

# Chemotherapeutic Agents

<b>NAME</b>	<b>SIDE EFFECTS</b>	<b>TEACHING POINTS</b>
Cisplatin (Platinol)	Peripheral neuropathy, decreased WBC, Nausea & vomiting, Mg & K wasting, Alopecia and ototoxicity.	Report any ringing in ears or new onset of decreased hearing, increase fluids, notify MD for temp >100.5 Assess for peripheral neuropathy
Cyclophosphamide (Cytosan)	Decreased WBC, RBC & platelets, Nausea & vomiting, SIADH, pulmonary Fibrosis and possible Hemorrhagic cystitis.	Increase fluids, notify MD for fever > 100.5 or signs of infection Or bleeding, take anti-emetics as prescribed, avoid crowds & teach patient good hand washing
Doxorubicin (Adriamycin)	Decreased WBC, RBC & platelets, cardiotoxicity, Nausea & vomiting, Diarrhea, stomatitis Alopecia & rash.	Avoid ASA, high risk for bleeding, good mouth care Increase fluids. Notify MD with ant SOB, chest pain or tackycardia.
Etoposide (VePesid, VP-16)	Decreased WBC, Nausea & vomiting, Possible alopecia	Increase fluids; avoid crowds & people with colds, illnesses. Take anti-emetic meds prn
Fluorouracil (5-FU, Efudex)	GI Toxicity: mucositis & diarrhea Dermatitis & Cutaneous toxicities Hand-foot syndrome	Increase fluids, call MD for temp >100.5, wear sunscreen & report and skin changes to MD, Perform good oral care
Ifosfamide (IFEX)	CNS toxicity: seizures, lethargy Decreased WBC	Increase fluid intake to 2 quarts of fluid a day, monitor for signs of infection, bleeding (esp. blood in urine)
Melphalan (Alkeran)	Decreased WBC, Alopecia	Call MD for fever > 100.5, signs of infection, SOB, or rash, avoid ASA, good oral care, increase fluids, assess for signs of bleeding

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Methotrexate (Folex)	Decreased WBC, sensitivity to sun Stomatitis, diarrhea.	Good oral care, avoid ASA & NSAIDs, use sunscreen, Increase fluids
Streptozocin (Zanosar)	N & V, cramping, Fluctuations in blood sugar, nephrotoxicity	Increase fluids, take nausea meds as prescribed, obtain labs as ordered by MD
Temozolomide (Temodar)	N & V, headache Fatigue, decreased WBC After 3 weeks of therapy	Assess if ICP vs. medication is the cause of symptoms.
Thalidomide (Thalomid)	Peripheral neuropathy Drowsiness, dizziness Mild constipation, Decrease WBC	Monitor BMs, avoid driving Assess for peripheral neuropathy & risk for falls secondary to dizziness
Topotecan Hydrochloride (Hycamtin)	Decrease WBC, RBC & Platelets, N & V Diarrhea, headache, fever, fatigue, anorexia	Avoid crowds & people with illnesses, obtain labs per MD Assess for signs of infection & Bleeding
Vinblastine (Velban)	Decrease WBC, Constipation, N & V Peripheral neuropathy	Increase fluids, monitor BMs Assess for peripheral neuropathy
Vincristine (Oncovin, Vincasar)	Peripheral neuropathy Constipation Jaw pain	Increase fluids, monitor BMs, assess for peripheral Neuropathy

## Biological Response Modifiers

<b>NAME</b>	<b>SIDE EFFECTS</b>	<b>TEACHING POINTS</b>
Filgrastim (Neupogen)	Bone pain, fever, myalgias Transient hypotension	Bone pain can be controlled with APAP
Interferon Alpha-2a Interferon Alpha 2b	Fever, chills, diarrhea, malaise Fatigue, anorexia Depression, anemia	Symptoms depend on dose, meds available to control symptoms
Octreotide (Sandostatin)	GI effects (diarrhea, abd pain bloating) sweating, vertigo	Take anti-diarrhea meds as prescribed.

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## **HORMONAL AGENTS**

Aminoglutethimide (cytadren)

Anastrole (arimidex)

Diethylstilbestrol (DES)

Estradiol (estrace)

Flutamine (eulexin)

Goserelin (zoladex)

Leuprolide acetate (leupron)

Tamoxifen (nolvadex)

Testolactone (teslac)