

**BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART**

DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	Reconstitute With:	To Give:	Vial Stability	Product	Product Stability	Special Precautions/Notes
<b>Leucovorin</b> 50 mg/5 mL 500 mg/50 mL (Hospira) (F)(PFL) no preservative <sup>1</sup>	N/A	10 mg/mL <sup>1</sup>	5 mL vial: discard unused portion <sup>2</sup>	syringe <sup>3</sup>	7 d F, <sup>3</sup> 48 h RT <sup>3,4</sup>	
			50 mL vial: 8 h <sup>1</sup>	0.05-10 mg/mL NS, D5W, Ringer's, Lactated Ringer's, D10W, D5NS <sup>1,2</sup>  (e.g., 50-250 mL*)	24 h RT in <b>NS</b> , D5W, Lactated Ringer's, Ringer's <sup>1</sup>  8 h RT in D10W, D5- NS <sup>1</sup>	

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<b>Leucovorin</b> 50 mg/5 mL 500 mg/50 mL (Teva) (F)(PFL) no preservative <sup>5</sup>	N/A	10 mg/mL <sup>1</sup>	discard unused portion <sup>1</sup>	syringe	8 h <sup>6,7</sup>	
				0.4 - 4.8 mg/mL <b>NS</b> , D5W <sup>8</sup>  (e.g., 50-250 mL*)	72 h <b>F</b> , RT <sup>8</sup>	
				0.06 - 0.4 mg/mL <b>NS</b> , D5W <sup>5</sup>	24 h RT in NS <sup>5</sup>  12 h RT in D5W <sup>5</sup>	
				0.06 - 1 mg/mL Ringer's, Lactated Ringer's, D10W, D10NS <sup>5</sup>	24 h RT in Ringer's, Lactated Ringer's <sup>5</sup>  12 h RT in D10W <sup>5</sup>  6 h RT in D10NS <sup>5</sup>	

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<b>Mechlorethamine</b> 10 mg (Ovation Pharmaceuticals/Merck) (RT,PFL) no preservative <sup>9</sup>	do NOT use if discoloured or water droplets form in vial before reconstitution <sup>9</sup>  10 mL SWI or NS <sup>9</sup>  record time of reconstitution	1 mg/mL <sup>9</sup>	use within 4 h of reconstitution RT <sup>7,10</sup>	syringe <sup>9</sup>	complete administration within 4 h of reconstitution RT <sup>7,9,10</sup>	
				100 mL NS <sup>9,11</sup>	complete administration within 4 h of reconstitution RT <sup>7,9,11</sup>	
<b>Melphalan</b> 50 mg (GSK) (RT)(PFL) no preservative <sup>12</sup>	10mL supplied diluent <sup>12</sup>  immediately after adding diluent, shake vigorously <sup>12</sup>  record time of reconstitution	5 mg/mL <sup>12</sup>	2 h RT <sup>12</sup>  <b>do NOT                      refrigerate</b>	0.1 – 0.45 mg/mL in <b>NS</b> only <sup>12</sup>  (e.g., greater than 45 mg and less than or equal to 110 mg in 250 mL NS)*	complete administration within 60 min from time of initial reconstitution at RT <sup>10</sup>	

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<b>Mesna</b> 1000 mg/10mL (Fresenius Kabi) (RT) preservative <sup>13</sup>	N/A	100 mg/mL <sup>13</sup>	14 d <b>F</b> , RT <sup>7,13</sup>	Greater than or equal to 1mg/mL <sup>13</sup>  <b>NS</b> or D5W	48 h <b>F</b> , 24 h RT <sup>13</sup>	
<b>Methotrexate</b> 50 mg/2mL 500 mg/20mL 1 g/40mL 5 g/200mL (Hospira) (RT)(PFL) no preservative <sup>14</sup>	N/A	25 mg/mL <sup>14</sup>	50mg: discard unused portion <sup>14</sup>  500mg, 1 g, 5 g: 8 h <b>F</b> , RT <sup>14</sup>	syringe	2 d <b>F</b> , RT <sup>10,15,16</sup>	- for high-dose regimens (e.g., 1- 12 g/m <sup>2</sup> as a single dose) <sup>17-21</sup> : use preservative-free methotrexate <sup>10</sup> - do not use for IT injection
				0.4–2 mg/mL <sup>22</sup> 100 mL* <b>NS</b> , D5W	24 h RT <sup>22</sup>	
				high dose (e.g., 1-12 g/m <sup>2</sup> as a single dose) <sup>17-21</sup> : 1000 mL* <b>NS</b>	24 h RT <sup>2,22,23</sup>	
<b>Methotrexate IT Injection</b> <sup>14</sup> Only preservative free methotrexate may be administered by the intrathecal route <sup>14</sup> 50 mg/2mL <sup>24</sup> (Hospira) (RT)(PFL) no preservative <sup>14</sup>	N/A	25 mg/mL <sup>14</sup>	discard unused portion <sup>14</sup>	qs to 6 mL with preservative free <b>NS</b> <sup>25</sup>	use within 4 h of initial puncture <sup>7,10</sup>	- auxiliary label <sup>26</sup> : "IT" - label to include route in full (i.e., INTRATHECAL injection) attached to both syringe and outer ziplock bag <sup>26</sup>

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<b>Methotrexate</b> 50 mg/2mL 500 mg/20mL (Hospira) (RT)(PFL) preservative <sup>14</sup>	N/A	25 mg/mL <sup>14</sup>	14 d F <sup>27,28</sup>	syringe	14 d F <sup>4,15</sup>	- for high-dose regimens (e.g., 1- 12 g/m <sup>2</sup> as a single dose) <sup>17-21</sup> : use preservative-free methotrexate <sup>10</sup> - do not use for IT injection
				0.4–2 mg/mL <sup>22</sup> 100 mL* NS, D5W <sup>14</sup>	24 h RT <sup>27</sup>	
<b>Mitomycin</b> 20 mg (Teva) (RT)(PFL) no preservative <sup>29</sup>	40 mL SWI <sup>29</sup> shake well <sup>29</sup>	0.5 mg/mL <sup>29</sup>	6 h RT, 72 h F <sup>29</sup>  **(PFL) <sup>29</sup>	syringe	6 h RT, 72 h F <sup>29</sup>  **(PFL) <sup>29</sup>	
<b>Mitomycin intravesical</b> 20 mg (Teva) (RT)(PFL) no preservative <sup>29</sup>	40 mL SWI <sup>29</sup> shake well <sup>29</sup>	0.5 mg/mL <sup>29</sup>	6 h RT, 72 h F <sup>29</sup>  **(PFL) <sup>29</sup>	syringe	6 h RT, 72 h F <sup>29</sup>  **(PFL) <sup>29</sup>	
	10 mL SWI <sup>30</sup> shake well <sup>29</sup>	2 mg/mL <sup>30</sup>	use immediately after preparation to prevent precipitation <sup>31</sup>	syringe	use immediately after preparation to prevent precipitation <sup>31</sup>	- may precipitate due to low solubility <sup>31,32</sup> - do NOT refrigerate <sup>31</sup>

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<b>Mitomycin intraperitoneal</b> 20 mg (Teva) (RT)(PFL) no preservative <sup>29</sup>	40 mL SWI <sup>29</sup>  shake well <sup>29</sup>	0.5 mg/mL <sup>29</sup>	6 h RT, 72 h F <sup>29</sup>  **(PFL) <sup>29</sup>	0.02-0.04 mg/mL <sup>29</sup>  <b>NS</b> , sodium lactate <sup>29</sup>	NS: 6 h RT, 18 h F <sup>29</sup>  sodium lactate: 6 h RT, F <sup>29</sup>	
<b>mitoXANTRONE</b> 20 mg/10 mL (Fresenius Kabi) (RT) no preservative <sup>33</sup>	N/A	2 mg/mL <sup>33</sup>	discard unused portion <sup>33</sup>	<b>NS</b> , D5W <sup>33</sup>  Greater than or equal to *50 mL <sup>33</sup>	24 h RT <sup>33</sup>	
<b>mitoXANTRONE</b> 20 mg/10 mL 25 mg/12.5 mL (Hospira) (RT)(PFL) no preservative <sup>34</sup>	N/A	2 mg/mL <sup>34</sup>	discard unused portion <sup>34</sup>	0.2-0.6 mg/mL <sup>34</sup>  <b>NS</b> , D5W <sup>34</sup>  Greater than or equal to *50 mL <sup>34</sup>	NS: 24 h F, RT <sup>34</sup>  **(PFL) <sup>34</sup>	
<b>mitoXANTRONE</b> 20 mg/10 mL (Teva/Novopharm) (RT)(PFL) no preservative <sup>35</sup>	N/A	2 mg/mL <sup>35</sup>	discard unused portion <sup>35</sup>	<b>NS</b> , D5W <sup>35</sup>  Greater than or equal to *50 mL <sup>35</sup>	24 h RT <sup>35</sup>  **(PFL) <sup>36</sup>	

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<p><b>Nivolumab</b> 40 mg/4 mL 100 mg/10 mL (BMS) (F)(PFL) do not shake no preservative<sup>37</sup></p>	<p align="center">N/A</p>	<p align="center">10 mg/mL<sup>37</sup></p>	<p align="center">discard unused portion<sup>37</sup></p>	<p align="center">1-10 mg/mL<sup>37</sup>  <b>NS, D5W</b><sup>37</sup>  mix by gentle inversion<sup>37</sup></p>	<p align="center">complete administration within 8 h RT or 24 h F<sup>38</sup></p>	<ul style="list-style-type: none"> <li>- administer with a 0.2 to 1.2 micron low protein binding in-line filter<sup>37</sup></li> <li>- flush line with NS or D5W following infusion<sup>37</sup></li> <li>- discard if cloudy or has pronounced colour change (should be clear to pale yellow)<sup>37</sup></li> </ul>
<p><b>oBINutuzumab</b> 1000 mg/40 mL (Hoffman-La Roche) (F)(PFL)<sup>**</sup> do not shake no preservative<sup>39</sup></p>	<p align="center">N/A</p>	<p align="center">25 mg/mL<sup>39</sup></p>	<p align="center">discard unused portion<sup>2</sup></p>	<p align="center">100 mg: in 100 mL NS<sup>39</sup>  900 mg: in 250 mL NS<sup>39</sup>  1000 mg: in 250 mL NS<sup>39</sup></p>	<p align="center"><b>24 h F, 48 h RT</b><sup>39,40</sup></p>	<ul style="list-style-type: none"> <li>-once removed from the fridge, diluted product is stable for an additional 48 h RT<sup>39,40</sup></li> <li>- do NOT shake<sup>39</sup></li> <li>- do NOT use dextrose containing solutions<sup>39</sup></li> </ul>

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<b>Octreotide</b> 50 mcg/mL 100 mcg/mL 500 mcg/mL (Omega) (F)(PFL) no preservative <sup>41</sup>  multidose vial: 1000 mcg/5 mL (Omega) (F)(PFL) preservative <sup>41</sup>	N/A	50 mcg/mL 100 mcg/mL 500 mcg/mL <sup>41</sup>	Use within 4 h <sup>41</sup>	NS <sup>41</sup>  volume adjusted to ensure a continuous infusion of octreotide at 25 mcg/hour <sup>41</sup>	24 h RT <sup>41</sup>	
		200 mcg/mL <sup>41</sup>	15 d F <sup>41</sup>	NS <sup>41</sup>  volume adjusted to ensure a continuous infusion of octreotide at 25 mcg/hour <sup>41</sup>	24 h RT <sup>41</sup>	
<b>Octreotide</b> 50 mcg/mL 100 mcg/mL 500 mcg/mL (Teva/Novopharm) (F)(PFL) no preservative <sup>42</sup>  multidose vial: 1000 mcg/5 mL (Teva/Novopharm) (F)(PFL) preservative <sup>42</sup>	N/A	50 mcg/mL 100 mcg/mL 500 mcg/mL <sup>42</sup>	discard unused portion <sup>42</sup>	SC syringe <sup>42</sup>	single use vials: use within 4 h  multidose vials: use within 14 d F <sup>28,42</sup>	
		200 mcg/mL <sup>42</sup>	14 d F <sup>28,42</sup>	infusion: NS <sup>42</sup>	single use or multidose vials: 24 h RT <sup>42</sup>	



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<b>Octreotide</b> (SANDOSTATIN®) 1000 mcg/5 mL (Novartis) (F)(PFL) preservative <sup>43</sup>	N/A	200 mcg/mL <sup>43</sup>	discard unused portion <sup>44</sup>	50–200 mL NS <sup>10,45,46</sup>  SC infusion: adjust volume to ensure infusion rate of 25 mcg/h <sup>45</sup>	24 h RT <sup>45</sup>	
<b>Octreotide</b> (SANDOSTATIN®) 50 mcg/1 mL 100 mcg/1 mL 500 mcg/1 mL (Novartis) (F)(PFL) no preservative <sup>43</sup>	N/A	50 mcg/mL 100 mcg/mL 500 mcg/mL <sup>43</sup>	discard unused portion <sup>45</sup>	50-100 mL <sup>10,46</sup>  NS <sup>45</sup>  SC infusion: adjust volume to ensure infusion rate of 25 mcg/h <sup>45</sup>	24 h RT <sup>45</sup>	
<b>Octreotide</b> (SANDOSTATIN LAR®) 10 mg 20 mg 30 mg (Novartis) (F)(PFL) no preservative <sup>44</sup>	2 mL supplied diluent  gently run 2 mL down sides of the vial; do NOT disturb for 2–5 min, then swirl moderately <sup>45</sup>  record time of reconstitution	10 mg: 5 mg/mL 20 mg: 10 mg/mL 30 mg: 15 mg/mL <sup>45</sup>	discard unused portion <sup>45</sup>	deep intragluteal administration only <sup>45</sup>	use within 4 h of initial reconstitution <sup>7,45</sup>	- do NOT shake

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<p><b>oFatumumab</b> 100 mg/ 5 mL 1000 mg/50 mL (GlaxoSmithKline) (F)(PFL) no preservative<sup>47</sup></p>	<p align="center">N/A</p>	<p align="center">20 mg/mL<sup>47</sup></p>	<p align="center">discard unused portion<sup>2</sup></p>	<p align="center">1000 mL NS<sup>47</sup>  or  alternatively, 2000 mg doses may be supplied in 2 x 500 mL NS<sup>47</sup>  withdraw volume from bag equal to volume of drug to be added<sup>47</sup></p>	<p align="center">48 h RT<sup>47</sup></p>	<p>- administer with 0.2 micron low protein binding in- line filter<sup>47</sup> - do NOT shake; mix by slow inversion to avoid formation of foam<sup>47</sup> - solution may contain a small quantity of drug particles; do not administer if solution is cloudy or discoloured<sup>47</sup></p>
<p><b>Olaratumab</b> 500 mg/50 mL (Lilly) (F)(PFL) do not shake no preservative<sup>48</sup></p>	<p align="center">N/A</p>	<p align="center">10 mg/mL<sup>48</sup></p>	<p align="center">discard unused portion<sup>2,48</sup></p>	<p align="center">dilute to a final volume of 250 mL NS<sup>48</sup>  do NOT use D5W or other dextrose containing solutions<sup>48</sup>  gently invert to mix<sup>48</sup></p>	<p align="center">complete administration within 24 h F, plus an additional 12 h RT<sup>48</sup></p>	<p align="center">- do NOT shake<sup>48</sup></p>

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<b>Oxaliplatin</b> 50 mg 100 mg (Actavis) (RT)(PFL) no preservative <sup>49</sup>	50 mg: 10 mL SWI, D5W <sup>49</sup>  100 mg: 20 mL SWI, D5W <sup>49</sup>	5 mg/mL <sup>49</sup>	discard unused portion <sup>49</sup>	250-500 mL D5W (0.2-0.7 mg/mL) <sup>49</sup>  do NOT use NS or other chloride- containing solutions <sup>49</sup>  do NOT use aluminum-containing needle and syringe <sup>49</sup>	0.2-2 mg/mL: 24 h F <sup>49</sup>	- do NOT use aluminum- containing needle, syringe or tubing <sup>49</sup>
<b>Oxaliplatin</b> 50 mg/10 mL 100 mg/20 mL 200 mg/40 mL (Hospira/Pfizer) (RT) no preservative <sup>50</sup>	N/A	5 mg/mL <sup>50</sup>	discard unused portion <sup>50</sup>	250-500 mL D5W (0.2-0.7 mg/mL) <sup>50</sup>  do NOT use NS or other chloride- containing solutions <sup>51</sup>  do NOT use aluminum-containing needle and syringe <sup>51</sup>	0.2-0.4 mg/mL: 24 h RT or 5 d F plus an additional 8 h RT <sup>50,52</sup>  0.5-2 mg/mL: 24 h RT or 14 d F plus an additional 8 h RT <sup>50,52</sup>	- do NOT use aluminum- containing needle, syringe or tubing <sup>50</sup>

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<b>Oxaliplatin</b> 50 mg/10 mL 100 mg/20 mL 200 mg/40 mL (sanofi-aventis) (RT)(PFL) no preservative <sup>53</sup>	N/A	5 mg/mL <sup>53</sup>	discard unused portion <sup>53</sup>	250–500 mL D5W <sup>53</sup> (0.2-2 mg/mL) <sup>53,54</sup>  do NOT use NS or other chloride- containing solutions <sup>53</sup>  do NOT use aluminum-containing needle and syringe <sup>53</sup>	0.2-1.3 mg/mL: 48 h RT, 14 d F <sup>4,54,55</sup>  1.3-2 mg/mL: 24 h RT, 48 h F <sup>53</sup>	- do NOT use aluminum- containing needle, syringe or tubing <sup>53</sup>
<b>Oxaliplatin</b> 50 mg/10 mL 100 mg/20 mL 150 mg/30 mL 200 mg/40 mL (Sandoz) (RT)(PFL) no preservative <sup>51</sup>	N/A	5 mg/mL <sup>51</sup>	2 d F, RT <sup>2,56</sup>	0.2-0.7 mg/mL <sup>51</sup>  250-500 mL D5W <sup>51</sup>  do <b>NOT</b> use NS or other chloride- containing solution <sup>51</sup>  do NOT use aluminum-containing needle and syringe <sup>51</sup>	0.2-2 mg/mL: 24 h RT, 48 h F <sup>51</sup>	

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<b>Oxaliplatin</b> 50 mg/10 mL 100 mg/20 mL 200 mg/40 mL (Teva) (RT)(PFL) no preservative <sup>57</sup>	N/A	5 mg/mL <sup>57</sup>	discard unused portion <sup>57</sup>	250-500 mL D5W (0.2-0.7 mg/mL) <sup>57</sup>  do <b>NOT</b> use NS or other chloride- containing solution <sup>57</sup>  do NOT use aluminum-containing needle and syringe <sup>57</sup>	0.2-2 mg/mL: 24 h RT, 48 h F <sup>57</sup>	- do NOT use aluminum- containing needle, syringe or tubing <sup>57</sup>
<b>PACLitaxel</b> 30 mg/5 mL 100 mg/16.7 mL 300 mg/50 mL (Accord) (RT)(PFL) no preservative <sup>58</sup>	N/A	6 mg/ mL <sup>58</sup>	30 mg/5 mL or 100 mg/16.7 mL vial: 48 h RT <sup>2,58</sup>  300 mg/50 mL vial: 24 h RT <sup>58</sup>	0.3-1.2 mg/mL in <b>NS</b> , D5W, D5NS, D5LR <sup>58</sup>  (e.g., 100-1000 mL)*	complete administration within 27 h RT <sup>58</sup>	- use non-DEHP bag and tubing with 0.22 micron in-line filter <sup>58</sup> - avoid excessive shaking <sup>58</sup>

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<b>PACLitaxel</b> 30 mg/5 mL 100 mg/16.7 mL 300 mg/50 mL (Biolyse) (RT) <sup>59</sup> no preservative <sup>60</sup>	N/A	6 mg/mL <sup>60</sup>	48 h RT <sup>2,61</sup>	0.3-1.2 mg/mL in <b>NS</b> , D5W <sup>60</sup>  (e.g., 100-1000 mL)*	complete administration within 27 h RT <sup>60,62</sup>	- use non-DEHP bag and tubing with 0.22 micron in-line filter <sup>60</sup>
				0.1 mg/mL in <b>NS</b> <sup>63</sup>	44 h <b>F</b> , RT <sup>63</sup>	
				0.012-0.12 mg/mL in <b>NS</b> <sup>64</sup>	16 h RT <sup>62</sup>	
				devices with spikes (e.g., chemo dispensing pins) <b>may be used</b> with vials <sup>65</sup>		
<b>PACLitaxel</b> 30 mg/5 mL 100 mg/16.7 mL 150 mg/25 mL 300 mg/50 mL (Hospira) (RT)(PFL) preservative <sup>66</sup>	N/A	6 mg/mL <sup>67</sup>	48 h RT <sup>2,67,68</sup>	0.3-1.2 mg/mL in <b>NS</b> , D5W, D5NS, D5LR <sup>67</sup>  (e.g., 100-1000 mL)*	complete administration within 27 h RT <sup>67</sup>	- use non-DEHP bag and tubing with 0.22 micron in-line filter <sup>67</sup>

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<b>PACLitaxel, nanoparticle, albumin- bound (nab)</b> 100 mg (Celgene) (RT)(PFL) no preservative <sup>69</sup>	20 mL NS <sup>69</sup>  - slowly direct diluent against side of vial (i.e., greater than or equal to 1 min) during reconstitution <sup>69</sup>  - let stand for greater than or equal to 5 min to wet powder <sup>69</sup>  - gently swirl or invert for greater than or equal to 2 min <sup>69</sup>	5 mg/mL <sup>69</sup>	use immediately (RT) or 8 h F <sup>69</sup>  **(PFL) <sup>69</sup>	in empty sterile PVC, non-PVC, or non- DEHP infusion bag <sup>69</sup>	48 h F plus an additional 8 h RT <sup>70</sup>	- each vial contains 900 mg human albumin <sup>69</sup> - to prevent foaming, do NOT inject NS directly onto the powder <sup>69</sup> - some settling may occur; use mild agitation to resuspend <sup>69</sup> - administer using a 15 micron filter ONLY (NOTE: use of filters with a pore size less than 15 microns may cause filter blockage) <sup>71,72</sup>
<b>Pamidronate</b> 30 mg/10 mL 60 mg/10 mL 90 mg/10 mL (Hospira) (RT) no preservative <sup>73</sup>	N/A	3 mg/mL 6 mg/mL <sup>73</sup> 9 mg/mL <sup>73</sup>	discard unused portion <sup>73</sup>	0.06–0.36 mg/mL NS, D5W <sup>73</sup>  (e.g., 250 mL* NS) <sup>74</sup>	24 h F followed by 24 h RT (total 48 h) <sup>73</sup>  **(PFL) <sup>73</sup>	- do <b>NOT</b> mix with calcium containing solution (e.g., Ringer's) <sup>73</sup>

**BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART**

<b>DRUG &amp; STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)</b>	<b>Reconstitute With:</b>	<b>To Give:</b>	<b>Vial Stability</b>	<b>Product</b>	<b>Product Stability</b>	<b>Special Precautions/Notes</b>
<b>Pamidronate</b> 30 mg/10 mL 60 mg/10 mL 90 mg/10 mL (Omega) (RT) no preservative <sup>75</sup>	N/A <sup>75</sup>	3 mg/mL 6 mg/mL 9 mg/mL <sup>75</sup>	discard unused portion <sup>75</sup>	0.06–0.36 mg/mL <b>NS</b> , D5W <sup>75</sup>  (e.g., 250 mL* NS) <sup>74</sup>	24 h F followed by 24 h RT (total 48 h) <sup>75</sup>  **(PFL) <sup>75</sup>	- do <b>NOT</b> mix with calcium containing solution (e.g., Ringer's) <sup>75</sup>
<b>Pamidronate</b> 30 mg/10 mL 60 mg/10 mL 90 mg/10 mL (Fresenius Kabi) (RT) no preservative <sup>76</sup>	N/A <sup>76</sup>	3 mg/mL 6 mg/mL 9 mg/mL <sup>76</sup>	discard unused portion <sup>76</sup>	<b>NS</b> ; D5W <sup>76</sup>  Less than or equal to 0.36 mg/mL <sup>76</sup>	24 h RT <sup>76</sup>	- do <b>NOT</b> mix with calcium containing solutions <sup>76</sup>
<b>Pamidronate</b> 30 mg/10 mL 60mg/10 mL 90 mg/10 mL (Sandoz Canada) RT no preservative <sup>77</sup>	N/A <sup>77</sup>	3 mg/mL 6 mg/mL 9 mg/mL <sup>77</sup>	discard unused portion <sup>77,28</sup>	<b>NS</b> ; D5W <sup>77</sup>	24 h RT <sup>77</sup>	- do <b>NOT</b> mix with calcium containing solution (e.g., Ringer's) <sup>77</sup>



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<b>PANitumumab</b> 100 mg/5 mL 400 mg/20 mL (Amgen) (F)(PFL) do not shake no preservative <sup>78</sup>	N/A	20 mg/mL <sup>78</sup>	discard unused portion <sup>78</sup>	Less than or equal to 1000 mg: 100 mL NS <sup>78</sup>  Greater than 1000mg: 150 mL NS <sup>78</sup>  1-10mg/mL <sup>78,79</sup>	24 h F, 6 h RT <sup>78,79</sup>	- administer with 0.2 or 0.22 micron low protein binding in-line filter <sup>78</sup> - solution may contain particulates which do not affect product quality <sup>78</sup> - do not administer if discoloured <sup>78</sup>
<b>pegaspargase</b> (PEG-asparaginase) (pegylated asparaginase E. coli) 3750 units/5 mL (Baxalta) (F)(PFL) no preservative <sup>80</sup>	N/A	750 units/mL <sup>80</sup>	discard unused portion <sup>80</sup>	IM: max volume: 2 mL in children and adolescents; 3 mL in adults  if volume greater than above, use multiple sites <sup>80</sup>	syringe: discard at end of day <sup>2,80</sup>	- discard cloudy solution <sup>80</sup> - do not shake <sup>80</sup> - do not use if stored out of refrigerator for greater than 48 h <sup>81</sup> - do not use if previously frozen <sup>81</sup>

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				IV: 100 mL <b>NS</b> , D5W <sup>80</sup>	bag: complete administration within 48 h F <sup>81</sup>  protect bag from direct sunlight during infusion <sup>81</sup>	
<b>Pembrolizumab</b> 100 mg/4 mL (Merck) (F)(PFL) do not shake no preservatives <sup>82</sup>	N/A	25 mg/mL <sup>82</sup>	discard unused portion <sup>2,82</sup>	1-10 mg/mL <b>NS</b> , D5W <sup>82</sup>  mix by gentle inversion <sup>82</sup>	complete administration within 6 h RT, 24 h F <sup>82</sup>	- use a 0.2 to 5 micron in-line filter <sup>82</sup> - allow vials and diluted solutions to come to RT prior to use <sup>82</sup> - vials contain 0.25 mL overfill <sup>82</sup>

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	Reconstitute With:	To Give:	Vial Stability	Product	Product Stability	Special Precautions/Notes
<b>Pembrolizumab</b> 50 mg (Merck) (F) no preservative <sup>82</sup>	2.3 mL SWI <sup>82</sup>  direct diluent against side of vial during reconstitution to avoid foaming <sup>82</sup>  allow up to 5 minutes for bubbles to clear <sup>82</sup>  do NOT shake <sup>82</sup>	25 mg/mL <sup>82</sup>	6 h RT, 24 h F <sup>82</sup>	1-10 mg/mL NS, D5W <sup>82</sup>  mix by gentle inversion <sup>82</sup>	complete administration within 6 h RT, 24 h F <sup>82</sup>	- use 0.2 to 5 micron in-line filter <sup>83</sup> - allow reconstituted vials and diluted solutions to come to RT prior to use <sup>82</sup> - vials can be at RT for up to 24 h prior to use <sup>82</sup> - vials contain 20% overfill <sup>82</sup>
<b>Pemetrexed</b> 100 mg 500 mg (Eli Lilly) (RT) no preservative <sup>84</sup>	100 mg: 4.2 mL preservative-free NS  500 mg: 20 mL preservative-free NS <sup>84</sup>	25 mg/mL <sup>84</sup>	24 h F, RT <sup>84</sup>	100 mL preservative-free NS <sup>84</sup>	24 h F, RT <sup>84</sup>	- do NOT mix with calcium containing solution (e.g., Ringer's) <sup>85</sup>
<b>PERTuzumab</b> 420 mg/14 mL (Roche) (F)(PFL) no preservative <sup>86</sup>	N/A	30 mg/mL <sup>86</sup>  do NOT shake <sup>86</sup>	discard unused portion <sup>2,86</sup>	250 mL NS only <sup>86</sup>  mix by gentle inversion to avoid foaming <sup>86</sup>	24 h F, RT <sup>86</sup>	- do NOT use dextrose containing solutions <sup>86</sup>

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<b>Plerixafor</b> 24 mg/1.2 mL (sanofi-aventis) (RT) no preservative <sup>87</sup>	N/A	20 mg/mL <sup>87</sup>	discard unused portion <sup>87</sup>	SC syringe <sup>87</sup>	48 hours RT <sup>28,88</sup>	
<b>Porfimer</b> 15 mg 75 mg (Axcan) (RT)(PFL) no preservative <sup>89</sup>	15 mg: 6.6 mL D5W  75 mg: 31.8 mL D5W <sup>89</sup>  record time of reconstitution	2.5 mg/mL <sup>89</sup>	24 h F  **(PFL) <sup>89</sup>	syringe <sup>89</sup>	use within 4 h of initial reconstitution <sup>7,90</sup>  **(PFL) <sup>89</sup>	- avoid contact with skin and eyes; protect exposed area from light <sup>89</sup>
<b>Raltitrexed</b> 2 mg (Hospira) (F, RT)(PFL) no preservative <sup>91</sup>	4 mL SWI <sup>91</sup>	0.5 mg/mL <sup>91</sup>	24 h F, RT <sup>91</sup>	50–250 mL NS, D5W <sup>91</sup>	24 h F, RT <sup>91</sup>	
<b>Ramucirumab</b> 100 mg/10 mL 500 mg/50 mL (Eli Lilly) (F)(PFL) (do not shake) no preservative <sup>92</sup>	N/A	10 mg/mL <sup>92</sup>	discard unused portion <sup>92</sup>	250 mL* NS <sup>92</sup> (0.4 – 4 mg/mL) <sup>93</sup>  gently invert to mix <sup>92</sup>  do NOT shake <sup>92</sup>	4 h RT, 24 h F <sup>92</sup>	- use 0.22 micron filter <sup>92</sup> - flush line with NS following administration <sup>92</sup> - do NOT use dextrose containing solutions <sup>92</sup>

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<b>riTUXimab</b> 100 mg/10 mL 500 mg/50 mL (Roche) (F)(PFL) no preservative <sup>94</sup>	N/A	10 mg/mL <sup>94</sup>	discard unused portion <sup>94</sup>	1-4 mg/mL <b>NS</b> , D5W <sup>94</sup>  (e.g., 250-500 mL)*	24 h <b>F</b> , 12 h RT <sup>95,96</sup>	- once removed from the fridge, compounded product is stable for 12h RT <sup>95,96</sup>
<b>riTUXimab subcutaneous</b> 1400 mg/11.7 mL (Roche) (F)(PFL) no preservative <sup>97</sup>	N/A	120 mg/mL <sup>97</sup>	discard unused portion <sup>97</sup>	SC syringe <sup>97</sup>	48 h <b>F</b> plus 8 h RT <sup>97</sup>	- contains hyaluronidase <sup>97</sup>
<b>romiDEPsin</b> 10 mg (Celgene Inc.) (RT) <sup>98</sup> no preservative <sup>2</sup>	2.2 mL of supplied diluent <sup>98,99</sup>  swirl gently to mix <sup>98</sup>	5 mg/mL <sup>98</sup>	8 h RT <sup>98</sup>	500 mL NS <sup>98</sup>	24 h RT <sup>98</sup>	- reconstituted solution will be slightly viscous <sup>100</sup> - vials contain overflow to allow for full drug recovery (drug vial contains 11 mg romidepsin; diluent vial contains 2.4 mL diluent) <sup>98</sup>

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<b>Siltuximab</b> 100 mg 400 mg (Janssen) (F)(PFL) no preservative <sup>101</sup>	100 mg: 5.2 mL SWI <sup>101</sup>  400 mg: 20 mL SWI <sup>101</sup>  allow vial to come to room temperature prior to use (~30 minutes) <sup>101</sup>  gently swirl, do not shake <sup>101</sup>	20 mg/mL <sup>101</sup>	2 h RT <sup>101</sup>	250 mL D5W <sup>101</sup>  dilute to 250 mL final volume by withdrawing volume from bag equal to volume of drug to be added <sup>101</sup>	complete administration within 6 h RT <sup>101</sup>	- use 0.2 micron in- line filter <sup>101</sup>
<b>Streptozocin</b> 1g (Pfizer) (F)(PFL) no preservative <sup>102</sup>	9.5mL <b>NS</b> , SWI, D5W <sup>102</sup>	100 mg/mL <sup>102</sup>	48 h F, <sup>102</sup> 24 h RT	syringe <sup>102</sup>	48 h F, 24 h RT <sup>102</sup>	
				50-500 mL* <b>NS</b> , D5W, SWI <sup>102</sup>	48 h F, 24 h RT <sup>102</sup>	
<b>Temsirolimus</b> 30 mg/1.2 mL (Wyeth) (F)(PFL) <sup>103,104</sup> no preservative <sup>105</sup>	1.8 mL supplied diluent <sup>103,104</sup>	10 mg/mL <sup>103,104</sup>	24 h RT <sup>103,104</sup>  ** (PFL) <sup>103</sup>	250 mL NS <sup>103,104</sup>	complete administration within 6 h <sup>103,104</sup>	- use non-DEHP bag and tubing with in-line filter <sup>103,104</sup>

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<b>Teniposide</b> 50 mg/5 mL (BMS) (RT) preservative <sup>106</sup>	N/A	10 mg/mL <sup>106</sup>	discard unused portion	50 – 500 mL <b>NS</b> or D5W for a final concentration of 0.1-1 mg/mL <sup>106</sup>	0.1-0.4 mg/mL: 24 h RT <sup>106</sup>  1 mg/mL: complete administration within 4 h of preparation RT <sup>106,107</sup>	- do not refrigerate - use non-DEHP bag and tubing <sup>106</sup> - do not use if precipitates <sup>106,107</sup> - contains DMA*** - excessive agitation may cause precipitation <sup>106</sup>
<b>Thiotepa</b> 15 mg (Bedford) (F)(PFL) no preservative <sup>108</sup>	1.5 mL SWI <sup>108</sup>  filter through 0.22 micron filter <sup>108</sup>  record time of reconstitution	10 mg/mL <sup>108</sup>	8 h F <sup>108</sup>	50 mL * NS <sup>108</sup>  syringe: reconstituted solution is hypotonic and must be further diluted with NS prior to use <sup>108</sup> (final concentration of 0.5-1 mg/ml is nearly isotonic) <sup>111</sup>	use within 4 h of initial reconstitution <sup>108,109</sup>  **(PFL) <sup>108,110</sup>  use within 4 h of initial reconstitution <sup>108,109</sup>  **(PFL) <sup>108,110</sup>	- do not use if precipitates or remains opaque <sup>108</sup> - do not use for IT injection

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<b>Thiotepa IT injection</b> 15 mg (Bedford) (F)(PFL) no preservative <sup>108</sup>	diluents containing preservatives should <b>NOT</b> be used for intrathecal administration  1.5 mL SWI <sup>108</sup>  filter through 0.22 micron filter <sup>108</sup>  record time of reconstitution	10 mg/mL <sup>108</sup>	8 h F <sup>108</sup>	qs to 6 mL with preservative free NS <sup>112</sup>	use within 4 h of initial reconstitution <sup>108,109</sup>  **(PFL) <sup>108,110</sup>	- auxiliary label <sup>25</sup> : "IT" - label to include route in full (i.e., INTRATHECAL injection) attached to both syringe and outer ziplock bag <sup>25</sup> - do not use if precipitates or remains opaque <sup>108</sup>
<b>Thyrotropin alfa</b> 1.1 mg (Genzyme) (F)(PFL) no preservative <sup>113</sup>	1.2 mL SWI <sup>113</sup>  swirl contents <sup>113</sup>  do not shake	0.9 mg/mL <sup>113</sup>	24 h F <sup>113</sup>	syringe <sup>113</sup>	24 h F <sup>113</sup>	
<b>Topotecan</b> 4 mg (Hospira) (F)(PFL) no preservative <sup>114</sup>	N/A <sup>114</sup>	1 mg/mL <sup>114</sup>	discard unused portion <sup>115</sup>	0.02–0.5 mg/mL <sup>114</sup>  50-100 mL <b>NS</b> , D5W <sup>115</sup>	24 h F, RT <sup>114</sup>	



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<b>Topotecan</b> 4 mg (Mylan) (RT)(PFL) no preservative <sup>116</sup>	4 mL SWI <sup>116</sup>	1 mg/mL <sup>116</sup>	24 h F, RT <sup>116</sup>	0.02 – 0.5 mg/mL <sup>116</sup>  50-100 mL NS, D5W <sup>116</sup>	24 h F, RT <sup>116</sup>	
<b>Topotecan</b> 4 mg/4 mL (Sandoz) (F)(PFL) no preservative <sup>117</sup>	N/A	1 mg/mL <sup>117</sup>	discard unused portion <sup>117</sup>	0.02-0.5 mg/mL  50-100 mL NS, D5W <sup>117</sup>	24 h F <sup>117</sup>  **(PFL) <sup>117</sup>	
<b>Trastuzumab (HERCEPTIN®)</b> 440 mg (Roche) (F) preservative <sup>118</sup>	20 mL supplied BWI <sup>118</sup>  swirl vial gently; allow to stand undisturbed for 5 min <sup>118</sup>	21 mg/mL <sup>118</sup>	14 d F <sup>2</sup>	250 mL NS only <sup>118</sup>  do NOT use dextrose containing solutions <sup>118</sup>	24 h F, RT <sup>118</sup>	- do NOT shake <sup>118</sup>

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<p><b>Trastuzumab Emtansine (KADCYLA®)</b> 100 mg 160 mg (Hoffmann-La Roche) (F)(PFL) no preservative<sup>119</sup></p>	<p>100 mg vial: 5 mL SWI<sup>119</sup></p> <p>160 mg vial: 8 mL SWI<sup>119</sup></p> <p>swirl gently until completely dissolved</p> <p>do NOT shake<sup>119</sup></p>	<p>20 mg/mL<sup>119</sup></p>	<p>24 h F<sup>119</sup></p> <p>do NOT freeze<sup>119</sup></p>	<p>250 mL NS or 0.45% sodium chloride<sup>119</sup></p> <p>do NOT shake<sup>119</sup></p>	<p>24 h F<sup>119</sup></p> <p>do NOT freeze<sup>119</sup></p>	<p>- do not use if reconstituted solution contains visible particulates or is cloudy or discolored<sup>119</sup></p> <p>- dextrose 5% solutions cause aggregation of the protein; do not dilute with dextrose containing solutions<sup>119</sup></p> <p>- use a 0.2 micron in-line filter or 0.22 micron polyethersulfane (PES) filter to administer infusions prepared in NS; filter is optional for solutions in 0.45% NS<sup>119</sup></p>

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<b>TRC105 (Carotuximab)</b> 100 mg/4 mL 200 mg/8 mL 400 mg/16 mL (Tracon) (F)(PFL) no preservative <sup>120</sup>	N/A	25 mg/mL <sup>120</sup>	discard unused portion <sup>2</sup>	0.6 – 10 mg/mL NS <sup>121</sup>  invert gently to mix	complete infusion within 8 h RT, 24 h F <sup>120,121</sup>	- use a 0.2 micron in-line filter for administration <sup>120</sup>

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<p><b>Treosulfan</b> 1 g 5 g (medac) (RT) no preservative<sup>122</sup></p>	<p><b>pre-heat</b> SWI to 30°C (not higher) <b>shake vial</b> carefully before adding the warmed SWI <b>1 g vial:</b> 20 mL SWI, while slightly shaking vial and syringe; continue shaking the reconstituted solution for another 2 min<sup>122</sup> <b>5 g vial:</b> 100 mL SWI, while slightly shaking vial and syringe; continue shaking the reconstituted solution for another 2 min<sup>122</sup></p>	<p>50 mg/mL<sup>122</sup></p>	<p>48 h RT<sup>7,122</sup></p>	<p>undiluted<sup>123</sup>  dilute with <b>NS</b> or D5W in empty infusion bag for final concentration = 20 mg/mL<sup>122</sup></p>	<p>48 h RT<sup>7,122</sup></p>	<p>- compatible with polytetrafluoroethylene filters<sup>122</sup> - may require vigorous shaking to reconstitute<sup>122</sup></p>

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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	Reconstitute With:	To Give:	Vial Stability	Product	Product Stability	Special Precautions/Notes
<b>vinBLASTine</b> 10 mg/10 mL (Hospira) (F)(PFL) no preservative <sup>124</sup>	N/A	1 mg/mL <sup>124</sup>	discard unused portion <sup>124</sup>	25-50 mL <b>NS</b> , D5W <sup>125</sup>	24 h <b>F</b> , RT <sup>126,127</sup>	- auxiliary label: WARNING: FOR INTRAVENOUS USE ONLY – FATAL IF GIVEN BY OTHER ROUTES <sup>128,129</sup>
<b>vinBLASTine</b> 10 mg/10 mL (Teva) (F)(PFL) no preservative <sup>130</sup>	N/A	1 mg/mL <sup>130</sup>	discard unused portion <sup>130</sup>	25-50 mL <b>NS</b> , D5W <sup>125,131</sup>	use within 4 h of initial puncture <sup>2</sup>	- auxiliary label: WARNING: FOR INTRAVENOUS USE ONLY – FATAL IF GIVEN BY OTHER ROUTES <sup>128,129</sup>

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<b>vinCRISTine</b> 2 mg/2 mL 5 mg/5 mL (Hospira) (F)(PFL) no preservative <sup>132</sup>	N/A	1 mg/mL <sup>132</sup>	8 h F, RT <sup>132</sup>	50 mL * NS, D5W <sup>132</sup>	24 h F, 6 h RT <sup>132</sup>  **(PFL) <sup>132</sup>	- auxiliary label: WARNING: FOR INTRAVENOUS USE ONLY – FATAL IF GIVEN BY OTHER ROUTES <sup>128,129</sup> - for ULYEPOCHR protocol, see entry for EPOCHR (3-in-1 solution containing etoposide, DOXOrubicin, vinCRISTine)

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<b>vinCRISStine</b> 1 mg/1 mL 2 mg/2 mL 5 mg/5 mL (Teva) (F)(PFL) no preservative <sup>133</sup>	N/A	1 mg/mL <sup>133</sup>	8 h F, RT <sup>133</sup>	0.01-0.1 mg/mL <b>NS</b> , D5W <sup>133</sup>  25-50 mL <b>NS</b> , D5W <sup>134</sup>	24 h F, RT <sup>133</sup>	- auxiliary label: WARNING: FOR INTRAVENOUS USE ONLY – FATAL IF GIVEN BY OTHER ROUTES <sup>128,129</sup> - for ULYEPOCHR protocol, see entry for EPOCHR (3-in-1 solution containing etoposide, DOXOrubicin, vinCRISStine)
<b>Vinorelbine</b> 10 mg/1 mL 50 mg/5mL (Fresenius Kabi) (F)(PFL) no preservative <sup>135</sup>	N/A	10 mg/mL <sup>135</sup>	discard unused portion <sup>135</sup>	0.5-2.0 mg/mL <sup>135</sup>  <b>NS</b> , D5W, ½NS, D5½NS, Ringer's, Ringer's Lactate <sup>135</sup>	24 h F, RT <sup>135</sup>	- auxiliary label: WARNING: FOR INTRAVENOUS USE ONLY – FATAL IF GIVEN BY OTHER ROUTES <sup>128,129</sup>

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<b>Vinorelbine</b> 10 mg/1 mL 50 mg/5 mL (Hospira) (F)(PFL) no preservative <sup>136</sup>	N/A	10 mg/mL <sup>136</sup>	discard unused portion <sup>136</sup>	0.5–2.0 mg/mL <sup>136</sup>  50 mL* <b>NS</b> , D5W, ½NS, D5½NS, Ringer's, Ringer's Lactate <sup>136</sup>	24 h <b>F</b> , RT <sup>136</sup>	- auxiliary label: WARNING: FOR INTRAVENOUS USE ONLY – FATAL IF GIVEN BY OTHER ROUTES <sup>128,129</sup>
<b>Vinorelbine</b> 10 mg/1 mL 50 mg/5 mL (Teva) (F)(PFL) no preservative <sup>137</sup>	N/A	10 mg/mL <sup>137</sup>	discard unused portion <sup>137</sup>	0.5–2.0 mg/mL <sup>137</sup>  50 mL* <b>NS</b> , D5W, ½NS, D5½NS, Ringer's, Ringer's Lactate <sup>137</sup>	24 h <b>F</b> , RT <sup>137</sup>	- auxiliary label: WARNING: FOR INTRAVENOUS USE ONLY – FATAL IF GIVEN BY OTHER ROUTES <sup>128,129</sup>



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DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	Reconstitute With:	To Give:	Vial Stability	Product	Product Stability	Special Precautions/Notes
<b>Zoledronic acid</b> 4 mg/5 mL (Dr Reddy's) (RT) no preservative <sup>138</sup>	N/A	0.8 mg/mL <sup>138</sup>	discard unused portion <sup>138</sup>	100 mL <b>NS</b> , D5W <sup>138</sup>	complete infusion within 24 h of preparation <sup>138</sup>  <b>Refrigerate</b> diluted product if not used immediately after preparation; bring to RT prior to administration <sup>138</sup>	- do <b>NOT</b> mix with calcium containing solutions <sup>138</sup>
<b>Zoledronic acid</b> (ZOMETA) 4 mg/ 5 mL (Novartis) (RT) no preservative <sup>139</sup>	N/A <sup>139</sup>	0.8 mg/ mL <sup>139</sup>	discard unused portion <sup>2</sup>	100 mL <b>NS</b> , D5W <sup>139</sup>	complete infusion within 24 h of preparation <sup>139</sup>  <b>Refrigerate</b> diluted product if not used immediately after preparation; bring to RT prior to administration <sup>139</sup>	- do <b>NOT</b> mix with calcium containing solutions <sup>139</sup>

**BC CANCER CHEMOTHERAPY PREPARATION AND STABILITY CHART**

DRUG & STRENGTH (Storage Prior to Use, Manufacturer, Preservative Status)	Reconstitute With:	To Give:	Vial Stability	Product	Product Stability	Special Precautions/Notes
<b>Zoledronic acid</b> 4 mg/5 mL (Sandoz) (RT) no preservative <sup>140</sup>	N/A	0.8 mg/mL <sup>140</sup>	discard unused portion <sup>140</sup>	100 ml <b>NS</b> , D5W <sup>140</sup>	complete infusion within 24 h of preparation <sup>140</sup>  Refrigerate diluted product if not used immediately after preparation; bring to RT prior to administration <sup>140</sup>	- do <b>NOT</b> mix with calcium- or other divalent cation- containing infusion solutions (e.g., Lactated Ringer's) <sup>140</sup>

\* Suggested volume based on usual dose range and any concentration range of stability data

\*\* 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 Under the Special Precautions/Notes column.

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

Centres are not to change the content locally but should forward suggestions to the Cancer Drug Manual staff.

**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>141,142</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.

"*overflow known*" is stated if the manufacturer states overflow 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.

## Abbreviations

BWI = bacteriostatic water for injection  
CIVI: ambulatory pump = Continuous Intravenous Infusion (e.g., elastomeric infusor)  
D5W = dextrose 5% in water  
DMA = N,N dimethylacetamide  
F = refrigerate  
Non-DEHP = not containing Di(2-ethylhexyl) phthalate (DEHP)  
NS = normal saline  
PFL = protect from light  
RT = room temperature  
SWI = sterile water for injection

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