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 Principles of Pharmacology  
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<b>Generic Name (Brand Name): Captopril (Capoten)</b>	
<b>Classification:</b>	<b>Indications:</b>
Angiotensin-converting enzyme (ACE) inhibitors <ul style="list-style-type: none"> <li>- Blocks conversion of angiotensin 1 to 2</li> <li>- Increases renin levels, decreases aldosterone levels</li> <li>- Systemic vasodilation</li> </ul>	<ul style="list-style-type: none"> <li>- Hypertension</li> <li>- Heart failure (prevention after MI)</li> <li>- Kidney disease caused by DM1</li> </ul>
<b>Side Effects/Adverse Reactions:</b>	<b>Nursing Considerations:</b>
<ul style="list-style-type: none"> <li>- dizziness/lightheadedness</li> <li>- salty/metallic taste</li> <li>- cough</li> <li>- fast heartbeat</li> <li>- fatigue</li> </ul>	<ul style="list-style-type: none"> <li>- DO NOT TAKE IF PREGNANT OR PLANNING TO BE PREGNANT               <ul style="list-style-type: none"> <li>- Category D</li> </ul> </li> <li>- Take about one hour before food</li> <li>- Contraindicated with valsartan/sacubitril               <ul style="list-style-type: none"> <li>- Diabetes &amp; taking aliskiren</li> </ul> </li> <li>- Risk of hyperkalemia if concurrent use with K supp or K sparing diuretics</li> <li>- Continuous monitor of cardiac</li> <li>- Continuous monitor of electrolytes</li> </ul>

<b>Generic Name (Brand Name): Losartan (Cozaar)</b>	
<b>Classification:</b>	<b>Indications:</b>
Angiotensin II receptor antagonists <ul style="list-style-type: none"> <li>- Blocks angiotensin II, results in systemic vasodilation</li> </ul>	<ul style="list-style-type: none"> <li>- Hypertension</li> <li>- Decrease risk of stroke               <ul style="list-style-type: none"> <li>- *not as effective with African Americans</li> </ul> </li> <li>- Kidney disease with DM2 + hypertension</li> <li>- CHF</li> </ul>
<b>Side Effects/Adverse Reactions:</b>	<b>Nursing Considerations:</b>

<ul style="list-style-type: none"> <li>- Dizziness</li> <li>- fatigue</li> <li>- Headache</li> <li>- Diarrhea</li> <li>- Heartburn</li> <li>- Nausea</li> <li>- hypoglycemia</li> </ul>	<ul style="list-style-type: none"> <li>- DO NOT TAKE IF PREGNANT OR PLANNING TO BE PREGNANT <ul style="list-style-type: none"> <li>- Category D</li> </ul> </li> <li>- Monitor s/s of hyperkalemia</li> <li>- Monitor for hypoglycemia</li> <li>- Maintain fluids, I&amp;O, daily weights</li> <li>- Monitor renal and liver function</li> </ul>
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<b>Generic Name (Brand Name): Diltiazem (Cardizem)</b>	
<b>Classification:</b>	<b>Indications:</b>
Calcium channel blockers <ul style="list-style-type: none"> <li>- Inhibits transport of calcium</li> <li>- Inhibition of excitation-contraction</li> <li>- Systemic vasodilation</li> </ul>	<ul style="list-style-type: none"> <li>- Hypertension</li> <li>- Supraventricular tachyarrhythmias</li> </ul>
<b>Side Effects/Adverse Reactions:</b>	<b>Nursing Considerations:</b>
<ul style="list-style-type: none"> <li>- Peripheral edema</li> <li>- Arrhythmia</li> <li>- Heart failure</li> <li>- Constipation</li> <li>- Diarrhea</li> <li>- Nausea</li> <li>- Stevens-Johnson syndrome</li> </ul>	<ul style="list-style-type: none"> <li>- Contraindicated if systolic &lt;90 mmhg</li> <li>- Recent MI/pulmonary congestion</li> <li>- Current use of rifampin</li> <li>- Lower dose with older pt.</li> <li>- Monitor i and o, daily weight</li> <li>- s/s of HF, peripheral edema, rales/crackles. Dyspnea, weight gain, JVD</li> <li>- Assess skin for rash</li> <li>- Monitor ECG</li> </ul>

<b>Generic Name (Brand Name): Nitroprusside (Nipride/Nitropress)</b>	
<b>Classification:</b>	<b>Indications:</b>
Vasodilator <ul style="list-style-type: none"> <li>- Peripheral vasodilation</li> </ul>	<ul style="list-style-type: none"> <li>- Hypertensive crisis</li> <li>- Reduce bleeding during surgery</li> <li>- Acute HF</li> <li>- Cardiogenic shock</li> </ul>
<b>Side Effects/Adverse Reactions:</b>	<b>Nursing Considerations:</b>
<ul style="list-style-type: none"> <li>- Dizziness</li> <li>- Headache</li> </ul>	<ul style="list-style-type: none"> <li>- Two RN signatures needed to verify that physician's order IV infusion rate</li> </ul>

<ul style="list-style-type: none"> <li>- Abdominal pain</li> <li>- Nausea</li> </ul>	<ul style="list-style-type: none"> <li>is safe</li> <li>- Monitor hr/bp/ekg during therapy</li> <li>- Watch for s/s of cyanide toxicity</li> </ul>
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<b>Generic Name (Brand Name): Atenolol (Tenormin)</b>	
<b>Classification:</b>	<b>Indications:</b>
Beta blocker <ul style="list-style-type: none"> <li>- Relaxing blood vessels</li> </ul>	<ul style="list-style-type: none"> <li>- Hypertension</li> <li>- Prevention of chest pain</li> <li>- Maintenance after MI</li> </ul> Sometimes used to <ul style="list-style-type: none"> <li>- Prevent migraines</li> <li>- Alc withdrawal</li> <li>- Irregular heartbeat</li> </ul>
<b>Side Effects/Adverse Reactions:</b>	<b>Nursing Considerations:</b>
<ul style="list-style-type: none"> <li>- Dizziness</li> <li>- Lightheadedness</li> <li>- fatigue</li> <li>- Nausea</li> <li>- diarrhea</li> </ul>	<ul style="list-style-type: none"> <li>- DO NOT TAKE IF PREGNANT OR PLANNING TO BE PREGNANT             <ul style="list-style-type: none"> <li>- Category D</li> </ul> </li> <li>- Assess bp before administering</li> <li>- Monitor hr/bp/ekg</li> <li>- Monitor s/s for allergies</li> </ul>

<b>Generic Name (Brand Name): Metoprolol (Lopressor, Toprol XL)</b>	
<b>Classification:</b>	<b>Indications:</b>
Beta blocker <ul style="list-style-type: none"> <li>- Relaxing blood vessels</li> </ul>	<ul style="list-style-type: none"> <li>- Hypertension</li> <li>- Severe chest pain</li> <li>- Increase survival/Prevention for MI</li> <li>- HF</li> </ul>
<b>Side Effects/Adverse Reactions:</b>	<b>Nursing Considerations:</b>
<ul style="list-style-type: none"> <li>- dizziness/lightheadedness</li> <li>- Fatigue</li> <li>- Nausea</li> <li>- Depression</li> <li>- Constipation</li> </ul>	<ul style="list-style-type: none"> <li>- Extended release pills can not be chewed/crushed</li> <li>- Assess bp before administering</li> <li>- Monitor hr/bp/ekg</li> <li>- Monitor s/s for allergies</li> </ul>

<b>Generic Name (Brand Name): Furosemide (Lasix)</b>	
<b>Classification:</b>	<b>Indications:</b>
Diuretics - "Water pills"	- Hypertension - Edema
<b>Side Effects/Adverse Reactions:</b>	<b>Nursing Considerations:</b>
- Frequent urinations - Blurred vision - Headache - Constipation - diarrhea	- Watch out if concurrent use with ACE inhibitors - Contraindication with kidney disease - Pt. education on sun exposure, furosemide may make skin sensitive - Pt. education on orthostatic hypotension - Increased K <sup>+</sup> in diet - Monitor I/O, daily weight - Continuous monitor of cardiac - Continuous monitor of electrolytes - Continuous monitor of liver/renal function - Give meds in the morning

<b>Generic Name (Brand Name): Norepinephrine (Levarterenol, Levophed)</b>	
<b>Classification:</b>	<b>Indications:</b>
Alpha/Beta Adrenergic Agonists - Vasoconstrictor	- Acute hypotensive state - Cardiac arrest - MI - Septic shock
<b>Side Effects/Adverse Reactions:</b>	<b>Nursing Considerations:</b>
- Hypertension - Arrhythmias - Nausea / vomiting - Tremor - Urinary retention	- Assess IV site for position extravasation - Continuous monitor of cardiac, BP/HR/ECG/apical pulse every couple of min - Defib/resuscitation cart on standby - Check and watch kidney function - Watch for rebound hypotension when discontinued

<b>Generic Name (Brand Name): Simvastatin (Flo Lipid, Zocor)</b>	
<b>Classification:</b>	<b>Indications:</b>
HMG-CoA reductase inhibitors (statins) <ul style="list-style-type: none"> <li>- Slows production of cholesterol to decrease amount of chol that might build up in the artery walls</li> </ul>	<ul style="list-style-type: none"> <li>- Reduce risk of MI/stroke</li> <li>- Reduces amount of LDL cholesterol in the blood <ul style="list-style-type: none"> <li>- familial heterozygous hypercholesterolemia</li> </ul> </li> </ul>
<b>Side Effects/Adverse Reactions:</b>	<b>Nursing Considerations:</b>
<ul style="list-style-type: none"> <li>- Constipation</li> <li>- Stomach pain</li> <li>- Nausea</li> <li>- Headache</li> <li>- Memory loss/forgetfulness</li> <li>- Confusion</li> <li>- Itchy/red skin</li> </ul>	<ul style="list-style-type: none"> <li>- DO NOT TAKE IF PREGNANT OR PLANNING TO BE PREGNANT <ul style="list-style-type: none"> <li>- Category X</li> </ul> </li> <li>- Taken on empty stomach</li> <li>- Monitor kidney/liver function</li> <li>- Contraindications with alcoholism/65 yrs+/Asian, specifically Chinese</li> <li>- Assess/reassess cholesterol with blood tests</li> </ul>

<b>Generic Name (Brand Name): Amlodipine (Katerzia, Norvasc)</b>	
<b>Classification:</b>	<b>Indications:</b>
Calcium channel blockers <ul style="list-style-type: none"> <li>- Inhibits transport of calcium</li> <li>- Inhibition of excitation-contraction</li> <li>- Systemic vasodilation</li> </ul>	<ul style="list-style-type: none"> <li>- Hypertension</li> <li>- Chest pain</li> <li>- CAD</li> </ul>
<b>Side Effects/Adverse Reactions:</b>	<b>Nursing Considerations:</b>
<ul style="list-style-type: none"> <li>- Swelling of extremities</li> <li>- Headache</li> <li>- Nausea</li> <li>- dizziness/lightheadedness</li> <li>- Fatigue</li> </ul>	<ul style="list-style-type: none"> <li>- Pregnancy: Category C</li> <li>- Monitor BP, cardiac rhythm, and output</li> <li>- Special caution if pt has CHF</li> <li>- Assess/document/reassess for peripheral edema</li> </ul>