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 Principles of Pharmacology  
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<b>Generic Name (Brand Name): Cetirizine (Zyrtec)</b>	
<b>Classification:</b>	<b>Indications:</b>
Anti-histamines (OTC)	<ul style="list-style-type: none"> <li>- Seasonal allergies</li> <li>- Rhinitis</li> <li>- Urticaria (hives)</li> <li>- Allergic conjunctivitis</li> </ul>
<b>Side Effects/Adverse Reactions:</b>	<b>Nursing Considerations:</b>
<ul style="list-style-type: none"> <li>- **sleepiness/drowsiness</li> <li>- Headache</li> <li>- Fatigue</li> <li>- Dry mouth</li> <li>- Low BP</li> </ul>	<ul style="list-style-type: none"> <li>- Avoid use of alc/sedatives</li> <li>- Monitor RR</li> <li>- Pt education on avoiding driving/heavy machinery after taking medication</li> </ul>

<b>Generic Name (Brand Name): Montelukast (Singulair)</b>	
<b>Classification:</b>	<b>Indications:</b>
Leukotriene Receptor Antagonist	<ul style="list-style-type: none"> <li>- Prevention of wheezing/SOB caused by asthma</li> <li>- Mostly for prevention, decreased # of times for rescue inhaler</li> <li>- Allergic rhinitis</li> </ul>
<b>Side Effects/Adverse Reactions:</b>	<b>Nursing Considerations:</b>
<ul style="list-style-type: none"> <li>- Eczema</li> <li>- URI</li> <li>- Dental pain</li> <li>- General GI discomfort</li> <li>- Rash/hives</li> </ul>	<ul style="list-style-type: none"> <li>- Manage/treat possible URIs</li> <li>- Manage GI discomfort</li> <li>- Assess skin for possible rash/hives</li> <li>-</li> </ul>

<b>Generic Name (Brand Name): Fluticasone propionate (Flonase)</b>	
<b>Classification:</b>	<b>Indications:</b>
Corticosteroids	<ul style="list-style-type: none"> <li>- Relieve symptoms of rhinitis <ul style="list-style-type: none"> <li>- sneezing/runny, stuffy, itchy nose</li> </ul> </li> <li>- Allergies caused by pollen/mold/dust</li> </ul>
<b>Side Effects/Adverse Reactions:</b>	<b>Nursing Considerations:</b>
<ul style="list-style-type: none"> <li>- Dryness, stinging, burning, irritated nose</li> <li>- Headache</li> <li>- Nausea / vomiting</li> <li>- Bloody mucus in nose</li> </ul>	<ul style="list-style-type: none"> <li>- Administered through nose spray, careful not to swallow or to get in eyes</li> <li>- Assess if pt has recently had nose surgery, any nasal trauma</li> </ul>

<b>Generic Name (Brand Name): Ipratropium (Atrovent)</b>	
<b>Classification:</b>	<b>Indications:</b>
Anticholinergics	<ul style="list-style-type: none"> <li>- Runny nose caused by common cold, seasonal allergies</li> <li>- Reduces amount of fluid/mucus</li> <li>- Bronchodilator for maintenance treatment for bronchospasm</li> </ul>
<b>Side Effects/Adverse Reactions:</b>	<b>Nursing Considerations:</b>
<ul style="list-style-type: none"> <li>- Bronchitis</li> <li>- Dry mouth</li> <li>- Nausea / vomiting</li> <li>- Dizziness</li> <li>- Constipation</li> <li>- UTI</li> <li>- Urinary retention</li> </ul>	<ul style="list-style-type: none"> <li>- Assess for any hypersensitivity to atropine, soybeans, peanuts, acute bronchospasm</li> <li>- Teach patient proper use of inhaler</li> <li>- Ensure adequate hydration</li> <li>- Have pt void to avoid urinary retention</li> </ul>

<b>Generic Name (Brand Name): Diphenhydramine (Benadryl)</b>	
<b>Classification:</b>	<b>Indications:</b>
Antihistamines	<ul style="list-style-type: none"> <li>- Allergic reactions</li> <li>- Motion sickness</li> <li>- Insomnia</li> </ul>
<b>Side Effects/Adverse Reactions:</b>	<b>Nursing Considerations:</b>

<ul style="list-style-type: none"> <li>- Day-time drowsiness/general drowsiness</li> <li>- Dry mouth</li> <li>- Constipation</li> <li>- Dry eyes</li> </ul>	<ul style="list-style-type: none"> <li>- Avoid alcoholic drinks</li> <li>- Caution with sedatives and tranquilizers</li> <li>- Pt. education on driving a car/operating machinery</li> </ul>
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<b>Generic Name (Brand Name): Guaifenesin (Mucinex)</b>	
<b>Classification:</b>	<b>Indications:</b>
Expectorant <ul style="list-style-type: none"> <li>- Thinning and loosening of mucus</li> </ul>	<ul style="list-style-type: none"> <li>- Productive cough</li> <li>- Congestion by common cold/bronchitis</li> <li>- ** not for long-term/chronic</li> </ul>
<b>Side Effects/Adverse Reactions:</b>	<b>Nursing Considerations:</b>
<ul style="list-style-type: none"> <li>- Drowsiness</li> <li>- Dizziness</li> <li>- N/V</li> <li>- Headache</li> <li>- Stomach pain</li> <li>- **kidney stone formation</li> </ul>	<ul style="list-style-type: none"> <li>- OTC use, make sure Pt. educated on proper dose and administration <ul style="list-style-type: none"> <li>- Pt. education on notifying doctor if symptoms not relieved in a week</li> <li>- **avoid OTC masking serious underlying diseases</li> </ul> </li> <li>- Use in adjunct with humidifier, increased fluids</li> <li>- Monitor for painful urination, s/s of kidney stones</li> <li>- No driving or heavy machinery</li> </ul>

<b>Generic Name (Brand Name): Epinephrine (Epipen, adrenalin)</b>	
<b>Classification:</b>	<b>Indications:</b>
Alpha/Beta Agonists	<ul style="list-style-type: none"> <li>- Cardiac arrest</li> <li>- Hypotension associated with septic shock</li> <li>- Anaphylaxis</li> <li>- Symptomatic bradycardia</li> </ul>
<b>Side Effects/Adverse Reactions:</b>	<b>Nursing Considerations:</b>
<ul style="list-style-type: none"> <li>- breathing problems</li> <li>- fast or pounding heartbeats</li> </ul>	<ul style="list-style-type: none"> <li>- Double check when preparing the dosage for epinephrine</li> </ul>

<ul style="list-style-type: none"> <li>- pallor/diaphoresis</li> <li>- N/V</li> <li>- dizziness</li> <li>- feeling nervous, anxious, fearful</li> </ul>	<ul style="list-style-type: none"> <li>- Have vasodilator on hand in case of excessive hypertensive reaction</li> <li>- Maintain 1mg dose, and reassess, do not exceed recommended dosage</li> <li>- Reassess vital signs</li> <li>- Observe IV site</li> <li>- Manage possible side effects</li> </ul>
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<b>Generic Name (Brand Name): Albuterol sulfate (Proventil, ProAir HFA)</b>	
<b>Classification:</b>	<b>Indications:</b>
Bronchodilator	<ul style="list-style-type: none"> <li>- Wheezing, SOB, chest tightness, dyspnea, and coughing caused by asthma/COPD</li> </ul>
<b>Side Effects/Adverse Reactions:</b>	<b>Nursing Considerations:</b>
<ul style="list-style-type: none"> <li>- Tachycardia</li> <li>- Nervousness</li> <li>- Shakiness</li> <li>- Dizziness</li> <li>- Uncontrollable shaking</li> <li>- Muscle cramps</li> </ul>	<ul style="list-style-type: none"> <li>- Monitor vital signs, esp RR/O2 stat</li> <li>- Monitor the tachycardia, heart rhythm</li> <li>- Elevate HOB</li> <li>- Supplemental O2</li> <li>- Assess pt. History of any kind of arrhythmia/cardiovascular disease</li> <li>- Re-auscultate lung sounds</li> </ul>

<b>Generic Name (Brand Name): Terbutaline sulfate (Brethaire, Brethin)</b>	
<b>Classification:</b>	<b>Indications:</b>
Bronchodilator, beta-2 adrenergic agonist/extravasatin antidotes	<ul style="list-style-type: none"> <li>- Cough</li> <li>- Bronchospasm, associated with bronchitis/emphysema</li> </ul>
<b>Side Effects/Adverse Reactions:</b>	<b>Nursing Considerations:</b>
<ul style="list-style-type: none"> <li>- tremor,</li> <li>- nervousness,</li> <li>- dizziness,</li> <li>- headache,</li> <li>- drowsiness,</li> <li>- palpitation,</li> <li>- rapid heart rate,</li> <li>- shortness of breath,</li> <li>- chest discomfort,</li> </ul>	<ul style="list-style-type: none"> <li>- Subcutaneous administration</li> <li>- Pt. education on the side effects</li> <li>- O2 therapy PRN with SOB</li> <li>- Monitor vital signs <ul style="list-style-type: none"> <li>- BP/HR, any possible adverse effects from the palpitation/tachycardia, chest discomfort</li> </ul> </li> <li>- Reassess the chronic condition if doses aren't working</li> </ul>

<ul style="list-style-type: none"> <li>- nausea,</li> <li>- vomiting</li> </ul>	
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<b>Generic Name (Brand Name): Rifampin (Rifadin, Rimactane)</b>	
<b>Classification:</b>	<b>Indications:</b>
Antimycobacterial	<ul style="list-style-type: none"> <li>- TB</li> <li>- Meningococcal carrier</li> </ul>
<b>Side Effects/Adverse Reactions:</b>	<b>Nursing Considerations:</b>
<ul style="list-style-type: none"> <li>- red/orange fluids, discoloration</li> <li>- Heartburn</li> <li>- Jaundice</li> <li>- N/V/D</li> <li>- Elevated liver function test results</li> <li>- Elevated BUN</li> <li>- Dizziness</li> <li>- Deficiency of platelets in blood</li> </ul>	<ul style="list-style-type: none"> <li>- Severe interactions with a lot of drugs, seriously double check list of meds/OTC/herbal medication</li> <li>- May decrease effectiveness of oral contraceptives</li> <li>- Monitor liver and kidney function</li> <li>- Emphasis pt education on finishing medication</li> <li>- May cause superinfection if not taken seriously</li> <li>- Pt education on the discoloration of contact lenses</li> <li>- Blood lab tests to assess platelet levels</li> <li>- s/s of bleeding</li> <li>- Monitor i/o, electrolytes</li> <li>- Frequent cultures to reassess drug therapy</li> </ul>