

**MUSC Chemotherapy  
Standard Dilutions**

Drug	Concentration	Diluent	Infusion	Comments
Aldesleukin (Proleukin, IL-2)	< 18 MU/mL	D5W	15 minutes or CI	Dilute in 50 mL for IVPB; Dilute in 250
Alemtuzumab (Campath)	< 10 mg/mL	D5W or NS	2 hrs	Dilute in 100 mL; Stable for 24 hrs;
Amifostine (Ethyol)	5 - 40 mg/mL	NS	15 minutes	Give 30 minutes prior to cisplatin;
Arsenic Trioxide (Trisenox)	< 1 mg/mL	D5W or NS	1 - 2 hrs	Stable for 24 hrs at room temp & 48
Asparaginase (Elspar)	IV: 2000 units/mL;	D5W or NS	IVP or IM	Stable for 8 hrs.
Azacytidine (Vidaza)	25 mg/mL	SWI	SC	SC injections should be < 4 mg/mL; Stable for 1 hr at room temp & 8 hrs
Bevacizumab (Avastin)	< 4 mg/mL	NS	30 - 90 minutes	Dilute in 100 mL; Stable for 8 hrs.
Bleomycin (Blenoxane)	3 - 15 units/mL	D5W or NS	IVP, IM, or SC	Dilute IVP in 5-10 mL.
Bortezomib (Velcade)	1 mg/mL	NS	IVP	Stable for 8 hrs in glass & 3 hrs in
Busulfan	≥ 0.5 mg/mL	D5W or NS	2 hrs	Stable for 8 hrs in D5W & 12 hrs in
Carboplatin (Paraplatin)	1 - 4 mg/mL	D5W or NS	15 - 60 minutes	Stable for 8 hrs at room temp in NS &
Carmustine (BCNU)	0.2 - 1.4 mg/mL	D5W	1 - 2 hrs	Dissolved in alcohol; Dilute in 250 or 500 mL; Dispense in glass & protect
Cetuximab (Erbixub)	2 mg/mL	Do not dilute	1 - 2 hrs	Do not dilute doses; Draw up directly into a glass or PVC plastic evac
Cisplatin (Platinol)	0.1 - 0.5 mg/mL	NS	1 - 2 hours	Dilute doses ≤ 50 mg/m <sup>2</sup> in 250 mL & doses > 50 mg/m <sup>2</sup> in 500 mL; Do not
Cladribine (Leustatin)	0.01 - 0.02 mg/mL	NS	2 hrs or CI	Dilute in 500 mL.
Cyclophosphamide (Cytoxan)	0.1 - 6 mg/mL	D5W or NS	0.5 - 2 hrs	Dilute doses < 1500 mg in 250 mL & doses ≥ 1500 mg in 500-1000 mL;
Cytarabine (Cytosar)	0.5 - 5 mg/mL	D5W or NS	CI	Dilute doses 100 - 200 mg/m <sup>2</sup> in 500
High-Dose Cytarabine	≤ 12 mg/mL	D5W or NS	3 hrs	Dilute in 500 mL.
IT Cytarabine		PF NS	1 minute	Dilute in 5-10 mL.
Dacarbazine (DTIC)	0.2 - 1.7 mg/mL	D5W or NS	1 - 2 hrs	Dilute in 250 or 500 mL; Stable for 8 hrs at room temp; Protect from light.
Dactinomycin	< 0.01 mg/mL	D5W or NS	IVP	Vesicant; Protect from light.
Daunorubicin (Cerubidine)	5 mg/mL	D5W or NS	IVP	Vesicant.
Daunorubicin, Liposomal	1 mg/mL	D5W	30 - 60 minutes	Stable for 6 hrs.
Dexrazoxane (Zinecard)	1.3 - 5 mg/mL	D5W or NS	IVP	Give 30 minutes prior to doxorubicin;
Docetaxel (Taxotere)	0.3 - 0.9 mg/mL	D5W or NS	1 hr	Dispense in glass or non-PVC plastic;
Doxorubicin (Adriamycin)	IVP: 2 mg/mL; CI: ≥ 0.01 mg/mL	D5W or NS	IVP or CI	CI requires a central line (vesicant); Dilute CI doses in 250 mL; Protect
Doxorubicin, Liposomal (Doxil)	≤ 1 mg/mL	D5W	30 - 60 minutes	Dilute in 250 mL.
Epirubicin (Ellence)	2 mg/mL	D5W or NS	IVP	Vesicant.
Etoposide (VePesid)	0.2 - 0.4 mg/mL	D5W or NS	30 - 60 minutes	Stable for 96 hrs at 0.2 & 48 hrs at 0.4
Etoposide Phosphate	≥ 0.1 mg/mL	D5W or NS	10 - 60 minutes	Stability is not concentration-
Fludarabine (Fludara)	≤ 10 mg/mL	D5W or NS	30 minutes	Dilute in 100 mL.

Fluorouracil (Adrucil)	≤ 50 mg/mL	D5W or NS	IVP or CI	Do not refrigerate; Dilute CI doses in
Floxuridine	0.5 mg/mL	D5W or NS	CI intra-arterial	Intra-arterial infusion only.
Gemcitabine (Gemzar)	≥ 0.1 mg/mL	NS	30 minutes	Dilute in 100 or 250 mL.
Gemtuzumab (Myelotarg)	> 1 mg/mL	NS	2 hrs	Dilute in 100 mL; Stable for 8 hrs;
Idarubicin (Idamycin)	1 mg/mL	D5W	IVP	Vesicant.
Ifosfamide (Ifex)	0.6 - 20 mg/mL	D5W or NS	1 hr or CI	Must give with mesna; Stable mixed
Irinotecan (Camptosar)	0.12 - 1.1 mg/mL	D5W or NS	90 minutes	Dilute in 500 mL; Do not refrigerate
Leucovorin	≤ 5 mg/mL	D5W or NS	IVPB or CI	Dilute IVPB doses in 50 mL; Protect
Mechlorethamine (Nitrogen)	1 mg/mL	NS	IVP	Stable for 6 hrs; Vesicant.
Melphalan (Alkeran)	> 10 mg/mL	D5W	15 - 30 minutes	Dilute in 100 mL; Protect from light;
Mesna (Mesnex)	≤ 20 mg/mL	D5W or NS	15 minutes or CI	Dilute IVPB doses in 50 mL; Stable
Methotrexate	0.03 - 25 mg/mL	D5W or NS	IVP, IVPB, or CI	Dilute CI doses in 1000 mL.
High-Dose Methotrexate	0.03 - 25 mg/mL	D5W or NS	4 hrs or CI	Dilute in 1000 mL.
IT Methotrexate		PF NS	1 minute	Dilute in 5-10 mL.
Mitomycin C	0.5 mg/mL	NS	IVP	Stable for 12 hrs; Protect from light;
Mitomycin C for Interventional Radiology	1 mg/mL	NS	Intra-arterial	Total volume 20 mL; Stable for 12 hrs; Protect from light; Vesicant.
Mitoxantrone (Novantrone)	≤ 0.5 mg/mL	D5W or NS	15 - 30 minutes	Dilute in 50 or 100 mL; Vesicant.
Oxaliplatin (Eloxatin)	> 5 mg/mL	D5W	2 hrs	Dilute in 250 or 500 mL; Stable for 6 hrs at room temp & 24 hrs
Paclitaxel (Taxol)	0.3 - 1.2 mg/mL	D5W or NS	1 - 3 hrs or CI	Stable for 27 hrs; Dispense in glass &
Pemetrexed (Alimta)	> 25 mg/mL	NS	15 minutes	Dilute in 100 mL; Stable for 24 hrs.
Pentostatin (Nipent)	0.05 - 2 mg/mL	D5W or NS	30 minutes	Dilute in 50 or 100 mL.
Rituximab (Rituxan)	1 - 4 mg/mL	D5W or NS	2 - 6 hrs	Stable for 12 hrs at room temp & 24
Streptozocin (Zanosar)	2 mg/mL	D5W or NS	IVP	Vesicant.
Teniposide (Vumon)	0.1 - 2 mg/mL	NS	1 - 2 hrs	Stable for 6 hrs at 0.2 & 4 hrs at 0.5-2
Thiotepa (Thioplex)	1 - 5 mg/mL	NS	30 minutes or CI	CI is for transplant; For stability of 24
Topotecan (Hycamptin)	0.25 - 0.5 mg/mL	D5W or NS	30 minutes or CI	Dilute in 50 or 100 mL.
Trastuzumab (Herceptin)	< 20 mg/mL	NS	30 - 90 minutes	Dilute in 250 mL; Stable for 24 hrs.
Vinblastine (Velban)	1 mg/mL	D5W or NS	IVP	Vesicant.
Vincristine (Oncovin)	1 mg/mL	D5W or NS	IVP or CI	CI requires a central line (vesicant): Dilute CI doses in 250 mL; Stable
Vinorelbine (Navelbine)	0.5 - 3 mg/mL	D5W or NS	IVP	Vesicant.

**KEY**

D5W: 5% dextrose  
SC: subcutaneous  
SCT: stem cell trpt

NS: normal saline  
IM: intramuscular  
IT: intrathecal

PF: preservative-free  
IVPB: intravenous piggyback  
IVP: intravenous push  
CI: continuous infusion