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 Principles of Pharmacology  
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| <b>Generic Name (Brand Name):</b> trimethoprim/sulfamethoxazole (bactrim)   |  |
| <b>Classification:</b>  | <b>Indications:</b>  |
| Antibiotics/Sulfonamides  | <ul style="list-style-type: none"> <li>- Chronic Bronchitis</li> <li>- Bacterial meningitis</li> <li>- Pneumocystis jiroveci pneumonia (PCP)</li> <li>- Sepsis</li> <li>- UTI</li> </ul>   |
| <b>Side Effects/Adverse Reactions:</b>  | <b>Nursing Considerations:</b>   |
| <ul style="list-style-type: none"> <li>- N/V</li> <li>- Loss of appetite</li> <li>- Skin rash</li> <li>- Sore throat</li> <li>- Cough</li> <li>- Dry mouth</li> </ul> | <ul style="list-style-type: none"> <li>- Monitor for possible HYPONATREMIA</li> <li>- Monitor for hypersensitivity</li> <li>- Ensure renal function is adequate before administering</li> <li>- Contraindicated with MEGALOBLASTIC or FOLATE deficiency anemia</li> <li>- Ensure good liver function</li> <li>- Monitor closely for acute or delayed lung injury</li> <li>- Monitor for bone marrow suppression with elderly adults</li> <li>- Monitor for C Diff related diarrhea</li> <li>- **Risk for superinfection</li> </ul> |

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| <b>Generic Name (Brand Name):</b> vancomycin (vancocin) |  |
| <b>Classification:</b>                                  | <b>Indications:</b>  |
| Glycopeptides   | <ul style="list-style-type: none"> <li>- Colitis           <ul style="list-style-type: none"> <li>- C.diff</li> <li>- S. enterocolitis</li> </ul> </li> <li>- **Any bacterial infection in the intestines, will not work for any other part of the body</li> </ul> |

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| <b>Side Effects/Adverse Reactions:</b>   | <b>Nursing Considerations:</b>  |
| <ul style="list-style-type: none"> <li>- Diarrhea</li> <li>- N/V</li> <li>- Fever</li> <li>- Chills</li> <li>- Abdominal pain</li> <li>- Hypotension with flushing</li> <li>- High levels of WBC (eosinophilia)</li> <li>- UTI</li> <li>- Back pain</li> </ul> | <ul style="list-style-type: none"> <li>- Monitor for ototoxicity</li> <li>- Monitor IV site for infiltration/extravasation</li> <li>- Monitor BP <ul style="list-style-type: none"> <li>- Educate patient on orthostatic hypotension</li> <li>- Risk for fall</li> </ul> </li> <li>- Regular CBCs to monitor lab values</li> <li>- Assess pain with GU</li> <li>- Monitor for any kidney impairment</li> <li>- Risk for SUPERINFECTION</li> </ul> |

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| <b>Generic Name (Brand Name):</b> gentamicin (Garamycin)  |  |
| <b>Classification:</b>  | <b>Indications:</b>  |
| Aminoglycoside antibiotics  | <ul style="list-style-type: none"> <li>- Bacteraemia</li> <li>- UTI</li> <li>- Chest infections</li> <li>- Severe neonatal infections</li> <li>- Systemic infections</li> </ul>  |
| <b>Side Effects/Adverse Reactions:</b>  | <b>Nursing Considerations:</b>   |
| <ul style="list-style-type: none"> <li>- Neurotoxicity, vertigo</li> <li>- Gait instability</li> <li>- Ototoxicity</li> <li>- Kidney damage</li> <li>- Edema</li> <li>- Rash</li> <li>- Abdominal pain</li> </ul> | <ul style="list-style-type: none"> <li>- Risk of ototoxicity, neurotoxicity, nephrotoxicity, monitor and assess for s/s</li> <li>- Narrow therapeutic index (not intended for long-term therapy), question if long term</li> <li>- Fall risk patient, educate patient</li> <li>- Pregnancy: given only in life threatening emergencies, positive evidence of human fetal risk</li> </ul> |

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| <b>Generic Name (Brand Name):</b> cefaclor (Ceclor) |  |
| <b>Classification:</b>                              | <b>Indications:</b>  |
| Cephalosporins                                      | <ul style="list-style-type: none"> <li>- Wide variety of bacterial infections <ul style="list-style-type: none"> <li>- Middle ear</li> </ul> </li> </ul> |

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|   | <ul style="list-style-type: none"> <li>- Skin</li> <li>- Urinary</li> <li>- Tonsils</li> <li>- E.Coli</li> <li>- Resp. tract <ul style="list-style-type: none"> <li>- Pneumonia</li> </ul> </li> </ul>  |
| <b>Side Effects/Adverse Reactions:</b>  | <b>Nursing Considerations:</b>  |
| <ul style="list-style-type: none"> <li>- Diarrhea</li> <li>- Increased WBC</li> <li>- Yeast infection</li> <li>- Vaginal infection</li> <li>- N/V</li> <li>- Anemia</li> <li>- Hypertension</li> <li>- Damage to liver</li> </ul> | <ul style="list-style-type: none"> <li>- Monitor for s/s of yeast and vaginal infections <ul style="list-style-type: none"> <li>- Ensure sterile technique with invasive procedures</li> </ul> </li> <li>- Add probiotics to diet, yogurt</li> <li>- Monitor lab values for WBC and platelets</li> <li>- Monitor liver function <ul style="list-style-type: none"> <li>- Jaundice</li> </ul> </li> <li>- Prevent risk for superinfection</li> </ul> |

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| <b>Generic Name (Brand Name):</b> ciprofloxacin (Cipro)   |   |
| <b>Classification:</b>  | <b>Indications:</b>   |
| Fluoroquinolones  | <ul style="list-style-type: none"> <li>- Pneumonia</li> <li>- Gonorrhea</li> <li>- Typhoid fever</li> <li>- Infectious diarrhea</li> <li>- Infections of the skin, bone, joint, abdomen, and prostate</li> <li>- Inhalation anthrax (bio warfare)</li> <li>- **bronchitis, sinus infections, or urinary tract infections, but not first line meds</li> <li>-</li> </ul> |
| <b>Side Effects/Adverse Reactions:</b>  | <b>Nursing Considerations:</b>  |
| <ul style="list-style-type: none"> <li>- NVD</li> <li>- Stomach pain</li> <li>- Heartburn</li> <li>- Vaginal itching/discharge</li> <li>- Unusual tiredness</li> <li>- Increase risk of tendinitis or tendon rupture during treatment and months afterward</li> </ul> | <ul style="list-style-type: none"> <li>- Wear protective clothing, sunglasses, sunscreen <ul style="list-style-type: none"> <li>- Increases sensitivity to UV light</li> </ul> </li> <li>- Do not drink caffeine containing products</li> <li>- Do not drive or handle machinery</li> <li>- Monitor s/s of peripheral neuropathy</li> </ul>                             |

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| - Peripheral neuropathy | - Toxicity<br>- Caution with physical exercise, especially with older adults due to increased risk of tendinitis |
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| <b>Generic Name (Brand Name):</b> amoxicillin (Amoxil)  |  |
| <b>Classification:</b>  | <b>Indications:</b>  |
| Penicillin  | <ul style="list-style-type: none"> <li>- Wide variety of bacterial infections <ul style="list-style-type: none"> <li>- Pneumonia</li> <li>- Bronchitis</li> <li>- Ear</li> <li>- Nose</li> <li>- Throat</li> <li>- Urinary tract</li> <li>- Skin</li> </ul> </li> <li>- H.Pylori, bacteria that causes ulcers</li> </ul>   |
| <b>Side Effects/Adverse Reactions:</b>  | <b>Nursing Considerations:</b>   |
| <ul style="list-style-type: none"> <li>- NVD</li> <li>- Changes in taste</li> <li>- Headache</li> </ul> | <ul style="list-style-type: none"> <li>- Pt. education that meds have to be taken around the same time</li> <li>- Length of treatment dependent on what type of infection <ul style="list-style-type: none"> <li>- Pt education on finishing meds</li> </ul> </li> <li>- Monitor for allergies <ul style="list-style-type: none"> <li>- Common penicillin allergy</li> </ul> </li> </ul> |

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| <b>Generic Name (Brand Name):</b> acyclovir (Zovirax)   |  |
| <b>Classification:</b>  | <b>Indications:</b>  |
| Synthetic nucleoside analogues <ul style="list-style-type: none"> <li>- Antiviral</li> </ul>  | <ul style="list-style-type: none"> <li>- Genital herpes</li> <li>- Cold sores</li> <li>- Shingles</li> <li>- Chicken pox</li> <li>- **eases symptoms, does not cure</li> </ul>                     |
| <b>Side Effects/Adverse Reactions:</b>  | <b>Nursing Considerations:</b>   |
| <ul style="list-style-type: none"> <li>- Feeling unwell (malaise)</li> <li>- NVD</li> <li>- Abdominal pain</li> <li>- Headache</li> </ul> | <ul style="list-style-type: none"> <li>- Monitor s/s of renal damage</li> <li>- Treatment has to begin within 24 hrs of rash appearance</li> <li>- Caution with other drug interactions</li> </ul> |

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| <ul style="list-style-type: none"> <li>- Anemia</li> <li>- Ataxia (loss of control over body movement)</li> </ul> | <ul style="list-style-type: none"> <li>that may be nephrotoxic</li> <li>- Maintain IV hydration</li> <li>- Reassess skin for therapeutic effect</li> </ul> |
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| <b>Generic Name (Brand Name):</b> azithromycin (zithromax)  |  |
| <b>Classification:</b>  | <b>Indications:</b>  |
| Macrolide   | <ul style="list-style-type: none"> <li>- Bacterial infections <ul style="list-style-type: none"> <li>- Bronchitis</li> <li>- Pneumonia</li> <li>- Sexually transmitted diseases (STD)</li> </ul> </li> <li>- Infections of the: <ul style="list-style-type: none"> <li>- Ears</li> <li>- Lungs</li> <li>- Sinuses</li> <li>- Skin</li> <li>- Throat</li> <li>- Reproductive organs</li> </ul> </li> <li>- Mycobacterium avium complex (MAC) infection <ul style="list-style-type: none"> <li>- Lung infections often associated with HIV patients</li> </ul> </li> </ul> |
| <b>Side Effects/Adverse Reactions:</b>  | <b>Nursing Considerations:</b>   |
| <ul style="list-style-type: none"> <li>- NVD</li> <li>- Stomach pain</li> <li>- Headache</li> <li>- Tachycardia / arrhythmia</li> <li>- Fever</li> <li>- Fatigue</li> </ul> | <ul style="list-style-type: none"> <li>- Monitor vitals for life threatening tachycardia/arrhythmia</li> <li>- Limit driving, operating heavy machinery with fatigue</li> <li>- Intervene to help NVD, headache</li> <li>- Reassess pain</li> </ul>  |

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| <b>Generic Name (Brand Name):</b> fluconazole (diflucan)                    |   |
| <b>Classification:</b>  | <b>Indications:</b>   |
| Triazoles – antifungal  | <ul style="list-style-type: none"> <li>- Vaginal yeast infection</li> <li>- Esophageal candidiasis</li> </ul>       |
| <b>Side Effects/Adverse Reactions:</b>                                      | <b>Nursing Considerations:</b>  |
| <ul style="list-style-type: none"> <li>- NVD</li> <li>- Headache</li> </ul> | <ul style="list-style-type: none"> <li>- Treatment administered for at least 2 weeks to decrease relapse</li> </ul> |

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| <ul style="list-style-type: none"> <li>- Abdominal pain</li> <li>- Rash</li> <li>- Dizziness</li> <li>- QT prolongation</li> <li>- Torsades de pointes</li> </ul> | <ul style="list-style-type: none"> <li>- Caution with pt that have heart condition</li> <li>- Avoid driving or operating machines due to dizziness</li> <li>- Monitor ECG/vital signs</li> <li>- Intervene for pain or NVD</li> <li>- Pt. education on adhering to medication</li> </ul> |
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| <b>Generic Name (Brand Name):</b> metronidazole (Flagyl)  |   |
| <b>Classification:</b>  | <b>Indications:</b>   |
| Nitroimidazoles   | <ul style="list-style-type: none"> <li>- Bacterial infections <ul style="list-style-type: none"> <li>- Vagina</li> <li>- Stomach</li> <li>- Liver</li> <li>- Skin</li> <li>- Joints</li> <li>- Brain</li> <li>- Resp. tract</li> </ul> </li> </ul>  |
| <b>Side Effects/Adverse Reactions:</b>  | <b>Nursing Considerations:</b>  |
| <ul style="list-style-type: none"> <li>- Diarrhea</li> <li>- Painful or difficulty urinating</li> <li>- Insomnia</li> <li>- Headache</li> <li>- Dizziness</li> <li>- Weakness</li> <li>- Lightheadedness</li> </ul> | <ul style="list-style-type: none"> <li>- Advise pt not to drink alcohol while taking medication and at least three days afterwards</li> <li>- Avoid driving or operating machines due to dizziness</li> <li>- Intervene for pain or NVD</li> <li>- Pt. education on adhering to medication</li> </ul> |