

## CYTOTOXIC and NON-CYTOTOXIC HAZARDOUS MEDICATIONS<sup>1</sup>

| CYTOTOXIC HAZARDOUS MEDICATIONS |                             | NON-CYTOTOXIC HAZARDOUS MEDICATIONS                                  |                            |
|---------------------------------|-----------------------------|--|----------------------------|
| Altretamine                     | IDArubicin                  | Acitretin  | Iloprost                   |
| Amsacrine                       | Ifosfamide                  | Aldesleukin  | Imatinib <sup>3</sup>      |
| Arsenic                         | Irinotecan                  | Alitretinoin   | Interferons                |
| Asparaginase                    | Lenalidomide                | Anastrozole <sup>3</sup>   | ISOtretinoin               |
| azaCITIDine                     | Lomustine                   | Ambrisentan  | Leflunomide <sup>3</sup>   |
| azaTHIOprine <sup>3</sup>       | Mechlorethamine             | Bacillus Calmette Guerin <sup>2</sup><br>(bladder instillation only) | Letrozole <sup>3</sup>     |
| Bleomycin                       | Melphalan                   | Bexarotene   | Leuprolide                 |
| Bortezomib                      | Mercaptopurine              | Bicalutamide <sup>3</sup>  | Megestrol <sup>3</sup>     |
| Busulfan <sup>3</sup>           | Methotrexate                | Bosentan   | Methacholine               |
| Capecitabine <sup>3</sup>       | MitoMYcin                   | Buserelin  | MethylTESTOSTERone         |
| CARBOplatin                     | MitoXANtrone                | Cetorelix  | Mifepristone               |
| Carmustine                      | Nelarabine                  | Choriogonadotropin alfa  | Misoprostol                |
| Chlorambucil                    | Oxaliplatin                 | Cidofovir  | Mitotane                   |
| CISplatin                       | PACLitaxel                  | ClomiPHENE   | Mycophenolate mofetil      |
| Cladribine                      | Pegasparaginase             | Colchicine <sup>3</sup>  | Nafarelin                  |
| Clofarabine                     | PEMEtrexed                  | cycloSPORINE   | Nilutamide <sup>3</sup>    |
| Cyclophosphamide                | Pentostatin                 | Cyproterone  | Oxandrolone <sup>3</sup>   |
| Cytarabine                      | Procarbazine <sup>3</sup>   | Dienestrol   | Pentamidine (Aerosol only) |
| Dacarbazine                     | Raltitrexed                 | Dinoprostone <sup>3</sup>  | Podofilox                  |
| DACTINomycin                    | SORAFenib                   | Dutasteride  | Podophyllum resin          |
| DAUNOrubicin                    | Streptozocin                | Erlotinib <sup>3</sup>   | Raloxifene <sup>3</sup>    |
| Dexrazoxane                     | SUNItinib                   | Everolimus   | Ribavirin                  |
| DOCEtaxel                       | Temozolomide                | Exemestane <sup>3</sup>  | Sirolimus                  |
| DOXOrubicin                     | Temsirolimus                | Finasteride <sup>3</sup>   | Tacrolimus                 |
| Epirubicin                      | Teniposide                  | Fluoxymesterone <sup>3</sup>   | Tamoxifen <sup>3</sup>     |
| Estramustine                    | Thalidomide                 | Flutamide <sup>3</sup>   | Testosterone               |
| Etoposide                       | Thioguanine                 | Foscarnet  | Tretinoin                  |
| Floxuridine                     | Thiotepa                    | Fulvestrant  | Trifluridine               |
| Flucytosine                     | Topotecan                   | Ganirelix  | Triptorelin                |
| Fludarabine                     | ValGANciclovir <sup>3</sup> | Gefitinib <sup>3</sup>   |                            |
| Fluorouracil                    | Valrubicin                  | Goserelin  |                            |
| Ganciclovir                     | VinBLAStine                 |  |                            |
| Gemcitabine                     | VinCRIStine                 |  |                            |
| Gemtuzumab ozogamicin           | Vindesine                   |  |                            |
| Hydroxyurea <sup>3</sup>        | Vinorelbine                 |  |                            |

- The following groups of products are not listed on the WRHA Cytotoxic and Non-Cytotoxic Hazardous Medications list, but may require handling precautions for safe administration.
  - Salts, pegylated and liposomal drugs: only the parent compound is listed, handle all derivatives of a hazardous drug the same as the parent compound.
  - Radioactive pharmaceuticals: nuclear medicine has policies and procedure for safe handling of radioactive pharmaceuticals. These products are generally not handled by pharmacy.
  - Chemicals / raw powders: follow the MSDS for safe handling precautions.
- Bacillus Calmette Guerin (BCG), when used for bladder instillation, should be prepared following the instructions provided with the closed system reconstitution kit.
- "Dissolve and dose" may be considered as a method of oral administration when a liquid preparation is required.

**ACKNOWLEDGEMENT:** This list is adapted from the National Institute for Occupational Safety and Health (NIOSH) Health Alert, "Preventing Occupational Exposures to Antineoplastic and other Hazardous Drugs in Healthcare Settings" (September 2004, updated September 2010) for use in WRHA facilities and CancerCare Manitoba. The list is revised as new drugs are marketed or become available for use in clinical trials.

**Revised and Effective June 2012**

Prepared by WRHA Regional Pharmacy Program and Pharmacy Department, CancerCare Manitoba

For the most recent version of this drug list, go to [http://home.wrha.mb.ca/prog/pharmacy/drugs\\_safehandling.php](http://home.wrha.mb.ca/prog/pharmacy/drugs_safehandling.php)