

Problem Chemotherapy Drugs That Are Excreted at High Concentrations and Can Damage Humans at Ultra-Low Doses¹

Generic Name	Other Names	Excretion ²		Administered Dose ³		Est. Amount in Bodily Fluids
		Percent	Danger Period	Dose/Weight ⁴	Amount	
(Drug Package Inserts)						
Actinomycin D	Dactinomycin, Cosmenogen	30%	7 Days	≤ 50 ug/Kg	≤ 4 mg	≤ 1.2 mg
Bleomycin	Blenoxane	60-70%	1 Day	≤ 50 units (mg)/Kg	≤ 4000 mg	≤ 2800 mg
Carboplatin	Paraplatin	65-75%	1 Day	≤ 12 mg/Kg	≤ 960 mg	≤ 682 mg
Cisplatin	Platin	13-17%	1 Day	≤ 3.3 mg/Kg	≤ 264 mg	≤ 45 mg
Cyclophosphamide	Endoxan, Cytoxan, Neosar, Procytox, Revimmune	5-25%	1 Day	≤ 50 mg/Kg	≤ 4000 mg	≤ 1000 mg
Dacarbazine	DTIC, DTIC-Dome	40%	1 Day	≤ 4.5 mg/Kg	≤ 360 mg	≤ 144 mg
Daunorubicin HCl	Cerubidine	65%	3 Days	≤ 1.5 mg/Kg	≤ 120 mg	≤ 78 mg
Doxorubicin	Adriamycin, Rubex, Doxil, Caelyx, Myocet	45-55%	5 Days	≤ 2.5 mg/Kg	≤ 200 mg	≤ 110 mg
Epirubicin	Ellence, Pharmorubicin	55%	4 Days	≤ 40 mg/Kg	≤ 3200 mg	≤ 1760 mg
Etoposide	Eposin, Etopophos, Vepesid, VP-16	45%	5 Days	≤ 3.3 mg/Kg	≤ 264 mg	≤ 119 mg
Floxuridine	Fdur	20%	1 Day	≤ 0.6 mg/Kg	≤ 48 mg	≤ 9.6 mg
Fludarabine	Fludara	40-60%	1 Day	≤ 0.83 mg/Kg	≤ 66.4 mg	≤ 40 mg
Fluorouracil	5-FU, Adrucil, Carac, Efudix, Efudex, Fluoroplex	7-20%	1 Day	≤ 12 mg/Kg	≤ 960 mg	≤ 192 mg
Idarubicin	Zavedos, Idamycin	20%	8 Days	≤ 0.4 mg/Kg	≤ 32 mg	≤ 6.4 mg
Ifosfamide	Mitoxana, Ifex	12-18%	1 Day	≤ 40 mg/Kg	≤ 3200 mg	≤ 576 mg
Irinotecan	Camptosar, Campto	25-50%	2 Days	≤ 11.7 mg/Kg	≤ 936 mg	≤ 68 mg
Mitomycin	Mitosol	10%	1 Day	≤ 0.67 mg/Kg	≤ 53.6 mg	≤ 5.4 mg
Mitoxantrone		24%	5 Days	≤ 0.47 mg/Kg	≤ 37.6 mg	≤ 9.0 mg
Oxaliplatin	Eloxatin	35%	1 Day	≤ 2.8 mg/Kg	≤ 224 mg	≤ 121 mg
Methotrexate	Trexall, MTX, Amethopterin	80-90%	1 Day	≤ 15 mg/Kg	≤ 1200 mg	≤ 1080 mg
Temozolomide	Temodar	18%	7 Days	≤ 50 mg/Kg	≤ 4000 mg	≤ 72 mg
Topotecan	Hycamtin	70 -75%	9 Days	≤ 0.05 mg/Kg	≤ 4 mg	≤ 3 mg
Restricted use						
Arsenic trioxide	Trisenox	15%	1 Day	≤ 15 mg/Kg	≤ 1200 mg	≤ 180 mg
Clofarabine		49-60%	1 Day	≤ 1.7 mg/Kg	≤ 138 mg	≤ 83 mg
Melphalan	Alkeran	10-15%	1 Day	6 mg	6 mg	≤ 0.9 mg
Teniposide	Vumon	4-12%	5 Days	≤ 8.3 mg/Kg	≤ 666 mg	≤ 16 mg
Valrubicin	Valstar	99%	1 Day	800 mg	800 mg	≤ 792 mg

1. Information summarized from the Drug Package Inserts - information required by the FDA from pharmaceutical companies before each drug is approved for use in humans.

2. Estimated percent of drug dose that exits patient's body as parental drug or active metabolite as well as excretion period.

3. Doses will vary depending on disease and doctors' recommendations. See individual Drug Inserts for more details.

4. Where needed, converted from mg/m² to mg/Kg

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