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 Principles of Pharmacology
 5 February 2023

Generic Name (Brand Name): Ezetimibe (Zetia)	
Classification:	Indications:
Selective cholesterol absorption inhibitors <ul style="list-style-type: none"> - Inhibits absorption of cholesterol by the small intestine 	<ul style="list-style-type: none"> - High total cholesterol (hypercholesterolemia) - Used in adjunct with diet and exercise
Side Effects/Adverse Reactions:	Nursing Considerations:
<ul style="list-style-type: none"> - Dizziness - Fatigue - Diarrhea - Back pain - URI 	<ul style="list-style-type: none"> - Obtain baseline cholesterol and triglyceride levels before - Maintain low cholesterol diet - Pt. education to report unexplained muscle pain, weakness, or tenderness

Generic Name (Brand Name): Nitroglycerin (GoNitro, Minitran, Nitrostat)	
Classification:	Indications:
<ul style="list-style-type: none"> - Nitrates/Vasodilators 	<ul style="list-style-type: none"> - Prevention of chronic anginal attacks - Acute angina pectoris - Hypertension from surgery - HF after MI - Moderate to severe pain from chronic anal fissure
Side Effects/Adverse Reactions:	Nursing Considerations:
<ul style="list-style-type: none"> - Headache - Paresthesia - Dizziness - Hypotension - Bradycardia - Nausea/vomiting - Dyspnea 	<ul style="list-style-type: none"> - Should be diluted with D5W for injection, no more than 400mcg/ml - Titrate - Interaction with heparin - Contraindication with severe anemia, ortho HTN - Closely monitor vital signs, esp BP - Excessive hypotension - Pain management with headache

	<ul style="list-style-type: none"> - **stopping drug abruptly may cause coronary artery spasm - Pt education on ortho HTN
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Generic Name (Brand Name): Clopidogrel (Plavix)	
Classification:	Indications:
Platelet aggregation inhibitors	<ul style="list-style-type: none"> - Reduce rate of MI and stroke in pts with peripheral arterial disease or history of MI or stroke
Side Effects/Adverse Reactions:	Nursing Considerations:
<ul style="list-style-type: none"> - Fatal intracranial bleeding - Hemorrhage - Epistaxis - Thrombotic thrombocytopenic purpura - Bronchospasm - Angioedema - Anaphylaxis 	<ul style="list-style-type: none"> - Don't take with warfarin - Avoid grapefruit juice - Caution with pt. At risk for increased bleeding from trauma or surgery - Frequently assess for fatal adverse effects <ul style="list-style-type: none"> - Hemorrhage - Bronchospasm - Anaphylaxis - Pt. education on recognizing the signs <ul style="list-style-type: none"> - Unusual bleeding or excessive bleeding from brushing teeth

Generic Name (Brand Name): Atorvastatin (Lipitor)	
Classification:	Indications:
HMG-CoA reductase inhibitors	<ul style="list-style-type: none"> - CAD - Reduce risk of MI, stroke, angina, HF - Reduce risk of MI or stroke in pt. With type 2 diabetes - Adjunct to diet to reduce total cholesterol
Side Effects/Adverse Reactions:	Nursing Considerations:
<ul style="list-style-type: none"> - Insomnia - Stroke - Diarrhea - Nausea 	<ul style="list-style-type: none"> - Caution with pt with impaired hepatic function or heavy alcohol use - Contraindication with pregnant women

<ul style="list-style-type: none"> - DM - Muscle spasms - Rash 	<ul style="list-style-type: none"> - Low cholesterol diet before and during therapy - Assess for signs of myositis/myopathy <ul style="list-style-type: none"> - Unexplained muscle pain - Weakness - Dark urine - Fever
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Generic Name (Brand Name): Aspirin (Asaphen, asatab)	
Classification:	Indications:
Salicylates	<ul style="list-style-type: none"> - RA - Osteoarthritis - Inflammatory conditions - Mild pain/fever - Suspected acute MI - Acute ischemic stroke - CABG - Venous thromboembolism
Side Effects/Adverse Reactions:	Nursing Considerations:
<ul style="list-style-type: none"> - Hypotension - Dizziness - Lethargy - Cerebral edema - Arrhythmia - Bleeding - Leukopenia - Hyperkalemia - Metabolic acidosis 	<ul style="list-style-type: none"> - Interaction with ACE inhibitors, monitor BP - Interaction with anticoagulants, may increase likelihood for bleeding - Interaction with Beta blockers - Interaction with corticosteroids, watch for GI bleeds/ulceration - Interaction with diuretics - Interaction with ibuprofen or other NSAIDs - Monitor pt ABGs for possible metabolic acidosis - Always assess for possible bleeding - Monitor vitals for any arrhythmia - Assess for signs of hyperkalemia - Assess cardiac function

Generic Name (Brand Name): Heparin (Hep-Lock)	
Classification:	Indications:
Anticoagulant	<ul style="list-style-type: none"> - Thromboprophylaxis

	<ul style="list-style-type: none"> - To prevent clots breaking and traveling to heart or lungs - Deep vein thrombosis or pulmonary embolism, IV therapy - Low dose continuous for prevention of DVT and PE
Side Effects/Adverse Reactions:	Nursing Considerations:
<ul style="list-style-type: none"> - Bleeding/Hemorrhage - Heparin induced thrombocytopenia - Hyperkalemia - Skin irritation - Ulceration - Fever 	<ul style="list-style-type: none"> - Interactions with antihistamines, nitrates, nitroglycerin - Interactions with salicylates: increases the anticoagulant effect - Continuously monitor coagulation tests - Possibly patients who are vegan or religious practices where pork is prohibited, inform the pt that products are derived from beef lung/pork intestinal mucosa - Monitor signs of bleeding!!!!!! <ul style="list-style-type: none"> - Bruises, tarry stools, melena, nosebleeds, etc. - Continuously monitor electrolytes for hyperkalemia - Monitor platelet count - Monitor vital signs

Generic Name (Brand Name): Warfarin (Jantoven)	
Classification:	Indications:
Coumarin derivatives	<ul style="list-style-type: none"> - Prophylaxis and treatment of DVT/PE
Side Effects/Adverse Reactions:	Nursing Considerations:
<ul style="list-style-type: none"> - Diarrhea - Flatulence - Nausea - Vomiting - BLEEDING/HEMORRHAGE - Anaphylactic reactions 	<ul style="list-style-type: none"> - A lot of interactions with other drugs, make sure to get an accurate medical history/OTC drugs in order to prevent complications - Monitor for s/s of bleeding - Monitor INR testing in all patients, but more frequent with high risk for bleeding - Withhold drug if signs of fever/rash - Watch out for foods/vitamin with K+

	<p>that may interfere with anticoagulation</p> <ul style="list-style-type: none"> - Educate pt and family on s/s of bleeding - Use soft toothbrush
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Generic Name (Brand Name): Epoetin alfa aka. Erythropoietin (Epogen, Eprex, Procrit)	
Classification:	Indications:
Recombinant human erythropoietins	<ul style="list-style-type: none"> - Anemia caused by chronic renal disease - Anemia in patients infected with HIV - Anemia from chemotherapy - Pre-op in anemia pt who are having elective, noncardiac, nonvascular surgery
Side Effects/Adverse Reactions:	Nursing Considerations:
<ul style="list-style-type: none"> - Diarrhea - Nausea - Vomiting - Chills - Seizures - Edema - Cough - SOB 	<ul style="list-style-type: none"> - Don't shake the vial on administration - Pt with chronic renal disease have increased risk of death, adverse CV events - Evaluate pt iron status <ul style="list-style-type: none"> - Provide iron, vitamin b12, folic acid supplements - Monitor and evaluate BP before <ul style="list-style-type: none"> - Watch for HTN - Adjust diet to lower HTN - Monitor Hb levels twice weekly until stabilization, then once at least monthly - Monitor blood count - elevated hematocrit may be excessive clotting - Closely monitor neuro status for possible adverse effect of seizures - Increased risk of DVT, consider meds - Pt. teaching that pain or discomfort in limbs and pelvis // feelings of cold and sweating may occur after injection - Avoid driving in early stages of therapy – decrease risk of seizure - Keep monitoring BP

Generic Name (Brand Name): Ferrous sulfate (Slow FE, Fer-In-Sol, Feratab, Iron)	
Classification:	Indications:
Iron product/supplement	<ul style="list-style-type: none"> - Treating or preventing anemia - Pregnancy
Side Effects/Adverse Reactions:	Nursing Considerations:
<ul style="list-style-type: none"> - constipation - stomach pain - diarrhea - nausea - teeth staining 	<ul style="list-style-type: none"> - Manage symptoms of abdominal pain - Possibility of combo of laxative to manage GI issues - Continuous monitoring of GI output

Generic Name (Brand Name): Enoxaparin (lovenox)	
Classification:	Indications:
Low molecular weight heparins	<ul style="list-style-type: none"> - Prevent PE/DVT after hip/knee replacement <ul style="list-style-type: none"> - After abdominal surgery - Acute illness, increased risk due to immobility - Prevent ischemic complications of unstable angina - Acute ST segment elevation MI - Acute DVT without PE - Prevent PE/DVT in patients undergoing general surgery
Side Effects/Adverse Reactions:	Nursing Considerations:
<ul style="list-style-type: none"> - Bleeding/hemorrhage - Pain - Irritation - Angioedema - Anaphylaxis - Rash - Dyspnea - Nausea - Diarrhea 	<ul style="list-style-type: none"> - Monitor signs of bleeding!!!!!! <ul style="list-style-type: none"> - Bruises, tarry stools, melena, nosebleeds, etc. - Monitor platelet count - Monitor vital signs - Avoid OTC aspirin