

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	
Aldesleukin 22 million units (1.3 mg) (SteriMax) (F)(PFL) no preservative <sup>1</sup>	1.2 mL SWI <sup>1</sup> direct diluent against side of vial during reconstitution <sup>1</sup> do NOT shake <sup>1</sup>	18 million unit/mL (1.1 mg/mL) <sup>1</sup>	12 h <b>F</b> , RT <sup>1,2</sup>	30-70 mcg/mL <sup>1</sup> 50 mL D5W <sup>1</sup> <30 mcg/mL: dilute in D5W containing human albumin 0.1% <sup>3</sup>	48 h <b>F</b> , RT¹ bring to RT prior to use¹	- do NOT use in- line filter¹ - avoid bacteriostatic water for injection or NS due to increased aggregation¹	
				SC syringe <sup>4,5</sup>	10 d F <sup>2,5</sup> **(PFL)		
Aldesleukin intralesional 22 million units (1.3 mg) (SteriMax) (F)(PFL) no preservative1	1.2 mL SWI <sup>1</sup> direct diluent against side of vial during reconstitution <sup>1</sup> do NOT shake <sup>1</sup>	18 million unit/mL (1.1 mg/mL) <sup>1</sup>	12 h <b>F</b> , RT <sup>1,2</sup>	add 3.2 mL D5W to reconstituted vial to give 5 million units/mL <sup>6,7</sup> withdraw entire contents of vial into syringes for administration <sup>6,7</sup>	syringe: 48 h F <sup>6</sup> (discard any remaining unused syringes following procedure)	- avoid bacteriostatic water for injection or NS due to increased aggregation <sup>1</sup>	



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



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Amivantamab 350 mg (Janssen) (F)(PFL) no preservative15	N/A	50 mg/mL <sup>15</sup>	discard unused portion <sup>15</sup>	250 mL <b>NS</b> , D5W <sup>15</sup> dilute to final volume by withdrawing volume from bag equal to volume of drug to be added <sup>15</sup> mix by gentle inversion; do not shake <sup>15</sup>	complete administration within 10 h RT <sup>15</sup>	- each vial contains 0.5 mL overfill <sup>15</sup> - discard if discolouration or visible particles are present <sup>15</sup> - administer with 0.2 micron in-line filter <sup>15</sup>		
Amsacrine 75 mg/1.5 mL (Erfa Canada) (RT) no preservative16	glass syringes preferred for reconstitution; MAX time in plastic syringe <sup>16</sup> : 15 min  13.5 mL supplied diluent (L-lactic acid) <sup>1</sup> to reconstitute: transfer 1.5 mL from ampoule into the diluent vial <sup>16</sup>	5 mg/mL <sup>16</sup>	12 h RT <sup>2,16</sup> **(PFL) <sup>16</sup>	500 mL D5W <sup>16</sup> (plastic or glass container) <sup>16</sup>	7 d <b>F</b> , 4 d RT <sup>2,16</sup>	- contains DMA***		



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



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Asparaginase-erwinia (asparaginase Erwinia chrysanthemi) 10,000 units (CGF/Jazz) (F) no preservative <sup>20</sup>	1-2 mL NS <sup>20</sup> do not shake; mix gently to minimize bubbles and contact with stopper <sup>20</sup>	10,000-5000 units/mL	15 min RT <sup>20</sup>	syringe <sup>20</sup>	4 h RT <sup>20</sup>	- contact with the rubber stopper may denature the reconstituted drug, creating filaments of insoluble material; if present, administer with 5 micron filter <sup>20</sup> - do not use sterile water for reconstitution as the resulting product is not isotonic <sup>20</sup>	
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 <sup>21</sup>	N/A	60 mg/mL <sup>21</sup>	discard unused portion <sup>21</sup>	250 mL NS <sup>21</sup> mix by gentle inversion <sup>21</sup>	24 h F, 8 h RT <sup>21</sup>	- do NOT shake <sup>21</sup>	



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Reconstitute	To Give:	Vial	Product	Product Stability	Special				
With:		Stability	(for IV bag size		Precautions/Notes				
			selection, see Notes†)						
N/A	20 mg/mL <sup>22</sup>			•	- do NOT shake <sup>22</sup>				
		portion <sup>23</sup>	NS, ½-NS <sup>22</sup>		- administer with				
			maiss has manual a	24 n F, 8 n R I 22	0.2 micron in-line				
				if we fair a nate of	filter <sup>22</sup>				
			inversion <sup>22</sup>						
				auriinistration==					
		With:	With: Stability	With:  Stability  (for IV bag size selection, see Notes†)  N/A  20 mg/mL <sup>22</sup> discard unused  250 mL	With:  Stability  (for IV bag size selection, see Notes†)  N/A  20 mg/mL <sup>22</sup> discard unused portion <sup>23</sup> NS, ½-NS <sup>22</sup> mix by gentle  complete administration within 24 h F, 8 h RT <sup>22</sup>				



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azaCITIDine 100 mg (Celgene) (RT) no preservative <sup>24</sup>	4 mL SWI <sup>24</sup> shake vigorously <sup>24</sup> record time of reconstitution	25 mg/mL <sup>24</sup>	use within 45 min RT or 8 h F <sup>24</sup>	SC syringe <sup>24</sup>	45 min RT (including preparation time) or 8 h F <sup>24</sup> refrigerate syringe immediately after preparation if not to be used within 45 min of reconstitution <sup>24</sup> Refrigerated syringes <sup>24</sup> :  • 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 particles <sup>24</sup> - re-suspend syringe contents before injection by vigorously rolling syringe between palms <sup>24</sup> - if cold diluent reconstitution is used to extend stability, minimize exposure to RT; ensure proper refrigeration of diluent, reconstituted vial and final product <sup>25,26</sup>			
	cold diluent reconstitution: 4 mL SWI at 2-8°C <sup>25,26</sup>	25 mg/mL <sup>24</sup>	12 h F <sup>2,25,26</sup>		22 h F <sup>25,26</sup>				



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azaCITIDine 100 mg (Dr. Reddy's) (RT) no preservative <sup>27</sup>	4 mL SWI <sup>27</sup> shake vigorously <sup>27</sup>	25 mg/mL <sup>27</sup>	use within 45 min RT or 8 h F <sup>27</sup>	SC syringe <sup>27</sup>	45 min RT (including preparation time) or 8 h F <sup>27</sup> refrigerate syringe immediately after preparation if not to be used within 45 min of reconstitution <sup>27</sup> Refrigerated syringes <sup>27</sup> : • 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 filter <sup>27</sup> - discard if contains large particles <sup>27</sup> - re-suspend syringe contents before injection by vigorously rolling syringe between palms <sup>27</sup>			



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azaCITIDine 100 mg (Hikma) (RT) no preservative <sup>28</sup>	4 mL SWI <sup>28</sup> shake vigorously <sup>28</sup>	25 mg/mL <sup>28</sup>	use within 45 min RT or 8 h F <sup>28</sup>	SC syringe <sup>28</sup>	45 min RT (including preparation time) or 8 h F <sup>28</sup> refrigerate syringe immediately after preparation if not to be used within 45 min of reconstitution <sup>28</sup> Refrigerated syringes <sup>28</sup> : • 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 filter <sup>28</sup> - discard if contains large particles <sup>28</sup> - re-suspend syringe contents before injection by vigorously rolling syringe between palms <sup>28</sup>			



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BCG (Tice strain) (OncoTICE®) intravesical 50 mg (1 to 8 x 108 CFU) (Merck Canada) (F)(PFL) no preservative <sup>29</sup>	1 mL preservative-free NS <sup>29</sup> allow to stand for a few min; gently swirl to suspend <sup>29</sup> do NOT shake <sup>29</sup> record time of reconstitution	1 to 8×10 <sup>8</sup> CFU/vial <sup>29</sup>	2 h F <sup>29</sup> **(PFL) <sup>29</sup>	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 <sup>29</sup> 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 <sup>29</sup>	use within 2 h F of reconstitution <sup>29,30</sup> **(PFL) <sup>29</sup>	- auxiliary info: biohazard <sup>30</sup> - do NOT filter <sup>29</sup> - do NOT shake <sup>29</sup>			



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BCG (Russian strain) (VERITY-BCG®) intravesical 40 mg (1 to 8 x 108 CFU) (Verity) (F)(PFL) no preservative31	1 mL preservative-free NS <sup>31</sup> allow to stand for a few min; gently swirl to suspend <sup>31</sup> do NOT shake <sup>31</sup> record time of reconstitution	1 to 8×10 <sup>8</sup> CFU/vial <sup>31</sup>	2 h F <sup>31</sup> **(PFL) <sup>31</sup>	transfer contents from 1st vial to 50 mL syringe, rinse vial with 1 mL NS and transfer rinse solution to the 50 mL syringe; then, repeat steps for 2nd vial and qs up to 45 mL with NS31	use within 2 h F of reconstitution <sup>30,31</sup> **(PFL) <sup>31</sup>	- auxiliary info: biohazard <sup>30</sup> - TWO vials must be used to achieve the recommended full dose <sup>31</sup> - do NOT shake <sup>31</sup>		
Belantamab mafodotin 30 mg/1.5 mL (GSK) (frozen)(PFL) do not shake no preservative <sup>32</sup> (SAP)	n/a	20 mg/mL <sup>32</sup>	thaw up to 4 h RT, F before use <sup>32</sup> once thawed: unpunctured vial: 10 d F <sup>32</sup> once thawed: punctured vial: discard unused portion <sup>30,32</sup> **(PFL) <sup>32</sup> do NOT shake <sup>32</sup>	0.2-2 mg/mL NS <sup>32</sup> 250 mL* NS <sup>32</sup>	8 h RT <sup>32</sup>	- supplied as frozen liquid <sup>32</sup> - recommended freezer temp <sup>32</sup> is (-50°C to -15°C) - thawed drug cannot be refrozen <sup>32</sup>		



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



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Bendamustine 25 mg 100 mg (Teva) (RT,F)(PFL) no preservative <sup>37</sup>	25 mg: 5 mL SWI <sup>37</sup> 100 mg: 20 mL SW <sup>37</sup> shake well; dissolves completely in 5 min <sup>37</sup>	5 mg/mL <sup>37</sup>	30 min <sup>37</sup>	0.2-0.6 mg/mL <b>NS</b> , D2.5-½NS <sup>37</sup> 100-500 mL†	complete administration within 24 h F, 3 h RT <sup>38</sup>			
Bevacizumab (AVASTIN®) 100 mg/4 mL 400 mg/16 mL (Roche) (F)(PFL) do not shake no preservative <sup>39</sup>	N/A	25 mg/mL <sup>39</sup>	discard unused portion <sup>39</sup>	1.4-16.5 mg/mL NS only <sup>39</sup> 100-250 mL†	48 h <b>F</b> , RT <sup>39</sup>	- do NOT shake <sup>39</sup>		
Bevacizumab (MVASI®) 100 mg/4 mL 400 mg/16 mL (Amgen) (F)(PFL) do not shake no preservative40	N/A	25 mg/mL <sup>40</sup>	discard unused portion <sup>40</sup>	1.4-16.5 mg/mL NS only <sup>40</sup> 100-250 mL†	48 h <b>F</b> , RT <sup>40</sup>	- do NOT shake <sup>40</sup>		



	BC C	ANCER CHEMOTHER	RAPY PREPARATION	AND STABILITY CHA	\RT	
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Bevacizumab (ZIRABEV®) 100 mg/4 mL 400 mg/16 mL (Pfizer) (F)(PFL) do not shake no preservative <sup>41</sup>	N/A	25 mg/mL <sup>41</sup>	discard unused portion <sup>41</sup>	1.4-16.5 mg/mL NS only <sup>41</sup> 100-250 mL†	10 d F, 48 h RT <sup>2,41</sup>	- do NOT shake <sup>41</sup>
Bleomycin 15 units (NB: dose in units only) (Fresenius Kabi) (F)(PFL) no preservative <sup>42</sup>	6 mL* NS <sup>42</sup>	2.5 units/mL	12 h F <sup>2,42</sup>	50 mL* NS <sup>42</sup>	24 h RT <sup>42</sup>	
Bleomycin 15 units (NB: dose in units only) (Pfizer/Hospira) (F)(PFL) no preservative <sup>43</sup>	6 mL* <b>NS</b> , SWI <sup>43</sup>	2.5 units/mL	12 h <b>F</b> , RT <sup>2,43</sup>	50 mL* NS <sup>43</sup>	4 h RT <sup>2,30,43</sup>	



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



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Bortezomib 3.5 mg (Actavis) (RT)(PFL) no preservative46	3.5 mL NS <sup>46</sup>	1 mg/mL <sup>46</sup>	12 h <b>F</b> , RT <sup>2,47</sup>	IV syringe <sup>46</sup>	10 d F, 4 d RT <sup>2,47</sup>	- auxiliary info: WARNING: INTRAVENOUS use only. Fatal if given by other routes.		
Bortezomib SC injection 3.5 mg (Apotex) (RT)(PFL) no preservative <sup>48</sup>	1.4 mL NS <sup>48</sup>	2.5 mg/mL <sup>48</sup>	12 h <b>F</b> , RT <sup>2,49</sup>	SC syringe <sup>48</sup>	10 d F, 4 d RT <sup>2,49</sup>	- auxiliary info: WARNING: SUBCUTANEOUS use only. Fatal if given by other routes.		
Bortezomib 3.5 mg (Apotex) (RT)(PFL) no preservative <sup>48</sup>	3.5 mL NS <sup>48</sup>	1 mg/mL <sup>48</sup>	12 h <b>F</b> , RT <sup>2,49</sup>	IV syringe <sup>48</sup>	10 d F, 4 d RT <sup>2,49</sup>	- auxiliary info: WARNING: INTRAVENOUS use only. Fatal if given by other routes.		



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



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Bortezomib  1 mg 2.5 mg 3.5 mg (Juno/MDA) (RT)(PFL) no preservative <sup>51</sup>	1 mg: 1 mL NS <sup>51</sup> 2.5 mg: 2.5 mL NS <sup>51</sup> 3.5 mg: 3.5 mL NS <sup>51</sup>	1 mg/mL <sup>51</sup>	12 h <b>F</b> , RT <sup>2,52</sup>	IV syringe <sup>51</sup>	10 d F, 4 d RT <sup>2,52</sup>	- auxiliary info: WARNING: INTRAVENOUS use only. Fatal if given by other routes.			
Bortezomib SC injection 3.5 mg (Marcan) (RT)(PFL) no preservative <sup>53</sup>	1.4 mL NS <sup>53</sup>	2.5 mg/mL <sup>53</sup>	12 h F, RT <sup>2,54,55</sup>	SC syringe <sup>53</sup>	10 d F, 2 d RT <sup>2,54,55</sup>	- auxiliary info: WARNING: SUBCUTANEOUS use only. Fatal if given by other routes.			
Bortezomib 3.5 mg (Marcan) (RT)(PFL) no preservative <sup>53</sup>	3.5 mL NS <sup>53</sup>	1 mg/mL <sup>53</sup>	12 h F, RT <sup>2,54,55</sup>	IV syringe <sup>53</sup>	10 d F, 2 d RT <sup>2,54,55</sup>	- 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 SC injection 3.5 mg (PMS) (RT)(PFL) no preservative <sup>56</sup>	1.4 mL NS <sup>56</sup>	2.5 mg/mL <sup>56</sup>	8 h RT <sup>56</sup>	SC syringe <sup>56</sup>	8 h RT <sup>56</sup>	- auxiliary info: WARNING: SUBCUTANEOUS use only. Fatal if given by other routes.			
Bortezomib 3.5 mg (PMS) (RT)(PFL) no preservative <sup>56</sup>	3.5 mL NS <sup>56</sup>	1 mg/mL <sup>56</sup>	8 h RT⁵6	IV syringe <sup>56</sup>	8 h RT <sup>56</sup>	- auxiliary info: WARNING: INTRAVENOUS use only. Fatal if given by other routes.			
Bortezomib SC injection 1 mg 2.5 mg 3.5 mg (Taro) (RT)(PFL) no preservative <sup>57</sup>	1 mg: 0.4 mL NS <sup>57</sup> 2.5 mg: 1 mL NS <sup>57</sup> 3.5 mg: 1.4 mL NS <sup>57</sup>	2.5 mg/mL <sup>57</sup>	8 h RT <sup>57</sup>	SC syringe <sup>57</sup>	8 h RT <sup>57</sup>	- 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 <sup>57</sup>	1 mg: 1 mL NS <sup>57</sup> 2.5 mg: 2.5 mL NS <sup>57</sup> 3.5 mg: 3.5 mL NS <sup>57</sup>	1 mg/mL <sup>57</sup>	8 h RT <sup>57</sup>	IV syringe <sup>57</sup>	8 h RT <sup>57</sup>	- auxiliary info: WARNING: INTRAVENOUS use only. Fatal if given by other routes.		
Bortezomib SC injection 3.5 mg (Teva) (RT)(PFL) no preservative <sup>58</sup>	1.4 mL NS <sup>58</sup>	2.5 mg/mL <sup>58</sup>	12 h <b>F</b> , RT <sup>2,47</sup>	SC syringe <sup>58</sup>	10 d F, 4 d RT <sup>2,47</sup>	- auxiliary info: WARNING: SUBCUTANEOUS use only. Fatal if given by other routes.		
Bortezomib 3.5 mg (Teva) (RT)(PFL) no preservative <sup>58</sup>	3.5 mL NS <sup>58</sup>	1 mg/mL <sup>58</sup>	12 h <b>F</b> , RT <sup>2,47</sup>	IV syringe <sup>58</sup>	10 d F, 4 d RT <sup>2,47</sup>	- 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			
Brentuximab vedotin 50 mg (Seagen) (F)(PFL) no preservative <sup>59</sup>	10.5 mL SWI <sup>59</sup> direct diluent against side of vial during reconstitution <sup>59</sup> do NOT shake <sup>59</sup>	5 mg/mL <sup>59</sup>	12 h F <sup>2,59</sup>	0.4-1.8 mg/mL NS, D5W, Lactated Ringer's <sup>59</sup> 50-100 mL† gently invert to mix <sup>59</sup>	24 h F <sup>2,59</sup>	- solution should be colorless, clear to slightly opalescent, and free of visible particulates <sup>59</sup>			
Busulfan 60 mg/10 mL (PMS) (F) no preservative <sup>60</sup>	N/A	6 mg/mL <sup>60</sup>	discard unused portion <sup>30,60</sup>	dilute to volume 10 times drug volume to achieve final concentration of ~0.5 mg/mL NS, D5W <sup>60</sup> 250-1000 mL†	complete administration within 12 h F, 8 h RT <sup>60</sup>	- contains DMA*** - always add busulfan to diluent to mix; do not add diluent to busulfan <sup>60</sup>			



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



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



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



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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		
CARBOplatin 50 mg/5 mL 150 mg/15 mL 450 mg/45 mL (Teva) (RT)(PFL) no preservative <sup>69</sup>	N/A	10 mg/mL <sup>69</sup>	discard unused portion RT <sup>69</sup>	0.5-10 mg/mL <sup>70</sup> <b>NS</b> , D5W <sup>69,71,72</sup> 50-250 mL†	8 h F <sup>73</sup> , RT <sup>69</sup>	- do NOT use aluminum- containing needle, syringe, or tubing <sup>69</sup>		
Carfilzomib  10 mg 30 mg 60 mg (Amgen) (F)(PFL) no preservative <sup>74</sup>	10 mg: 5 mL SWI <sup>74</sup> 30 mg: 15 mL SWI <sup>74</sup> 60 mg: 29 mL SWI <sup>74</sup> direct diluent against side of vial during reconstitution <sup>74</sup> swirl gently; do NOT shake <sup>74</sup> if foaming occurs, allow to settle until clear (~5 min) <sup>74</sup>	2 mg/mL <sup>74</sup>	12 h <b>F</b> , 4 h RT <sup>2,74</sup>	50-100 mL* <b>D5W</b> only <sup>74</sup> do NOT dilute in NS <sup>74</sup>	24 h <b>F</b> , 4 h RT <sup>2,74</sup>	- if a CSTD is not used in compounding, a 21 gauge (or larger gauge) needle is recommended to prevent coring of the vial stopper <sup>75-77</sup> - do not use NS for reconstitution or dilution <sup>74</sup> - discard if contains particulates <sup>74</sup>		



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

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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		
Cetuximab 100 mg/50 mL 200 mg/100 mL (Imclone/Lilly) (F) do not shake no preservative <sup>80</sup>	N/A	2 mg/mL <sup>80</sup>	12 h F, 8 h RT <sup>80</sup>	syringe <sup>80</sup> evacuated container or bag <sup>80</sup>	12 h F, 8 h RT <sup>80</sup>	- administer with 0.2 micron filter <sup>80</sup> - solution may contain white particulates which do not affect product quality <sup>80</sup>		
CISplatin 10 mg/10 mL 50 mg/50 mL 100 mg/100mL (Accord) (RT)(PFL) no preservative <sup>81</sup>	N/A	1 mg/mL <sup>81</sup>	discard unused portion <sup>30</sup>	NS <sup>81</sup> 100-500 mL† or 2 L D5-½NS or D5-⅓NS containing 37.5 g of mannitol <sup>81</sup>	24 h RT <sup>81</sup>	- do NOT use aluminum-containing needle, syringe or tubing <sup>81</sup> - 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 <sup>82</sup>	N/A	1 mg/mL <sup>82</sup>	discard unused portion <sup>30</sup>	NS <sup>82</sup> 100-500 mL† or 2 L D5-½NS or D5-⅓NS containing 37.5 g of mannitol <sup>82</sup>	24 h RT <sup>82</sup>	- do NOT use aluminum-containing needle, syringe or tubing <sup>82</sup> - 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 ULYO D-PACE protocol, see entry for DPACE (3-in-1 solution containing etoposide, CISplatin, cyclophosphamide)			



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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			
CISplatin 10 mg/10 mL 50 mg/50 mL 100 mg/100mL (Sandoz) (RT)(PFL) no preservative <sup>83</sup>	N/A	1 mg/mL <sup>83</sup>	12 h RT <sup>2,84</sup>	NS <sup>83</sup> 100-500 mL† or 2 L D5-½NS or D5-⅓NS containing 37.5 g of mannitol <sup>83</sup>	24 h RT <sup>84</sup>	- do NOT use aluminum-containing needle, syringe or tubing <sup>83</sup> - 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 ULYO 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 <sup>85</sup>	N/A	1 mg/mL <sup>85</sup>	discard unused portion <sup>23</sup>	NS <sup>85</sup> 100-500 mL†  or 2 L D5-½NS or D5-⅓NS containing 37.5 g of mannitol <sup>85</sup>	24 h RT <sup>85</sup>	- do NOT use aluminum-containing needle, syringe or tubing <sup>85</sup> - 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 ULYO D-PACE protocol, see entry for DPACE (3-in-1 solution containing etoposide, CISplatin, cyclophosphamide)			



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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				
Cladribine 10 mg/10 mL (Fresenius Kabi) (F)(PFL) no preservative <sup>86</sup>	N/A	1 mg/mL <sup>86</sup>	discard unused potion <sup>86</sup>	SC syringe <sup>87</sup>	48 h F, discard end of day RT <sup>30,88,89</sup>					
				500 mL <b>NS only</b> <sup>86</sup>	24 h <b>RT</b> <sup>86</sup>					
				do NOT use D5W86						
				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 cassette86	at least 7 days <sup>86</sup>					



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Cladribine 10 mg/10 mL (GMP) (F)(PFL) no preservative <sup>90</sup>	N/A	1 mg/mL <sup>90</sup>	discard unused portion <sup>30,90</sup>	SC syringe <sup>87</sup>	48 h F, discard end of day RT <sup>30,88,89</sup>				
				500 mL NS only <sup>90</sup> do NOT use D5W <sup>90</sup>	24 h RT <sup>90</sup>				
				Cassette: qs to 100 mL with bacteriostatic NS only via SIMS DELTEC INC. MEDICATION CASSETTES®90 filter drug and diluent through 0.22 micron filter as each solution is being introduced into the cassette90	at least 7 days <sup>90</sup>				



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		
Crisantaspase (recombinant asparaginase Erwinia chrysanthemum) 10 mg/0.5 mL (Jazz) (F)(PFL) do not shake preservative free <sup>91</sup>	N/A	20 mg/mL <sup>91</sup>	discard unused portion <sup>91</sup>	IM syringe <sup>91</sup> max volume: 2 mL  if volume >2 mL, use multiple sites <sup>91</sup>	use within 4 h RT <sup>91</sup> (PFL NOT required for syringe) <sup>91</sup>	- discard if cloudy, discoloured, or contains particulates <sup>91</sup> - do NOT shake <sup>91</sup>		
Cyclophosphamide  200 mg  500 mg  1000 mg  2000 mg  (Baxter)  (RT)(PFL)  no preservative92	200 mg <sup>92</sup> : 10 mL NS 500 mg <sup>92</sup> : 25 mL NS 1000 mg <sup>92</sup> : 50 mL NS 2000 mg <sup>92</sup> : 100 mL NS	20 mg/mL <sup>92</sup>	12 h <b>F</b> , RT <sup>2,92</sup>	NS, D5W, D5NS <sup>92</sup> 100-250 mL†  high dose in BMT: may need 500 mL*	36 h F, 24 h RT <sup>93-95</sup>	- 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 ULYO 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 <sup>96</sup>	N/A	100 mg/mL <sup>96</sup>	12 h RT <sup>2,96</sup>	0.1-37.5 mg/mL <b>NS,</b> D5W, SWI <sup>96</sup> 100 mL†	in NS: 4 d RT <sup>2,96</sup> other solutions: 72 h F, 24 h RT <sup>96</sup> **(PFL) <sup>96</sup>		
Cytarabine IT injection 1000 mg/10mL 2000 mg/20mL (Pfizer/Hospira) (RT)(PFL) no preservative <sup>96</sup>	N/A record time of puncture	100 mg/mL <sup>96</sup>	use within 4 h of initial puncture <sup>2</sup>	IT syringe  qs to 6 mL with preservative free NS <sup>97-99</sup> diluents containing preservatives should_NOT be used for intrathecal administration <sup>100</sup>	use within 4 h of initial puncture <sup>2</sup> **(PFL) <sup>96</sup>	- auxiliary info <sup>2</sup> : IT - label to include route in full (i.e., INTRATHECAL injection) attached to both syringe and outer ziplock bag <sup>99</sup>	
Cytarabine SC injection 1000 mg/10mL 2000 mg/20mL (Pfizer/Hospira) (RT)(PFL) no preservative <sup>96</sup>	N/A	100 mg/mL <sup>96</sup>	12 h RT <sup>2,96</sup>	SC syringe	10 d F, 4 d RT <sup>2,101-103</sup> **(PFL) <sup>96</sup>		



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Cytarabine 1000 mg/10mL 2000 mg/20mL (PMS) (RT)(PFL) no preservative <sup>104</sup>	N/A	100 mg/mL <sup>104</sup>	discard unused portion <sup>30,104</sup>	0.1-37.5 mg/mL <b>NS</b> , D5W, SWI <sup>104</sup> 100 mL†	10 d F, 48 h RT <sup>104</sup> **(PFL)			
Cytarabine IT injection 1000 mg/10mL 2000 mg/20mL (PMS) (RT)(PFL) no preservative104	N/A record time of puncture	100 mg/mL <sup>104</sup>	use within 4 h of initial puncture <sup>30</sup>	IT syringe  qs to 6 mL with preservative free NS <sup>97,98</sup> diluents containing preservatives should_NOT be used for intrathecal administration <sup>100</sup>	use within 4 h of initial puncture <sup>30</sup> **(PFL)	- auxiliary info: IT <sup>30</sup> - label to include route in full (i.e., INTRATHECAL injection) attached to both syringe and outer ziplock bag <sup>99</sup>		
Cytarabine SC injection 1000 mg/10mL 2000 mg/20mL (PMS) (RT)(PFL) no preservative <sup>104</sup>	N/A	100 mg/mL <sup>104</sup>	discard unused portion <sup>30,104</sup>	SC syringe	10 d F, 48 h RT <sup>104</sup> **(PFL)			



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Cytarabine 2000 mg/20mL (SteriMax) (RT)(PFL) no preservative <sup>105</sup>	N/A	100 mg/mL <sup>105</sup>	12 h RT <sup>2,105</sup>	0.1-37.5 mg/mL <b>NS</b> , D5W, SWI, LR <sup>105</sup> 100 mL*	in NS: 4 d RT <sup>2,105</sup> other solutions: 72 h F, 24 h RT <sup>105</sup> **(PFL) <sup>105</sup>			
Cytarabine IT injection 2000 mg/20mL (SteriMax) (RT)(PFL) no preservative105	N/A record time of puncture	100 mg/mL <sup>105</sup>	use within 4 h of initial puncture <sup>2</sup>	IT syringe  qs to 6 mL with preservative free NS <sup>97-99</sup> diluents containing preservatives should_NOT be used for intrathecal administration <sup>100</sup>	use within 4 h of initial puncture <sup>2</sup> **(PFL) <sup>105</sup>	- auxiliary info: IT <sup>2</sup> - label to include route in full (i.e., INTRATHECAL injection) attached to both syringe and outer ziplock bag <sup>99</sup>		
Cytarabine SC injection 2000 mg/20mL (SteriMax) (RT)(PFL) no preservative <sup>105</sup>	N/A	100 mg/mL <sup>105</sup>	12 h RT <sup>2,105</sup>	SC syringe	10 d F, 4 d RT <sup>2,101-103</sup> **(PFL) <sup>105</sup>			



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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			
Dacarbazine 600 mg (Pfizer) (F)(PFL) no preservative106	59.1 mL SWI <sup>106</sup>	10 mg/mL <sup>106</sup>	12 h F, 8 h RT <sup>2,106</sup>	0.19-3.0 mg/mL <b>NS</b> , D5W <sup>106</sup> 500-1000 mL†	24 h F <sup>106</sup> **(PFL) <sup>107</sup>	- protect container from light during administration <sup>107</sup>			
DACTINomycin 0.5 mg (GMD Pharma for	1.1 mL SWI (preservative-free) <sup>108</sup>	0.5 mg/mL (500 mcg/mL) <sup>108</sup>	discard unused portion <sup>109</sup>	syringe <sup>108</sup>	use within 4 h of initial vial puncture109	- drug loss reported with some cellulose			
Recordati) (RT)(PFL) no preservative <sup>108</sup> (SAP)	do <b>NOT</b> use SWI with preservative (may form precipitate) <sup>108</sup>			10 mcg/mL or greater <sup>108</sup> <b>NS</b> , D5W <sup>108,110</sup>		ester membrane in- line filters <sup>108</sup>			
Daratumumab  100 mg/5mL  400 mg/20mL  (Janssen)  (F)(PFL)  do not shake  no preservative111	N/A	20 mg/mL <sup>111</sup>	discard unused portion <sup>111</sup>	500-1000 mL NS  dilute to final volume by withdrawing volume from bag equal to volume of drug to be added <sup>111</sup> mix by gentle inversion <sup>111</sup>	24 h <b>F</b> , followed by 15 h infusion (total 39 h) <sup>111</sup> allow bag to come to RT, then use immediately <sup>111</sup> **(PFL)	- administer with 0.2 micron in-line filter <sup>111</sup> - discard if visible particles are observed <sup>111</sup> - complete infusion within 15 h <sup>111</sup>			



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



	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 preservative115	allow vial to come to RT for 30 min prior to use <sup>115</sup> swirl gently for 5 min, inverting the vial every 30 sec; do NOT shake <sup>115</sup> allow vial to rest for 15 min after reconstitution <sup>115</sup> gently invert each vial 5 times prior to withdrawing concentrate for dilution <sup>115</sup> record time of reconstitution	2.2 mg/mL daunorubicin- 5 mg/mL cytarabine <sup>115</sup>	4 h F <sup>115</sup> max combined storage time for reconstituted vial and diluted product is 4 h F (NOT 4 h F each) <sup>115</sup>	500 mL NS, D5W <sup>115</sup> mix by gentle inversion <sup>115</sup>	4h F <sup>115</sup> max combined storage time for reconstituted vial and diluted product is 4 h F (NOT 4 h F each) <sup>115</sup>	- reconstituted product is an opaque, purple, homogenous dispersion <sup>115</sup> - before administration, final product should be gently inverted to remix solution after refrigeration <sup>115</sup>			



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



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		
Denosumab (XGEVA®) 120 mg/1.7 mL (Amgen) (F)(PFL) do not shake no preservative <sup>118</sup>	N/A	71 mg/mL <sup>118</sup>	discard unused portion <sup>109,118</sup>	SC syringe <sup>118</sup>	use within 4 h F, RT of initial puncture <sup>109</sup> bring to RT 15-30 min prior to use <sup>118</sup>	- not interchangeable with PROLIA <sup>118</sup> - do not use if solution is cloudy; trace amounts of translucent to white proteinaceous particles are acceptable <sup>118</sup> - avoid vigorous shaking <sup>118</sup>		
Dexrazoxane 250 mg 500 mg (Hikma USA) (RT) no preservative <sup>119,120</sup>	250 mg: 25 mL SWI <sup>120</sup> 500 mg: 50 mL SWI <sup>120</sup>	10 mg/mL <sup>120</sup>	3 h F, 30 min RT <sup>120</sup>	MUST BE FURTHER DILUTED with Lactated Ringers to 1.3-3.0 mg/mL <sup>120</sup>	4 h F, 1 h RT <sup>120</sup>			
Dexrazoxane 250 mg 500 mg (Pfizer) (RT) no preservative <sup>121</sup>	250 mg: 25 mL SWI <sup>121</sup> 500 mg: 50 mL SWI <sup>121</sup>	10 mg/mL <sup>121</sup>	3 h F, 30 min RT <sup>121</sup>	MUST BE FURTHER DILUTED with Lactated Ringers to 1.3-3.0 mg/mL <sup>121</sup>	4 h F, 1 h RT <sup>121</sup>			



	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 preservative122	N/A	3.5 mg/mL <sup>122</sup>	discard unused portion <sup>30</sup>	100 mL NS <sup>122</sup> mix by gentle inversion <sup>122</sup>	initiate infusion within 4 h of dilution; refrigerate bag if not hung immediately <sup>122</sup> complete administration within 24 h of dilution <sup>122</sup>	- do NOT shake <sup>122</sup>			



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 <sup>123</sup>	20mg: discard unused portion <sup>2,123</sup> 80 mg or 160 mg: 28 d F <sup>2,123</sup> **(PFL) <sup>123</sup> (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) <sup>124</sup>	0.3-0.74 mg/mL NS, D5W <sup>123</sup> 100-500 mL†	10 d F, 4 d RT <sup>2,125</sup> **(PFL) <sup>125</sup> 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	
intravesical 20 mg/2 mL 80 mg/8 mL 160 mg/16 mL (Pfizer/Hospira) (F, RT)(PFL) preservative123	N/A	10 mg/mL <sup>123</sup>	20 mg: discard unused portion <sup>2,123</sup> 80 mg or 160 mg: 28 d F <sup>2,123</sup> **(PFL) <sup>123</sup> (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) <sup>124</sup>	syringe  dilute with NS to final volume of 45 mL <sup>126,127</sup>	up to 0.9 mg/mL: 10 d F, 4 d RT <sup>2,125</sup> **(PFL) <sup>125</sup> during F storage		
DOCEtaxel 20 mg/2 mL 80 mg/8 mL 160 mg/16 mL (Sandoz) (F,RT)(PFL) preservative <sup>128</sup>	N/A	10 mg/mL <sup>128</sup>	28 d <b>F</b> , RT <sup>2,129</sup>	0.3-0.74 mg/mL <b>NS</b> , D5W <sup>128</sup> 100-500 mL†	24 h F, 4 h RT <sup>2,130</sup>	- use non-DEHP bag and IV administration set <sup>128</sup>	



	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 intravesical 20 mg/2 mL 80 mg/8 mL 160 mg/16 mL (Sandoz) (F,RT)(PFL) preservative128	N/A	10 mg/mL <sup>128</sup>	28 d <b>F</b> , RT <sup>2,129</sup>	syringe dilute with NS to final volume of 45 mL <sup>126,127</sup>	up to 0.9 mg/mL <sup>131,132</sup> : use immediately after preparation to prevent particle formation <sup>2,130</sup>	- particle formation occurs earlier with higher temperature and higher concentrations <sup>130</sup>		
DOXOrubicin 10 mg/5 mL 20 mg/10 mL 50 mg/25 mL 200 mg/100 mL	N/A	2 mg/mL <sup>133</sup>	8 h <sup>133</sup>	syringe <sup>133</sup>	24 h <b>F</b> , RT from initial vial puncture <sup>133</sup>	- for LYEPOCHR protocol, see entry for EPOCHR (3-in-1 solution		
(Accord) (F)(PFL) no preservative <sup>133</sup>				0.01–2 mg/mL NS <sup>134,135</sup> 1000 mL <sup>136-138</sup>	24 h RT <sup>134,135</sup>	containing either etoposide or etoposide phosphate AND DOXOrubicin and vinCRIStine)		



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



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		
DOXOrubicin Pegylated Liposomal 20 mg/10 mL (Janssen) (F) no preservative <sup>141</sup>	N/A	2 mg/mL <sup>141</sup>	discard unused portion <sup>141</sup>	D5W only <sup>141</sup> <90 mg: 250 mL <sup>141</sup> ≥90 mg: 500mL <sup>141</sup>	24 h F <sup>141</sup>	- do not filter <sup>141</sup>		
DOXOrubicin Pegylated Liposomal 20 mg/10 mL 50 mg/25 mL (Taro) (F) no preservative142	N/A	2 mg/mL <sup>142</sup>	discard unused portion <sup>142</sup>	D5W only <sup>142</sup> <90 mg: 250 mL <sup>142</sup> ≥90 mg: 500mL <sup>142</sup>	24 h F <sup>142</sup>	- do not filter <sup>142</sup>		



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		
DPACE (ULY0D-PACE protocol) (RT) no preservative <sup>2,138,143,144</sup>	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 <sup>137,143,144</sup>	≤0.2 mg/mL: 24 h RT <sup>2,143,144</sup>	- 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 preservative145	N/A	50 mg/mL <sup>145</sup>	discard unused portion <sup>145</sup>	1-15 mg/mL NS, D5W <sup>145</sup> 100 mL†  mix by gentle inversion <sup>145</sup>	10 d F, 12 h RT <sup>2,145</sup>	- do NOT shake <sup>145</sup> - administer with 0.2 micron in-line filter <sup>145</sup> - discard vial if solution is cloudy, discolored, or visible particles are present <sup>145</sup> - use filtered venting needle (e.g., Chemo- Vent®) in place of CSTD for compounding <sup>146</sup>		
Elranatamab 44 mg/1.1 mL 76 mg/1.9 mL (Pfizer) (F)(PFL) do not shake no preservative147	N/A	40 mg/mL <sup>147</sup> allow vials  to reach RT  before using <sup>147</sup>	discard unused portion <sup>147</sup>	SC syringe <sup>147</sup>	use within 4 h <b>F</b> , RT <sup>147</sup>	- do not use if contains particulates <sup>147</sup>		



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 preservative148 (SAP)	N/A	40 mg/mL <sup>148</sup> allow vials up to 15 min to reach RT before using <sup>148</sup>	discard unused portion <sup>2,148</sup>	SC syringe <sup>148</sup>	use immediately after preparation <sup>2,148</sup>	- supplied diluent to be used only for doses <8 mg <sup>148</sup> - solution colour may be colourless to yellow/brown <sup>148</sup> - unpunctured vials can be kept at RT up to 8 h before returning to F; discard if longer than 8 h RT <sup>148</sup> - solutions can be prepared in normal room light; avoid direct sunlight <sup>148</sup> - CSTD cannot be used during storage of prepared doses <sup>148,149</sup> - to <b>prepare</b> 76 mg dose ONLY: use filtered venting needle (e.g., Chemo-Vent®) in place of CSTD <sup>150</sup>		



	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			
Enfortumab vedotin  20 mg 30 mg (Seagen) (F)(PFL) do not shake no preservative151	20 mg <sup>151</sup> : 2.3 mL SWI  30 mg <sup>151</sup> : 3.3 mL SWI  slowly swirl until completely dissolved; do not shake <sup>151</sup> allow to settle until bubbles are gone (≥1 min) <sup>151</sup>	10 mg/mL <sup>151</sup>	12 h F <sup>2,151</sup>	0.3-4 mg/mL NS, D5W, Lactated Ringer's <sup>151</sup> 50 mL* mix by gentle inversion <sup>151</sup>	16 h F <sup>151</sup> **(PFL) <sup>151</sup>	- discard if visible particles are present or solution is discolored <sup>151</sup> - do not shake <sup>151</sup>			



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 preservative152	N/A  bring vial to RT prior to use (<1 h) <sup>152</sup> gently swirl vial prior to use <sup>152</sup> do not invert, vortex, or shake <sup>152</sup>	For Step-up Dose 1 (0.16 mg) <sup>152</sup> 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 <sup>152</sup>	For Step-up Dose 1 (0.16 mg) <sup>152</sup> 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 <sup>152</sup> mix gently; do not invert, vortex, or shake <sup>152</sup>	24 h F, 12 h RT <sup>152</sup> (RT storage includes preparation)  **(PFL) <sup>152</sup>	- CAUTION: two concentrations are available - use 4 mg vial for step-up doses only <sup>152</sup> - minimize exposure to daylight <sup>152</sup>		



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 preservative152	N/A  bring vial to RT prior to use (<1 h) <sup>152</sup> gently swirl vial prior to use <sup>152</sup> do not invert, vortex, or shake <sup>152</sup>	5 mg/mL <sup>152</sup> For Step-up Dose 2 (0.8 mg) <sup>152</sup> 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 <sup>152</sup>	SC syringe <sup>152</sup> For Step-up Dose 2 (0.8 mg) <sup>152</sup> withdraw 1.0 mL from the intermediate vial into syringe for administration  mix gently; do not invert, vortex, or shake <sup>152</sup>	24 h F, 12 h RT <sup>152</sup> (RT storage includes preparation)  **(PFL) <sup>152</sup>	- CAUTION: two concentrations are available <sup>152</sup> - use 4 mg vial for step-up doses only <sup>152</sup> - minimize exposure to daylight <sup>152</sup>		
Epcoritamab (AbbVie) 48 mg/0.8 mL (F)(PFL) do not shake no preservative <sup>152</sup>	N/A  bring vial to RT prior to use (<1 h) <sup>152</sup> gently swirl vial prior to use <sup>152</sup> do not invert, vortex, or shake <sup>152</sup>	60 mg/mL <sup>152</sup>	discard unused portion <sup>152</sup>	SC syringe <sup>152</sup> do not invert, vortex, or shake <sup>152</sup>	24 h F, 12 h RT <sup>152</sup> (RT storage includes preparation)  **(PFL) <sup>152</sup>	- CAUTION: two concentrations are available - use 48 mg vial for full doses only <sup>152</sup> - minimize exposure to daylight <sup>152</sup>		



	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 preservative153  (SAP)	N/A  bring vial to RT prior to use <sup>153</sup> gently swirl vial prior to use <sup>153</sup>	For Step-up Dose 1 <sup>153</sup> (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 <sup>153</sup>	For Step-up Dose 1 <sup>153</sup> (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 <sup>153</sup> ; to a maximum of 20 h F, 4 h RT <sup>153</sup> mix gently; do not invert, vortex, or shake <sup>153</sup>	- CAUTION: two concentrations are available 153 - use 4 mg vial for step-up 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



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 <sup>153</sup> (SAP)	N/A  bring vial to RT prior to use <sup>153</sup> gently swirl vial prior to use <sup>153</sup>	For Step-up Dose 2 (0.8 mg) <sup>153</sup> 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 <sup>153</sup>	SC syringe <sup>153</sup> For Step-up Dose 2 (0.8 mg) <sup>153</sup> withdraw 1.0 mL from the intermediate vial into syringe for administration	24 h <sup>153</sup> ; to a maximum of 20 h F, 4 h RT <sup>153</sup> mix gently; do not invert, vortex, or shake <sup>153</sup>	- CAUTION: two concentrations are available <sup>153</sup> - use 4 mg vial for step-up doses only <sup>153</sup> - do not use if visible particles are observed <sup>153</sup> - do not use CSTD for preparation or administration <sup>153</sup> ; use filtered venting needle (Chemo-Vent®) for preparation		



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) 48 mg/0.8 mL (F)(PFL) do not shake no preservative153 (SAP)	N/A  bring vial to RT prior to use <sup>153</sup> gently swirl vial prior to use <sup>153</sup>	60 mg/mL <sup>153</sup>	discard unused portion <sup>153</sup>	SC syringe <sup>153</sup>	24 h <sup>153</sup> ; to a maximum of 20 h F, 4 h RT <sup>153</sup> mix gently; do not invert, vortex, or shake <sup>153</sup>	- 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 <sup>154</sup>	N/A	2 mg/mL <sup>154</sup>	8 h <b>F</b> , RT <sup>154</sup>	syringe <sup>154</sup>	48 h <b>F</b> , 24 h RT from initial vial puncture <sup>154</sup>			



	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
Epirubicin 10 mg/5 mL 50 mg/25 mL 200 mg/100 mL (Fresenius Kabi)	N/A record time of puncture	2 mg/mL <sup>155</sup>	8 h <sup>155</sup>	syringe <sup>155</sup>	48 h <b>F</b> , 24 h RT from initial vial puncture <sup>155</sup>	
(F)(PFL) no preservative <sup>155</sup>				100 mL* <b>NS,</b> D5W	48 h <b>F</b> , RT <sup>23,155</sup>	
Epirubicin 10 mg/5 mL 50 mg/25 mL 200 mg/100 mL (Pfizer)	N/A record time of puncture	2 mg/mL <sup>156</sup>	8 h <sup>156</sup>	syringe <sup>156</sup>	48 h <b>F</b> , 24 h RT from initial vial puncture <sup>156</sup>	
(F)(PFL) no preservative <sup>156</sup>				100 mL* <b>NS</b> , D5W <sup>71</sup>	48 h <b>F</b> , RT <sup>157</sup>	



	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			
EPOCHR (LYEPOCHR protocol) (RT) no preservative <sup>23,158-161</sup>	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 preservative162,163	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 <b>NS</b> <sup>164</sup>	4 d RT, 5 d F <sup>2,162</sup>	- 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) <sup>165</sup> no preservative <sup>23</sup>	N/A	0.5 mg/mL <sup>165</sup>	discard unused portion <sup>23,165</sup>	IV syringe <sup>165</sup>	24 h <b>F</b> , 6 h RT <sup>165</sup>	- do not administer through dextrose containing lines <sup>165</sup> - vials contain dehydrated alcohol USP (5% v/v) <sup>165</sup>			



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 preservative166	N/A	20 mg/mL <sup>166</sup>	discard unused portion <sup>166</sup>	0.2-0.4 mg/mL NS <sup>166</sup> 100-1000 mL†	stability is concentration dependent  0.2-0.3 mg/mL: 7 d F, <sup>167</sup> 2 d RT <sup>167,168</sup> 0.4-0.5 mg/mL: 1 d F, <sup>167</sup> 1d RT <sup>167</sup> 0.6-9.0 mg/mL: generally unstable  9.5 mg/mL: 2 d F, <sup>167</sup> 1d RT <sup>167</sup> 10-12 mg/mL: 7 d F, <sup>167</sup> 2 d RT <sup>167,168</sup> 4 h RT <sup>166,170</sup>	- use non-DEHP bag and tubing only - administer with 0.2 micron in-line filter <sup>169</sup> - 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 (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		
Etoposide phosphate (ETOPOPHOS®) 100 mg (Xediton/Cheplapharm) (F)(PFL) no preservative171-173 (SAP)	5 mL NS, D5W, SWI, BWI <sup>174</sup>	20 mg/mL <sup>174</sup>	in NS, D5W, SWI: 12 h F, RT <sup>2,174</sup> in BWI: 7 d F, 48 h RT <sup>174</sup>	500 mL NS, D5W <sup>174</sup> (do not dilute to	24 h <b>F</b> , RT <sup>174</sup>	- for LYEPOCHR protocol, see entry for EPOCHR (3-in-1 solution containing either etoposide or etoposide phosphate AND DOXOrubicin and vinCRIStine)		
	10 mL NS, D5W, SWI, BWI <sup>174</sup>	10 mg/mL <sup>174</sup>		less than 0.1 mg/mL) <sup>174</sup>				
Filgrastim (NEUPOGEN®) 300 mcg/1 mL 480 mcg/1.6 mL	N/A	300 mcg/mL <sup>175</sup>	discard unused portion <sup>175</sup>	SC syringe <sup>175</sup>	10 d F <sup>2,176</sup>	- albumin is added to D5W to prevent filgrastim		
			portion	50-100 mL D5W only <sup>177</sup> in PVC, polyolefin, or glass <sup>175</sup> (for filgrastim concentrations of 5-15 mcg/mL in D5W, add albumin 2 mg/mL) <sup>175</sup>	7 d F <sup>176</sup>	adsorption to plastic <sup>175</sup> - incompatible with saline <sup>175,177</sup> - do NOT dilute to less than 5 mcg/mL <sup>175</sup>		



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)	N/A	300 mcg/mL <sup>178</sup>	discard unused portion <sup>178</sup>	SC syringe	10 d F, 24 h RT <sup>2,179</sup>	- albumin is added to D5W to prevent filgrastim adsorption to		
(F)(PFL) do not shake no preservative <sup>178</sup>				50-100 mL D5W only <sup>177</sup> in PVC, polyolefin, or glass <sup>178</sup> (for filgrastim concentrations of 5-15 mcg/mL in D5W, add albumin 2 mg/mL) <sup>178</sup>	complete administration within 24 h RT <sup>180</sup>	plastic <sup>178</sup> - incompatible with saline <sup>178</sup> - do NOT dilute to concentration less than 5 mcg/mL <sup>178</sup>		
Fludarabine 50 mg (Accord) (F) no preservative <sup>181</sup>	N/A	25 mg/mL <sup>181</sup>	discard unused portion <sup>181</sup>	dilute to maximum of 1 mg/mL <b>NS</b> , D5W <sup>181</sup> 100 mL†	72 h F, 24 h RT <sup>181</sup>			



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



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 <sup>186</sup>	12 h RT <sup>2,187</sup>	syringe	4 d RT <sup>2,187</sup>		
(Sandoz) (RT)(PFL) no preservative <sup>186</sup>				0.35-15 mg/mL <b>D5W</b> <sup>187</sup>	10 d F, 4 d RT <sup>2,187</sup>		
				500 mL†			
				CIVI: ambulatory pump <sup>185</sup>	complete within 8 d <sup>188-190</sup>		
Gemcitabine 1000 mg 2000 mg	1000 mg: 25 mL NS <sup>191</sup>	38 mg/mL <sup>191</sup>	12 h RT <sup>2,191</sup>	syringe <sup>191</sup>	24 h RT <sup>2,191</sup>		
(Accord) (RT) no preservative <sup>191</sup>	2000 mg: 50 mL NS <sup>191</sup>		refrigeration may cause crystallization <sup>191</sup>	0.1-38 mg/mL NS <sup>191</sup>	4 d RT <sup>2,192,193</sup>		
Gemcitabine				250 mL†			
intravesical 1000 mg 2000 mg (Accord) (RT) no preservative <sup>191</sup>	1000 mg: 25 mL NS <sup>191</sup> 2000 mg: 50 mL NS <sup>191</sup>	38 mg/mL <sup>191</sup>	12 h RT <sup>2,191</sup> refrigeration may cause crystallization <sup>191</sup>	syringe  dilute with  NS  to final volume of 45-90 mL <sup>126,127,194-196</sup>	up to 38 mg/mL <sup>2,191</sup> 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 <sup>196</sup>	N/A	38 mg/mL <sup>196</sup>	discard unused portion <sup>196</sup>	syringe <sup>196</sup> 0.1–38 mg/mL  NS, D5W <sup>196</sup> 250 mL†	0.1-26 mg/mL: 10 d F, 24 h RT **(PFL) <sup>2,197,198</sup> 27-38 mg/mL: 24 h RT <sup>198</sup>			
Gemcitabine intravesical 200 mg/5.3 mL 1000 mg/26.3 mL 2000 mg/52.6 mL (Pfizer/Hospira) (F) no preservative <sup>196</sup>	N/A	38 mg/mL <sup>196</sup>	discard unused portion <sup>196</sup>	syringe  dilute with  NS  to final volume of 45-90 mL <sup>126,127,194-196</sup>	0.1-26 mg/mL: 10 d F, 24 h RT **(PFL) <sup>2,197,198</sup> 27-38 mg/mL: 24 h RT <sup>198</sup>			
Gemcitabine (NOTE: concentration) 200 mg/5 mL 1000 mg/25 mL 2000 mg/50 mL (Sandoz) (F) no preservative199	N/A	<b>40</b> mg/mL <sup>199</sup>	discard unused portion <sup>199</sup>	syringe <sup>199</sup> 0.1–40 mg/mL  NS, D5W <sup>199</sup> 250 mL†	1-25 mg/mL: 10 d F, 4 d RT <sup>2,199,200</sup> 26-40 mg/mL: 24 h RT <sup>199</sup>	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)  intravesical 200 mg/5 mL 1000 mg/25 mL 2000 mg/50 mL (Sandoz) (F) no preservative <sup>199</sup>	N/A	<b>40</b> mg/mL <sup>199</sup>	discard unused portion <sup>199</sup>	syringe  dilute with  NS  to final volume of 45-90 mL <sup>126,127,194-196</sup>	1-25 mg/mL: 10 d F, 4 d RT <sup>2,199,200</sup> 26-40 mg/mL: 24 h RT <sup>199</sup>	CAUTION: alternative concentration		
Gemtuzumab ozogamicin 4.5 mg (Pfizer) (F)(PFL) no preservative <sup>201</sup>	5 mL SWI <sup>201</sup> allow vial to come to RT prior to use (~5 min) <sup>201</sup> swirl gently to mix; do NOT shake <sup>201</sup>	1 mg/mL <sup>201</sup>	6 h F, 3 h RT <sup>201</sup> protect from light if not used immediately <sup>201</sup>	0.075-0.234 mg/mL NS <sup>201</sup> 25-50 mL† mix by gentle inversion; do NOT shake <sup>201</sup>	complete administration within 12 h F, 6 h RT <sup>201</sup> (PFL)**  if refrigerated, bring bag to RT over 1 h prior to administration <sup>201</sup>	- administer with 0.2 micron in-line filter <sup>201</sup> - protect infusion <b>bag</b> from light (including UV) for administration <sup>201</sup> - protect administration <b>line</b> from light ONLY if hang time will be longer than 2 h <sup>201,202</sup> - solution may contain white particulates which do not affect product quality <sup>201</sup>		



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



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



	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			
Ipilimumab 50 mg/10 mL 200 mg/40 mL (BMS Canada) (F)(PFL) no preservative <sup>212</sup>	N/A	5 mg/mL <sup>212</sup>	12 h F, RT <sup>2,213</sup>	1-4 mg/mL NS, D5W <sup>212</sup> 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) <sup>212</sup>	24 h <b>F</b> , RT <sup>213</sup>	- do NOT shake <sup>212</sup> - administer with 0.2 micron in-line filter <sup>212</sup> - vials may contain translucent-to- white amorphous particles <sup>212</sup> - discard if cloudy or has pronounced colour change (should be clear to pale yellow) <sup>212</sup>			
Irinotecan 40 mg/2 mL 100 mg/5 mL 500 mg/25 mL (Accord) (RT)(PFL) no preservative <sup>214</sup>	N/A	20 mg/mL <sup>214</sup>	discard unused portion <sup>214</sup>	0.12-3.0 mg/mL <b>D5W</b> (preferred), NS <sup>214</sup> 250-500 mL†	48 h F, 24 h RT **(PFL) <sup>214</sup>				



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



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



	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 <sup>220</sup>	1 h RT <sup>220</sup>	0.2-0.6 mg/mL	6 h RT <sup>220</sup>	- use non-DEHP		
(contains 16 mg)	8 mL diluent			Lactated Ringer's <sup>220</sup>		bag and		
45 mg	(supplied) <sup>220</sup>					administration		
(contains 47 mg)	45					set <sup>220</sup>		
(BMS)	45 mg: 23.5 mL diluent					- administer with 0.2 micron in-line		
(F)(PFL) no preservative <sup>220</sup>	(supplied) <sup>220</sup>					filter <sup>220</sup>		
(SAP)	(Supplied)==					IIILEI		
(SAP)								

<sup>\*</sup> Suggested volume based on usual dose range and any concentration range of stability data

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.<sup>221,222</sup>

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.

<sup>†</sup> see BC Cancer IV Bag Selection table: standardized bag sizes are provided for select Benefit Drugs with concentration-dependent stability or large drug volume

<sup>\*\*</sup> 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.

<sup>\*\*\*</sup> Contains DMA (N,N dimethylacetamide). Product may be incompatible with closed system transfer devices (CSTD) such as ChemoLock.



## 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

## References:

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