Drug	Use and dosage	Side effect	Teaching and labs	contraindication
Acetylsalicylic	Blocks pain impulse in	Increase PT, PTT. Reye's	Take with full glass of	Do not give children
acid(Aspirin)	CNS, antipyretic result	syndrome	water, milk for food to	under 12 because of risk
Antiplatelets Non	from vasodilatation of	(encephalopathy and	prevent stomach upset	of Reye syndrome,
opeoid analgesic	peripheral vessels,	fatty liver), GI bleed,	Do not crush enteric	children or teenagers
	inhibit platelets	tinnitus, liver	coated, given 30 min	with chicken pos or flu
Increase coagulations	aggregation. Treat TIA,	toxicity(dark urine, clay	prior to or 2 hrs after	like symptoms,
studies	Post MI, Stroke, angina	stool, itching, yellowing	meals. Therapeutic in 2	pregnancy in 3 rd
Decrease serum K		sclera and skin), visual	weeks, do not give	trimester, and decrease
		changes	children with flu-like	effect of ASA with
			symptoms or chickenpox	antacid, vit. K
			symptoms (Reye	deficiency
			syndrome)	
Activated charcoal	Treat poison and	Incorrect application say	Binding is irreversible so	In ingestion substance
(Actidose-Aqua)	overdose following oral	into the lungs, results in	cathartic such as sorbitol	that is acid an alkali or a
Given 1gm/kg of body	ingestion. It binds to	pulmonary aspiration	may be added as well. It	petroleum product.
weight	poison and prevent its	which can be fatal	interrupts enterohepatic	-
	absorption by the GI		circulation of some	Do not do gastric
Pre mixed with water	tract and it eliminate in		drugs/toxins and their	lavage on pt who
12.5-25 grams	the feces. Charcoal		metabolites. It allows	swallow caustic agent,
Charcoal does not	must be administered		certain drugs/toxins to be	convulsions are
change the stomach PH.	within 60 minutes of		drawn out of the blood	occurring, high
	ingestion. Ipecac-induce		and bind to charcoal in	viscosity petroleum
	emesis of stomach pups		the intestine a kind of "	products have been
	is also used. Charcoal		gut dialysis"	ingested, cardiac
	may be given once or			dysrhythmias are
	twice depending on the level of toxic			present, or there is emesis of blood
	level of toxic			
				Antidote supportive
				care and preventing
				aspiration are

Alteplase recombinant (Activase) Thrombolytic Streptokinase, urokinase given mostly in emergency situation.	Dissolve or break down clots to reestablish perfusion. Is indicated for clients at risk for developing thrombus with resultant ischemia such as MI, ischemic stroke, arterial thrombosis, DVT, pulmonary embolism an occlusion of catheter shunts.	Hemorrhage, N/V, hypotension cardiac dysrhythmias. Dose related is the highest problem	Give Amicor for overdose. Given also for excessive bleeding. From cardiac surgery, trauma abruption placenta thrombolytic agent antidote. Monitor VS changes, watch for signs of impending shock (). If bleeding is occurring stop treatment and notify doctor. Start on FFP and PRBC. Do not take NSAID and Aspirin because of enhanced bleeding.	implemented if gastric lavage is not to be performed Do not give during pregnancy, actively bleeding, recent Hx of CVA, Uncontrolled HTN, IM rout is contraindication when using thrombolytics.
Aluminum hydroxide (Amphogel) is Antacid	Neutralize gastric acid, antflatulent to alleviate symptoms of gas and bloating	Antacid increase gastric pH, decrease absorption of other drugs such as dig, antibiotic, iron supplement. Belching, constipation, flatulence, diarrhea gastric distention. Acid rebound if given too often. Toxicity cause dementia,	Given 2 hrs apart from other drugs where drug interaction may occur. Observe for signs and symptoms of altered phosphate levels; anorexia, muscle weakness and malaise. Increase fluid, exercise and fiber to prevent constipation.	In the presence of abd pain, N/V, diarrhea, severe renal dysfunction, fecal impaction, rectal bleeding, colostomy, illeostomy. Severe renal disease, dehydration hypercalcemia andhypercalciuria

Ampicillin (Ampicin) IV, PO, IM. Treat bacterial infection	Shigella, salmonella, Escherichia coli, haemophilus influenza, neisseria gonorrhea, neisseria meningitis, gram positive organism	Hypercalcemia, metabolic alkalosis, worsen HTN, heart failure from increase intake. Most common allergic reaction: Skin rash urticaria, purities, angioderma. Purities rash like measles is not a true allergic reaction but develops 7-10 days of therapy and may last for a few days after therapy. Most common side effects: GI, N/V, diarrhea epigastric distress abd pain colitis elevated liver enzymes, taste alteration, sore mouth dark/discolored/sore tongue. Toxicity: treat type 1 toxicity within 2-30 minutes it is fatal, N/V, urticaria, purities severed dyspnea, stridor, tachycardia, hypotension, red scaly skin	Do not give with fruit juice, milk or carbonated beverages because of poor absorption, monitor renal studies, liver enzymes and electrolyte due to hypokalemia. Take on empty stomach. May not necessary to stop treatment if mild diarrhea develops. Give yogurt or buttermilk to restore normal flora. Use absorbent antidarrheal agent	Not use in pt with exfoliated dermatitis, Loop diuretic may exacerbate hypokalemia and rash. K sparing diuretic may contribute to hyperkalemia
Atropine Sulfate.	Treat parkinson's	Dry mouth, constipation,	Monitor dosage of meds	Increase
(antichologenic) for	disease, use to increase	urinary retention or	carefully, even slight	antichologeneric effect
Parkinson.	heart rate.	hesitancy	overdose can lead to	with phenothiazine,

Systemmatic effect is more pronounced in infant and children with blue eyes and blond hair.	It decreases involuntary movement and rigidity in parkinsonism. Use for inflammation of the iris and uveal tract.	headache, dixxiness Adverse effect/toxicity Paralytic ileus. Assess mental status, Adverse effect when used for the eye Transient stinging, dry mouth, N/V, dry skin, bradycardia, slurred speech, weakness drowsiness, palpitation, tachy, increase IOP, photophonia, urinary hesitancy, heart prostration, decrease sweating	toxicity. Assess for constipation; increase fluids, bulk and exercise, assess bowel sound to rule out paralytic ileus, watch for urinary retention, avoid driving or other hazardous activities, drowsiness may occur. For the Eye Acute glaucoma can be precipitated by papillary dilation; if not recognized and treat, acute glaucoma can result in blindness. Wear dark sunglass and avoid bright light for photophobia, Monitor intraocular pressure and vision should be monitored over the course of the therapy.	antidepressant, MAO's amantidine. Contraindicated in pt with narrow angle glaucoma, myasthenia gravis, or GI obstruction should not use.
Beclomethasone diproprionate (Beclovent)) inhaled corticosteroid medication	Used in bronchial asthma, allergic rhinitis	SE: Pharyngeal irritation and sore throat, coughing, dry mouth, oral fungal infections, and sinusitis. Adverse effect/toxicity	Decrease dose if pt is on systematic corticosteroid., assess for impaired bone growth in children receiving inhaled corticosteroid	In children under 2. Clients with known allergy may adjust dose of antidiabetic agent secondary to potential for elevated blood

Anticholinergics Treat Parkinson and Extra pyramidal syndrome EPS	irregular movement related to Parkinson disease.	dizziness. Adverse effect /toxicity paralytic ileus	even slight overdose can led to toxicity. Nursing considerations: I&O's, protect pt form heatlh. Education: Avoid driving, or other hazardous activities; drowsiness may occur. Avoid cough OTC	myasthenia gravis, or GI obstruction should not use.
Chloradiazepoxide hydrochloride (Librium) CNS agent, sedation IM & tablet form class: Benzodiazepine sedative-hypnotic Capsules: 5 mg, 10 mg, 25 mg, Injection: 100- mg ampules	To relieve tension, anxiety, and to manage alcohol withdrawal	Adverse effect: respiratory distress, drousy, dizziness, lethargy, Peak 1-4 hours po, 15-30 min IM. Half life 5-30hr Nurse Monitor CBC and hepatic enzyme levels in prolonged therapy. • Monitor renal and hepatic studies. • Assess patient for apnea, bradycardia, and hypotension. Suicidal tendencies may be present and protective measures may be necessary. LABS CBC, Na, K, hepatic enzyme levels in prolonged	medication unless prescribed. Use cautiously in pt with impending depression, impaired hepatic or renal function, copd. Give with milk or food to prevent GI upset. Nurse: check BP and pulse before initiation. If bp falls 20 mmHg delay medication and notify dr. Education: avoid alcohol, no OTC unless prescribe, observe for dependency, avoid excessive sunlight. No breastfeed	Narrow antgle glaucoma, under 12 year old

		therapy. renal and hepatic studies. Assess patient for apnea, bradycardia, hypotension. Teach: avoid driving and other hazardous activities until he knows how drug affects concentration and alertness. avoid alcohol during therapy. donot to stop taking drug abruptly		
Chloromycetin) anti bacterial, anntfungal and antiviral agent for the eye	Eye infection for susceptible organisms when less dangerous anti-infective are ineffective. Sty, conjunctivitis, uveitis	Adverse effect/toxicity Bone marrow hyperplasia, irritation, burning, itching angioeurotic edema super infection, aplastic anemia. Steven-Johnson syndrome, SE: dermatitis, itching, stinging, swelling	Nurse: obtain culture specimen from eye before initiation of treatment, and remove exudates. Monitor for pain, drainage, redness, selling. Monitor for bleeding or bruising with chlormaphenicol Teaching: tell nurse of photosensitivity, redness swelling, increase drainage, pain or swelling if no improvement in a few days.	hypersensivitity
Chlorothiazide (Diuril)	Increase urinary	SE: Dizziness, vertigo,	Consideration: take early	Client with anuria. Use
Thiazide diuretic, non	excretion sodium and	HA, weakness, N/V, and	in the morning to avoid	cautiously in pt with

K spearing	water by inhibiting sodium reabsorption. Use for HTN and kidney, Inhibit sodium reabsorption in the cortical diluting tubule of kidney, increase urinary excretion, for edema and HTN, CHF, cirrhosis, corticosteroid and estrogen therapy, diabetes insipidus, reduction of osteoporosis	pain diarrhea, constipation, frequent urination, electrolyte imbalance, impared glucose tolerance, jaundice, muscle cramps, photosensivitity, impotence hyperuricemia Adverse/toxicity Renal failure, aplastic anemia, agranulocytosis, thrombocytopenia and anaphalytic reaction	nocturia. Given with food, allow for two weeks for maximum effect, will not be effective if creatinin clearance Is less than 30ml/min May alter serum electrolyte especially lowering potassium, increase serum urate, glucose, cholesterol triglycerides BUN and createrinin	impared renal or hepatic function. Do not use if pregnant. Will increase serium lithium level Nurse: monitor vs, I&O, assess for dehydration; thirst poor skin tugor coated tongue monitor electrolyte levels
Chlorpromazine hydrochloride	Block dopamine receptor in CNS to treat	Adverse/toxicity Sedation,	Teach: take early in day to avoid nocturia, take	In pt with narrow angle glaucoma, adynamic
(Thorazine)	+ symptom respond to	orthostatic hypotension,	with food or milk, it	ileus prostatic
A phenothiazine	typical antipsychotic	antichologenic effect(dry	takes 2-4 wks for	hyperplasia
Antipsychotic	drug, Use for intractable	mouth, blurred vision,	antihypertensive effect.	cardiovascular disease,
medication,	hiccups, treat psychotic	urinary retention,	Eat high K food, restrict	hepatic or renal
Neurologic drug	disorder	photophobia,	socium intake, do not	dysfunction and seizure
Typical antipsychotic	(schitzophrenia, bipolar,	constipation,	use salt substitutes if	disorder
meds to treat positive	and other mental illness.	tachycardia) akathisia,	taking K supplement,	Drug interaction: may
symptoms but is low	It suppresses acute	liver damage, tremor	change position slowly	increase for
potency and can reduce	episode, prevent acute	are two major side	to avoid dizziness and	agranulocytosis (low
the risk of EPSE	exacerbation and	effects. (uncontrollable	orthostatic hypotension	wbc)
	maintain highest	need to move) &	weigh daily check blood	
	possible level of	Parkinsonism (set of	glucose periodically if	

Cimetidine	Work against histamine,	symptoms that resembles Parkinson's disease), photosensivity occurs, clients should take measures to protect eyes exposed to sunlingt, Neuroleptic malignant syndrome (NMS), catatonia, rigidity, stupor, unstable blood prossure profuse sweating, dyspnia It sometimes occurs as Toxic effect and MAY last for 5-10 days after discontinuation of the med. Cardiac dysrhythmia,	diabetic Nurse: get baseline ECG, thorough baseline evaluation lab tests befor treatment. Give bromocripitine (parlodel) and dantolene (dentroim) for NMS. Withdrawal of drug is necessary	Hypersensivity to drugs.
hydrochloride (Tagamet) GI meds, H2	decrease gastric mucosa. Use short	diarrhea, dry mouth, constipation	meals and at bedtime Nurse reduce dose in pt	Use caution in clients with impared renal or
antagonist	term for duodenal ulcer of benign gastric ulcer, acute upper GI bleed in	Adverse/Toxicity Rare but may include agranulocytosis	with hepatic or renal impairment Teach: avoid smoking	hepatic function, may increase salicylate leavels with high doses
	critically ill clients GERD, heart burn and indigestion	neutropnia, thrombocytopenia aplastic anemia, anaphylaxis	which cause gastric stimulation, avoid antiacid it reduces acidity so use 1 hour of	of aspirin, may increase coumadin effect
Cisplatin (Platinol)	Treat ovarian and	Major toxicities occur in	dose Nurse hydrate with oral	Hx of sensivitity to
Half life 20-30	testicular cancer by	the Hematopoietic,	or iv fluids before and	platinum-containng
minutes Antineoplastic	interfering with DNA	gastrointestinal and	after administration,	compounds, impared

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medication, Alkylating	replication	reproductive system.	given PO on empty	renal function and
agent	SE/Toxicity	Nurse Monitor Urine	stomach; if N/V are	hearing, Hx of gout,
Major allergic reaction	Renal and hepatic	output and urine specific	severe it may be taken	urate renal stones.
can occur withing first	toxicity,	gravity for 4 consecutive	with food; anti-emetic	Incompatible with
15 mins of	myelosuppression,	hours before therapy	agent should be given	dextrose and raglan,
administration.	peripherial neuropathy;	initiation and for 24 hour	before the drug is	vancomycin, lasix may
Monitor closely for	neurotoxicity, metallic	After; report urine < 75	administered and on a	increase otoxicity
Signs of anaphylaxis	taste N/V	cc/hr it require medical	schedule basis	Incompatible with other
during the first 15 min		attention. Anaphylactic	throughout the day and	nephrotoxicity drugs,
of infusion. Monitor		may occur within	night. Avoid food high	may increase
for decrease Na, K, Ca,		minutes of drug	in thiamin(beer, wine	nephrotoxicity and renal
mag		initiation. Assess BUN	cheese, brewer's yeast,	failure.
		serum uric acid,	chicken liver & banana)	
		creatinin, creatinin	may lead to hypertension	
		clearance.	& intracranial	
		Nephrotoxicity occur	hemorrhage	
		within 2 wks of therapy.	TEACH maintain oral	
		Suspect ototoxicity if	fluid at least 3000 in 24	
		client manifest tinnitus	hr. report reduce UO,	
		or difficulty hearing in	anorexia, N/V	
		the high frequency	uncontrolled by	
		range	antiemetic, fluid	
			retention and weight	
			gain.	
Codeine sulfate	To treat moderate pain	N/V, anorexia, loss of	Nurse check for	Do not use if has acute
Opioids analgesic	most oral preparations	appetite sedation,	sensivity prior to	bronchial asthma or
(agonist) to block	combined with ASA or	constipation, GI cramps	administration, assess	upper airway
opeoid receptors	acetaminophen	urinary retention, oligura,	pain,assess respiration	obstruction, ICP,
through CNS. Rapid	<u>*</u>	purities light headedness	and withhold if resp is <	convulsive disorders,
onset if IM or IV. Peak		dizziness.	12 breaths per minute,	pancreatitis, acute
1-2 hrs, duration up to 7		Adverse/Toxicity	assess CNS	ulcerative colitis or

hours.		Respiratory depression, respiratory arrest, circulatory drpression, ICP. Long term use may cause withdrawl symptoms with termination (N/V cramps fever faintness and anorexia)	changes(LOC), assess allergic reaction TEACH no alcohol, no OTC unless dr order, no smoking driving, without assistance until drug response is known. Report CNS changes, allergic reaction, SOB.	sever liver or kidney insufficiency. Combined with MOA may precipitate hypertensive crisis
Cyanocobalamin (Vitamin B12) stored in the liver. most potent vitamin a water- soluble vitamin that is stored in the liver. most potent vitamin deficiency result in megaloblastic anemia, dysfunction of spinal cord, with paralysis, GI lesion absorbe in the intestine half life; 6 days most are excreted inurine	formation of red blood cells and the maintenence of a healthy nervous system and treats (Addison) pernicious anemia. Vitamin B12 helps in the formation of red blood cells essential for the proper production of blood platelets and red and white blood cells	is more commonly caused by defective gastrointestinal absorption than from B12 are liver, especially lamb's liver, and kidneys. Eggs, cheese and some species of fish also supply small amounts, but vegetables and fruits are very poor sources. The richest dietary sources of cobalamin are the liver, brain and kidney. Other sources, include egg yolk, clams, oysters, crabs, sardines, salmon and heart. Lower amounts of cobalamin are found in fish, beef, lamb, pork, chicken	Teach; May be taken once per month for life in pt with pernicious anemia. may mixed with fruit juice but give immediately, ascorbic acid affects stability of B12. For IM give deep SQ by tenting the skin Adverse effect Anaphylactic shock, sudden death, feeling of swelling of body, pulmonary edema, hypokalemia itching rash severe optic nerve atrophy Do not breast feed while giving this drug	

		overdose, toxicity, side effects		
Cyclosporine	Prophylaxis in kidney,	Hypertension, tremor is a	Nurse labs monitor;	Do not use in
(Sandimmune)	liver and heart	side effect and is	AST, ALT, BUN, creat,	Pregnant/lactating mom,
Immunosuppressant	transplant to protect	expected.	platelet count, K,	Use cautiously in renal
medications Inhibit T	from rejection. Treat	Increase risk of infection,	TEACH taken with food	and hepatic impairment
helper and T suppressor	chronic rejection in pt	hepatotoxicity, HTN,	to reduce GI upset, mix	Antiepileptic
cells. Block production	who have received	renal toxicity, N/V,	with milk, chocolate	medications decrease
of antibody B cell.	immunosuppressive	diarrhea, flu like	milk or orange juice but	cyclosporine levels oral
Inhibit inflammatory	agent, rheumatoid	symptoms,	not with Grapefruit juice	contraceptive increase
response and block	arthritis, recalcitrant	hypomagnesaemia,	Avoid use of live	levels
immune response to	plaque psoriasis	hperkalemia decrease	vaccine	
antigen. Metabolize in		serum bicarbonate	Prevention of infection	
the liver.		hirsutim, nephrotoxicity	and report signs of	
Peak 4-5hr,		(olegura	infections	
Duration 20-54hrs		Adverse/toxicity		
Half life 19-27hrs		Renal toxicity,		
		hepatotoxicity		
Debrox drops (is used to soften and	dizziness;	NURSE You may hear a	if you have a ruptured
Carbamide peroxide	loosen ear wax, making	ear pain, itching, or other	bubbling sound inside	ear drum. any signs of
Otic) An ear drop to	it easier to remove.	irritation;	your ear after using	ear infection or injury,
dewax	Get emergency medical	,	carbamide peroxide ear	such as pain or other
	help if you have any of	discharge or bleeding	drops. This is caused by	irritation, or drainage,
	these signs of an	from the ear; or	the foaming action of	discharge, or bleeding
	allergic reaction: hives;	decreased hearing for a	carbamide peroxide,	from the ear. Do not use
	difficulty breathing;		which helps break up the	this medication in a
	swelling of your face,	prolonged period of time.	wax inside your ear	child younger than 12
	lips, tongue, or throat.	Less serious side effects	TEACH tilt your head	years old without the
	Stop using carbamide	may include:	with your ear facing	advice of a doctor.
	peroxide and call your	temporary decrease in	upward. Pull back on	
	doctor at once if you		your ear to open up the	

have a serious side	hearing after using the	ear canal. drop the	syringe, use only warm
effect such as:	ear drops;	correct number of ear	water that is body
	1 '	drops into the ear.	temperature (no warmer
	mild feeling of fullness	You may hear a bubbling	than 98 degrees F). Do
	in the ear; or	sound inside your ear	not use hot or cold
	mild itching inside the	after putting in the drops.	water.
	ear.	This is caused by the	Hold your head
	car.	foaming action of	sideways with your ear
		carbamide peroxide,	over a sink or bowl.
		which helps break up the	Gently pull your ear
		wax After using the ear	lobe back and
		drops, stay lying down	downward to open up
		or with your head tilted	the ear canal. Place the
		for at least 5 minutes.	tip of the bulb syringe at
		You may use a small	the opening of your ear
		piece of cotton ball to	canal. Do not insert the
		plug the ear and keep the	tip into your ear.
		medicine from draining	Squeeze the bulb
		out. Do not place the	syringe gently to release
		dropper tip into your ear,	the water into your ear.
		or allow the tip to touch	Do not squirt the water
		any surface. It may	with any force into your
		become contaminated.	ear, or you could
		. Do not wash the	damage your ear drum.
		dropper tip.	Remove the syringe and
		Carbamide peroxide may	allow the water to drain
		be packaged with a bulb	from your ear into the
		syringe that is used to	sink or bowl.
		flush out your ear with	Do not use carbamide
		water.	peroxide for longer
		When filling the bulb	than 4 days in a row.

Diazepam (Valium) CNS agent, Benzodiazepine (have zep and zap in them), they are minor tranquulizersanticonvuls ant, anxolytic skeletal muscle relaxant. Absorbe from GI, metabolize in liver Onset 30 min IM, 60 PO, 15 IV. Works quickly. MUST not take for more than 2 weeks Peak 1-2hr PO, Duration 15 min to 1hr IV; up to 3 hr PO. Half life 20-50 min Maximum effect will be seen in 1-2 weeks. Can only be take 2-4 wks. It has addictive effect.	Relieve pain and discomfort form musculoskeletal disorders, manage anxiety, manage acute alcohol withdrawal, But do not use for DT's because it is major.treat tetanus, antiepileptic,/Seizure, vented patients prior to surgery, skeletal muscle spasm(involuntary contraction of large muscles)	ABCD. Antichologenic (dry mouth), Blurred vision, Constipation, & Drowsiness, cardiovascular collapse, laryngospasm, dizzy, weakness, nausea Adverse/toxicity Erythema multiforme, angioedema, anaphylaxis, dysrhythmia, seizure	Nurse watch for CNS effect. Monitor CBC WBC with diff. notify dr. if drop in BP of 20 mmhg Assess for allergic reaction including idiosyncratic reaction, anaphylaxis, rash fever resp distress Teach do not stop abruptly; insomnia, nausea HA, spasticity tachycardia will occur.	Do not drink alcohol while on this drug, it will increase CNS depression. Contraindication: in compromised pulmonary function, active hepatic disease, impaired myocardial function, acute alcohol intoxication, infant < 6 months narrow angle glaucoma, open angle glaucoma, during or within 14 days of MOA
Digoxin (Lanoxin) Cardiac glucoside/antiarrhythmic drug. Positive intoropic (increase force of contraction and decrease	Treat CHF and fibrillation, a flutter, paroxymal atrial tachycardia In heart failure it Increase contraction of	SE: nausea, HA, loss of usual appetite. Adverse effect/Toxicity Toxicity my go unrecognized since it presents with same	Nurse may give without regard for food, may cruse if desire. IVP over 5 min, do not give IM, it will cause tissue irritation. Monitor apical	Contra: avoid in clients with hypersensitivity to dig, do not give full dose if pt receive dig in previous week, Interaction: IV calcium

heart rate) Therapeutic range: 0.5-2.0ng/ml Toxic level > 2 Antidote: digibind (digoxin immune fab	the heart muscle. In atrial fib, it slows the heart rate Nurse, monitor I&O daily weight especially in pt	symptoms as flu (N/V, anorexia, diarrhea, vomitingvisual disturbance. Blurred green or yellow vision or halo effect.	pulse, if <60 stop meds and notify doctor. Before initiation of drug baseline and ongoing labs should be drawn (K,	with dig may increase risk of cardiac dysrhythina, erythromycin will increase dig level,
If calcium is to be given watch for bradycardia since calcium potentiate the action of dig, influence cardiac contractility.	with renal failure, ausculatate breath sound. Assess for edema because it indicates fluid volume overload	CNS: fatique, muscle weakness, HA, facial neuralgia, depression paresthesia hallucinations, confusion,	cal, mag, creat clearance), monitor dig level during therapy, draw level 6 hrs after, initiation and before next dose. watch for dig	quinidine, verapamil and amiodarone will increase dig levels and dig dose should be decrease by 50% Cyclophosphamide
K Level 3.5-5Meq	Teach take pulse for 1 full minute, talk to dr if pulse is below 60 or above 110 before you take the drug. Signs of toxicity, Withhold next dose if toxicity occur and call dr. weigh daily and report weight greater than 2 lbs per day	drowsiness agitation malaise. Dysrhythmia hypotension, AV block, and diaphoresi. In chn early sign of toxicity include cardiac dysrhythmias. Chn rarely show signs of N/V, diarrhea, visual problem, anorexia	toxicity. Take apical pulse for one minute prior to administration withhold meds if changes occur an ECG will be ordered.	combined with dig cause dig toxicity
Disulfiram (Antabuse)	Adjunct treatment of	SE in the absence of	Nurse if use with	In people who does not
The only alcohol	patient with chronic	alcohol, disulfiram rarely	alcohol can precipitate	want to stop drinking.
antagonist in use.	alcoholism who	causes significant effects;	the acetaldehyde	Severe cardiac disease,
Enzyme inhibitor,	sincerely wants to	drowsiness and skin	syndrome. Advice pt	psychoses, pregnancy,
antialcohol agent. Inhibit	maintain sobriety.	eruptions may occur	that the effects of	multiple drug
enzyme alcohol	At least 12 hrs should	during initial drug use	disulfiram may persist	dependence.
dehydrogenase which	elapse from the time of	but these responses	for 2 wks after last dose	Acetaldehyde
catalizes the breakdown	last alcohol intake and	diminish with time.	is taken; alcohol must	syndrome the adverse

of alcohol.	the initial dose of	Reaction with alcohol	not be consumed until	effect caused by alcohol
Use only in people with	disulfiram	ingestion flushing face,	this interval is over.	plus disulfiram
high physical health.	distilliani	chest, arms, pulsating	Give in the morning	pius disumam
Use for 1-2 wks. Taken		HA N/V violent vomiting	when the resolve not to	
as single dose in the		thirst, sweating, marked	drink is the strongest.	
morning		uneasiness, hypotension	Give at bedtime to	
Half life 24-36 hour		to shock level	minimize the effect of	
		** *********		
Onset up to 12 hr		arrhythmias, acute	drug	
Duration up to 2 wks Absorbed from the GI		congestive failure,	Teach avoid alcohol of	
		marked respiratory	all forms include those	
excreted in feces or in		depression,	found in sauces, cough	
the breath as carbon		unconsciousness,	mixture and after shave	
disulfide		convulsions, sudden	lotions, colognes and	
		death	liniments	
		Adverse/toxicity		
		Acetaldehyde syndrome		
		is manifested by marked		
		respiratory depression,		
		cardiovascular collapse,		
		cardiac dysrhythmias, MI		
		acute CHF, hepatoxicity,		
		convulsion and death		
Epinephrine	Acts as SNS adrenergic	SE: nervousness,	Nurse use with caution	If use with MOA
hydrochloride	agonist dilate.	tremors, increase HR,	in children and monitor	inhibitors may lead to
(Adrenalin) A	constricted bronchioles	BP, insomnia, anorexia,	for tremor, restlessness,	hypertensive crisis.
bronchodilator,	by relaxing smooth	tremors cardiac	hallucinations, dizziness,	Narrow angel glaucoma,
Stimulates Beta and	muscles. Use in asthma	stimulation and vascular	palpitations, tachycardia,	hemorrhagic traumatic
alpha stimulant and	attack to decrease	HA.	and GI difficulties. K	or cardiogenic shock,
therefore causes nasal	bronchospasm,	Adverse/toxicity	sparing diuretics may	arrhythmias, organic
decongestant. Given	anaphylactic reactions,	Tachyarrhythmias, cp,	increase risk of	heart or brain disease.
IM, SQ- result seen in 5	syncope due to heart	resplessness, agitation,	hypokalemia. Have pt sit	CAUTION in older

min & last up to 4 hrs,	block and restore	nervousness and	upright, rinse mouth and	adults, HTN TB, long
or inhalation.	cardiac rhythm in	insomnia. Nasal burning	throat withwater	standing bronchial
Adrenergic	cardiac arrest. Also use	stinging, eye burning	immediately after	asthma and emphysema
Receptors. Beta 1	in ophthalmic	anxiety tremors	inhalation to avoid	with degenerative heart
receptors increase HR	decongestant, manage	palptation MI V-Fib	swallowing residual	disease in children < 6
and force of myocardial	open angle glaucoma	pulmonary edema	drug. May. Monitor	No breastfeeding
contraction.	open angle gladeoma	pullionary cuellia	blood glucose. Monitor	140 bleasticeding
contraction.		D/C if hypersensitivity	VS especially HR and	
		develops (develops of	BP because of cardio	
		lids, itching, discharge,	effect. Cause epigastric	
		crusting eyelid). Notify	pain. Rinse mouth after	
		doctor	inhalation. Shake vial	
		doctor		
		Tooch nonent	for IM, aspirate before	
		Teach report nervousness,	injecting, rotating site.	
		,		
		sleeplessness dose should be reduced. Admininister		
		eye drop at bedtime, pt		
		may experience headache		
		and stinging but may subside with continued		
		use. Report if it		
F (11 (D 11)	G1	continues.	T 1 , 1'	TT (* 1 * /
Famatidine (Pepcid)	Short term treatment in	SE: Cardiac	Lab studies: may cause	Use cautiously in pt
Histamine H2	duodenal ulcer or	dysrhythmias	false negative allergen	with impaired renal or
antagonist. Inhibit	benign gastric ulcer.	somnolence, diaphoresis,	results and may increase	hepatic function.
Histamine and histamine	Prophylactic of stress	rash, HA, hypotension,	liver enzymes	Do not breastfeed
receptor site GI system	ulcers, acute upper	taste disorder, diarrhea,	Nurse may be taken	.1
drug reduce gastric	GI bleed in critically ill	constipation, dry mouth	with food. Reduce dose	avoid antacid(agent
secretion reduce total	clients. GERD	Toxicity/adverse effect	in patient with hepatic or	reducing acidity) use
pepsin output, treat	heartburn and	Agranulocytosis,	renal impairment,	within 1 hr of dose for

helicobacter pylori	indigestion. Be aware	neutropenia,	TEACH avoid smoking	
found in gastric mucosa.	that pain relief may not	thrombocytopenia	it cause gastric	
Absorbed in GI.	be experienced for	aplastic anemia,	stimulation and decrease	
Onset 1 hr. Peak 1-3hr	several days	pancytopenia,	drug effectiveness.	
Duration 10-12 hr	-	anaphylaxis	_	
Half life 2.5-4hr				
Metabolize in liver,				
eliminated in urine				
Fluoxetine	For major depressive	Adverse effect/Toxicity	Nurse, inform pt not to	MI, cerebrovascular
hydrochloride (Prozac)	disorder, obsessive	Most serious is cardiac	stop abruptly. Monitor	disease. For pt with
psychiatric med.	compulsive disorder,	toxicity; in the absence	for side effects	suicide risk should not
Tricyclic antidepressant.	bulimia, panic disorder	of overdose. To avoid	particularly in area of	have access to a large
Selective Serotonin	obesity alcoholism	adverse cardiac effect,	sexual dysfunction.	quantity.
Reuptake inhibitors	chronic pain.	clients over the age of 40	Client may reluctant to	The combination of
(SSRI) Half life 1-6	SE the most common	and those with heart	discuss. Give meds	TCA and MAOI can
days.	undesirable effect of	disease should undergo	once a day at about	lead to hypertensive
Onset 2-3 weeks to be	TCA is orthostatic	baseline ECG and then	noon because it causes.	crisis from excessive
effective. Peak 4-8hrs.	hypotension, sedation	every 6 mths. Most	If prescribed 2 times	adrenergic stimulation
metabolized in liver,	and anticholinergic	common adverse	daily give dose in the	of the heart and blood
absorbe from GI tract,	effects (ABCDE) E-is	effects. Orthostatic	morning early and 12	vessels.
excreted in urine and	Euphoria. Advise pt to	hypotension(major	noon to prevent	Do not take while
face.	choose position slowly.	decrease in BP with body	insomnia when more	pregnant
Too much SSRI cause	Most common adverse	position change),	than 20 mg is prescribe	
selective Seiritonin	effect. Teach that Side	Antichologenic (block	Teach side effects of	
syndrome (early	effect will diminish with	muscarinic cholinergic	durgs , and that	
symptom, diaphoresis,	time and symptoms will	recdeptors, which	therapeutic response	
agitation, low grade	be lessened as	produces dry mouth,	takes some weeks to be	
temp up and down pt	medication regime is	blurred vision, N/V,	established. Monitor BP	
can die from it. All	followed. Such as rash.	diarrhea, photophobia,	lying and sitting.	
body process speeds	Wait 4-6 wks before	constipation, urinary	Most common adverse	
up.(BP Muscle	switch to MAOH	hesitancy, tachycardia.	effect cont'd	

rigidity, temp, resp, pulse increase. There is change is mental status, tremor, hyperthermia, sweating hypersalivation. Notify doctor	Serious SE is urinary retention, itching	Sedation, cardiac toxicity (decrease vagal influence, slow conduction. Seizure (low seizure threshold)	Hypomania (mild mania can occur. Sexual dysfunction (anorgasm, delayed ejaculation, decrease libido	
Fluphenazine (Prolixin) typical; neuroleptic drug	They do not cure the disease, they reduce the	Produce neurological disturbances EPS which	Nurse D/C if spinal or epidural anesthesia is	Precaution in pt with narrow angle glaucoma,
and typical antipsychotic drug. This	symptom. They may be given in small dose for	are reversible, may increase risk of of	necessary. Monitor ECG, lab test before beginning	hepatic or renal dysfunction and seizure
is a phenothiazine; Ends with azine piperazine.	antiemetic. Treat psychotic, treat pt that	agranulocytosis a low white blood cell count,	treatment (wbc, hgb and hct. Liver function. Do	disorder. Do not breastfeed
They are major tranquilizers	are out of touch with reality. disorders,	gyneocomastia, amenorrhea weight gain	not use in pt with CNS depression, for client	NOTE Do not let contact skin or clothing
They block dopamine receptor in CNS. SE-	chronic schizophrenia, behavioral	Adverse/toxicity Most common- sedation,	with Parkinson disease, carcinoma of breast bone	with drug. Rinse skin with warm water
Produce Extra pyramidal syndrome (EPS) but not	complications due to mental retardation.	orthostatic hypotension, and anticholinergic	depression and severe hypotension or	immediately if there is contact dilute PO drug
severe. Treat EPS with	Adjust dose to	effects (dry mouth,	hypertension TEACH	with fruit juice water,
cogentin, artane, benadryl symmetrel	symptoms. Treatment is not curative. Depot	blurred vision, urinary retention, photophobia,	report sore throat and S/S of infection	carbonated beverage milk soup. To
Treatment target positive schizophrenic,	antipsychotic preparation such as this	constipatiohn, tachycardia) and. CNS	Neuroleptic malignant syndrome (NMS) a fatal	remember side effect remember ABCDE.
delusion, combativeness agitation paranoia	are long acting injectable preparation	Akathisia in 2 mths. (uncontrol need to	side effect. Characterized by	Antichologenic (dry mouth), Blurred vision
insomnia) and negative symptom (socialization,	use for long term maintenance with this	move), parkinsonism(symptoms resemble	catatonia, rigidity stupor unstable blood pressure	Constipation, Drousiness, EPS,
emotional withdrawal sack of motivation	form of treatment the rate of relapse is usually	Parkinson). Photosensivity occurs;	hyperthermia profuse sweating, dyspnea,	Photosensativity, Agranulocytosis=decrea

blunted effect poor judgment, poor self care) Half life > 24 hours Onset 1 hr, peak 0. 5 hr meds effect can be seen 1-2 days, substantial improvement takes 2-4 wks	reduce and is more favorable is a client need to have long term therapy. Dose should be reduce in the elderly.	take measures to protect eyes when exposed to sunlight.	incontence. Condition last for 5-10 days after discontinuation of drug. Stop drug and NMS develops Treat with Dantrium and Parlodel.	se WBC
Furosemide (Lasix) Loop diuretics, Inhibit NA-K-2Cl symporter in ascending limb. A "high ceiling" that is dosage can be increase to promote diuresis. Excrete sodium, water, chloride, and K. With renal it causes vasodilation to provide increase in filtration rate	Treat acute pulmonary edema, edema, heart failure, chronic renal impairment, hypertension, hypercalcemia Take with food or milk	Ototoxicity Dizziness, HA, light headedness, orthostatic hypotension, weakness, N?V abd pain elevated lipids with decrease HDL dermatitis, urticaria purities muscle spasm Adverse/Toxicity Hyponatremia, hypochloremia, hypokalemia, hypomagnesaemia hypocalcaemia and	Nurse, administer IV lasix slowly, hearing loss can occur if injected rapidly. Give over 1-2 minutes to prevent hypotension. Monitor VS for hypotension and tachycardia, serum electrolyte calcium and uric acid, monitor body weight and I&O. assess thirst poor skin tugor coated tongue, inadequate tissue	Contraindication; anuria, electrolyte depletion, increasing oleguria, anuria hepatic coma, pregnancy, lactation Interact with digitalis increase induced arrhythmias. Interact with aminglycosides causing ototoxicity.
and decrease peripheral resistance Peak 60-70 min PO, 20-60 min IV. Onset 30-60 min PO, 5 min IV, Duration 2 hrs, Half life 30 min		hyperuricemia, muscle cramps, tinnitus if administered too rapid renal failure aplastic anemia, anaphylactic reaction, agranulocytosis TEACH eat food high in	perfusion and weakness, decrease muscle strength restlessness, anxiety and agitation. Take meds in the daytime to prevent nocturia. Lab Studies monitor	

		calcium restrict sodium	potassium and sodium.	
		intake, do not use salt	monitor hgb, hct,	
		substitute if taking K	platelet as these	
		supplement, avoid	increased due to	
		exposure to intense heat	hemoconcentration	
		with bath shower and		
		electric blankets. Replace		
		fluid with fruit juice or		
		bouillon if experiencing		
		diarrhea, change position		
		slowly to avoid dizziness		
		and orthostatic		
		hypotension, report		
		ringing in the ear		
		immediately		
Gentamicin (Garamycin)		HA, paresthesia, skin	Nurse , do not give by	Contraindications
Ophthalmic	kill the bacteria cell	rash fever	mouth, it does not	preexisting renal
Aminoglycosides.	affecting protein	Adverse/toxicity	absorbed well from the	disease, concurrent
Bactericidal	synthesis. Kill gram	Nephrotoxicity and	GI. You may only give	order for renal toxic
aminoglucosides Peak	negative infections, Use	ototoxicity are two	by mouth for bowel prep	agents such as
level: blood specimen	in sterilize bowel prior	common toxicities	or e-choli . Maintain	amphotericin B,
drawn 15-30 min after	to surgery	associated with	hydration to protect	Vancomycin or loop
the infusion is	Use to treat infection of	aminoglycosides.	kidney damage. Fluid	diuretic. In myasthenia
completed to. Peak	GI, resp, and urinary,	Ototoxicity may be	intake should be 2,500-	gravis. With oral
concentration is 4-10	CNS, bone etc. and	irreversible, auditory	3000ml/day therapy	anticoagulant therapy
g/ml determine that	superficial infection of	impairment and	result should be seen	bleeding may increase
toxic level does not	the eye. Have pt keep	vestibular damage,	between 48-72 hrs. give	because aminoglycoside
occur. If peak is too	eyes closed for 1-2 min	possible to the 8 cranial	high quality protein food	decrease vit K synthesis
high, dose may reduce.	after instillation. Tell pt	nerve, risk increase with	that may	in the intestinal tract.
Trough level blood	that vision will be	nephrotoxic drugs,	LABS WBC to monitor	
specimen drawn	blurred	prolong treatment with	the effectiveness of	

immediately prior to	Take PO dose on empty	aminoglycosides,	therapy, Serum creatinin	
administering the next	stomach	impaired renal function	and BUN to monitor	
IV dose appx 30 min	Report sore throat,	and other ototoxic drug	renal function. Expect	
before to assure that	watery stools greater	such as lasix, vanco.	BUN to Creatinin ration	
therapeutic level of drug	•	· ·	20:1 or 15:1. if create	
_	than 4-6 per day, severe	Hypersensitivity reactions include		
is maintained. Trough	nausea or vomiting,		increase 3-4 days into	
level is 1-2g/ml between	indicating possible	prurpura, rash, urticaria,	therapy, expect renal	
doses. If level is no	super infection	and exfoliative	damage.	
sustained, dose may	Signs of ototoxicity	dermatitis.		
increase or more	include HA, NV	Superinfection a		
frequently dose maybe	unsteady gait, tinnitus,	secondary infection		
given	vertigo, high frequency,	caused by eradication of		
Peak 30-90 min	hearing loss and	normal flora:		
Half life2-4 hr	dizziness	Candidiasis, skin and		
		mucous membrane		
Glipizide (Glucotrol)	Stimulate release of	SE; GI distress and	Nurse assessVS, weight,	Contraindication in
oral	insulin from pancreatic	neurologic symptoms	skin, nails serum and	pregnancy related to
antidiabetic/hypoglycem	beta cells in the	such as dizziness,	urine glucose levels	teratogenicity in
ics Sulfonylurease	pancreas to secrete	drowsiness, or headache.	HgbA1c, electrolyte and	animals, in lactating
duration 12-24 hours	insulin. Pt with	Adverse/toxicity alcohol	arterial blood gas levels	women, clients with
Onset 15-30 min	impaired renal and	may cause disulfiram-	Labs CBC wit diff,	allergy to sulfa or urea.
Peak 1-2hr	hepatic function,	like reaction causing	platelet count, blood	Beta adrenergic
Metabolized by the liver	adrenal or pituitary	flushing, palpitations,	glucose	blocking agents can
	insufficiency. Give dose	and nausea.	TEACH all aspect of	suppress insulin release
	1-3 time daily may use	Hypoglycemia related to	drug therapy, take with	and delay response to
	alone or in combination	drug overdose, drug	first daily meal. Take	hypoglycemia.
	with insulin	interaction, alered drug	any missed dose as soon	
	Will Histill	metabolism or	as remembered. Signs	
		inadequate food intake	and symptoms of	
		madequate 100d intake	hypoglycemia (client and	
			family) and notify	

			prescriber if they occur	
Glucagon Comes in	Promotes breakdown	SE nausea, and vomiting	Nurse after client	Incompatible with
power form. RE	glycogen, reduces	Adverse/Toxicity	awakens and is able to	sodium chloride
constitute and give IV,	glycogen synthesis and	Hypersensitivity	swallow, give oral CHO,	solution.
IM SQ or direct IVP	stimulate synthesis of	reaction, hyperglycemia	after recovery assess for	
flush IV immediately	glucose. Emergency	and hypokalemia	persistent headache,	
with 5% dextrose	treatment of severe		nausea and weakness.	
instead of NaCl solution.	hypoglycemia in		Teach test blood sugar,	
Onset 5-20 min, Peak 30	unconscious client or		teach family how to	
min, Duration 1-1.5 hr,	those unable to swallow		administer SQ or IM,	
Half Life; 3-10 minutes	in the clients receiving		notify dr. immediately	
Metabolize in liver,	shock therapy. Pt		after reaction to	
plasma and kidneys	usually awake within 5-		determine cause	
	20 min after			
	administration. Give			
	50% glucose if no			
	response to glucagon			
Glyburide (Micronase)	Lower blood sugar	Hypoglycemia, epigastric	Give once in the	In diabetic ketoacidosis
Oral antidiabetic, more	concentration in	fullness heartburn,	morning with breakfast	as sole therapy for type
potent	diabetic and nondiabetic	purities urticarial	or with first main meal	2. caution in pt with
drug/hypoglycemia drug	individual by sensitizing	jaundice	Labs blood and urine	renal or hepatic
Sulfonylureas second	pancreatic beta cells to		glucose, HbA1c, urine	insufficiency, older
generation	release insulin in the		ketones and liver	adult, malnourished pt,
Duration 12-24 hr	presence of serum		function test	adrenal or pituitary
Onset 15-60 min	glucose. Use as adjunct		Teach eat some form of	insufficiency
Peak 1-2 hr	to diet to lower blood		sugar when symptoms of	
Duration up to 24 hrs, metabolized in the liver,	glucose in pt with type		hypoglycemia occur.	
excreted in urine and	2. after control along has failed.		Report reaction to dr. Loss of control of blood	
feces/ Half life 10 hour	nas fancu.			
icces/ mail life to flour			glucose level may be due	
			to fever, surgery, trauma,	

			stress, infection.	
Haloperidol (Haldol)	Long acting drug use	EPSE, Jaundice (LAB	Nurse Effects can be	Parkinson disease,
High potency drug	for maintenance. Can	check liver function test)	seen in 1-2 days.	seizure disorder, severe
Butyrophenone	minimize postural	, creatining clearance,	Substantial improvement	mental depression, safe
neuroleptic typical	hypotension, sedation,	BUN, Monitor	2-4 wks. Full effect	use during pregnancy.
antippschotic	and antcholinergic	extrapramidal	several mths. Give with	Use caution in older
Antipsychotic.	effects. Can treat	(neuromuscular reactions	full glass of milk or	adults urinary retention,
They decrease positive	positive symtom of.	that occur during first	food. Taper dose slowly.	narrow angle glaucoma,
symptoms of	Treat Tourette's	few days of treatment.	Have pt in recumbent	lithium therapy,
schizophrenia and	syndrome, nonpsychotic	Symptoms are usually	position at time of	cardiovascular disease,
produce symptom such	behavioral disorder	dose related and are	parenteral administration	hepatic or renal
as ABCDEFG	schizophrenic but not	controlled by dose	and for appx. 1 hr after	dysfunction and seizure
Antichologenic (dry	effective in treating	reduction or concomitant	injection to assess for	disorder,
mouth), Blurred vision,	negative symptoms. It	administration of	orthostatic hypotension	NOTE Elderly patient
Constipation,	suppresses symptoms	antiparkinson drugs		may develop
Drowsiness,	during acute psychotic	TEACH no alcohol, no		Neuroleptic Malignant
Extrapyramidal	episodes. When taken	driving until response to		Syndrome (NLMS) a
syndrome (eg	chronically can reduce	dug is known, mouth		potentially fatal
parkinson),	incidence of relapse (a	care due to dry mouth as		hyperpyrexia with
Photosensivity &	major risk in	a side effect. Avoid		temp over 105. give
Agrunulocytosis	treatment of clients	overexposure to sun. use		lover dose for older
Extrapyramidal side	with schizophrenic)	sunscreen drug can cause		people
effect (EPSE)		a photosensivity reaction.		
		No breastfeeding until		
TT 1 11 41 11	A . 12 . 1 . 1 . 1	talk to dr.	NT . 1 . 1 . 1 . 1 . 1	
Hydrochlorothiazide	Act on distal tubule and		Nurse taken with food	
hydrochloride	inhibit the Na-Cl		or mild to reduce GI	Anuria, hypersensivity
(Hydrodiuril)	support leading to		upset. Dose given early	to thiazide. Use
Electrolyte and water	retention of water in the		in the morning and early	cautiously in pt with
balance agent. Thiazide	urine. Increase urinary		afternoon up to 3 pm to	Bronchial asthma,
diuretics	excretion of sodium,		avoid nocturia	hepatic cirrhosis renal

Hydroxyzine	water, chloride, potassium, bicarbonate by inhibiting sodium reabsorption in the cortical diluting distal tubule of kidney. Use in the treatment of edema associated with CHF, hepatic cirrhosis, renal failure and step care management of HTN Treat N/V, relieve	CNS depression,	TEACH avoid salt substitute, avoid excessive ingestion of K, but eat food high in K. change position slowly (for orthostatic) note photosensivity reaction occur 10-14 days after initial sun exposure,	dysfunction hx of gout, diabetes. SLE, no breastfeeding With CNS depression
hydrochloride (Atarax,	anxiety, reduce narcotic	Drowsiness dizziness,	the muscle. Z-track	and coma. Use
visteril) Antiemetics	requirement before and	dry mouth,	technique is	cautiously in pt with
GI drug anti histamine,	after surgery. Treat	anticholinergic effect	recommended to	glaucoma, seizure,
anti puretic. Absorbed	acute or chronic	dry mouth, constipation,	prevent SC infiltration,	intestinal obstruction,
form GI.	alcoholism with	visual changes	monitor mouth daily	prostatic hyperplasia
Onset 15-30 min PO	withdral symptom or	TEACH diabetic pt need	LAB BUN, creatinine	asthma, cardiac,
Peak 4-6 hrs	delirium tremens. It is	to monitor blood sugar.	(Kidney function). May	pulmonary or hepatic
Duration	also good to treat	Avoid excessive	mask response to skin	disease.
Metabolized in the liver	puritis.	sunlight/ ultraviolet	testing; (false positive)	Avoid use with MOA
	As a rule, prophylactic	because of risk for	discontinue 4 days prior	inhibitors
	drugs are generally	photosensivity; use	to testing,	
	given b mouth;	sugarless hard candy or	Liver function test,	
	however, management	ice chips to avoid dry	electrolyte,	
	of active emesis is	mouth. Take 30 – 60 min		
	usually through	before any activity that		
	parenternal or rectal	causes nausea for best		
	administraton.	effect. No driving, no		
	Anticipatory nausea and	alcohol, rinse mouth with		
	vomiting should be	warm water frequently		

	treated one hour before	to relieve dry mouth		
	meals			
Insulin (Humulin R)	Constitute of pork/beef,	Hypoglycemia (anxiety,	Nurse one general	Taking alcohol without
given IV Or IM in type	pork or human insulin	confusion, nervousness,	location is used at one	food increase blood
1 and type 2 and	type.	hunger, diaphoresis, coo,	time to maintain	sugar,
ketoacidosis. All	DOSE SCHEDULE:	clammy skin	consistent absorption	
insulins except (LISPRO	Short acting and	Toxicity/ adverse	rates although sites	
& REGULAR) are	intermediate acting	Somogyi phenomenon;	within each location are	
mixed regular Nvolin	insulin is given 2 times	a rapid decrease in blood	used only once each	
R/Humulin R	Daily.	sugar level at night.	week. Open vial can	
	Intensify therapy; long-	Coma may related to	store at room temp for	
	acting taken in the	inadequate dose caused	up to one month. Assess	
	evening and fast acting	by uncontrolled diabetic	VS, long term	
	insulin given before	derangements with high	complication related to	
	meals according blood	glucose levels and	atherosclerosis (HTN,	
	levels	ketoacidosis	heart disease, stroke;	
	TEACH obtain med	Hyperosmolar	retinopathy leading to	
	alert braclets	coma(nonketotic	poss blindness,	
		hyperglycemia)	gastroparesis.	
		Coma related to inculin	Complications	
		overdose caused by	Lipodystrophy	
		inadequate food intake,	(abnormal deposition of	
		excessive exercise, or	subcutaneous fat at	
		insulin administration;	injection sites), local	
		may be life threatening if	allergic reaction related	
		prolonged	to contaminant in the	
			insulin preparation	
			Nurse	
Syrup of ipecac.	If you overdose on	Adverse effect	Nurse do not use in	
Stimulates vomiting	certain drug or poison it	Cardiotoxicity is most	unconscious pt, or for	
within 20-30 min	makes you vomit	serious if vomiting does	poison by Petroleum	

This is not the preferred method of removal of poison because it should not be given to clients experiencing convulsions or who have reduced level of consciousness or otherwise cannot protect their airway.		not occur and the substance is retained. If vomiting does not occur, gastric lavage is done	distillates, strong alkaline, acid or strychnine	
Isophane (NPH) insulin (Humulin N) metabolize in liver and kidney	Intermediate acting	TEACH if given before breakfast, hypoglycemic episode is most likely to occur between mid afternoon and inner, when it peaks. Eat snack in midafternoon and carry sugar candy.	Nurse It is a cloudy suspension, you role the bottle not shake. Give 30 min before first meal of the day. If necessary a second smaller dose may be prescribed 30 min before bedtime. NOTE: may be mixed with insulin injection without altering either solution. Do not mix with lenthy form	Do not breastfeed unless talk to dr.
Lidocaine hydrochloride (Xylocaine) Cardiac meds Bolus dose: of at least 25-50 mg/min ie. 1-1.5 mg/kg undiluted. repeat in 5 min up to a total of 3 mg/kgl	Treat tachy VENTRICULAR arrhythmias, PVC's, V- Tac. It calms the heart. by elevating ventricular electrical stimulation threshold during	Drowsiness, headache, dizziness, mild hypotension. Adverse/Toxic CNS: Restlessness, confusion, disorientation, irritabiolity,	LAB lidocaine levels assess, therapeutic level is 1.5 -6mcg/ml, assess electrolyte, check baseline liver and renal blood studies. Nurse assess EKG for	Sinus brady, severe degrees of SA, AV and intraventricular heart block. Use cautiously in hepatic or renal disease pt., CHG, Hypovolemia, shock, hyperthermia, the

Followed by IV drip. 1	ventricular	wild excitement.	QRS, heart block.	BETA BLOCKERS
gm in 250 – 500 cc D5w	dysrhythmias during	Numbness of lips or	BP,respiration, and lung	increase the effect of
for infusion. Flow rate	acute MI or Cardiac	tongue agitation, seizure,	sound for crackles	lidocaine
should not exceed 4	catherization	tremors psychosis, and	frequently. Watch CNS	
mg/min which is 60.		respiratory depression	symptoms.	
Use microdropper and		and bradycardia with	TEACH notify dr if	
infusion pump for		high dose.	lighheadedness,	
infusion. D/C as pt		CV : hypotension, brady,	dizziness, confusion,	
become stable. Correct		heart block CV collapse,	numbness or tingling of	
Hypokalemia before		and arrest	lips tongue or fingers	
giving lidocaine			occur and visual changes	
Therapeutic level: 1.5-			or ringing in ear, CNS	
6mcg/ml			changes, nausea,	
			vomiting or yellow	
			changes in whites of eye	
			or skin (Jaundice)	
Lithium carbonate	Drug of choice to treat	Mild SE: fine tremor ,	Nurse Avoid NSAID	Dehydration, severe
(Eskalith)	bipolar disorder control	nausea, thirst, polyuria,	and Diuretics. They	debilitating, severe
Mood stabilizing durg/	manic episodes in pt	, You can look at the 3	increase Lithium	cardiovascular. Use
antimania lt's a salt and	with bipolar disorder	p's—peeing (Polyuria),	toxicity. Give adequate	cautiously in the
compete with salt	and is also use for long	pooping (diarrhea) &	fluid.	elderly, pt with
receptor. It affects Ca,	term prophylaxis	Paresthesia(early sign	Avoid large intake of salt	cardiac, renal, thyroid
K, Mg and Glucose	against recurrent	of electrolyte	as it may alter renal	or diabetes
metabolism. Give	mania depression. Use	imbalance)	elimination of Lithium;	
adequate fluid so it does	for cluster HA. Use in	Toxicity/Adverse	increasing sodium intake	Nurse also assess mood,
not build up in the	chemo pt to improve	NSAIDS and Diuretics	will increase renal	ideation, abd beaviors
kidney. Therpeutic level	neutrophil counts	increase toxicity because	excretion. Test Lithium	frequently; initate
0.8-1.5meq/L. Toxic		pt loose the water and the	level Q3months for	suicide precaution if
level >2. This meds		level increase. Severe	maintenance lithium	indicated, monitor
does not cause		diarrhea, metallic taste	dosing for the first 6	I&O's,
sedation. Anti manic		muscle, Gross tremor	mths.; every 6 mths	Assess for

effects are usually seen		weakness, drowsiness,	reassess thyroid, and	toxicity(Vomiting,
in 5-7 days after initial		twitching and seizure.	ECG	diarrhea, slurred speech,
doses, but full effect		Other adverse effected	LAB lithium level,	decrease coordination,
does not occur for 2-3		reported by pt: GI upset,	Pre lithium workup:-	drowsiness, muscle
wks		muscle weakness,	urinalysis, BUN, creat,	weakness, or twitching);
Lithium has short half-		Course tremor,	electrolyte, 24 hr creat	report to dr before next
life and high toxicity.		confusion.	clearanceTSH T3,	dose.
Excreted by kidney.		hyperirritbility of	T4CBC, ECH	TEACH take miss dose
You look at leithum and		muscles, ECG changes,		within 2 hrs of the next
electrolyte. Such as K		sedation, incoordination,;		dose., avoid
Always turn lithium		death may result in levels		driving(may cause
question into		greater than 2.5meq/l		dizziness/ drowsiness,
Dehydration. If				drink plenty of H20 with
sweating, give Na and				consistent and moderate
fluids. Low s odium				sodium intake to keep
cause prolong lithium				lithium levels stable.
half life, causing				
toxicity. High levels				
decrease the				
effectiveness of lithium				
Lorazepam (Ativan)	Use for management of	CNS: depression,	Nurse Do not stop	Acute narrow-angled
Antiepileptic &	anxiety disorder and for	drowsiness, sedation,	abruptly. There is high	glaucoma, chn,12,
anxiolytic/antianxiety a	short term for relief of	impaired memory,	risk for abuse it is	coma, shock, acute
Benzodia zep ines.	symptoms of anxiety,	paresthesias(abnormal	addictive and high risk	alchoal intoxication. No
Has limited toxic	for preanesthetic	sensation, suicidal	for rebound. Do not give	breast feeding. Use
potential. Resp	medication to produce	tendencies, aggression,	with Gastric feeding,	cautiously in renal or
depression is rare	sedation and reduce	HA, slurred speech	assess for seizure, mental	hepatic impairment,
LAB CBC, liver,	anxiety. Also use for	hypotension, Nystagmus,	status changes,	masthenia grvis, suicidal
Onset 1-5 min IV, 15-30	Status epilepticus	diplopia, gingival	respiratory depression,	tendencies, GI disorder.
IM, Peak 60-90 min IM		<u>huperplasia</u>	rate dept.	limited pulmonary
2 hr PO Duration 12-24		Adverse/Toxicity	TEACH Taken with	reserve

hr		V-fib, hepatitis, nephritis, Agranulocytosis, leukopnea, aplastic	food for prevent GI upset Regime, dose, side	
		anemia,	effect, and adverse	
		thrombocytopnea,	effect. <u>Urine may turn</u>	
		megablastic anemia	pink brush teeth and	
		TOXICITY Bone	floss to prevernt gingival	
		marrow suppression,	huperplasia, carry	
		nausea, vomiting, ataxia,	medic alert id stating	
		diplopia, cardiovascular	medication use Do not	
		collapse, slurred speech	change brand once	
		confusion.	seizure has stabilized. Do not drink for 24-	
			28hrs after dose is	
			given.	
Magnesium Sulfate it is	When taken orally, it	Flushed warm feeling,	Nurse check patellar	In MI, heart block,
like epsom salt.	acts as laxative by	drowsiness, decreased	reflex prior to dose,	cardiac arrest except for
4 gm loading dose is	osmotic retention of	deep tendon reflex,	monitor hand gras;s,	certain arrhythmias. Pul
give over 20-20 min via	fluid which d-stend the	decrease hand grasp	deep tendon reflexes,	edema, CHF, renal
pump.	colon increase content	strength, fluid and	resp rate and serum	failure, organic CNS
Onset 1-2 hr PO; 1 hr	of feces and cause	electrolyte imbalance,	levels, ensure uring flow	disease. Use caution in
IM. Peak, Duration 30	acivity. Parenternally	hyponatremia, N/V,	is at least 30 to 60 cc/hr,	impaired kidney
min Eliminate in the	Acts as CNS	Adverse/toxicity	monitor I&O's. monitor	function, other cardiac
Kidneys	depressiant to smooth	complete heart block,	VS Q10-15 min during	glycosides. Lactating
	cardiac muscle	circulatory collapse, resp.	infusion, and daily	moms and children
	function. Treat	depression leading to	weight	
	Anticonvulsant in	respiratory arrest, lack of	TEACH SE of meds,	
	labor and delivery in	deep tendon reflexes	report signs of	
	an eclamptic or	and/or hand grasp.	preeclampsia inducing	
	preeclamptic client		headache, epigastric pain	
	and cardiac disorders.	Early indication of	and visual disturbance.	

		magnesium toxicity Cathartic effect, profound thirst, feeling of warmth, sedation confusion, depressed deep tendon reflexes and muscle weakness	Any sign of confusion, drink sufficie4nt water during the day. Diet rich source of mag = whole grain cereal, legumes, nuts, meats, seafood, milk, most green leafy veg and bananas. LABS magnesium level, plasma levels	
Mannitol (Osmitrol) Electrolyte and water balance agent, osmotic diuretic Mannitol (Osmitrol) Osmotic diuretic. Electrolyte and water balance. Increases diuresis by raising osmotic pressure of	Oliguria, acute renal impairment, edema ascietes, renal failure, hepatic failure, cardiac failure, increase intraocular pressure, increase ICP to reduce the pressure. diuresis in drug intoxication, transurethral resection,	HA, confusion, syncope, circulatory overload, urinary retention, N/V dry mouth tachycardia, CP, blurred vision, hypotension, edema urticaria, diuresis, fluid and electrolyte imbalance, hyponatremia,	Nurse use filter needle because crystals may form in the solution. Serum osmolality is 275-300 mosm/kg. Mannitol is held in the serum osmolality exceeds 310-320. You may question the administration of mannitol if the patient	In patient with severely impaired renal function, marked dehydration, breast feeding, hepatic failure, active ICP, & anuria. Intracranial bleed shock Warning be alert that after 12 hr after drug
glomerular filtrate. Inhibiting tubular reabsorption of water and solute. It pulls the water off the head and sends it to the systems Given IV. Output should be 30 to 50 cc/hr. and is produced 2-3 hrs after administration.	of prostate	pulmonary congestion, rhinitis, water intoxication. Adverse/toxic Seizure, thrombophlebitis, CHF, Cardiovascular collapse Hyponatremia	has corpulmonae which is right sided heart failure-because mannitol pulls fluid off the brain itmay lead to circulatory overload which the heart could not handle. This client would need loop diuretic t prevent serious complication Teach May take non	administration there can be rebound increase ICP. Pt may complain of HA , or confusion.

Onset 1-3 hr. diuresis; 30 to 60 min IOP, ICP 15 min. Duration 4-6 hr IOP, 3-8 hr ICP Meperidine hydrochloride (Demerol) Opioid analgesic. Potent, long acting Give narcan for toxicity It is use to reverse resp depression induced by overdise, Onset 1-2 min duration 45 minutes. Watch for elevated BP tremors hyperventilation	Given for pain. May be given for HA if other meds does not work	N/V, Anorexia, loss of appetite, sedation purities, light headedness dizziness Adverse/Toxicity Resp depression, respiratory arrest, circulatory depression, increase intracranial pressure	narcotic such as Tylenol if there is headache Nurse do not use in pt with acute bronchial asthma, upper airway obstruction, increase intracranial pressure,, convulsive disorder, pancreatitis, acute ulcerative colitis, severe liver or kidney insufficiency, Assess- LOC, assess for rash, urticaria, respiratory rate, intensity, if < 12 beats per minute-withhold	Cautions in children an elderly
	16 1700	5 1 "	meds.	
Metoprolol tartrate (Lopressor) Beta	Manage HTN, angina pectoris, acute MI,	Bradycardia, bronchospasm,	Nurse Given with food, Monitor BP, HR before	Right ventricular failure secondary to pulmonary
adrenergic blockers.	supraventricular tachy	impotence, weight gain	during and after	HTN. Sinus brady,
Decrease effect of	Beta blockers should	or worsening CHF.	initiation. if given	cardiogenic shock
smpathetic nervous	administer to all pt with	Dizziness, GI upset	orally, assess client 30	hyperactive airway
system y blocking action	suspected MI and	Adverse/toxicity CNS;	min before and 60 min	syndrome (asthma or
of cat-echolamines	Unstable Angina in the	sleep disturbances,	after. Do not stop	bronchospasm)
(epinephrine, and	absence of complication	depression, confusion,	abruptly, gradually	
norepinephrine.	such as CHF; they also	agitation, psychosis,	decrease over 1-2 wks.	
May increase	prevent V-Fib	sudden death.	Hold meds if BP >90. or	

bradycardia		CV; hypotension, profound bradycardia, heart block, acute CHF, peripheral paresthesias resembling Reynard's phenomenon. Laryngospasm or bronchospasm, dry eyes with a gritty sensation, blurred vision, tinnitus, hearing loss. GI; dry mouth, nausea, vomiting, heart burn, diarrhea, constipation, abd cramps flatulence Agranuloctyosis, hypoglucemia, hyperglucemia, hypocalcemia. The most common adverse reaction is	pulse >60, perform head- to-toe assessment and history of COPD since it may lead to bronchospasm. TEACH how to take VS ,do not stop abruptly may cause rebound effect(sweating tremor severe HA, palpitation, HTN MI and life threatening, change position slowly, stop smoking arrhythmias LAB Glucose due to false positive test, may increase K, Platelets, uric acid BUN, LDH	
		The most common		
		digitalis toxicity and WPW syndrome are most at risk		
Morphine Sulfate (MS Contin) Opioids	For severe, chronic or acute pain. Most	Nausea vomiting anorexia, GI, purities	Nurse	Do not use in t with acute bronchial asthma
anangesic schedule 11, major drug abuse.	commonly use in post operative setting. It is	light headedness	TEACH avoid use with alcohol	or upper airway obstruction, ICP,
Produce effect by binding to opoid	also use as a mild bronchodilator to	Toxicity/adverse produce classic triad	LAB	convulsive disorders, pancreatitis, acute

receptors throughout the CNS. It is also a mild bronchodilator which can improve breathing Give Narcan for toxicity of . Ms contin is sustained release, , it will not control break	improve breathing	symptoms; resp depression, coma, pinpoint pupils. Other; ICPwithdrawl begins 6- 8 hrs after the last dose, reach peak intensity within 48-72 hrs craving, chills, sweating		ulcerative colitis, or severe liver or kidney disease. occur with steroids. Do not give morphine to children
through pain because it is sustained released. Onset Immediate IV, rapid if given IM or mouth, Peak 1-2 hrs, up		piloereaction (goose flesh) abd pain and cramps, diarrhea, runny nose, irritability.		
Naloxone hydrochloride (Narcan) Opoid antagonist. Compete with opoids at the opiate receptor sites, blocking the effets of the opoids Onset 1-2 min Duration 45min	Use to reverse respiratory depression induced by overdose of opoids, pentazocin, propoxyphene Titrate dose slowly if too much is given the client will swing from a state of intoxication to one of withdrawl; because of its short half- life it must be given every few hours until the opoids has dropped to anontoxic level	Increase BP, tremors, hyperventilation, drowsiness, nervousness, rapid pulse, N/V, hyperpnea Adverse/toxicity Hypotension, ventricular tachycardia and fibrillation, convulsion, hepatitis, pulmonary edema,	Nurse Assess VS q 2-3 min, ABG, cardiac status; tachycardia, HTN,ECG, Respiratory function, rate rhythm, LOC, evaluate therapeutic response and need for reversal of respirator depression,	
Nedocromil (Tilade)	Use in the treatment of	Adverse effect:	Nurse administer by	Do not use in pt with

anti-inflammatory and	asthma prophylaxis as	abnormal bitter taste,	inahalation	acute bronchospasm or
antiasthmatic. Inhaled	maintenance and also	N/V, HA, dizziness, sore		status asthmaticus. Do
nonsterioidal	used for ocular allergic	throat. Cough,	Teach. It may take 3	not use in pt with
medication	conjunctivitis. It	pharyngitis, rhinitis,	weeks to reach	hypersensivity Use
	stabilize mast cells so	fatigue, dyspnea	therapeutic effect. Be	with caution in pt with
	bronchoconstrictive and	Tangae, ajspinea	familiar with side	hepatic or renal function
	inflammatory substance		effects, actions, and	
	are not released when		usage. Rinse mouth	
	stimulated with an		after taking medication	
	allergen. It prevent		to avoid dry mouth, do	
	airway inflammation,		not take in acute	
	decrease mucosal edema		asthma attack, Do not	
	and mucous secretion		use if there is an acute	
	and decrease		attack	
	bronchoinfection			
Neomycin sulfate	Given to pt with	HA, paresthesia, skin	Labs Peak level	In pre existing renal
(Mycifradin)	endstage liver disease	rash, fever.	specimen drwn 15-30	disease,
antiinfective,	because it reduces the	Toxic/Adverse Two	min after IV infusion of	NOTE. With oral
aminoglucoside	number of ammonia-	most common toxicities	aminoglycosides is	anticoagulant therapy,
antibiotic. Kills bacteria	forming bacteria in the	with	completed to determin	bleeding may increase
cell, treat gram- bacteria	bowel. Use to sterilize	aminoglycocydes;Nephr	toxic levels. Decrease	because
Note: all	bowel prior to surgery.	otoxicity and ototoxicity	dose if peak is too high	aminogluycosides
aminoglycosides ends in	My be given orally only	especially in infant and	Trough level blood	decrease Vit K synthesis
Mycin but not all drugs	to clense the bowel	aged, people with	drawn immediately prior	in the intestine
that end in mycin are	because it is poorly	hypotension,	to administration of the	
aminoglycosides such as	absorbed PO route. It	dehydration, preexisting	next dose to assure that	
(Erythromycin)	may be given via	renal disease, and	therapeutic levels of	
	endotracheal toute	coadministration of other	drugs are maintained	
		nephrotoxic drug.	between doses; is a	
		Ototoxicity may be	therapeutic level is not	
		irreversable, it may also	sustained, in increase in	

		Nurse take C&S before therapy begins to ensure appropriate drug employed, monitor peak and traugh, monitor for nephrotoxocity and ototoxicity by auditometry testing. S/S of ototoxicity; dizziness, lightheadedness, tinnitus, fullness in ears and hearing loss, maintain hydration to protect kidneys, observe for evidence that infection is resolving with 48-72 hrs	dose or more frequently dosing may be needed. BUN, Creat,. Creatinin is more specific for renal function. This level rises 3-4 days into tretment	
Nifedipine (Procardia) Calcium Channel Block	It calms the heart like valium. Treat angina	HA, fatigue, constipation especially with oral	Nurse Hold for BP < 90/60. Do not give with	Second-degree heart block
has ca in them	and HTN.	sustained release forms.	grapefruit or	
(Procardia) Anti-		Posteural hypotension,	grapefruit juice, it may	
arrhythmic,	Inhibit calcium ion	constipation, peripheral	cause level to go up	
antihypertensive drug.	influx through slow	edema. Adverse/toxicity	resulting in toxicity	
Negative inotropic.	channels into cells of	CNS dizziness, nervousness, insomnia,	Monitor liver enzymes. Monitor ECG before and	
Slows HR,/things to decrease O2 demand	myocardial and arterial smooth muscle (both	confusion, tremor, gait	after, Hepatic and renal	
decrease 02 demand	cardiac and peripherals	disturbance	lab test Monitor for HA.	
	blood vessels); spasm.	CV; heart block and	Advise pt to report	
	Normal role of Ca is to	profound bradycardia,	gradual weight gain	

	activate myocardial	CHF, profound	and evidence of edema;	
	contraction which	hypotension with	may indicate onset of	
	increases cardiac	1 21	CHF. Infuse via micro	
		syncope, palpitation, and		
	workload. It dilates	fluid volume overload	drip	
	coronary arteries and	GI; n/v, impaired taste.		
	prevent coronary artery	Skin rash, altered liver		
	spasm, it decrease BP	and kidney function		
	and HR it increase O2	sudden cardiac death		
	delivery, decrease SVR,	TEACH take radial		
	and	pulse before each dose		
		report irregular pulse or		
		slow than baseline and		
		report to dr. Change		
		position slowly due to		
		postural orthostatic		
		hypotension. stop		
		smoking and avoid		
		alcohol consumption		
Pancrelipase (Pancrease)	Use in patient with	Nausea, diarrhea, abd	TEACH swallow tablet	Drug interaction: if
Tancrenpase (Tancrease)	cystic fibrosis, chronic	cramp	whole, do not crush or	given with antacids the
	pancreatitis, post	Adverse/toxicity	chew. Do not give with	pH will change the
	1 * * * * * * * * * * * * * * * * * * *		antacid. Taken with	enteric coated capsules
	pancretectomy,	Hyperuricemia.		to dissolve in the
	steatorrhea,	Lab uric acid	meals or before meals	
	malabsorption		with plenty of H2O.	stomach and inactivate
	syndrome or post		report joint or swelling	the product.
	gastrectomy. Help to		pain	
	digest fat, absorbed fat,		Nurse Powder form	
	proteins and CHO.		may be sprinkle on	
			children's food. Capsule	
			form may be sprinkle of	
			food or taken with	

Phenobartial (Luminal) For Seizure. Antiepileptics	Inhibit spread of seizure activity in the motor cortex. Use in grand mal, partial seizure and status epilepticus.	Drowsiness, dizziness, insomnia, paresthesia (abnormal sensation) Nystagmus, diplopia, gingival hyperplasia Adverse/ Toxicity V- Fib. Hepatitis, agranulocytosis, leukopnia, aplastic anemia, thrombocytopenia, megablastic anemia TEACH Urine may turn pink, Do not stop abruptly, Brush teeth and floss to privent gingival hyperplasia, carry medical alert bracelet	pudding and should not be chewed. without monitor for SE and for steatorrhea, as it should diminish with appropriate dose of medication. Nurse Do not give with with gastric feedings because it inhibits uptake of protein by binding with the protein. Withhold feeding 30-60nutes before and after administration. May decrease calcium, vit D. Assess for seizure activity; type, location, duration and character; provide seizure. Use in seizure 4 minutes. Assess blood dyscrasias fever, sore throat, bruising rash, and jaundice	
Pilocarpine	For acute or chronic	Visual blurring, myopia,	Nurse obtain baseline	
hydrochloride (Pilocar)	Glaucoma	irritation, brown pain and	neurological and VS.	
Eye preparation.		HA. Abd pain,	Assess for	
Antiglaujcoma agent.		bronchostriction,	cardiovascular.	
Cholinergic agent for		diarrhea, hypotension	Teach difficulty	

ophthalmic use.		nausea vomiting	adjusting quickly to	
Chologenic agent will		diaphoresis, pt may have	changes in illumination	
reverse the effects of		excessive salavation	may occur as a result of	
symptomimetic drugs		because the drug is	miosis. Proper self	
often use t treat asthma		chologenic agent.	administration of	
Precipitation of an		exacerbation asthma	medications	
asthma attack is a		Adverse/toxicity		
systemic side effect of		Ataxia confusion,		
pilocarpine.		seizure respiratory		
		failure, hypotension,		
		respiratory failure, coma		
		and death. Retinal		
		detachments, obstruction		
		of tear drainage and		
		cataract. Acute toxicity		
		is reversible by IV		
		atropine, an		
		anticholinergic agent		
		that is the antidote		
Prazosin hydrochloride	Treat Mild to moderate	Impotence, decreased	Nurse Do not use if	Caution in clients with
(Minipress)	HTN by lowering it.	volume of ejaculate,	pregnant, Not indicated	impaired hepatic
Treat benign prosthetic	refractory CHF,	decrease libido,	for remales of pediatric	function
hyperplasia and HTN.	raynard's disease, BPH.	masthemia, May cause	use, Posteural effects	Tunction
hyperplasia and 1111v.	,		may offur 2-6 hours after	
It is a alpha advanceries	Blocks alpha 1 receptors	syncope within 30 min to 1 hr after the first	1	
It is a alpha adrengerige	in the prostate leading		dose. May decrease	
and as a peripherial	to relaxation of smooth	dose; the effect is	WBC and neutrophil	
vasodilator medication	muscles, improving	trainsient and may be	counts, Hct, Hgb, total	
	increase urine flow and.	diminished by giving at	protein and albumin	
	It caused vasodilation	bedtime. May begin		
	and thus reduces BP. It	with a small dose to	Nurse provide treatment	
	also preventing	avoid syncope dizziness,	options, monitor for	

	stimulation of beta receptors in the heart by epinephrine and nor epinephrine, thereby sing heart rate and cardiac outputdecreaa decreasing BPH symptoms.	HA, nervousness, palpitation, tachycardia, peripheral edema, postural hypotension, nasal congestion myalgia, diarrhea and nausea Adverse/toxicity peofound Hypotension, shock and arrhythmias. Tremor muscle twitching,	decrease BP, every 5-15 min for IV during initial infusion and med adjustment. Monitor urine volume Teach change position slowly to prevent orthostatic hypotension, stop smoking and avoid alohol intake they might negate positive effects of the medication avoid driving and hazardous task for the firest 12-24 hours or after increasing dose due to drowsiness and somnolence, women	
Prochlorperazine (Compazine) Antiemetic for severe nausea and vomiting. As a rule, management of active emesis is usually through parenternal or rectal administration of	Suppress emesis by blockade of dopamine receptors in the CTZ Anticipatory nausea and vomiting should be treted one hour before meals or treatment	May produce extrapyramidal reactions, anticholinergic effects hypotension, and sedation. Be alert of aspiration Toxicity/adverse Agranulocytosis, thrombocytopenia	Nurse Monitor BUN and Creat, May mask response of skin testing; discontinue 4 days prior to testing, monitor liver function electrolyte and renal, monitor antichologenic effect(dry mouth, constipation or visual changes TEACH avoid excessive sunlight/UV because of risk for photosensitivity,	Use cautiously in pt with glaucoma, intestinal obstruction, prostatic hyperplasia, asthma, cardiac, pulmonary or hepatic disease, seizure

			Use sugarless hard candy or ice chips to avoid dry mouth. Take 30-60 min before any activity that causes nausea for best effect.		
Promethazine (Phenergan) Antihistamine that causes drowsiness because it works centrally as well a s peripherally; for nausea and motion sickness	Treat motion sickness and nausea	Resp depression, drowsiness, confusion agranulocytosis, blurred vision dry mouth. Extrapyramidal reaction	Nurse Keep pt in bed with half side rails up until the effects of the dreg wear off to promote client safety. The effects may heighten by the client age Give oral dose with milk or food or full glass or water to minimize GI upset.	Narrow angle glaucoma, stenosing peptic ulcer duodenal obstruction	
Protamine sulfate	Protamine sulfate. An antidote for Heparin toxicity. Given IV a maximum dose of 50 mg in 10 min time period; and should be titrated according to the time and length of time the heparin was administered	Use for heparin calcium or heparin sodium overdose after heparine has been discontinued.			Hemorrhage by heparin d Use caution
Ranitidine hydrochloride	Reduce gastric	Cardiac dysrhythmias	NURSE May be given	Use caution in pt with	
(Zantac) Histamine H2	secretion. Short term treatment for duodenal	Somnolence, diaphoresis, rash headache	with meals, as a single dose or two time daily	impaired renal of hepatic function. May	

antagonist.	ulcer or benign gastric	hypotension, taste	reduce dose in renal	increase salicylate levels
	ulcer, pathological	disorder, diarrhea,	patient, give with meals	with high doses of
	hypersecretory	constipation dry mouth		aspirin, may increase
	condition such as	Adverse/toxicity may	Labs may give false	diazepam absorption,
	zollinger-Ellison	include agranuloctyosis,	positive urine prolactin	increase hypoglycemia
	syndrome, prophylactic	neutropenia,	Teach Taken with	effect of glipzide and
	of stress ulcers, acute	thrombocytopenia,	meals avoid smoking to	may increase warfarin
	upper GI, bleed in	aplastic anemia,	prevent gastric	effect
	critically ill clients	panctyopenia	stimulation, avoid	
	GERD, heartburn and		antacid agent reducing	
	indigestion, erosive		acidity use within 1	
	esophagitis		hour of dose	
Rh(D)immune globulin	Provide passive	Injection site irritation,	Nurse Given to the	
(RhoGAM) Hormone,	immunity by	slight fever, myalgia,	mother only via IM.	
synthetic substitute	suppressing active	lethargy	Give the entire dose	
contain IgG and provide	antibody response and		within 72 hours after	
passive immunity	formation of anti-RHo.		delivery or termination	
Peak 2 hour Half life	Effective for exposure		of pregnancy. Keep	
25 days	in Rh negative women		epinephrine available	
	when positive fetal		systemic allergic	
	RBC enter maternal		reaction sometimes	
	circulation during the		occur. Send sample of	
	third stage of labor, fetal		newborn cord blood to	
	maternal hemorrhage or		lab for cross match and	
	other trauma during		typing immediately after	
	pregnancy, termination		delivery before	
	of pregnancy and		administer RHo (D)	
	following transfusion.		TEACH prevent	
	Micro dose is use only		hemolyctic disease in	
	for apontaneous or		the newborn in a	
	induced abortion or		subsequent pregnancy	

	termination of ectopic			
	pregnancy up to and			
	including 12 week of			
	gestation			
Setraline hydrochloride	Give with food in the	GI problem. Has minimal		
(Zoloft) Antidepressant	morning to prevent	effect on cardiovascular.		
SSRI	insomnia	Decrease sexual drive		
2-3 wks to be effective		Major complication		
		(Selective Serotoning		
		Syndrome) Pt can die		
		from it. Elevated temp up		
		to 105. pt may progress		
		to coma. Every speed		
		up. BP, P, T. Early		
		signs diaphoresis, chnge		
		in mental status		
		(agitation, labile (temp		
		goes up and down) Other		
		symptoms, tremor		
		excitement		
		hypersalivation		
Spironolactone	Diagnosis and treatment	HA, dizziness, weakness,	Nurse taken with food	Serum level > 5.5j
(Aldactone)	of hperaldosteronism;	orthostatic hypotension,	to avoid GI upset avoid	anuria, acute and
Potassium sparing	edema related to CHF,	N?V, diarrhea	salt substitute they are	chronic renal
diuretic	nephritic syndrome,	constipation, impotence,	high in K avoid	insufficiency, diabetic
	cirrhosis; prevention	muscle cramps, breast	excessive ingestion of	nephropathy,
	and treatment of	soreness, dry mouth	foods high in	hypersensivity, impaired
	hypokalemia. Act on	photosensitivity, elevated	potassium. Monitor US	hepatic function,
	distal convoluted tubule	BUN, Creat	and urine output, no	
	to increase sodium	Adverse/toxicity	potassium supplement	Note: may potentate
	excretion and decrease	Hyperkalemia, aplastic	monitor for dehydrat5ion	effect of hypotensive

	potassium secretion. Use for edema and HTN associated with heart failure.	anemia and thrombocytopenia	and electrolyte imbalance; LAB Monitor electrolyte, cratinin, BUN, Dig. TEACH avoid food high in K, report any mental confusion or lethargy immediately, monitor for signs and symptoms of hyhperkalemia (nausea, vomiting, diarrhea, abd cramps, tachycardia followed by bradycardeia. Avoid direct sunlight	medication, increase risk of hyperkalemia with other K-sparing diuretics May increase lithium due to decrease renal function
Theophylline (Theo-dur) Common xanthines Normal level is 10-20. toxic level may develop quickly	Treat bronchial asthma, chyne stokes, status asthmaticus respirations. It causes bronchial dilation due to smooth muscle relaxationl also increase catecholamine levels in smooth muscle and release of bronchoconstrictive	N/V, anorexia, GERD during sleep, sinus tach. Extrasystole, palpitation, ventricular arrhythmias, hyperglycemia, increase urination, increase heart rate—No caffeine, Adverse/Toxicity Tremor dizziness, hallucinations, restlessness, agitation,	Nurse administer no faster than 25 mg/min because of potential cardiovascular collapse. Limit food and drinks containing caffeine because if increase drug level. Seizure may occur with drug level over 40 mcg/ml. assess for toxicity, note symptoms	Use cautiously in pt with cardiovascular problem, may also increase in liver disease CHF and acute viral. can cause seizure, and is not given in pt with seizure disorder unless bronchospasm is unresponsive to other treatmens

	substance from mast cells which contain histamine	headache insomnia, tachydysrhythmia chest pain. Restlessness is a symptom of toxic reaction; however, it could signal hypoxia, and the nurse should assess the client for this.	of (restlessness, agitation, HA, and insomnia) ask about current medication. TEACH notify if palpitations nausea, vomiting weakness dizziness chest pain or convulsions occur. Avoid contact with the allergen that tends to cause allergic response avoids contact with smoke and other resp irritant. Inform prescribe prior to taking OTC	
Tolbutamide (Orinase)	Common xanthines	GI distress, and	Nurse Assess Vs,	In women allergic to
antidiabetic/hypoglycem	Normal level is 10-20.	neurologic symptoms such as dizziness,	weight, condition of skin and nails serum and	sulfa or urea, Beta
ic Sulfonylureas Duration of action 6-12	toxic level may develop quickly	drowsiness or headach	urine glucose levels	adrenergic blocking agents can suppress
hours.	quickly	Toxic/adverse	glycosylated hemoglobin	insulin release and delay
		Alcohol may cause	and electrolyte and	response to
		disulfiram like reaction	arterial blood gas levels	hypoglycemia
		(flushing, palpation and	when appropriate	
		nausea, flushing of	Teach with cultural	
		skin). hupoglucemia	consideration. Signs and	
		related to drug overdose,	symptoms of	
		drug interactions altered drug metabolism, or	hypoglycemia and notify prescriber if they occur.	
		inadequate food intake.	Wear medic alert	
		madequate 1000 make.	bracelet or tag. Consult	

			dr if you are pregnant	
Tobramycin sulfate (Nebcin) Amoinoglycosides action Poorly absorbed ovally so is only use for bowel prop for surgery or to prevent absorption of ammonia in hepatic encephalopathy	Kills bacteria cell byh affecting protein synthesis. Kill Gram negative infrection. Use for bowel prop for surgery.	HA, paresthesia, skin rash, fevers. Adverse/toxicity Nephrotoxicity, ototoxicity, are two common toxicities associated with aminoglycosides. REFER to previous aminoglycosides	Do not other meds In the same IV LAB Peak and Trough, serum creatinin, BUN to monitor renal function expect BUN creatinin ration to be 20: or 15:1	Pre existing renal disease. With oral anticoagulant therapy, bleeding may increase because aminoglyhcosides decrease vit K synthesis in the intestine
Triazolam (Halcion) CNS agent. Benzodiasepine, Anxolytic, sedative hypnotic Has rapid onset	Use in short term management of insomnia, characterized by difficulty falling asleep, frequent wakeful periods, following long term use tolerance of adaptation may develop	Drowsiness, lightheadedness memory impairment, rebound insomnia, antegrade amnesia, paradoxical reactions, changes in EEG pattern	Nurse given at bedtime Do not use in addictive prone pt. Monitor symptoms of overdose (slurred speech, somnolence, confusion, impaired coordination and coma. Do not stop taking abruptly	
Trihexyphenidyl hydrochloride (Artane) Antichologenic. Treat Parkinson disease.	Block or compete an central acetylcholine receptor sites in the ANS. Use to decrease involuntary movements and rigidity in parkinsonism. treat hyper salivation and	Decrease urine output Dry mouth, constipation, urinary retention or hesitancy Adverse/toxicity Paralytic ileus Even slight dose may cause toxicity.	Monitor I& O increase fluids, bulk and exercise, voids before taking doses of anicholinergic to reduce retention of urine, avoid driving or other hazardous activities. Drowsiness	In pt with narrow angle glaucoma, myasthenia gravis or GI obstruction

	irregular movements		may occur. Avoid OTC such as cough medicine with alcohol. Separate antacid use from anticholinergics by 2-4 hours.	
Vincristine sulfate (Oncovin)) Plant alkaloids mitotic inhabitor IS a vesicant; administer into the side arem portal of a freely flowing IV. Give Hyaluronidase is the Antidote. may apply heat to site to dispurse drug and minimize sloughing	Use in breast, lung and cervical cancer multiple myeloma, sarcoma, lymphoma, Hodgkin's disease	Major toxicities occur in the hematopoietic, integumentary, neurologic and reproductive, system. Hypersensitivity may Toxicity/side effect Neurotoxicity, loss of sensation of the soles of feet and fingertips, depression of the Achilles reflex is the earliest sign of neuropathy paralytic ileus	Assess for leucopenia, which occurs in significant number of clients. Assess hand grasp and deep tendon reflexes, depression of the achilles reflex is the earliest sign of neuropathy TEACH Maintain a prophylactic regimen against constipation and paralytic ileus, report a change in bowel habits. Alopecia is the mot common side effect and is reversible once treatment is completed	Obstructive jaundice, demylinating neurological disease; preexisting neuromuscular disease. Bronchospasm may occur in pt previously treated with mitomucin;; hepatic metabolism of vincristine may be decrease when given with asparaginase (dose need to be separated by 12-24 hours
Vitamin B6 (Pryidoxine hydrochloride) "sleeping giant" Absorbed by GI tract	Prophylaxis and treatment of pyridoxine deficiency as seen with inadequate dietary intake, drug induced deficient It helps make red blood	Deficiency anemia, smooth tongue, abnormal brain wave irritability. Muscle twitching, convulsions weakness irritability, greasy dermatitis	Swallow whole. Give deep in IM if IM dose Source green leafy veg. meats, fish, poultry, shellfish, legumes, fruits, whole grains, potatoes	

Vitamin C (Ascorbic acid) helps in cologne synthesis is protection of connective tissue, strengthen blood vessel walls, forms scar tissue, provide matrix for bone growth strengthens resistance to infection, helps in absorption of iron, help metabolize amino acid	cells., helps converts tryptophan to niacin. Helps regulates blood glucose, looses nutrients when heated. Can increase absorption of IRON and conversion of folic acid Use as prophylaxis and treatment of scurvy and a dietary supplement.	Toxicity Depression, fatigue, impaired memory, irritability, HA, numbness/ Paresthesia difficulty walking loss of reflex, flushing feeling of warmth, Par Deficiency Scurvy Anemia, atherosclerotic plaques, pinpoint hemorrhages, frequent infection, bleeding gums, loosened teeth, muscle degeneration and pain hysteria depression, one fragility, joint pain, rough skin, blotchy bruises failure of would to heal Toxic nausea, abd cramps, diarrhea, excessive urinating, headache, fatigue,	Source citrus fruits, cabbage type vegetables dark green vegetables, cantaloupe, strawberries, peppers, lettuce tomatoes, potatoes, papayas, mangoes	
		insomnia, rashes		
Vitamin D2 (Ergocalciferol)	Use in pt with hypoparathyroidism and	Hypercalcemia related to overdose; signs include	Monitor BUN, creat, serum alkaline	
can be manufacture in	to treat and prevent vit	ataxia, fatigue,	phosphate, urine	
the body . precursor in	D deficiency. Needed	irritability, seizure,	calcium.	
the liver and migrate to the skin where it	for proper absorption of vit D, use to treat	somnolence, tinnitus, hypertension, GI distress	Assess for any CNS problems. Do not drive	

converted to a second precursor with the help of sunlightw. It target	rickets, osteomalacia and hypothyroidism. Not an essential vitamin. It makes calcium and phosphorus and stimulates its absorption from the GI. Deficiency cause Ricketts (bones fail to calcify, bowed legs, osteomalacia, muscle spasm	or constipation, hpotonia in infants. Adverse/toxicity Hypercalcemia which may lead to dysrhythmia in pt taking dig, bone decalcification calcium deposit in soft tissue Forming stones	or use heavy equipment if fatigue, somnolence, vertigo or weakness develops. Avoid magnesium containing antacids. Dark skinned people need more sun	
Vitamin E (Alpha tocopherol) is antioxidant that prevents the formation of free radical that damage cell membrane and cellular structure. It protect RBC from lyse. Vit E readily destroyed by heat	Protect lung from air pollution that are strong oxidants. Protect thebody from heart disease.	Gradual decrease of muscle Dificency RBC damage, anemia, leg cramps, deterioration, weakness difficulty walking Toxic jaundice brain, damage	Source, vegetable oil, soybean oil, wheat germ oil, margarine, salad dressing animal fats (butter milk. green leafy veg, nuts seeds	
Vitamin K1 (Aquamephyton) Plays role in blood clotting. Responsible for 7 blood clotting protein. Bacteria source in the intestine tract synthesize vit K that	Given as antidote for coumadin toxicity. It plays active role in extrinsic pathway (a pathway that forms fibrin and acts within seconds) with Vit K production reduce	, Deficiency causes hemorrhage. Deficiency may occur in conditions of fat malasorption. Or due to some medication, Toxicity Red cell hemolysis, jaundice, brain damage	Nurse drug may be started while pt is still on heparin and heparin tapering off slowly. Food high in vit K liver, cheese, egg ;yolk, leafy veg, broccoli, cabbage, spinach and kale, oils	In pt who have hemorrhaging or bleeding tendencies, malignant hypertension; of have past history of allergic reaction to coumadin

the body can absorbed,	several clotting factors	Teach duration of	peanut, corn, olive or	
	11, vii, ix and x are also	therapy may be several	soybean should be	
	reduced thereby prolog	months to lifelong.	avoided or use sparingly	
	clotting cascade	months to merong.	during coumadin therapy	
	crotting cuscude	S/E Ecchymotic skin,	LAB PT INR. May be	Increase reaction may be
		GI & skin problem.	given in the evening and	seen in pt on garlic but
Warfarin sodium		Hypotension,	lab draws in the	there is increase risk
(Coumadin)		thrombocytopenia	morning.	with garlic, ginger
anticoagulant. Given		Adverse/toxic	Nurse Monitor PT, INR	gingko biloba, cayenne.
PO. Has narrow		Bleeding is the major	Teach length of therapy,	Green tea, ginseng an
		adverse effect.	close follow up	
therapeutic range.		Nausea, diarrhea,	-	goldenseal decrease effectiveness of
Therapeutic effect will be seen in one week.		· · · · · · · · · · · · · · · · · · ·	monitoring. if adverse	coumadin
PT llevel will maintain		intestinal obstruction,	effect or toxicity, withhold coumadin and	Coumadin
		anorexia, abd cramping,		
at 1.5 – 2.5 the times		rash urticaria, purple toe	give Phytonadione (Vit	
the control value. INR		syndrome(discoloration	K)	
range from, 2.0- 3.0		caused by decreased	TEACH teach about	
Onset of action is slow.		perfusion for release of	bleeding problem and	
coumadin is titrated to		microemboolic	how to respond. Use	
keep INR 2-			soft toothbrush and	
3. coumadin resemble			electric raiser to	
vit K and interfere with			minimize trauma that	
synthesis of clotting			could lead to bleeding.	
factor that require vit K.			Observe for bleeding	
			gums, bruises,	
			nosebleed, tarry stools,	
			hematuria,	
			hematemesis and	
			petechiae, report these	
			finding to the prescribe	
			avoid food high in	

			vitamin K	
Zovirax Antiviral, Antiinfective	Treatment of recurrent and initial mucosal and cutaneous herpes simplex. Also use orally in varicella zoster (chicken pox). Does not eradicate latent herpes. It reduces viral shedding and formation of new lesions and speeds healin time.	HA, dizziness, seizure, nausea vomiting diarrhea acute renal failure thrombocytopenia purpura hemolytic uremia syndrome	Even aftrer HSV infection is controlled, latent virus can be activated bty stress, trauma, fever exposure to sunlight, sexual intercourse. Refrain form sex if S/S of herpes.	
Sucralfate (Carafate) Mucosal protective agent	Protects the site of ulcer from gastric acid by forming an adherent coating with albumin and fibrinogen; it absorbs pepsin decreasing its activity. It is use short term for duodenal ulcers with continued maintenance treatment at low doses; investigational use for gastric ulcer. Also use in esophageal ulcer related to radiation or chemotherapy,	Dizziness, headache, constipation, diarrhea, nausea, vomiting flatulence, dry mouth and rash, may cause apotting cramping dysmenorrheal, menstrual disorders and postmenopausal bleeding Adverse/toxicity Angioedema, resp difficulty, loaryngospasm, seizure	NURSE Taken 1 hour before meal and bedtime or 2 hours after meals. Take 2 hours after medication and not within 2 hours of antacid Assess for pregnancy TEACH Avoid gastric irritants such as caffeine, alcohol, smoking and spicy foods. Report immediately if there is any difficulty breathing or swallowing	In patient who are allergic to prostaglandins or whjo are pregnant. May cause miscarriage

Drug				
classifications:				
Aminoglycoside antibiotics Class of antibodies including gentament and tobamycin some of which are derived from	Oral route is not recommended. It is poorly absorbed. It is only use for bowel prep prior to surgery to eliminate bacteria or to	Bleeding may occur with oral antibiotic because amino glycoside decrease vit K synthesis in the intestine. Other SE; headache, paesthesia,	BUN CREAT to monitor renal function Bun to Creat ratio 20-1 or 15-1 If creatinin elevated within 3-4 days of	Preexisting renal disease, concurrent order ror renal toxic agent
microorganisms while others are produced synthetically. It is to treat serious life	prevent absorption of ammonia in hepatic encephalopathy Secondary infection	skin rash, fever. Adverse/Toxicity Two most common adverse	treatment. It means renal damage has occurred OTHER ADVERSE	
threatening gram	may cause because of	effect.Nephrotoxicity;	Effect	
negative infetion All aminoglycodside ends Mycin but not all	the damage to normal floral. Candidiasis (skin and	and ototoxicity; Nephrotoxicity; hypotension,	Pseudomembranous colitis; Secondary infection of bowel	
drugs that ends in Mycin are aminoglycosides such	mucous membrane caused by <i>Candida albicans</i>	dehydration, preexisting renal disease and coadministration of other	usually caused by clostridium difficle May be seen 4-6 weeks;	
as (Erythromycin and zetromycin) IM or IV	Thrush, occurs on mucous memberanes of oropharynx	nephrotoxic drug Oto Class of antibodies including gentamein and	watery stool/day with blood/mucous, abdominal pain and	
Molnitor Peak and	bronchi, vagina and anus.	tobamycin some of which are derived from	fever. Discontinue ATB and vancomycin is given	
Traugh 30 min before dose	White plaque; red, scaley, popular skin rash can occur in warm moist dark areas such as	microorganisms while others are produced synthetically. Ototoxicity may not be reversible; dizziness,	PO or Flagyl.	

	in breast folds, axilla,	light headedness, tinnitus		Photosensitivity is
	groin	hearing loss Ototoxicity,		common to both
		Kidney		classes of antibiotics
		toxicity(nephrotoxic),		that it
		kidney toxicity		Aminoglycosides and
		-		Sulfonamides
Sulfonamides:	Treat gram negative	Rash common; most are	Nurse take adequate	In polyurea advance
Antiinfectives.	bacteria. It inhibit folic	urticaria and	amount to fluid 3-	renal or hepatic
Bacteriostatic which	acid synthesis to prevent	maculopapular. Nausea,	4000ml/day to promote	dysfunction or with
action on bacteria results	cell growth. Treat UTI,	vomiting diarrhea, abd	urinary output at least	intestinal and urinary
from interference with	Chlamydia causing	pain, jaundice, stomatitis,	1500ml/d to prevent	blockage, asthma. It
the functioning of	blindness, pneumonia,	HA, insomnia,	crystalluria/stone	increase risk for
enzyme systems	brain abscess, ulcerative	drowsiness, depression,	formation, if not	bleeding with oral
necessary for normal	colitis, active Crohn's	psychosis,	possible, may give	anticoagulant and
metabolism, growth and	disease, rheumatoid	photosensitivity,	antacid or sodium bicarb	increase blood glucose
multiplication	arthritis, nocardosis.	crystalluria.	to alkalinize urine.	with oral antidiabetic
CAUTION: do not use	Given every 8 hours.	Adverse/Toxicity	Alkaline ash diet may be	drugs
in patients with known		peripheral	helpful with include fruit	LABS Bun, Creat,
allergies to sulfa drugs		neuritis/neuropathy,	vegetables and milk	urinalysis to monitor
		tinnitus, hearing loss,	except Plums, prunes	renal function, AST,
		vertigo, ataxia,	cranberries.	ALT to monitor liver
Antibiotic ends with		convulsion, hepatitis,	May be taken after meals	function, CBC to
Mycin,		pancreatitis anemia,	to prolong time in	monitor blood
Micin, and others:		agranulocytosis,	intestine,. Collect C&S	dyscrasias and response
		thrombocytopenia,	prior to beginning	to therapy
		leucopenia, eosinophilia,	therapy provide	
		hypothrombinemia.	hydration, give small	
		Steve Johnson syndrome(frequent meals with high	
		an adverse reaction of	quality proteins; drugs	
		skin that resembles	that may be taken with	
		appearance of partial	food may decrease GI	

		thickness burns	upset	
Thiazide diuretics: (Hydroduril, hydrochlorothiazide (Diuril) non-K sparing diuretic. Has hypotensive effect dilate the vessels and decrease peripheral resistance. Name ends in ZIDE	Act on distal tube inhibit NA-Cl symport leading to a retention of water in the urine and water commonly follows penetrating solutes. Use for edema a hypertension BP above 140/90	Dizziness, vertigo, HA, weakness, dehydration, orthostatic hypotension, nausea vomit, abd pain, diarrhea, constipation, frequent urination, dermatitis and rash Electrolyte imbalance impaired glucose tolerance, jaundice, muscle cramps photosensivitity impotence and hyperuricemia Adverse/toxicity Renal failure, aplastic anemia, agranuloctyosis, thrombocytopenia, anaphylactic reaction	Take early in the day to avoid nocturia and early afternoon to prevent nighttime interruption. Take with food or mild to avoid GI upset. Thiazide is ineffective if creatinin clearance is < 30ml/min TEACH will see effect of hypertensive within 1-4 wks. Eat foods high in potassium, restrict sodium, do not use salt substitute if taking potassium supplement, change position slowly to avoid dizziness and orthostatic hypotension, weigh self daily report sudden weight gains or losses	No Metolazone for children. In clients with anuria LABS may lower potassium may increase urate glucose, cholesterol triglycerides, BUN and Creatinin
Tricyclic Antidepressants Initial mechanism of TCA takes 1-3 weeks to develop. Maximum response is achieved in	Block the reuptake of norepinephrine or serotonins or both, leaving more available in the CNS. It intensify the effect of nor epinephrine and	The most undesirable effect of TCA are orthostatic hypotension, sedation and anticholinergic effects. Urinary retention, overdose may cause	Nurse Taken at nights, it causes sedation. Do not take with MAO it will cause hypertensive crisis from excessive adrenergic stimulation of the heart and blood	Use with caution in pt with Glaucoma, elderly, constipation, prostatic hyperplasia, as they are more sensitive to antichologenic effect Contraindications in

6-8 wks. Has long half life. Tricyclics ends in INE Some meds Pamilor, anafranil, elavil, sinequan tofranil Pam, Anna, and Elavil Sin, To	serotonin which can elevate moodk increase activity and alertness, decrease preoccupation with morbidity, improve appetite and regulate sleep pattern. It is use to treat insomnia, attention deficit/hyperactivity and panic disorder	convulsion. Adverse/toxicity Most serious adverse effect is cardiac toxicity; in the absence of overdose or preexisting cardiac impairment, serious cardiotoxicity is rare. To avoid adverse cardiac effect, pt over 40 and those with heart disease should have baseline ECG and every 6 mths. URINARY RETENTION IS URGENT	vessels, monitor orthostatic BP of pt in hospital TEACH; move slowly when changing position, Advise early of the potential SE and that therapeutic response will take some weeks tobe established, treatment may go up to 6-12 mths. If there is no change in 2-4 wks may think about changing the meds.	hypersensitivity, MI, Cardiovascular disease
Administration routes:				
Sublingual administration				
Eye drop administration	Cleans exudates from eye, tilt head toward side of affected eye, pull lower eyelid down, have pt look up instill drops in sac formed by lower lid (not onto the eye),	Apply gentle pressure for 30 sec to 1 min over inner cantus next to nose this prevents absorption through the tear duct and drainage of the medication. Close eyes gently massage the eyes	EYE OINTMENT Same as eye drop except it is express directly into the conjunctival sac from the inner canthus to the outer canthus, close eyes and gently massage	To distribute the medication

		to distribute the meds.		
Intramuscular injections	Given in the vasuts lateralis in children up to 3	Spread skin taught to bring muscle near surface of skin, with dartlike motion insert needle at 90 degrees	Aspirate to determine if needle enter a vessel. If there is blood return discard the needle and meds and start procedure over.	
Blood administration	Start blood transfusion slow 2 ml/min. Remain with pt for the first 15- 30 min. if there is no sign of side effect, increase rate to the desired rate	Observe for acute reaction such as; allergic, febrile, septic, hemolytic, air embolism, circulatory overload by assessing VS, breath sounds, edema, flushing, urticaria, vomiting, headache back pain.	Observe for delayed reaction. Graft VS host (hemolytic, iron overload, hepatitis,	
Oral administration	Absorbed directly into the bloodstream. Place tablet on floor of mouth, close mouth. Do not swallow, hold under tongue until dissolve.	Use spray on floor of mouth under tongue and close mouth. Buccal place tablet between gum and cheek near back of mouth, close mouth and keep in place until dissolve		
Definitions:				
Paradoxical reaction	A response to a drug that is the opposite to the	Usual response such as agitation produced in an individual patient by a	Drug. Medical treatment , usually a drug, has an opposite	Effect an effect normally expected
Sustained release/time	Pills or capsule	They can often be taken	Contain in a matrix of	so that the drug has first

released/extended	formulated to dissolve	less frequently, keep	insoluble substance	to dissolve in matrix
release/controlled	slowly and release drug	steadier levels of the	(eg. Acrylics) the drug	then exit through the
release/continuous re	overtime.	drug in the bloodstream	swells up to form Gel	outer surface
Osmotic agent	Filtration of large	It inhibit sodium	(eg. Mannitol) there is	It acts by increasing the
(Mannitol and glucose)	amount of substance	reabsorption in proximal	increase excretion of	osmolality of plasma,
Use in oliguria and acute	which cannot be	tubule, descending limb	water and sodium	glomerular filtrate, and
renal failure. Help to	absorbed by the nephron			tubular fluid. This
prevent renal failure and	ONSET 15 min	ADVERSE REACTION	Nurse use IV filter set,	decrease the
reduce increased	PEAK 0.5-2 hours	It expand plasma volume	Monitor I&O. Therapy	reabsorption of fluid and
intracranial or	DURATION 3-10 hrs	resulting in circulatory	is based on urine flow	electrolytes, which
intraocular pressure	Half life 15 – 100	Overload and	rate.	increase excretion of
	minutes.	tachycardia. Electrolyte	Reassure pt that	water, chloride and
		imbalance, cellular	excessive thirst, blurred	sodium and slightly
	Diuresis occur in 1-3	dehydration,	vision, rhinitis should	increase the excretion of
	hrs	extravasations at	subside when mannitol is	Potassium
		injection site, rebound	discontinued	
		ICP 8-12 hrs after		
		diuresis and angina like		
		CP, blurred vision,		
		thirst, urine retention,		
		symptoms		
Epistaxis (due to	Nose bleed. Can be	blood can come up	Treat cauterization	Ice pack to forehead or
rupture of blood vessels	anterior or posterior.	through the eye, can also	with silver nitrate,	back of the neck, pinch
within richly perfuse	Posterior is more	flow down the stomach	calcium alginate mesh,	septal of nose for 5
nasal mucosa	serious.	causing nausea, vomiting	nasal cavity packed with	minutes
spontaneous or initiated			sterile dressing ribbon	Do not pack nose with
by trauma			gauze, absorbent	tissue or gauze
			dressing or saline	
			sprayed into the nose,	
Agranulocytosis/	Acute decrease in the	Drugs and chemicals or	Lymphadenopathy,	radiation

Neutropnea/agranulocyt opnea (treat with broad spectrum pcn, or cephalosporin(piperacilli	no. of granulocytes/lukopnea (WBC) in peripheral blood is impaired resulting from bone	replacement by a neoplasm(oral lesion, ulcer necrotic, gingivitis, buccal mucosa	Imphadenitis are prevalent. It is induce by drug such As sulfonamides, chemotherapy,	Leading to respiratory infection ulceration of mouth colon, high fever, UTI. But may be asymptomatic
n tazobactam,	marrow depression by			
cetazidime, ticarcillin,				
gentgamycin, bone marrow transplant				
Half-lifeThe time it				
takes for a substance to				
lose half of its				
pharmacologic or				
physiologic activity or				
how long the drug takes				
to be metabolized and				
excreted by the body				
Chelating agents	Use in children with led	Dose depends on weight	OTHER AGENTS	
A form of	level between 45&70	of child, severity of the	British antiLewisite	
detoxification, chelating	micron/dl	poison.	(BAL) does not give	
therapy involves an	Ethylenediaminetetraace		with iron supplement	
injection or oral	tic acid (EDTA) bind to	Agent is give every 4	and avoid in pt with	
administration of	lead in blood and	hours for 5 days. A	plant allergy. Give this	
ethylene diamine Tetra	excreted by the bowel	second course ma be	by IM	
acetic avide. A	and kidney. EDTA may	needed if there is a	Succimer (Chemer)	
synthetic amino acid	be toxic to kidney.	rebound in the blood	Chemet Give PO Do not	
atttaches to toxic	Monitor urine output.	level.	give in pt with	
substance such as lead, cadmium, aluminum and	Give this by IV.	Give oral and IV fluid to enhance excretion	encephalopathy	
Cadillulli, alullillulli allu		emiance excienon		

other metal in the blood to facilitate their removal from the body. May be use to treat hardening of the arteries, heart attack, stroke, arthritis and gangrene because of its ability to remove excess calcium from the body.				
Specific Diseases:				
Liver Disease	Hep A cause by RNA virus of enterovirus family. Trnsmit through fecal-oral through ingestion of food or liquids contaminated with the virus. Spread to person by person and through contact, overcrowding, incubate 3-5 wks occurrence in children and young adult. May have no symptoms. Prodomal S/S fatique, anorexia, malaise, HA, low grade fever, nausea vomit. Contagious during this	Hep B. HBcAG found only found in liver cell Transmitted through blood percutanous, permucosal routes. Oral, breast feeding, sexual acativity semen, blood saliva, vaginal secretion. It is the main cause of Cirrhosis. symptom is insisious and prolonged that HAV. May be asymptomatic. 1 wk -2 mths of Prodomal symptom; fatigue anorexia, transient fever, abd discomfort N/V, HA. Hepatic S/S, myalgia,	Hep D virus is a defective RNA and replicate only with Hep B. it requires HBsAg to replicate. Occur with HBV. Cannot outlast a Hep B infection, may be acute or chronic Mode of transmission same as Hep B. occurrence is mainly among IV drug users. Multiple blood transfuse pt. occur in Middle east, south Africa and Mediterranean S/S similar to HBV but more severe. With superinfection of chronic	Hep E Transmit through fecal-oral route. It inconsistently shed in feces and it difficult to detect. Incubation same as Hep A (3-5 wks). Occur in india, Africa, asia, central America, but may found in young adult and more severe in pregnant women

	period usually 2 wks before the onset of jaundice. Symptom milder in children than adult.	photophobia, arthritis, angioedema photophobia rash vasculitis, jaundice in Icteric phase Hep C occur through blood or blood product, IV drug users, sexual intercourse. Incubation period 1 wek to several months S/S similar to HBV but often less severe. Symptoms occur 6-7 wks after transfusion. Some Pt may develop chronic liver disease and some may progress to Cirrhosis.	HBV, carriers cause sudden worsening of condition and rapid progression of cirrhosis	
HIV treatment Antiviral protease inhibitor. Use prophylacatally. Use in combination to decrease viralload and increase CD4. rapidly absorbe from GI tract. Ends in AVIR	Inhibit cell protein synthesis that interfere with viral replication; block protease activity in HIV. Treat aids and aids related complx to decrease viral load M	HA, fatigue, nausea, vomiting, diarrhea, abd discomfort, anemia, taste perversion, asthenia, circumoral paresthesia with ritonivair, Adverse/toxicity Hepatoxicity, reduce dose in liver dysfunction. TEACH Use neutorpenic precautions, eat small frequent meals with	Nurse monitor Hepatotoxicity AST, ALT, bilirubin; observe for nausea, vomiting jaundice upper right abd quad enlarge ement and tenderness Nephrotoxicity; creatinin, BUN, creatinine clearance, urinalysis, keep accuratre I& O monitor for SE of neutropenic,	Not for pregnant or lactating woman

Reverse transcriptase inhibitors: Stop replication/growth. Reduces viral load. One major advantage is that they do not affect adversely affect development of blood cells. Use in combination because resistant strains rapidly evolve if used as single agent therapy. Ends in INE	Use for all symptomatic HIVpt with a CD4 coulnt less than 500mm3. AZT is used to prevent maternal transmission of HIV STOP if severe rsh or other hypersensietivity reaction occurs assess for opportunistic infection (cancer, neurological disese)	complete or complementary proteins	observe occult signs of infection. (lower back, flank or suprapubic pain, normal temp or low grade fever related to UTI), Provide neutropenic care as appropriate	Common meds: abacavir(ziagen) stavudine (Zerit, zidovudine (AZT)
Diabetes treatment in children Hypoglycemic reaction	Have same meal as normal child time intake of food. Eat at the same time each day.	Exercise: do not restrict exercise. Have extra snack before and after exercise. Exercise very	Carry a source of glucose at all times (hard candy, sugar cubes glucose tablets, insta	After glucagons, vomiting may occur. Place child on the side to prevent aspiration.
took place most time	Children can start learn	regularly as it decreases	glucose, the rapid	Preferred way of
before meals or when insulin effect is peaking	to assume responsibility for self management as	the need for insulin	releasing sugar is followed by complex	treating ketoacidosis is by insulin IV of low
First teaching is to tell	soon as age 4-5. At age		CHO and protein such as	dosing. Note. Run a
parent to let child wear	9 they can start giving		slice bread or cracker	mixture of insulin

bracelet or tag. Teaching to give injection. Nurse use NS give parent injection and the parent do the same with the nurse. Inject at 90 degree	their own insulin with supervision. Teacfh only the essentials on the first few visits and intense later. Keep session for children to 14-20 min and adult may go up to 45-60		spread with peanut butter	through the tubing before starting the drip because the insulin can chemically bind to plastic. Replace fluid over 24-48 hrs
Intravenous insulin administration	Can only be done with regular insulin in management of DKA, HHNK.	Premature discontinuation can cause prolongation of DKA. Make sure you institute insulin injection before you stop the infusion if not, there might be prolonged hyperglycemia		
Crack abuse effect on newborns	It crosses the placenta and enter the fetus. Infant may appear normal or develop neurological problem. child may develop depression or excitability, they may be lethargy, have poor suck; hypotonia, weak cry and difficulty in arousing, hypotonicity, rigidity, irritabilisty, inability to console and	Some infant showed late symptoms 2-8 wks. There may be growth retardation, small head decrease birth length, head growth is one of the best indicaton		

	intolerance to change.			
High dose Ibuprofhen	Treat mild to moderate	Other reaction affects the	Increase toxicity of dig,	
therapy. Non steroidal	pain absorbe in GI.	CNS, renal system, eyes.	anticoagulant, lithium	
anti-inflammatory.	Metabolize in liver	Nephrotoxicity,; dysuria,	Nurse report blurred	
		hematuria, oleguria,	vision ringing and	
Therapeutic effect takes		azotemia, blurred vision.	roaring in ear which may	
up to one month			indicate toxicity	
			REPORT change in	
			urine pattern increase	
			weight, edema, increase	
			pain in joints,, fever,	
			blood in urine indicating	
			Nephrotoxicity	
Oxytocin (Pitocin)	To improve uterine	Adverse/Toxicity		
Labor and delivery.	contraction at term ie	subarachnoid bleed,	Nurse monitor uterine	
Only this drug is	only when cetvix is	seizure, coma, water	contraction pattern, fetal	
approve by food and	dialted and presentation	intoxication,	heart rate, and BP.	
administration in this	of fetus has occurred. to	hypertension,	Postpartum; monitor	
class. Administer by	induce or stimulate	arrhythmias, titanic	locjia and BP. Increase	
one route at a time. May	labor, reduce	uterine contractions,	dose only after	
be given after a client	postpartum bleeding,	abruption placentae,	assessing contraction	
had experience	incomplete abortion,	impair uterine blood	FHR, maternal BP and	
incomplete abortion to	challenge test to assess	flow, increase uterine	HR. Do not increase	
help expel the fetus.	fetal distress in high risk	motility, anaphylaxis,	after desired contraction	
Onset is immediate. Half	pregnancy. Use to	anoxia, asphyxia,	pattern is achieved	
life 3-5 min	stimulate the letdown	bradycardia	(contraction frequency of	
	reflex. relieve pain from		2-3 min lasting 60 sec).	
	breast engorgement.		Report sudden HA	

Abbreviations:

Ac -----Before meals Bid----- Two times daily

Qd----- Every day

Tid-----Three times daily

P -----After

IM-----Intra muscular

IV----- Intra venous

Qid-----Every other day

Po-----By mouth

Calculations:

IV drip rates

half life

Drops per minute

Milliliters per dose

Mg/kg/day

Units per hour

Milliliters per minute

Gm to mg------1000mg = 1 gm

Milliliters to liter ------1000ml = 1 liter