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CLASSIFICATION

- Alkylating agents: Nitrogen mustards, Nitrosoureas, Platinum coordination complexes

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- **BONE MARROW DEPRESSION**

- Granulocytopenia, agranulocytosis, thrombocytopenia, aplastic anaemia
- Dose limiting side effect
- Infections and bleeding are the usual complications

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- **Resistance to MTX due to**
 - Decreased drug transport
 - Increased levels of the target enzyme DHFR
 - Altered DHFR protein
 - **Therapeutic Uses:**
 - *As anticancer:* Breast cancer, head and neck cancer, osteogenic sarcoma, primary central nervous system lymphoma, non-Hodgkin's lymphoma, bladder cancer, Choriocarcinoma
 - *As immunomodulator:* Rheumatoid arthritis, psoriasis

ANTIBIOTICS

- *Bleomycin, Daunorubicin, Doxorubicin, Idarubicin, Mitomycin C*
- They act by,
 - Oxygen free radicals bind to DNA causing single- and double-strand DNA breaks
 - Inhibits topoisomerase II

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