Teva) (RT)(PFL) no preservative ⁵⁸	3.5 mL NS ⁵⁸	1 mg/mL⁵ ⁸	12 h F , RT ^{2,47}	IV syringe ⁵⁸	10 d F, 4 d RT ^{2,47}	- auxiliary info: WARNING: INTRAVENOUS use only. Fatal if given by other routes.



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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
Brentuximab vedotin 50 mg (Seagen) (F)(PFL) no preservative ⁵⁹	10.5 mL SWI ⁵⁹ direct diluent against side of vial during reconstitution ⁵⁹ do NOT shake ⁵⁹	5 mg/mL⁵9	12 h F ^{2,59}	0.4-1.8 mg/mL NS, D5W, Lactated Ringer's ⁵⁹ 50-100 mL† gently invert to mix ⁵⁹	24 h F ^{2,59}	- solution should be colorless, clear to slightly opalescent, and free of visible particulates ⁵⁹
Busulfan 60 mg/10 mL (PMS) (F) no preservative ⁶⁰	N/A	6 mg/mL ⁶⁰	discard unused portion ^{30,60}	dilute to volume 10 times drug volume to achieve final concentration of ~0.5 mg/mL NS, D5W ⁶⁰ 250-1000 mL†	complete administration within 12 h F, 8 h RT ⁶⁰	- contains DMA*** - always add busulfan to diluent to mix; do not add diluent to busulfan ⁶⁰



	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		
Busulfan 60 mg/10 mL (SteriMax) (F) no preservative ⁶¹	N/A	6 mg/mL ⁶¹	discard unused portion ^{23,61}	dilute to volume 10 times drug volume to achieve final concentration of ~0.5 mg/mL NS , D5W ⁶¹ 250-1000 mL†	in NS : complete administration within 12 h F, 8 h RT ⁶¹ in D5W : complete administration within 8 h RT ⁶¹	- contains DMA*** - always add busulfan to diluent to mix; do not add diluent to busulfan ⁶¹		
Cabazitaxel 60 mg/1.5 mL (Dr. Reddy's) (RT) no preservative ⁶²	supplied diluent: withdraw entire contents of diluent vial and inject into the concentrate vial ⁶² slowly direct diluent against inside of vial to limit foaming ⁶² mix by repeated inversions for 45 sec ⁶² do NOT shake ⁶² let sit for 5 min ⁶²	10 mg/mL ⁶²	1 h RT ⁶²	0.10-0.26 mg/mL NS, D5W ⁶² 100-250 mL†	complete administration within 48 h F, 8 h RT ⁶²	 use non-DEHP bag and tubing⁶² administer with 0.2 micron in-line filter⁶² concentrate and diluent vials contain overfill⁶² diluent contains 13% (w/w) ethanol in water⁶² discard if crystallization occurs⁶² 		

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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		
Cabazitaxel 45 mg/4.5 mL 60 mg/6 mL (Sandoz) (RT) preservative ⁶³	N/A	10 mg/mL ⁶³	10 d F , RT ⁶³	0.10-0.26 mg/mL NS , D5W ⁶³ 100-250 mL†	complete administration within 48 h F, 8 h RT ⁶³	 use non-DEHP bag and tubing⁶³ administer with 0.2 micron in-line filter⁶³ vials contain overfill⁶³ 		
Cabazitaxel 60 mg/1.5 mL (sanofi-aventis) (RT) no preservative ⁶⁴	supplied diluent: withdraw entire contents of diluent vial and inject into the concentrate vial ⁶⁴ slowly direct diluent against inside of vial to limit foaming ⁶⁴ mix by repeated inversions for 45 sec ⁶⁴ do NOT shake ⁶⁴ let sit for 5 min ⁶⁴	10 mg/mL ⁶⁴	1 h RT ⁶⁴	0.10-0.26 mg/mL NS , D5W ⁶⁴ 100-250 mL†	complete administration within 48 h F, 8 h RT ⁶⁴	 use non-DEHP bag and tubing⁶⁴ administer with 0.2 micron in-line filter⁶⁴ concentrate and diluent vials contain overfill⁶⁴ diluent contains 13% (w/w) ethanol in water⁶⁴ discard if crystallization occurs⁶⁴ 		



	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			
CARBOplatin 50 mg/5 mL 150 mg/15 mL 450 mg/45 mL 600 mg/60 mL (Accord) (RT)(PFL) no preservative ⁶⁵	N/A	10 mg/mL ⁶⁵	discard unused portion ⁶⁵	0.5-10 mg/mL NS , D5W ⁶⁵ 50-250 mL†	24 h F, 8 h RT ⁶⁵	- do NOT use aluminum- containing needle, syringe, or tubing ⁶⁵			
CARBOplatin 50 mg/5 mL 150 mg/15 mL 450 mg/45 mL 600 mg/60 mL (Omega) (RT)(PFL) no preservative ⁶⁶	N/A	10 mg/mL ⁶⁶	discard unused portion ⁶⁶	0.3-10 mg/mL NS , D5W ⁶⁶ 50-250 mL†	48 h F ⁶⁶ , 24 h RT ⁶⁷	- do NOT use aluminum- containing needle, syringe or tubing ⁶⁶			
CARBOplatin 50 mg/5 mL 150 mg/15 mL 450 mg/45 mL 600 mg/60 mL (Pfizer/Hospira) (RT)(PFL) no preservative ⁶⁸	N/A	10 mg/mL ⁶⁸	discard unused portion ⁶⁸	0.3-10 mg/mL NS , D5W ⁶⁸ 50-250 mL†	48 h F ⁶⁸	- do NOT use aluminum- containing needle, syringe, or tubing ⁶⁸			



	BC C	ANCER CHEMOTHE	RAPY PREPARATION	NAND STABILITY CHA	RT	
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
CARBOplatin 50 mg/5 mL 150 mg/15 mL 450 mg/45 mL (Teva) (RT)(PFL) no preservative ⁶⁹	N/A	10 mg/mL ⁶⁹	discard unused portion RT ⁶⁹	0.5-10 mg/mL ⁷⁰ NS , D5W ^{69,71,72} 50-250 mL†	8 h F ⁷³ , RT ⁶⁹	- do NOT use aluminum- containing needle, syringe, or tubing ⁶⁹
Carfilzomib 10 mg 30 mg 60 mg (Amgen) (F)(PFL) no preservative ⁷⁴	10 mg: 5 mL SWI ⁷⁴ 30 mg: 15 mL SWI ⁷⁴ 60 mg: 29 mL SWI ⁷⁴ direct diluent against side of vial during reconstitution ⁷⁴ swirl gently; do NOT shake ⁷⁴ if foaming occurs, allow to settle until clear (~5 min) ⁷⁴	2 mg/mL ⁷⁴	12 h F , 4 h RT ^{2,74}	50-100 mL* D5W only ⁷⁴ do NOT dilute in NS ⁷⁴	24 h F , 4 h RT ^{2,74}	 if a CSTD is not used in compounding, a 21 gauge (or larger gauge) needle is recommended to prevent coring of the vial stopper⁷⁵⁻⁷⁷ do not use NS for reconstitution or dilution⁷⁴ discard if contains particulates⁷⁴



	BC C	ANCER CHEMOTHE	RAPY PREPARATION	AND STABILITY CHA	RT	
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
Carmustine 100 mg (SteriMax) (F) no preservative ⁷⁸	3mL supplied diluent ⁷⁸ bring drug and diluent vials to RT prior to mixing ⁷⁸ completely dissolve drug in diluent, then add 27 mL SWI ⁷⁸	3.3 mg/mL in ethanol 10% ⁷⁸	48 h F ⁷⁸ precipitates can be re-dissolved by warming the vial to RT with gentle shaking ⁷⁸	500 mL NS, D5W ⁷⁸ in glass or polypropylene containers ONLY ⁷⁸	8 h RT ⁷⁸ or 48 h F plus an additional 6 h RT ⁷⁸ **(PFL) ⁷⁸	 supplied diluent is dehydrated alcohol⁷⁸ do not use vial if oily film is present⁷⁸ final product should be gently shaken for ~10 sec to remix bag contents prior to administration⁷⁸ administer with PVC-free infusion set⁷⁸ protect from light for administration⁷⁸
Cemiplimab 250 mg/5 mL 350 mg/7 mL (sanofi) (F)(PFL) do not shake no preservative ⁷⁹	N/A	50 mg/mL ⁷⁹	discard unused portion ^{30,79}	1-20 mg/mL NS, D5W ⁷⁹ 50 mL† mix by gentle inversion	complete administration within 24 h F, 8 h RT ⁷⁹	- administer with 0.2 micron filter ⁷⁹ - solution may contain white particulates which do not affect product quality ⁷⁹



	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		
Cetuximab 100 mg/50 mL 200 mg/100 mL (Imclone/Lilly) (F) do not shake no preservative ⁸⁰	N/A	2 mg/mL ⁸⁰	12 h F, 8 h RT ⁸⁰	syringe ⁸⁰ evacuated container or bag ⁸⁰	12 h F, 8 h RT ⁸⁰	 administer with 0.2 micron filter⁸⁰ solution may contain white particulates which do not affect product quality⁸⁰ 		
CISplatin 10 mg/10 mL 50 mg/50 mL 100 mg/100mL (Accord) (RT)(PFL) no preservative ⁸¹	N/A	1 mg/mL ⁸¹	discard unused portion ³⁰	NS ⁸¹ 100-500 mL† or 2 L D5-1⁄2NS or D5-1⁄3NS containing 37.5 g of mannitol ⁸¹	24 h RT ⁸¹	- do NOT use aluminum- containing needle, syringe or tubing ⁸¹ - suggested dose limits relate to the physical limitations of the bag size and added drug volume; it is not a concentration- dependent property of the drug - for ULY0 D-PACE protocol, see entry for DPACE (3-in-1 solution containing etoposide, CISplatin, cyclophosphamide)		



	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			
CISplatin 50 mg/50 mL 100 mg/100mL (Pfizer/Hospira) (RT)(PFL) no preservative ⁸²	N/A	1 mg/mL ⁸²	discard unused portion ³⁰	NS ⁸² 100-500 mL† or 2 L D5-1/2NS or D5-1/3NS containing 37.5 g of mannitol ⁸²	24 h RT ⁸²	 do NOT use aluminum- containing needle, syringe or tubing⁸² suggested dose limits relate to the physical limitations of the bag size and added drug volume; it is not a concentration- dependent property of the drug for ULY0 D-PACE protocol, see entry for DPACE (3-in-1 solution containing etoposide, CISplatin, cyclophosphamide) 			



	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		
CISplatin 10 mg/10 mL 50 mg/50 mL 100 mg/100mL (Sandoz) (RT)(PFL) no preservative ⁸³	N/A	1 mg/mL ⁸³	12 h RT ^{2,84}	NS ⁸³ 100-500 mL† or 2 L D5-1⁄2NS or D5-1⁄3NS containing 37.5 g of mannitol ⁸³	24 h RT ⁸⁴	- do NOT use aluminum- containing needle, syringe or tubing ⁸³ - suggested dose limits relate to the physical limitations of the bag size and added drug volume; it is not a concentration- dependent property of the drug - for ULY0 D-PACE protocol, see entry for DPACE (3-in-1 solution containing etoposide, CISplatin, cyclophosphamide)		



	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		
CISplatin 10 mg/10 mL 50 mg/50 mL 100 mg/100mL (Teva) (RT)(PFL) no preservative ⁸⁵	N/A	1 mg/mL ⁸⁵	discard unused portion ²³	NS ⁸⁵ 100-500 mL† or 2 L D5-1⁄2NS or D5-1⁄3NS containing 37.5 g of mannitol ⁸⁵	24 h RT ⁸⁵	- do NOT use aluminum- containing needle, syringe or tubing ⁸⁵ - suggested dose limits relate to the physical limitations of the bag size and added drug volume; it is not a concentration- dependent property of the drug - for ULY0 D-PACE protocol, see entry for DPACE (3-in-1 solution containing etoposide, CISplatin, cyclophosphamide)		



	BC C	ANCER CHEMOTHER	RAPY PREPARATION	I AND STABILITY CHA	RT	
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
Cladribine 10 mg/10 mL (Fresenius Kabi) (F)(PFL) no preservative ⁸⁶	N/A	1 mg/mL ⁸⁶	discard unused potion ⁸⁶	SC syringe ⁸⁷	48 h F, discard end of day RT ^{30,88,89}	
				500 mL NS only ⁸⁶	24 h RT ⁸⁶	
				do NOT use D5W ⁸⁶		
				Cassette: qs to 100 mL with bacteriostatic NS only via SIMS DELTEC INC. MEDICATION CASSETTES® ⁸⁶ filter drug and diluent through 0.22 micron filter as each solution is being introduced into the cassette ⁸⁶	at least 7 days ⁸⁶	



	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			
Cladribine 10 mg/10 mL (GMP) (F)(PFL) no preservative ⁹⁰	N/A	1 mg/mL ⁹⁰	discard unused portion ^{30,90}	SC syringe ⁸⁷	48 h F, discard end of day RT ^{30,88,89}				
				500 mL NS only ⁹⁰ do NOT use D5W ⁹⁰	24 h RT ⁹⁰				
				Cassette: qs to 100 mL with bacteriostatic NS only via SIMS DELTEC INC. MEDICATION CASSETTES® ⁹⁰	at least 7 days ⁹⁰				
				filter drug and diluent through 0.22 micron filter as each solution is being introduced into the cassette ⁹⁰					



	BC C	ANCER CHEMOTHE	RAPY PREPARATION	I AND STABILITY CHA	RT	
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
Crisantaspase (recombinant asparaginase <i>Erwinia</i> <i>chrysanthemum</i>) 10 mg/0.5 mL (Jazz) (F)(PFL) do not shake preservative free ⁹¹	N/A	20 mg/mL ⁹¹	discard unused portion ⁹¹	IM syringe ⁹¹ max volume: 2 mL if volume >2 mL, use multiple sites ⁹¹	use within 4 h RT ⁹¹ (PFL NOT required for syringe) ⁹¹	 discard if cloudy, discoloured, or contains particulates⁹¹ do NOT shake⁹¹
Cyclophosphamide 200 mg 500 mg 2000 mg (Baxter) (RT)(PFL) no preservative ⁹²	200 mg ⁹² : 10 mL NS 500 mg ⁹² : 25 mL NS 1000 mg ⁹² : 50 mL NS 2000 mg ⁹² : 100 mL NS	20 mg/mL ⁹²	12 h F , RT ^{2,92}	NS, D5W, D5NS ⁹² 100-250 mL† high dose in BMT: may need 500 mL*	36 h F, 24 h RT ⁹³⁻⁹⁵	- suggested dose limits relate to the physical limitations of the bag size and added drug volume; it is not a concentration- dependent property of the drug - for ULY0 D-PACE protocol, see entry for DPACE (3-in-1 solution containing etoposide, CISplatin, cyclophosphamide)



	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		
Cytarabine 1000 mg/10mL 2000 mg/20mL (Pfizer/Hospira) (RT)(PFL) no preservative ⁹⁶	N/A	100 mg/mL ⁹⁶	12 h RT ^{2,96}	0.1-37.5 mg/mL NS, D5W, SWI ⁹⁶ 100 mL†	in NS: 4 d RT ^{2,96} other solutions: 72 h F, 24 h RT ⁹⁶ **(PFL) ⁹⁶			
Cytarabine <u>IT injection</u> 1000 mg/10mL 2000 mg/20mL (Pfizer/Hospira) (RT)(PFL) no preservative ⁹⁶	N/A record time of puncture	100 mg/mL ⁹⁶	use within 4 h of initial puncture ²	IT syringe qs to 6 mL with preservative free NS ⁹⁷⁻⁹⁹ diluents containing preservatives should_ NOT be used for intrathecal administration ¹⁰⁰	use within 4 h of initial puncture ² **(PFL) ⁹⁶	- auxiliary info ² : IT - label to include route in full (i.e., INTRATHECAL injection) attached to both syringe and outer ziplock bag ⁹⁹		
Cytarabine <u>SC injection</u> 1000 mg/10mL 2000 mg/20mL (Pfizer/Hospira) (RT)(PFL) no preservative ⁹⁶	N/A	100 mg/mL ⁹⁶	12 h RT ^{2,96}	SC syringe	10 d F, 4 d RT ^{2,101-103} **(PFL) ⁹⁶			



	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		
Cytarabine 1000 mg/10mL 2000 mg/20mL (PMS) (RT)(PFL) no preservative ¹⁰⁴	N/A	100 mg/mL ¹⁰⁴	discard unused portion ^{30,104}	0.1-37.5 mg/mL NS, D5W, SWI ¹⁰⁴ 100 mL†	10 d F, 48 h RT ¹⁰⁴ **(PFL)			
Cytarabine <u>IT injection</u> 1000 mg/10mL 2000 mg/20mL (PMS) (RT)(PFL) no preservative ¹⁰⁴	N/A record time of puncture	100 mg/mL ¹⁰⁴	use within 4 h of initial puncture ³⁰	IT syringe qs to 6 mL with preservative free NS ^{97,98} diluents containing preservatives should_ NOT be used for intrathecal administration ¹⁰⁰	use within 4 h of initial puncture ³⁰ **(PFL)	- auxiliary info: IT ³⁰ - label to include route in full (i.e., INTRATHECAL injection) attached to both syringe and outer ziplock bag ⁹⁹		
Cytarabine <u>SC injection</u> 1000 mg/10mL 2000 mg/20mL (PMS) (RT)(PFL) no preservative ¹⁰⁴	N/A	100 mg/mL ¹⁰⁴	discard unused portion ^{30,104}	SC syringe	10 d F, 48 h RT ¹⁰⁴ **(PFL)			



	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			
Cytarabine 2000 mg/20mL (SteriMax) (RT)(PFL) no preservative ¹⁰⁵	N/A	100 mg/mL ¹⁰⁵	12 h RT ^{2,105}	0.1-37.5 mg/mL NS , D5W, SWI, LR ¹⁰⁵ 100 mL*	in NS: 4 d RT ^{2,105} other solutions: 72 h F, 24 h RT ¹⁰⁵ **(PFL) ¹⁰⁵				
Cytarabine <u>IT injection</u> 2000 mg/20mL (SteriMax) (RT)(PFL) no preservative ¹⁰⁵	N/A record time of puncture	100 mg/mL ¹⁰⁵	use within 4 h of initial puncture ²	IT syringe qs to 6 mL with preservative free NS ⁹⁷⁻⁹⁹ diluents containing preservatives should_ NOT be used for intrathecal administration ¹⁰⁰	use within 4 h of initial puncture ² **(PFL) ¹⁰⁵	- auxiliary info: IT ² - label to include route in full (i.e., INTRATHECAL injection) attached to both syringe and outer ziplock bag ⁹⁹			
Cytarabine <u>SC injection</u> 2000 mg/20mL (SteriMax) (RT)(PFL) no preservative ¹⁰⁵	N/A	100 mg/mL ¹⁰⁵	12 h RT ^{2,105}	SC syringe	10 d F, 4 d RT ^{2,101-103} **(PFL) ¹⁰⁵				



	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		
Dacarbazine 600 mg (Pfizer) (F)(PFL) no preservative ¹⁰⁶	59.1 mL SWI ¹⁰⁶	10 mg/mL ¹⁰⁶	12 h F, 8 h RT ^{2,106}	0.19-3.0 mg/mL NS , D5W ¹⁰⁶ 500-1000 mL†	24 h F ¹⁰⁶ **(PFL) ¹⁰⁷	- protect container from light during administration ¹⁰⁷		
DACTINomycin 0.5 mg (GMD Pharma for Recordati) (RT)(PFL) no preservative ¹⁰⁸ (SAP)	1.1 mL SWI (preservative-free) ¹⁰⁸ do NOT use SWI with preservative (may form precipitate) ¹⁰⁸	0.5 mg/mL (500 mcg/mL) ¹⁰⁸	discard unused portion ¹⁰⁹	syringe ¹⁰⁸ 10 mcg/mL or greater ¹⁰⁸ NS , D5W ^{108,110}	use within 4 h of initial vial puncture ¹⁰⁹	- drug loss reported with some cellulose ester membrane in- line filters ¹⁰⁸		
Daratumumab 100 mg/5mL 400 mg/20mL (Janssen) (F)(PFL) do not shake no preservative ¹¹¹	N/A	20 mg/mL ¹¹¹	discard unused portion ¹¹¹	500-1000 mL NS dilute to final volume by withdrawing volume from bag equal to volume of drug to be added ¹¹¹ mix by gentle inversion ¹¹¹	24 h F, followed by 15 h infusion (total 39 h) ¹¹¹ allow bag to come to RT, then use immediately ¹¹¹ **(PFL)	 administer with 0.2 micron in-line filter¹¹¹ discard if visible particles are observed¹¹¹ complete infusion within 15 h¹¹¹ 		



	BC C	ANCER CHEMOTHER	RAPY PREPARATION	AND STABILITY CHA	RT	
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
Daratumumab <u>subcutaneous</u> (DARZALEX SC®) 1800 mg/15 mL (Janssen) (F)(PFL) do not shake no preservative ¹¹²	N/A	120 mg/mL ¹¹² allow vial to come to RT prior to use ¹¹²	discard unused portion ^{2,112}	SC syringe ¹¹²	24 h F, plus an additional 12 h RT ¹¹² bring to RT prior to use ¹¹²	 contains hyaluronidase¹¹² formulations are NOT interchangeable¹¹² discard if opaque particles or discolouration are present¹¹² unpunctured vial may be stored up to 24 h at RT¹¹²
DAUNOrubicin 20 mg (Erfa) (RT)(PFL) no preservative ¹¹³	4 mL SWI ¹¹³	5 mg/mL ¹¹³	12 h F , RT ^{2,113} **(PFL) ¹¹³	100-250 mL NS , D5W ¹¹³	48 h F, 24 h RT ¹¹⁴ **(PFL) ¹¹³	



	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		
Daunorubicin- cytarabine liposome 44 mg-100 mg (Jazz) (F)(PFL) no preservative ¹¹⁵	19 mL SWI ¹¹⁵ allow vial to come to RT for 30 min prior to use ¹¹⁵ swirl gently for 5 min, inverting the vial every 30 sec; do NOT shake ¹¹⁵ allow vial to rest for 15 min after reconstitution ¹¹⁵ gently invert each vial 5 times prior to withdrawing concentrate for dilution ¹¹⁵ record time of reconstitution	2.2 mg/mL daunorubicin- 5 mg/mL cytarabine ¹¹⁵	4 h F ¹¹⁵ max combined storage time for reconstituted vial and diluted product is 4 h F (NOT 4 h F each) ¹¹⁵	500 mL NS, D5W ¹¹⁵ mix by gentle inversion ¹¹⁵	4h F ¹¹⁵ max combined storage time for reconstituted vial and diluted product is 4 h F (NOT 4 h F each) ¹¹⁵	- reconstituted product is an opaque, purple, homogenous dispersion ¹¹⁵ - before administration, final product should be gently inverted to remix solution after refrigeration ¹¹⁵		



	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			
Degarelix 80 mg 120 mg (Ferring) (RT)	80 mg: 4.2 mL SWI (supplied diluent) ¹¹⁶	20 mg/mL ¹¹⁶	2 h RT ¹¹⁶	SC syringe ¹¹⁶	2 h RT ¹¹⁶				
do not shake ¹¹⁶ no preservative ¹¹⁷	120 mg: 3 mL SWI (supplied diluent) ¹¹⁶	40 mg/mL ¹¹⁶							
	swirl gently; avoid shaking to prevent foam formation ¹¹⁶								
	reconstitution may take up to 15 min ¹¹⁶								



	BC C	ANCER CHEMOTHE	RAPY PREPARATION	I AND STABILITY CHA	RT	
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
Denosumab (XGEVA®) 120 mg/1.7 mL (Amgen) (F)(PFL) do not shake no preservative ¹¹⁸	N/A	71 mg/mL ¹¹⁸	discard unused portion ^{109,118}	SC syringe ¹¹⁸	use within 4 h F, RT of initial puncture ¹⁰⁹ bring to RT 15-30 min prior to use ¹¹⁸	 not interchangeable with PROLIA¹¹⁸ do not use if solution is cloudy; trace amounts of translucent to white proteinaceous particles are acceptable¹¹⁸ avoid vigorous shaking¹¹⁸
Dexrazoxane 250 mg 500 mg (Hikma USA) (RT) no preservative ^{119,120}	250 mg: 25 mL SWI ¹²⁰ 500 mg: 50 mL SWI ¹²⁰	10 mg/mL ¹²⁰	3 h F, 30 min RT ¹²⁰	MUST BE FURTHER DILUTED with Lactated Ringers to 1.3-3.0 mg/mL ¹²⁰	4 h F, 1 h RT ¹²⁰	
Dexrazoxane 250 mg 500 mg (Pfizer) (RT) no preservative ¹²¹	250 mg: 25 mL SWI ¹²¹ 500 mg: 50 mL SWI ¹²¹	10 mg/mL ¹²¹	3 h F, 30 min RT ¹²¹	MUST BE FURTHER DILUTED with Lactated Ringers to 1.3-3.0 mg/mL ¹²¹	4 h F, 1 h RT ¹²¹	



	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		
Dinutuximab 17.5 mg/5 mL (Unither/United Therapies) (F)(PFL) do not shake no preservative ¹²²	N/A	3.5 mg/mL ¹²²	discard unused portion ³⁰	100 mL NS ¹²² mix by gentle inversion ¹²²	initiate infusion within 4 h of dilution; refrigerate bag if not hung immediately ¹²² complete administration within 24 h of dilution ¹²²	- do NOT shake ¹²²		



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	
DOCEtaxel 20 mg/2 mL 80 mg/8 mL 160 mg/16 mL (Pfizer/Hospira) (F, RT)(PFL) preservative ¹²³	N/A	10 mg/mL ¹²³	20mg: discard unused portion ^{2,123} 80 mg or 160 mg: 28 d F ^{2,123} **(PFL) ¹²³ (max number of punctures: up to 3 doses can be removed when a filtered venting needle [e.g., Chemo- Vent®] is also inserted, i.e., 6 punctures total) ¹²⁴	0.3-0.74 mg/mL NS, D5W ¹²³ 100-500 mL†	10 d F, 4 d RT ^{2,125} **(PFL) ¹²⁵ during F storage	- use non-DEHP bag and IV administration set ¹²³	



	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		
DOCEtaxel <u>intravesical</u> 20 mg/2 mL 80 mg/8 mL 160 mg/16 mL (Pfizer/Hospira) (F, RT)(PFL) preservative ¹²³	N/A	10 mg/mL ¹²³	20 mg: discard unused portion ^{2,123} 80 mg or 160 mg: 28 d F ^{2,123} **(PFL) ¹²³ (max number of punctures: up to 3 doses can be removed when a filtered venting needle [e.g., Chemo- Vent®] is also inserted, i.e., 6 punctures total) ¹²⁴	syringe dilute with NS to final volume of 45 mL ^{126,127}	up to 0.9 mg/mL: 10 d F, 4 d RT ^{2,125} **(PFL) ¹²⁵ during F storage			
DOCEtaxel 20 mg/2 mL 80 mg/8 mL 160 mg/16 mL (Sandoz) (F,RT)(PFL) preservative ¹²⁸	N/A	10 mg/mL ¹²⁸	28 d F , RT ^{2,129}	0.3-0.74 mg/mL NS , D5W ¹²⁸ 100-500 mL†	24 h F, 4 h RT ^{2,130}	- use non-DEHP bag and IV administration set ¹²⁸		



	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		
DOCEtaxel <u>intravesical</u> 20 mg/2 mL 80 mg/8 mL 160 mg/16 mL (Sandoz) (F,RT)(PFL) preservative ¹²⁸	N/A	10 mg/mL ¹²⁸	28 d F , RT ^{2,129}	syringe dilute with NS to final volume of 45 mL ^{126,127}	up to 0.9 mg/mL ^{131,132} : use immediately after preparation to prevent particle formation ^{2,130}	- particle formation occurs earlier with higher temperature and higher concentrations ¹³⁰		
DOXOrubicin 10 mg/5 mL 20 mg/10 mL 50 mg/25 mL 200 mg/100 mL	N/A	2 mg/mL ¹³³	8 h ¹³³	syringe ¹³³	24 h F , RT from initial vial puncture ¹³³	- for LYEPOCHR protocol, see entry for EPOCHR (3-in-1 solution		
(Accord) (F)(PFL) no preservative ¹³³				0.01–2 mg/mL NS ^{134,135} 1000 mL ¹³⁶⁻¹³⁸	24 h RT ^{134,135}	containing either etoposide or etoposide phosphate AND DOXOrubicin and vinCRIStine)		



	BC C	ANCER CHEMOTHE	RAPY PREPARATION	AND STABILITY CHA	RT	
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
DOXOrubicin 10 mg/5 mL 20 mg/10 mL 50 mg/25 mL 200 mg/100 mL	N/A	2 mg/mL ¹³⁹	8 h ¹³⁹	syringe ¹³⁹	48 h F, 24 h RT ¹³⁹ from initial vial puncture	- for LYEPOCHR protocol, see entry for EPOCHR (3-in-1 solution
(Teva) (F)(PFL) no preservative ¹³⁹				0.01–2 mg/mL NS ^{134,135} 1000 mL ¹³⁶⁻¹³⁸	24 h RT ^{134,135}	containing either etoposide or etoposide phosphate AND DOXOrubicin and vinCRIStine)
DOXOrubicin 10 mg/5 mL 50 mg/25 mL 200 mg/100 mL	N/A	2 mg/mL ¹⁴⁰	discard unused portion ^{109,140}	syringe ¹⁴⁰	48 h F, 24 h RT ¹⁴⁰	- for LYEPOCHR protocol, see entry for EPOCHR
(Pfizer) (F) no preservative ¹⁴⁰				0.01–2 mg/mL NS ^{134,135} 1000 mL ¹³⁶⁻¹³⁸	24 h RT ^{134,135}	(3-in-1 solution containing either etoposide or etoposide phosphate AND DOXOrubicin and vinCRIStine)



	BC C	ANCER CHEMOTHER	RAPY PREPARATION	AND STABILITY CHA	RT	
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
DOXOrubicin Pegylated Liposomal 20 mg/10 mL (Janssen) (F) no preservative ¹⁴¹	N/A	2 mg/mL ¹⁴¹	discard unused portion ¹⁴¹	D5W only ¹⁴¹ <90 mg: 250 mL ¹⁴¹ ≥90 mg: 500mL ¹⁴¹	24 h F ¹⁴¹	- do not filter ¹⁴¹
DOXOrubicin Pegylated Liposomal 20 mg/10 mL 50 mg/25 mL (Taro) (F) no preservative ¹⁴²	N/A	2 mg/mL ¹⁴²	discard unused portion ¹⁴²	D5W only ¹⁴² <90 mg: 250 mL ¹⁴² ≥90 mg: 500mL ¹⁴²	24 h F ¹⁴²	- do not filter ¹⁴²



	BC C	ANCER CHEMOTHER	RAPY PREPARATION	I AND STABILITY CHA	\RT	
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
DPACE (ULY0D-PACE protocol) (RT) no preservative ^{2,138,143,144}	see brand specific entries for: cyclophosphamide as applicable	see brand specific entries for: CISplatin, cyclophosphamide, etoposide	see brand specific entries for: CISplatin, cyclophosphamide, etoposide	in 1000 mL NS ^{137,143,144}	≤0.2 mg/mL: 24 h RT ^{2,143,144}	 final product is a 3-in-1 solution containing etoposide, CISplatin, cyclophosphamide (see ULY0D-PACE protocol) use non-DEHP bag and tubing only administer with 0.2 micron in-line filter



	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			
Durvalumab 120 mg/2.4 mL 500 mg/10 mL (AstraZeneca) (F)(PFL) do not shake no preservative ¹⁴⁵	N/A	50 mg/mL ¹⁴⁵	discard unused portion ¹⁴⁵	1-15 mg/mL NS, D5W ¹⁴⁵ 100 mL† mix by gentle inversion ¹⁴⁵	10 d F, 12 h RT ^{2,145}	 do NOT shake¹⁴⁵ administer with 0.2 micron in-line filter¹⁴⁵ discard vial if solution is cloudy, discolored, or visible particles are present¹⁴⁵ use filtered venting needle (e.g., Chemo- Vent®) in place of CSTD for compounding¹⁴⁶ 			
Elranatamab 44 mg/1.1 mL 76 mg/1.9 mL (Pfizer) (F)(PFL) do not shake no preservative ¹⁴⁷	N/A	40 mg/mL ¹⁴⁷ allow vials to reach RT before using ¹⁴⁷	discard unused portion ¹⁴⁷	SC syringe ¹⁴⁷	use within 4 h F , RT ¹⁴⁷	- do not use if contains particulates ¹⁴⁷			



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		
Elranatamab 76 mg/1.9 mL (Pfizer) (F)(PFL) no preservative ¹⁴⁸ (SAP)	N/A	40 mg/mL ¹⁴⁸ allow vials up to 15 min to reach RT before using ¹⁴⁸	discard unused portion ^{2,148}	SC syringe ¹⁴⁸	use immediately after preparation ^{2,148}	 supplied diluent to be used only for doses <8 mg¹⁴⁸ solution colour may be colourless to yellow/brown¹⁴⁸ unpunctured vials can be kept at RT up to 8 h before returning to F; discard if longer than 8 h RT¹⁴⁸ solutions can be prepared in normal room light; avoid direct sunlight¹⁴⁸ CSTD cannot be used during storage of prepared doses^{148,149} to prepare 76 mg dose ONLY: use filtered venting needle (e.g., Chemo-Vent®) in place of CSTD¹⁵⁰ 		



	BC C	ANCER CHEMOTHER	RAPY PREPARATION	I AND STABILITY CHA	RT	
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
Enfortumab vedotin 20 mg 30 mg (Seagen) (F)(PFL) do not shake no preservative ¹⁵¹	20 mg ¹⁵¹ : 2.3 mL SWI 30 mg ¹⁵¹ : 3.3 mL SWI slowly swirl until completely dissolved; do not shake ¹⁵¹ allow to settle until bubbles are gone (≥1 min) ¹⁵¹	10 mg/mL ¹⁵¹	12 h F ^{2,151}	0.3-4 mg/mL NS, D5W, Lactated Ringer's ¹⁵¹ 50 mL* mix by gentle inversion ¹⁵¹	16 h F ¹⁵¹ **(PFL) ¹⁵¹	 discard if visible particles are present or solution is discolored¹⁵¹ do not shake¹⁵¹



	BC C	ANCER CHEMOTHE	RAPY PREPARATION	NAND STABILITY CHA	RT	
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
Epcoritamab (AbbVie) 4 mg/0.8 mL (F)(PFL) do not shake no preservative ¹⁵²	N/A bring vial to RT prior to use (<1 h) ¹⁵² gently swirl vial prior to use ¹⁵² do not invert, vortex, or shake ¹⁵²	5 mg/mL ¹⁵² For Step-up Dose 1 (0.16 mg) ¹⁵² To create intermediate vial (0.8 mg/mL): using 4 mg vial: transfer 0.8 mL drug solution into empty vial and add 4.2 mL NS; gently swirl for 30-45 sec	discard unused portion ¹⁵²	SC syringe ¹⁵² For Step-up Dose 1 (0.16 mg) ¹⁵² To create dosing vial (0.16 mg/mL): transfer 2.0 mL from intermediate vial into the dosing vial and add 8.0 mL NS; gently swirl for 30-45 sec withdraw 1.0 mL into syringe for administration ¹⁵² mix gently; do not invert, vortex, or shake ¹⁵²	24 h F, 12 h RT ¹⁵² (RT storage includes preparation) **(PFL) ¹⁵²	 CAUTION: two concentrations are available use 4 mg vial for step-up doses only¹⁵² minimize exposure to daylight¹⁵²



	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		
Epcoritamab (AbbVie) 4 mg/0.8 mL (F)(PFL) do not shake no preservative ¹⁵²	N/A bring vial to RT prior to use (<1 h) ¹⁵² gently swirl vial prior to use ¹⁵² do not invert, vortex, or shake ¹⁵²	5 mg/mL ¹⁵² For Step-up Dose 2 (0.8 mg) ¹⁵² To create intermediate vial (0.8 mg/mL): using 4 mg vial: transfer 0.8 mL drug solution into empty vial and add 4.2 mL NS; gently swirl for 30-45 sec	discard unused portion ¹⁵²	SC syringe ¹⁵² For Step-up Dose 2 (0.8 mg) ¹⁵² withdraw 1.0 mL from the intermediate vial into syringe for administration mix gently; do not invert, vortex, or shake ¹⁵²	24 h F, 12 h RT ¹⁵² (RT storage includes preparation) **(PFL) ¹⁵²	- CAUTION: two concentrations are available ¹⁵² - use 4 mg vial for step-up doses only ¹⁵² - minimize exposure to daylight ¹⁵²		
Epcoritamab (AbbVie) 48 mg/0.8 mL (F)(PFL) do not shake no preservative ¹⁵²	N/A bring vial to RT prior to use (<1 h) ¹⁵² gently swirl vial prior to use ¹⁵² do not invert, vortex, or shake ¹⁵²	60 mg/mL ¹⁵²	discard unused portion ¹⁵²	SC syringe ¹⁵² do not invert, vortex, or shake ¹⁵²	24 h F, 12 h RT ¹⁵² (RT storage includes preparation) **(PFL) ¹⁵²	- CAUTION: two concentrations are available - use 48 mg vial for full doses only ¹⁵² - minimize exposure to daylight ¹⁵²		

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	BC C	ANCER CHEMOTHER	RAPY PREPARATION	I AND STABILITY CHA	RT	
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
Epcoritamab (AbbVie) 4 mg/0.8 mL (F)(PFL) do not shake no preservative ¹⁵³ (SAP)	N/A bring vial to RT prior to use ¹⁵³ gently swirl vial prior to use ¹⁵³	5 mg/mL ¹⁵³ For Step-up Dose 1 ¹⁵³ (0.16 mg) To create intermediate vial (0.8 mg/mL): using 4 mg vial: transfer 0.8 mL drug solution into empty vial and add 4.2 mL NS; gently swirl for 30-45 sec (at 45 degree angle)	discard unused portion ¹⁵³	SC syringe ¹⁵³ For Step-up Dose 1 ¹⁵³ (0.16 mg) To create dosing vial (0.16 mg/mL): transfer 2.0 mL from intermediate vial into the dosing vial and add 8.0 mL NS; gently swirl for 30-45 sec (at 45 degree angle) withdraw 1.0 mL into syringe for administration	24 h ¹⁵³ ; to a maximum of 20 h F, 4 h RT ¹⁵³ mix gently; do not invert, vortex, or shake ¹⁵³	 CAUTION: two concentrations are available¹⁵³ use 4 mg vial for step-up doses only¹⁵³ do not use if visible particles are observed¹⁵³ do not use CSTD for preparation or administration¹⁵³; use filtered venting needle (Chemo- Vent®) for preparation



	BC C	ANCER CHEMOTHER	RAPY PREPARATION	I AND STABILITY CHA	\RT	
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
Epcoritamab (AbbVie) 4 mg/0.8 mL (F)(PFL) do not shake no preservative ¹⁵³ (SAP)	N/A bring vial to RT prior to use ¹⁵³ gently swirl vial prior to use ¹⁵³	5 mg/mL ¹⁵³ For Step-up Dose 2 (0.8 mg) ¹⁵³ To create intermediate vial (0.8 mg/mL): using 4 mg vial: transfer 0.8 mL drug solution into empty vial and add 4.2 mL NS; gently swirl for 30-45 sec (at 45 degree angle)	discard unused portion ¹⁵³	SC syringe ¹⁵³ For Step-up Dose 2 (0.8 mg) ¹⁵³ withdraw 1.0 mL from the intermediate vial into syringe for administration	24 h ¹⁵³ ; to a maximum of 20 h F, 4 h RT ¹⁵³ mix gently; do not invert, vortex, or shake ¹⁵³	 CAUTION: two concentrations are available¹⁵³ use 4 mg vial for step-up doses only¹⁵³ do not use if visible particles are observed¹⁵³ do not use CSTD for preparation or administration¹⁵³; use filtered venting needle (Chemo-Vent®) for preparation



	BC C	ANCER CHEMOTHER	RAPY PREPARATION	I AND STABILITY CHA	RT	
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
Epcoritamab (AbbVie) 48 mg/0.8 mL (F)(PFL) do not shake no preservative ¹⁵³ (SAP)	N/A bring vial to RT prior to use ¹⁵³ gently swirl vial prior to use ¹⁵³	60 mg/mL ¹⁵³	discard unused portion ¹⁵³	SC syringe ¹⁵³	24 h ¹⁵³ ; to a maximum of 20 h F, 4 h RT ¹⁵³ mix gently; do not invert, vortex, or shake ¹⁵³	- CAUTION: two concentrations are available ¹⁵³ - use 48 mg vial for full doses only ¹⁵³ - do not use if visible particles are observed ¹⁵³ - do not use CSTD for preparation or administration ¹⁵³ ; use filtered venting needle (Chemo- Vent®) for preparation
Epirubicin 10 mg/5 mL 20 mg/10 mL 50 mg/25 mL 150 mg/75 mL 200 mg/100 mL (Teva/Novopharm) (F)(PFL) no preservative ¹⁵⁴	N/A	2 mg/mL ¹⁵⁴	8 h F , RT ¹⁵⁴	syringe ¹⁵⁴	48 h F , 24 h RT from initial vial puncture ¹⁵⁴	



	BC C	ANCER CHEMOTHE	RAPY PREPARATION	I AND STABILITY CHA	RT	
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
Epirubicin 10 mg/5 mL 50 mg/25 mL 200 mg/100 mL (Fresenius Kabi) (F)(PFL) no preservative ¹⁵⁵	N/A record time of puncture	2 mg/mL ¹⁵⁵	8 h ¹⁵⁵	syringe ¹⁵⁵ 100 mL* NS , D5W	48 h F , 24 h RT from initial vial puncture ¹⁵⁵ 48 h F , RT ^{23,155}	
Epirubicin 10 mg/5 mL 50 mg/25 mL 200 mg/100 mL (Pfizer) (F)(PFL) no preservative ¹⁵⁶	N/A record time of puncture	2 mg/mL ¹⁵⁶	8 h ¹⁵⁶	syringe ¹⁵⁶ 100 mL* NS, D5W ⁷¹	48 h F , 24 h RT from initial vial puncture ¹⁵⁶ 48 h F , RT ¹⁵⁷	



	BC C	ANCER CHEMOTHER	RAPY PREPARATION	I AND STABILITY CHA	RT	
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
EPOCHR (LYEPOCHR protocol) (RT) no preservative ^{23,158-161}	see brand specific entries for: DOXOrubicin as applicable	see brand specific entries for: DOXOrubicin, etoposide, vinCRIStine	see brand specific entries for: DOXOrubicin, etoposide, vinCRIStine	etoposide dose ≤125 mg/24 h: in 500 mL NS etoposide dose >125 mg/24 h: in 1000 mL NS	etoposide concentration ≤0.25 mg/mL: complete administration within 72 h RT precipitation occurs at etoposide concentrations >0.25 mg/mL	 final product is a 3-in-1 solution containing etoposide, DOXOrubicin, and vinCRIStine (refer to LYEPOCHR protocol) use non-DEHP bag and tubing only administer with 0.2 micron in-line filter
EPOCHR with etoposide phosphate (LYEPOCHR protocol) (RT) no preservative ^{162,163}	see brand specific entries for: DOXOrubicin and etoposide phosphate as applicable	see brand specific entries for: DOXOrubicin, etoposide phosphate, vinCRIStine	see brand specific entries for: DOXOrubicin, etoposide phosphate, vinCRIStine	500 mL NS ¹⁶⁴	4 d RT, 5 d F ^{2,162}	- final product is a 3-in-1 solution containing etoposide phosphate , DOXOrubicin, and vinCRIStine (refer to LYEPOCHR protocol)



	BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART									
DRUG & STRENGTH	Reconstitute	To Give:	Vial	Product	Product Stability	Special				
(Storage Prior to Use,	With:		Stability	(for IV bag size		Precautions/Notes				
Manufacturer, Preservative				selection, see Notes†)						
Status)										
eriBULin 1 mg/2 mL (Eisai Limited) (RT)(PFL) ¹⁶⁵ no preservative ²³	N/A	0.5 mg/mL ¹⁶⁵	discard unused portion ^{23,165}	IV syringe ¹⁶⁵	24 h F , 6 h RT ¹⁶⁵	 do not administer through dextrose containing lines¹⁶⁵ vials contain dehydrated alcohol USP (5% v/v)¹⁶⁵ 				



	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			
Etoposide 100 mg/5 mL 200 mg/10 mL 500 mg/25 mL 1000 mg/50 mL (Teva) (RT)(PFL) no preservative ¹⁶⁶	N/A	20 mg/mL ¹⁶⁶	discard unused portion ¹⁶⁶	0.2-0.4 mg/mL NS ¹⁶⁶ 100-1000 mL†	stability is concentration dependent 0.2-0.3 mg/mL: 7 d F, ¹⁶⁷ 2 d RT ^{167,168} 0.4-0.5 mg/mL: 1 d F, ¹⁶⁷ 1d RT ¹⁶⁷ 0.6-9.0 mg/mL: generally unstable 9.5 mg/mL: 2 d F, ¹⁶⁷ 1d RT ¹⁶⁷ 10-12 mg/mL: 7 d F, ¹⁶⁷ 2 d RT ^{167,168}	 use non-DEHP bag and tubing only administer with 0.2 micron in-line filter¹⁶⁹ for LYEPOCHR protocol, see entry for EPOCHR (3-in-1 solution containing either etoposide or etoposide phosphate AND DOXOrubicin and vinCRIStine) for ULY0 D-PACE protocol, see entry for DPACE 			
				D5W ¹⁶⁶	4 h RT ^{166,170}	(3-in-1 solution containing etoposide, CISplatin, cyclophosphamide)			



	BC C	ANCER CHEMOTHE	RAPY PREPARATION	I AND STABILITY CHA	RT		
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	
Etoposide phosphate (ETOPOPHOS®) 100 mg (Xediton/Cheplapharm) (F)(PFL) no preservative ¹⁷¹⁻¹⁷³ (SAP)	5 mL NS, D5W, SWI, BWI ¹⁷⁴	20 mg/mL ¹⁷⁴	in NS, D5W, SWI: 12 h F, RT ^{2,174} in BWI: 7 d F, 48 h RT ¹⁷⁴	12 h F, RT ^{2,174}	500 mL NS , D5W ¹⁷⁴ (do not dilute to	24 h F , RT ¹⁷⁴	- for LYEPOCHR protocol, see entry for EPOCHR (3-in-1 solution
	10 mL NS, D5W, SWI, BWI ¹⁷⁴	10 mg/mL ¹⁷⁴		less than 0.1 mg/mL) ¹⁷⁴		containing either etoposide or etoposide phosphate AND DOXOrubicin and vinCRIStine)	
Filgrastim (NEUPOGEN®) 300 mcg/1 mL	N/A	300 mcg/mL ¹⁷⁵	discard unused portion ¹⁷⁵	SC syringe ¹⁷⁵	10 d F ^{2,176}	- albumin is added to D5W to prevent	
300 mcg/1 mL 480 mcg/1.6 mL (Amgen) (F)(PFL) do not shake no preservative ¹⁷⁵				50-100 mL D5W only ¹⁷⁷ in PVC, polyolefin, or glass ¹⁷⁵ (for filgrastim concentrations of 5-15 mcg/mL in D5W, add albumin 2 mg/mL) ¹⁷⁵	7 d F ¹⁷⁶	filgrastim adsorption to plastic ¹⁷⁵ - incompatible with saline ^{175,177} - do NOT dilute to less than 5 mcg/mL ¹⁷⁵	



	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			
Filgrastim (NIVESTYM®) 300 mcg/1 mL 480 mcg/1.6 mL (Pfizer)	Filgrastim(NIVESTYM®)N/A300 mcg/1 mL480 mcg/1.6 mL	300 mcg/mL ¹⁷⁸	discard unused portion ¹⁷⁸	SC syringe	10 d F, 24 h RT ^{2,179}	- albumin is added to D5W to prevent filgrastim adsorption to			
(F)(PFL) do not shake no preservative ¹⁷⁸				50-100 mL D5W only ¹⁷⁷ in PVC, polyolefin, or glass ¹⁷⁸ (for filgrastim concentrations of 5-15 mcg/mL in D5W, add albumin 2 mg/mL) ¹⁷⁸	complete administration within 24 h RT ¹⁸⁰				
Fludarabine 50 mg (Accord) (F) no preservative ¹⁸¹	N/A	25 mg/mL ¹⁸¹	discard unused portion ¹⁸¹	dilute to maximum of 1 mg/mL NS , D5W ¹⁸¹ 100 mL†	72 h F, 24 h RT ¹⁸¹				



	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			
Fludarabine 50 mg (Teva) (F) no preservative ¹⁸²	N/A	25 mg/mL ¹⁸²	discard unused portion ¹⁸²	dilute to maximum of 1 mg/mL NS , D5W ¹⁸² 100 mL†	72 h F, 24 h RT ¹⁸²				
Fluorouracil 5000 mg/100 mL (Accord) (RT)(PFL) no preservative ¹⁸³	N/A	50 mg/mL ¹⁸³	12 h RT ^{2,184}	syringe ¹⁸³ 0.5-10 mg/mL D5W ¹⁸⁴	4 d RT ¹⁸⁴ 4 d RT ¹⁸⁴				
				500 mL†					
				CIVI: ambulatory pump ¹⁸⁵	complete within 8 d ¹⁸⁴				



	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			
Fluorouracil 500 mg/10 mL 5000 mg/100 mL	N/A	50 mg/mL ¹⁸⁶	12 h RT ^{2,187}	syringe	4 d RT ^{2,187}				
(Sandoz) (RT)(PFL) no preservative ¹⁸⁶				0.35-15 mg/mL D5W ¹⁸⁷ 500 mL†	10 d F, 4 d RT ^{2,187}				
				CIVI: ambulatory pump ¹⁸⁵	complete within 8 d ¹⁸⁸⁻¹⁹⁰				
Gemcitabine 1000 mg 2000 mg	1000 mg: 25 mL NS ¹⁹¹	38 mg/mL ¹⁹¹	12 h RT ^{2,191}	syringe ¹⁹¹	24 h RT ^{2,191}				
(Accord) (RT) no preservative ¹⁹¹	2000 mg: 50 mL NS ¹⁹¹		refrigeration may cause crystallization ¹⁹¹	0.1-38 mg/mL NS ¹⁹¹ 250 mL†	4 d RT ^{2,192,193}				
Gemcitabine intravesical 1000 mg 2000 mg (Accord) (RT) no preservative ¹⁹¹	1000 mg: 25 mL NS ¹⁹¹ 2000 mg: 50 mL NS ¹⁹¹	38 mg/mL ¹⁹¹	12 h RT ^{2,191} refrigeration may cause crystallization ¹⁹¹	syringe dilute with NS to final volume of 45-90 mL ^{126,127,194-196}	up to 38 mg/mL ^{2,191} 24 h RT				



	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		
Gemcitabine 200 mg/5.3 mL 1000 mg/26.3 mL 2000 mg/52.6 mL (Pfizer/Hospira) (F) no preservative ¹⁹⁶	N/A	38 mg/mL ¹⁹⁶	discard unused portion ¹⁹⁶	syringe ¹⁹⁶ 0.1–38 mg/mL NS , D5W ¹⁹⁶ 250 mL†	0.1-26 mg/mL: 10 d F, 24 h RT **(PFL) ^{2,197,198} 27-38 mg/mL: 24 h RT ¹⁹⁸			
Gemcitabine <u>intravesical</u> 200 mg/5.3 mL 1000 mg/26.3 mL 2000 mg/52.6 mL (Pfizer/Hospira) (F) no preservative ¹⁹⁶	N/A	38 mg/mL ¹⁹⁶	discard unused portion ¹⁹⁶	syringe dilute with NS to final volume of 45-90 mL ^{126,127,194-196}	0.1-26 mg/mL: 10 d F, 24 h RT **(PFL) ^{2,197,198} 27-38 mg/mL: 24 h RT ¹⁹⁸			
Gemcitabine (NOTE: concentration) 200 mg/5 mL 1000 mg/25 mL 2000 mg/50 mL (Sandoz) (F) no preservative ¹⁹⁹	N/A	40 mg/mL ¹⁹⁹	discard unused portion ¹⁹⁹	syringe ¹⁹⁹ 0.1–40 mg/mL NS , D5W ¹⁹⁹ 250 mL†	1-25 mg/mL: 10 d F, 4 d RT ^{2,199,200} 26-40 mg/mL: 24 h RT ¹⁹⁹	CAUTION: alternative concentration		



	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			
Gemcitabine (NOTE: concentration) <u>intravesical</u> 200 mg/5 mL 1000 mg/25 mL 2000 mg/50 mL (Sandoz) (F) no preservative ¹⁹⁹	N/A	40 mg/mL ¹⁹⁹	discard unused portion ¹⁹⁹	syringe dilute with NS to final volume of 45-90 mL ^{126,127,194-196}	1-25 mg/mL: 10 d F, 4 d RT ^{2,199,200} 26-40 mg/mL: 24 h RT ¹⁹⁹	CAUTION: alternative concentration			
Gemtuzumab ozogamicin 4.5 mg (Pfizer) (F)(PFL) no preservative ²⁰¹	5 mL SWI ²⁰¹ allow vial to come to RT prior to use (~5 min) ²⁰¹ swirl gently to mix; do NOT shake ²⁰¹	1 mg/mL ²⁰¹	6 h F, 3 h RT ²⁰¹ protect from light if not used immediately ²⁰¹	0.075-0.234 mg/mL NS ²⁰¹ 25-50 mL† mix by gentle inversion; do NOT shake ²⁰¹	complete administration within 12 h F, 6 h RT ²⁰¹ (PFL)** if refrigerated, bring bag to RT over 1 h prior to administration ²⁰¹	 administer with 0.2 micron in-line filter²⁰¹ protect infusion bag from light (including UV) for administration²⁰¹ protect administration line from light ONLY if hang time will be longer than 2 h^{201,202} solution may contain white particulates which do not affect product quality²⁰¹ 			



	BC C	ANCER CHEMOTHE	RAPY PREPARATION	I AND STABILITY CHA	RT	
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
IDArubicin PFS 5 mg/5 mL 10 mg/10 mL 20 mg/20 mL (Pfizer) (F)(PFL) no preservative ²⁰³	N/A	1 mg/mL ²⁰³	discard unused portion ²⁰³ **(PFL) ²⁰³	syringe ²⁰³	use within 4 h from initial puncture ^{203,204}	- avoid alkaline solutions ²⁰³
Ifosfamide 1000 mg 3000 mg (Baxter) (RT) no preservative ²⁰⁵	1000 mg: 20 mL SWI ²⁰⁵ 3000 mg: 60 mL SWI ²⁰⁵ shake well	50 mg/mL ²⁰⁵	12 h F, RT ^{2,206}	0.6-20 mg/mL NS , D5W, Lactated Ringer's ²⁰⁵ 500 mL†	72 h F, 24 h RT ²⁰⁶ 24 h F, RT when mixed with mesna ⁷¹	
Ifosfamide 1000 mg 3000 mg (Fresenius Kabi) (RT) no preservative ²⁰⁷	1000 mg: 20 mL SWI ²⁰⁷ 3000 mg: 60 mL SWI ²⁰⁷ shake well	50 mg/mL ²⁰⁷	12 h F, RT ^{2,208}	0.6-20 mg/mL NS, D5W, Lactated Ringer's ²⁰⁷ 500 mL†	72 h F, 24 h RT ²⁰⁸ 24 h F, RT when mixed with mesna ⁷¹	



	BC C	ANCER CHEMOTHEI	RAPY PREPARATION	AND STABILITY CHA	RT	
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
Iniparib 100 mg/10 mL (sanofi-aventis) (F) no preservative ²⁰⁹ (SAP)	N/A	10 mg/mL ²⁰⁹	discard unused portion ²⁰⁹	250 mL NS , D5W dilute to 250 mL final volume by withdrawing volume from bag equal to volume of drug to be added ²⁰⁹ (OR may also use empty IV bag and qs to final volume of 250 mL with NS , D5W ²⁰⁹)	24 h RT ²⁰⁹	
Inotuzumab ozogamicin 0.9 mg (Pfizer) (F)(PFL) no preservative ²¹⁰	4 mL SWI ²¹⁰ gently swirl vial to mix ²¹⁰	0.25 mg/mL ²¹⁰ record time of reconstitution	4 h F ²¹⁰ dilute dose within 4 h of reconstitution ²¹⁰ protect from light if not used immediately ²¹¹	0.01-0.1 mg/mL NS ²¹⁰ 25-50 mL† mix by gentle inversion ²¹⁰	complete administration within 8 h of reconstitution F , RT ²¹⁰ (PFL) ²¹⁰ if refrigerated, bring bag to RT over 1 h prior to administration ²¹⁰	- do NOT shake ²¹⁰ - protect container from UV and fluorescent light during storage and administration ^{210,211} - protect administration line from light ONLY if hang time will be longer than 1 h ^{210,211}



	BC C	ANCER CHEMOTHER	RAPY PREPARATION	I AND STABILITY CHA	NRT	
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
Ipilimumab 50 mg/10 mL 200 mg/40 mL (BMS Canada) (F)(PFL) no preservative ²¹²	N/A	5 mg/mL ²¹²	12 h F, RT ^{2,213}	1-4 mg/mL NS, D5W ²¹² 25-250 mL† OR undiluted in empty viaflex bag or glass bottle (allow vials to stand at RT for ~5 min prior to withdrawal of contents) ²¹²	24 h F , RT ²¹³	 do NOT shake²¹² administer with 0.2 micron in-line filter²¹² vials may contain translucent-to- white amorphous particles²¹² discard if cloudy or has pronounced colour change (should be clear to pale yellow)²¹²
Irinotecan 40 mg/2 mL 100 mg/5 mL 500 mg/25 mL (Accord) (RT)(PFL) no preservative ²¹⁴	N/A	20 mg/mL ²¹⁴	discard unused portion ²¹⁴	0.12-3.0 mg/mL D5W (preferred), NS ²¹⁴ 250-500 mL†	48 h F, 24 h RT **(PFL) ²¹⁴	



	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			
Irinotecan 40 mg/2 mL 100 mg/5 mL 300 mg/15 mL 500 mg/25 mL (Auro) (RT)(PFL) no preservative ²¹⁵	N/A	20 mg/mL ²¹⁵	discard unused portion ²¹⁵	0.12-3.0 mg/mL D5W (preferred), NS ²¹⁵ 250-500 mL†	10 d F, 4 d RT ^{2,215} **(PFL) ²¹⁵ if NOT protected from light: 72 h RT ²¹⁵				
Irinotecan 40 mg/2 mL 100 mg/5 mL 300 mg/15 mL 500 mg/25 mL (Eugia) (RT)(PFL) no preservative ²¹⁶	N/A	20 mg/mL ²¹⁶	discard unused portion ²¹⁶	0.12-3.0 mg/mL D5W (preferred), NS ²¹⁶ 250-500 mL†	10 d F, 4 d RT ^{2,216} **(PFL) ²¹⁶ if NOT protected from light ²¹⁶ : 72 h RT				
Irinotecan 40 mg/2 mL 100 mg/5 mL 300 mg/15 mL 500 mg/25 mL (Pfizer/Hospira) (RT)(PFL) no preservative ²¹⁷	N/A	20 mg/mL ²¹⁷	discard unused portion ²¹⁷	0.12-3.0 mg/mL D5W (preferred), NS ²¹⁷ 250-500 mL†	10 d F, 4 d RT ^{2,217} **(PFL) ²¹⁷ if NOT protected from light: 72 h RT ²¹⁷				



	BC C	ANCER CHEMOTHER	RAPY PREPARATION	I AND STABILITY CHA	RT	
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
Irinotecan liposome 43 mg/10 mL (Servier) (F)(PFL) no preservative ²¹⁸	N/A	4.3 mg/mL ²¹⁸	discard unused portion ²¹⁸	to a final volume of 500 mL NS , D5W ²¹⁸ mix by gentle inversion ²¹⁸	24 h F, 4 h RT ²¹⁸ **(PFL) if refrigerated, bring bag to RT prior to administration ²¹⁸	- do not use in-line filter ²¹⁸ - expressed as irinotecan free base
Isatuximab 100 mg/5 mL 500 mg/25 mL (sanofi-aventis) (F)(PFL) do not shake no preservative ²¹⁹	N/A	20 mg/mL ²¹⁹ inspect vial and discard if discolouration or visible particles are present ²¹⁹	discard unused portion ²¹⁹	250 mL NS, D5W ²¹⁹ mix by gentle inversion; do NOT shake ²¹⁹	48 h F plus an additional 8 h RT including infusion time ²¹⁹	- administer with a 0.2 micron in-line filter ²¹⁹



	BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART								
DRUG & STRENGTH	Reconstitute	To Give:	Vial	Product	Product Stability	Special			
(Storage Prior to Use,	With:		Stability	(for IV bag size		Precautions/Notes			
Manufacturer, Preservative				selection, see Notes†)					
Status)									
Ixabepilone									
15 mg	15 mg:	2 mg/mL ²²⁰	1 h RT ²²⁰	0.2-0.6 mg/mL	6 h RT ²²⁰	- use non-DEHP			
(contains 16 mg)	8 mL diluent			Lactated Ringer's ²²⁰		bag and			
45 mg	(supplied) ²²⁰					administration			
(contains 47 mg)						set ²²⁰			
(BMS)	45 mg:					- administer with			
(F)(PFL)	23.5 mL diluent					0.2 micron in-line			
no preservative ²²⁰	(supplied) ²²⁰					filter ²²⁰			
(SAP)									

* 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.

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.^{221,222}

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 in the chart to 0.2 micron filter size. For more information, refer to CDM drug 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 PES = polyethersulfone 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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Revised Date: 1 May 2024



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