

ANTINEOPLASTIC DRUG TOXICITIES AND SIDE EFFECTS

DRUG	Bone Marrow Depression	Mucositis	Skin	Cardiac	Pulmonary	Renal	Liver	Nausea and Vomiting	Alopecia	Neuropathy	Tissue Necrosis	Diarrhea	SIGNIFICANT OTHERS
Amsacrine	+ +	+	±	±			±	+	+		+		- ensure K ⁺ levels are within normal range to avoid arrhythmias - pain at injection and tumour sites
L-asparaginase	±					±	+	+					- anaphylaxis; CNS toxicities; fever and chills - bleeding; hyperglycemia; thrombotic episodes; pancreatitis
Bleomycin	±	++	++		++	±	±	+	+				- anaphylaxis (more prevalent in lymphoma patient) - radiation recall reaction - fever and chills
Carboplatin	+ +					+		+		±		+	- ototoxicity
Carmustine	+ +*		+		++	±	+	+ +			+ +	+	- pain at injection site
Cisplatin	+					++		+ +		+			- anaphylaxis - ototoxicity
Cyclophosphamide	+ +	+		±	+			+ +	++				- hemorrhagic cystitis - radiation recall reaction
Cytarabine	+ +	+	+		±		±	+ +	+	±		+	- conjunctivitis and CNS toxicities with "high dose" therapy (3 g/m ²) - flu-like syndrome

+ + Major toxicity

+ Less frequent or less severe

± Infrequent, mild or uncertain

* Delayed bone marrow depression

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Dacarbazine	+ +					+	+	+ +	±		+ +	+	- flu-like syndrome - radiation recall reaction - pain along injection site; phlebitis
Dactinomycin	+ +	+ +	+ +				±	+ +	+		+ +	+ +	- radiation recall reaction
Daunorubicin	+ +	+	+	+ +				+ +	+ +		+ +	+	- radiation recall reaction - red tint to urine that is NOT clinically significant
Doxorubicin	+ +	+	+	+ +				+ +	+ +		+ +	+	- radiation recall reaction - red tint to urine that is NOT clinically significant - conjunctivitis - erythematous flare along vein proximal to injection site
Epirubicin	+ +	+		+				+	+ +		+ +	+	- erythematous flare along vein proximal to injection site - radiation recall reaction - red tint to urine that is NOT clinically significant
Etoposide	+ +	+					±	+	+	±	+ +	+	- vascular phlebitis - hypersensitivity reactions
Fluorouracil	+ +	+ +	+	±				+	±	+	±	+	- conjunctivitis - radiation recall reaction
Mechlorethamine	+ +	+						+ +	±		+ +	+	- neurotoxicity with high doses - metallic taste
Melphalen	+ +	±	+		±			+				±	

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Methotrexate	+ +	+ +	+		+	+	+ +	+	±			+	- fever and chills - neurotoxicities with high dose or I.T. administration - conjunctivitis
Mithramycin	+ +		±			+	+ +	+ +			+ +		- neurotoxicities; phlebitis - hypokalemia, hypocalcemia
Mitomycin C	+ +*	+	±	+	+	+	±	±	+		+ +		- phlebitis
Mitoxantrone	+ +	±		+			±	+	+		+ +	±	- green tint to urine that is NOT clinically significant - erythematous flare along vein proximal to injection site
Teniposide	+ +	±		±		±	±	+	+		+ +	±	- hypersensitivity
Thiotepa	+ +	+	±		±			±	±			+	- pain at injection site - somnolence, seizures
Vinblastine	+ +	+	±		±			+	+	+	+ +		- hypersensitivity - pain at injection site
Vincristine	+	+			±			±	+	+ +	+ +		- constipation

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