Cheatography

Hypertension Meds Cheat Sheet by lizzie.heisler via cheatography.com/87944/cs/20585/

Diuretics (cont)

Angiotensin II Receptor Blockers

Examples Cozaar (Losarten) Atacand (Candesarten) Diovan (Valsartan)

MOA: Prevent action of A-II and produce vasodilation and increased salt and water excretion

Side effects Hyperkalemia Impaired renal function

Drug Interactions: None listed

Nursing Implications Monitor b/p and heart rate Full effect may take 3-6 weeks Watch for hyperkalemia and renal dysfunction

Patient Education

Screening B/P measurement Cardiovascular risk factors

Therapeutic regime Lifestyle modification Medication adherence

Nursing Management

Assessment History and physical exam BP measurement Nursing Diagnoses Ineffective health maintenance Anxiety Sexual dysfunction

Goals Lower BP and enhance patient compliance

Interventions Early identification of medication side effects or complications Patient and family education

Evaluation Achieve and maintain goal BP Understand, accept, and implement therapeutic plan Experience minimal or no side effects

Calcium Channel Blockers

Examples: Diltiazem (Cardizem SR) Nifedipine (Procardia, Procardia XL, Adalat) Nicardipine (Cardene) Verapamil (Isoptin, Calan, Calan SR) Amlodipine (Norvasc)

Mechanism of action: Blocks movement of calcium into cells Vasodilatation, ↓ SVR, ↓ contractility, ↓ HR

Side Effects: Bradycardia, 1st degree AV heart block, nausea headache, dizziness, periphera edema, flushing, rash gingival hyperplasia, and constipation with verapamil.

Adverse drug Interactions: Cautious use in patients with heart failure. Contraindicated in patients with 2nd and 3rd degre heart block.

Avoid grapefruit juice Watch for bradycardia, first degree heart block

Diuretics

Thiazide	Loop
MOA: Inhibit	MOA:
NaCL reabso-	Inhibits
rption in distal	NaCl
tubules. Initial	reabso-
decrease in ECF	rption in the
and sustained	ascending
decrease in SVR.	limb of loop
Lowers B/P over	of Henle,
2 -4 weeks.	Increase
	excretion
	NaCl.
Chlorothiazide	Furose-
(Diuril), hydroc-	mide(
hlorothiazide	Lasix),
(Microzide)	bumetanid-
	e(Bumex)

em I-	Side effects: fluid and E- imbalance, volume depletion, metabolic alkalosis. Vertigo,	Adverse rxn: Fluid and electr- olyte imbalances. Ototoxicity,
ells	headache, weakness. Anorexia, N/V, constipation,	vertigo, Metabolic: hyperurec- emia,
st sea, eral al n	pancreatitis, sexual dysfun- ction, photosens- itivity, decreased glucose tolerance	hyperglyc- emia, inc. LDL and triglycerides and dec. HDL
n d in gree	Drug Interactions: Potentiate digoxin NSAIDS may decrease diuretic and antihyper- tensive effect	Drug Intera- ctions: None listed
	Nursing Consid- erations: Monitor VS , orthostatic hypotension, Monitor for hypokalemia. Teach about supplementation with K+ rich foods	Nursing Intervent- ions: Monitor fluid and E imbalances
n the ng oop		

dverse xn: Fluid ind electrlyte nbalances. Dtotoxicity, ertigo, /letabolic: yperurecmia. yperglycmia, inc. DL and riglycerides ind dec. IDL Drug nterations: Jone listed Jursing nterventons: /lonitor uid and F

Diuretics Potassium Aldosterone Sparing Receptor Blockers MOA: MOA: inhibits Reduce K+ Na+ retaining and Na+ and K+ exchange excreting effects distal and of aldosterone in collecting distal and tubules collecting reduce excretion of K+, H+, Ca+ and Mg+ Amiloride-(Midamor Side effects: Hyperkalemia: N/V, diarrhea, leg cramps, dizziness, Tall t waves Drug interactions: Caution in pts on ACE inhibitors and Angiotensin II blockers avoid potassium blockers supplements

tubules (K+ sparing) Spirolactone(Aldactone Side effects: Hyperkalemia, gynecomastia, erectile dysfunction menstrual irregularity Drug Interactions: Do not combine with K+ sparing diuretics or supplements, cautious use with ACF Inhibitors or angiotensin II

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Diuretics (cont)

Nursing Intervent-	Nurs
ions: monitor for	rsing
orthostatic	Inter
hypotension,	ctior
contraindicated in	mon
pts with renal	orth
failure and	hypo
cautious use in	nsio
pts on ACE	hype
inhibitors and	mia.
Angiotensin II	Inter
blockers. Avoid	ions
K+ supplements	Mon
	fluid

sNug rans nitor for ostatic oteon and erkale-.ing rventhitor and F imbalances

Direct Vasodilators

Examples: Hydralazine (Apresoline) Minoxidil (Loniten) Sodium nitropurusside (Nipride)

Mechanism of action: Relax vascular smooth muscle Decrease SVR

Often given IV for hypertensive crisis

Side Effects: Reflex tachycardia, nausea, flushing, headache, hypotension

Nursing Interventions: Monitor for hypotension and tachycardia

ACE Inhibitors

"pril"

Examples: Captopril (Capoten) Enalapril (Vasotec) Lisinopril (Zestril, Prinivil) Ramipril (Altace) Benazepril (Lotensin) Quinapril (Accupril)

ACE Inhibitors (cont)

Mechanism of action: Inhibits angiotensin-converting enzyme Decreases vasoconstriction and water retention

Side Effects: Cough: 1/3 will develop Hypotension, Dizziness, headache, vertigo Angioedema Photosensitivity Abdominal pain, loss of taste Hyperkalemia: inhibits aldosterone

Drug Interactions: Diuretics enhance effect NSAIDS and ASA may reduce effect Nursing Implications Monitor blood pressure Monitor serum potassium Monitor renal function Antacids may decrease absorption

Beta Blockers

Beta Blockers "-olol"

Metropolol(Lopressor), propanolol(Inderal), carvediol(Coreg) Mechanism of action: Block beta

receptor sites which are responsive to epinephrine and norepinephrine ..

Side Effects Hypotension Headache Fatigue Peripheral edema Erectile dysfunction Diabetics : may mask hypoglycemia Asthma: symptoms to monitor for

Nursing Implications Monitor heart rate and blood pressure Monitor for symptoms of HF

Drug Interactions: cautious use with diabetics and asthma patients

Nursing Interactions: Monitor pulse and BP regularly. IV administration short onset and duration

Hypertensive Crisis

Sudden, severe increase in diastolic BP

Clinical manifestations: Hypertensive encephalopathy Renal insufficiency Cardiac decompensation Neurologic compromise

Hypertensive Crisis: Nursing-Collaborative Management

Hospitalization IV antihypertensive drugs Intensive monitoring Invasive blood pressure monitoring Frequent physical assessments Treatment guided by MAP Use caution not to decrease BP too fast!

Types of Medications

Diuretics **Beta-Blockers** Calcium Channel Blockers ACE Inhibitors ARBs Vasodilators

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