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 Principles of Pharmacology
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Generic Name (Brand Name): hydrochlorizide (Microzide)	
Classification:	Indications:
Thiazide Diuretic	<ul style="list-style-type: none"> - HTN - Edema - HF
Side Effects/Adverse Reactions:	Nursing Considerations:
<ul style="list-style-type: none"> - Dizziness - Headache - N/V/D - Electrolyte imbalances - Dehydration - Hyperglycemia 	<ul style="list-style-type: none"> - Monitor BP regularly - Watch out for s/s of electrolyte imbalances <ul style="list-style-type: none"> - muscle weakness, cramping, or irregular heartbeat - Administer earlier in the day to prevent pt. Sleep - Monitor I and Os

Generic Name (Brand Name): spironolactone (Aldactone)	
Classification:	Indications:
Potassium Sparing Diuretic	<ul style="list-style-type: none"> - HTN - Edema - HF
Side Effects/Adverse Reactions:	Nursing Considerations:
<ul style="list-style-type: none"> - Dizziness - Headache - N/V/D - Hyperkalemia - Hyponatremia - Gynecomastia - Menstrual irregularities 	<ul style="list-style-type: none"> - Monitor potassium levels very closely - Monitor for any s/s of hyperkalemia <ul style="list-style-type: none"> - Muscle weakness - Irregular heartbeat - Educate patients on avoiding foods high in potassium - Monitor renal function in patients with renal impairment - Advise female patients on menstrual irregularities and breast enlargement

Generic Name (Brand Name): mannitol (Osmitol)	
Classification:	Indications:
Osmotic Diuretic	<ul style="list-style-type: none"> - Cerebral edema - Intracranial pressure - Elevated intraocular pressure - Kidney failure
Side Effects/Adverse Reactions:	Nursing Considerations:
<ul style="list-style-type: none"> - Dizziness - Headache - N/V/D - Electrolyte imbalances - Dehydration - Hypotension 	<ul style="list-style-type: none"> - Monitor fluid and electrolyte balance regularly, as mannitol can cause dehydration and electrolyte imbalances. - Administer with caution in patients with heart failure or renal impairment. - Monitor serum osmolality and urinary output to ensure adequate diuresis. - Administer through a filter to prevent particles from entering the circulation.

Generic Name (Brand Name): oxybutynin chloride (Ditropan)	
Classification:	Indications:
Anticholinergic	<ul style="list-style-type: none"> - Overactive bladder - Urinary incontinence
Side Effects/Adverse Reactions:	Nursing Considerations:
<ul style="list-style-type: none"> - Dry mouth - Constipation - Blurred vision - Dizziness - Drowsiness - Urinary retention - Tachycardia - Confusion 	<ul style="list-style-type: none"> - Monitor fluid intake and output - Advise patients to avoid alcohol and other medications that can cause drowsiness - Educate patients on good oral hygiene, can cause dry mouth and increase the risk of dental caries. - Advise patients to report any signs of urinary tract infection, such as burning or pain during urination. - Caution with elderly patients or those with glaucoma or GI obstruction

Generic Name (Brand Name): phenazopyridine (Pyridium)	
Classification:	Indications:
Urinary Analgesic	<ul style="list-style-type: none"> - Relief of pain, burning, or discomfort with UTI
Side Effects/Adverse Reactions:	Nursing Considerations:
<ul style="list-style-type: none"> - Orange/red urine - Headache - Dizziness - GI discomfort 	<ul style="list-style-type: none"> - Advise patients to take the medication with food to minimize stomach upset. - Instruct patients to avoid taking the medication for more than 2 days without consulting a healthcare provider - Advise patients with renal impairment to use caution - Encourage fluid intake

Generic Name (Brand Name): finasteride (Proscar)	
Classification:	Indications:
5-alpha Reductase Inhibitor	<ul style="list-style-type: none"> - Benign prostatic hyperplasia
Side Effects/Adverse Reactions:	Nursing Considerations:
<ul style="list-style-type: none"> - Decreased libido → ED - Decreased ejaculate volume - Breast tenderness - Depression 	<ul style="list-style-type: none"> - Monitor patients for signs of depression or suicidal ideation, as these have been reported in some patients taking finasteride - Educate patients on the potential risks of sexual dysfunction and decreased libido, as these can persist even after discontinuing the medication

Generic Name (Brand Name): fluoxetine (Prozac)	
Classification:	Indications:
Selective Serotonin Reuptake Inhibitor (SSRI)	<ul style="list-style-type: none"> - Depression - Anxiety - OCD - Bulimia nervosa
Side Effects/Adverse Reactions:	Nursing Considerations:

<ul style="list-style-type: none"> - N/V/D - Insomnia - Sexual dysfunction - Serotonin syndrome - Suicidal ideation - Hyponatremia 	<ul style="list-style-type: none"> - Monitor for serotonin syndrome - Education that medication may take couple of weeks to reach full effect - Monitor and report any signs of suicidal ideation or behavior - Monitor patients for signs of hyponatremia, especially in elderly patients and those taking diuretics
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Generic Name (Brand Name): amitriptyline (Elavil)	
Classification:	Indications:
Tricyclic Antidepressant	<ul style="list-style-type: none"> - Depression - Anxiety - Neuropathic pain
Side Effects/Adverse Reactions:	Nursing Considerations:
<ul style="list-style-type: none"> - Dry mouth - Constipation - Blurred vision - Dizziness - Drowsiness - Cardiac arrhythmias - Seizures - Serotonin syndrome 	<ul style="list-style-type: none"> - Monitor cardiac function in patients with a history of cardiac disease - Advise patients to avoid alcohol and other CNS depressants - Monitor patients for signs of serotonin syndrome - Monitor patients for signs of anticholinergic toxicity, such as urinary retention, constipation, and blurred vision

Generic Name (Brand Name): lithium (Eskalith)	
Classification:	Indications:
Mood Stabilizer	<ul style="list-style-type: none"> - Bipolar disorder - Manic episodes
Side Effects/Adverse Reactions:	Nursing Considerations:
<ul style="list-style-type: none"> - Hand tremors - Polyuria - Polydipsia - Renal dysfunction - Hypothyroidism - Lithium toxicity 	<ul style="list-style-type: none"> - Monitor serum lithium levels regularly, as lithium has a narrow therapeutic index - Advise patients to maintain adequate fluid and sodium intake to prevent dehydration and sodium depletion

	<ul style="list-style-type: none"> - Educate patients on the signs and symptoms of lithium toxicity, which can include nausea, vomiting, diarrhea, and confusion.
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Generic Name (Brand Name): haloperidol (Haldol)	
Classification:	Indications:
Antipsychotic	<ul style="list-style-type: none"> - Schizophrenia - Bipolar disorder - Severe agitation
Side Effects/Adverse Reactions:	Nursing Considerations:
<ul style="list-style-type: none"> - Extrapyramidal symptoms <ul style="list-style-type: none"> - Tremors - Rigidity - restlessness - Sedation - Dry mouth - Blurred vision - QT prolongation - Constipation - Urinary retention - Weight gain 	<ul style="list-style-type: none"> - Monitor patients for extrapyramidal symptoms, such as tremors, rigidity, and akathisia. - Educate patients on the potential for sedation and impaired cognitive function, especially when starting or changing the dose of the medication. - Advise patients to avoid alcohol and other CNS depressants - Monitor for respiratory depression