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 (Cytoxan®)
• 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®)
# Antipararstics & Antihelminthics

<table>
<thead>
<tr>
<th>Condition</th>
<th>Medications</th>
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</thead>
<tbody>
<tr>
<td>Malaria</td>
<td>chloroquine (Aralen®),</td>
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<tr>
<td></td>
<td>mefloquine (Lariam®), quinine</td>
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<tr>
<td>Tuberculosis</td>
<td>isoniazid (Nydrazid®, INH®, rifampin®)</td>
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<td></td>
<td><em>HINT: learn to look for these!</em></td>
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<tr>
<td>Amebiasis</td>
<td>paromomycin (Humatin®)</td>
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<tr>
<td></td>
<td>metronidazole (Flagyl®)</td>
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<tr>
<td>Helminthiasis</td>
<td>mebendazole (Vermox®)</td>
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<td>niclosamide (Niclocide®)</td>
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<tr>
<td>Leprosy</td>
<td>dapsone (Avlosulfon®)</td>
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<td></td>
<td>clofazimine (Lamprene®)</td>
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</tbody>
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Uricosuric Drugs

- Treatment of Gout
- colchicine
- allopurinol (Zyloprim®)
Thank You!

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