

Pharmacology

Drugs Used to Treat
Cancer, Infectious Diseases and
Inflammation

Topics

- Oncolotic Agents
- Antibiotics
- Antifungals
- Antivirals
- Other Antimicrobials
- Antiparasitic Agents
 - Antihelminthics

- NSAIDs
- Serums, Vaccines & Other Immunologic Agents

Antineoplastics

- Chemotherapy targets rapidly reproducing tissue
- Many side effects!

Antimetabolites

- fluorouracil (Adrucil[®])

Mitotic Inhibitors

- vinblastine (Velban[®])
- vincristine (Oncovin[®])

Alkylating Agents

- cyclophosphamide (Cytosan[®])
- mechlorethamine (Mustargen[®])

Antibiotics

- Bactericidal vs. Baceteriostatic agents
- Inhibit cell wall synthesis
 - Penicillin, cephalosporins & vancomycin (Vancocin®)
- Inhibit protein synthesis
 - macrolides, aminoglycosides, tetracycline

Antifungals & Antivirals

- Inhibit fungal growth
 - Azole class
 - ketoconazole (Nizoral[®])
- Antivirals
 - acyclovir (Zovirax[®])
 - zidovudine (Retrovir[®])
- Protease Inhibitors
 - Indinavir (Crixivan[®])

Antiparastics & Antihelminthics

Malaria	chloroquine (Aralen [®]), mefloquine (Lariam [®]), quinine
Tuberculosis	isoniazid (Nydravid [®] , INH [®] , rifampin [®]) <i>HINT: learn to look for these!</i>
Amebiasis	paromomycin (Humatin [®]) metronidazole (Flagyl [®])
Helminthiasis	mebendazole (Vermox [®]) niclosamide (Niclocide [®])
Leprosy	dapsone (Avlosulfon [®]) clofazimine (Lamprene [®])

Uricosuric Drugs

- Treatment of Gout
- colchicine
- allopurinol (Zyloprim[®])

Thank You!

- To Temple College EMS Professions for permission to use their materials

