PA LIKE A PRO

DRINKING OUT OF A FIRE HYDRANT: HOW TO STUDY EFFECTIVELY IN PA SCHOOL

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Seems exaggerated. It is, but it isn't. Tons of information. Really fast.

Study for the PANCE from day 1.



You might fail.



FIRST SEMESTER

C on first Anatomy test (barely) Failed first pharmacology test (barely)

Learning Style OLD METHODS MIGHT NOT WORK.

VARK LEARNING TEST

Gain insights to study better

VISUAL

Diagrams, charts, designs, NOT words

AURAL

Lectures, group discussion, speaking, talking

READ/WRITE

Words, Powerpoints, lists

KINESTHETIC

Simulation, video, demonstration, case studies, practice

Multiple times in multiple ways @MASAA98

Be choosy about what resources you use, but go for a multimodal approach to make sure you're seeing that information in different ways.



Study Techniques

REPETITION

Re-listen, write things out, review the day's material and repeat in 24 hours

GROUP STUDY

Talk through concepts, quiz each other, teach each other

Take breaks! Set a timer for study time vs rest time and take away distractions

else

POMODORO

APPLICATION

Practice questions, create charts with highlights, teach someone

Tips



SWITCH IT UP

- Recognize when a study method isn't
- effective, and try something new.

ASK FOR HELP

Classmates, advisors, faculty, friends, family, internet

STICK TO WHAT WORKS

Once you do find a resource or method, use it until it doesn't work.

Don't sacrifice yourself!





SLEEP

Keep a regular bedtime. Will studying another 2 hours to sacrifice really impact your grade?

EAT WELL

Choose healthy foods, and take breaks for meals. Your brain needs fuel!



EXERCISE

Get up and active. Sitting in a classroom and studying all day can be exhausting. Wake up your muscles!

How I Studied

NOTE TAKING

Staying engaged in lecture by taking notes on important points and pearls

STUDY GUIDES

Putting notes into study guide form and sharing with my classmates

REVIEW PANCE RESOURCES

Make sure I was focusing on the most important topics

APPLICATION

Practice questions with explanations and discussing with others

PANCE ENT

rs of the Ears

ring Impairment/loss = acute or gradual onset

Conductive or sensorineural

- Weber test
- Lateralization to affected ear = conductive hearing loss
- Rinne test (sign)
 - Bone conduction > air conduction on affected side = conductive hearing loss
 - Sensorineural defects will have impairment of air conduction and bone conduction, but AC > BC
- Conductive hearing loss = impaired transmission of sound along external canal, across ossicles, and through the oval window
 - Often temporary
 - Increased threshold for perceived sound intensity
 - Possible causes
 - Cerumen impaction = may require removal by irrigation of use of wire loop or cerumen spoon
 - Acute otitis externa = exudate in central canal •
 - Otosclerosis = abnormal new bone formation in oval window = surgery
 - Otitis media
- Sensorineural hearing loss = hearing loss secondary to disruption in nerves or mechanics of hearing
 - Presbycusis = most common cause of sensorineural hearing loss
 - Occurs with age in most people
 - Men > women
 - Probably genetic predisposition
 - May be caused or exacerbated by noise exposure
 - Usually involves higher frequencies
 - May be associated with tinnitus
 - Complaint = difficulty in sound discrimination
 - Tx = may or may not be helped by hearing aids
 - Meniere's disease .
 - Recurrent, usually progressive group of symptoms = acquired hearing loss, tinnitus, and dizziness or vertigo
 - Unknown cause
 - Symptoms from distention of endolymphatic compartment of the inner ear
 - Clinically = hearing loss with episodes of tinnitus, vertigo, and nausea and • vomiting
 - Attacks last from minutes to hours, and unsteadiness may last longer
 - Hearing loss may abate with each attack, but hearing rarely returns to pre-attack level
 - Tx diuretics and salt restriction
 - Possibly surgery
 - Acoustic trauma/chronic noise exposure can cause sensorineural hearing loss
 - Acoustic neuroma (vestibular Schwannoma) = neoplastic cause of hearing loss .
 - Females > males
 - Usually unilateral
 - Patient may present with insidious hearing loss
 - With progressive growth patient may develop tinnitus, vertigo, ataxia, and brainstem dysfunction
 - Dx = CT or MRI
 - Tx = surgical

Drug-Induced hearing loss

AND CALENCE AND A SECOND AND A DOMESTICAL AND A	
ACE inhibitors:	Renin Angiotensin System Blockers
Captopril	Postural hypOtension (requires careful monitoring)
Fosinopril	Renarinsunciency
Enlapril	~ Hyperkalemia
Lisinopril	~ Angioedema
Quinapril	~ Persistent dry <u>cough</u>
Ramipril	**Fetotoxic **- do not use ACE inhibitors in pregos
	CAPTOPRIL = Cough Angioedema Proteinuria Taste changes hypOtension
ARBs:	Pregnancy problems (teratogenic) Rash Increase renin Lower angiotensin II
a total and the second s	~ Similar side effects to ACE
Candesartan	~ NO cough
Telmisartan	**Contraindicated in pregos**
Losartan	and a second second pregos
Valsartan	Cally strate and the second strate and the second strate and
	Beta Blockers
Carvedilol	Contraindicated in asthma, diabetes, severe bradycardia, PVD, COPD
Acebutolol	Taper off to avoid rebound angina or HTN
Atenolol	
Metaprolol	Propranolol = Combine carefully w Verampamil & Diltiazem bc additive negative
Propranolol	ionotropic effects lead to bradyarrhthmias
	Diuretics
Metolazone	Didictics
Bumtanide	HypOvolemia (overdose on loop diuretics)
Furosemide	Furosemide: Hyper/HypO - Calcemia
	Hyper – Glycemia, Uricemia
	HypO – Kalemia, Natremia, Magnesemia
Hydrochlorothiazide	Hyper – Calcemia, Glycemia, Lipidemia, Magnesemia, Uricemia
	HypO – Kalemia, Natremia
	Metabolic Alkalosis
	Muscle weakness
	Pancreatitis
	Vasodilation
	Direct Vasodilators
Diazoxide	Reflex tachycardia
Hydralazine	Toxicity in slow acetylators
nyuralazine	Tachycardia
	HA
	Dizziness
	Nausea
	Sweating
Voraceputs	Flushing
	Nasal Congestion
	Lupus-like-syndrome
linoxidil	Tachycardia
and and a second second	Massive fluid retention
	Hypertrichosis (excessive hair)
	EKG changes
	Pericarditis
odium Nitroprusside	By-product of metabolism is cyanide, which is metabolized by rhodanase to thiocyana
	Cyanide poisoning in pts w poor diets (alcoholics) Drug broken down by UV light – wrap in foil
	- I have device by UV light - wrap in foll

Renin-Angiotensin System Blockers ACE inhibitors: Captopril Fosinopril (M) Vapodilato) Enlapril Lisinopril . Quinapril Ramipril (100) - DYI Candesartan Telmisartan Angiotensin receptor antagonists: Losartan ()() Valsartan - Surtan Beta Blockers -Carvedilol (B & α blocker) Acebutolol Atenolol (selective B1) Metoprolol (selective B1) Propranolol (nonselective B & sympathetic antagonist) Labetalol (nonselective B & selective α 1) Nadolol (nonselective B) Timolol (nonselective B) Diuretics Metolazone Bumtanide Loop Diuretics (Vasodilaturs) Furosemide Hydrochlorothiazide **Thiazide Diuretics Direct Vasodilators** Diazoxide A(MACO H) Arterial Hydralazine Minoxidil Sodium Nitroprusside Arterial & Venous cardiac glycosids long Ionotropic Agents Digitoxin -Amrinone Dobutamine -Digoxin Dopamine Milrinone rinorel Aldosterone Antagonists Spironolactone **Organic Nitrates** Isosorbide Dinitrate Isosorbide Mononitrate Nitroglycerin Amyl Nitrate Ca2+ Channel Blockers - dipine Nitredipine Amlodipine Vermapamil Grunding PINdine Diphenylamide Diltiazem Benzothiazepine Nifedipine Dihydropyridine 1 Nicardipine Felodipine Dihydropyridine 2

DIGOXIN

	Lanovia I
<u>CLASS</u> :	Lanoxin, Lanoxicaps Positive Inotropic againt
ADMINISTRATION:	Positive Inotropic agents – Cardiac glycosides
MUMINIS I RATION:	IV or PO – only good oral inotropic agent Digitalis compounds must be given slowly and in small doses
BINDING:	25% protein bound
METABOLISM:	Small amount metabolized in liver
ELIMINATION:	Majority excreted unchanged in urine
MOA:	Inhibit Na+/K+ ATPase = increase in IC Na+ = decrease in activity for Na+/Ca2+ exchanger in IC Ca2+ = higher amount of Ca2+ present during AP = more forceful contraction Direct electrical effects on heart = decrease in AP duration, ectopic beats, and arrhythmias
CLINICAL USES:	Tx of chronic CHF
	Pts w/ severe left-ventricular systolic dysfunction after initiation of diuretic, ACE inhibitor blocker therapy NOT in pts with diastolic or right-sided HF
<u>AE'S</u> :	Low therapeutic index = high risk Cardiac = AV junctional rhythm, premature ventricular depolarization, AV blockade Noncardiac = nausea, color vision abnormality, anorexia, diarrhea, disorientation, gyneco Hypokalemia can increase the risk of toxicity by worsening arrhythmia Monitor levels in renal insufficiency and adjust dosage if needed Severe toxicity with ventricular tachycardia = give antiarrhythmic drugs and antibodies to (digoxin immune fab) to bind and inactivate drug
<u>T1/2:</u>	1.5 days = short = better Tx of toxic reactions
DRUG REACTIONS:	Digoxin levels in plasma double when coadministered with quinidine Digoxin intoxication can occur with quinidine, verapamil, amiodarone K+-depleting diuretics, corticosteroids, and other drugs can increase digoxin toxicity
ONSET:	20 minutes – more rapid = useful in emergency situations

er = increase on as

tor, & B

comastia

es to digoxin



Claire Babcock O'Connell Thea Cogan-Drew

S. Wolters Kluwer

Mc Graw Hill

LANGE

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WHITE BOARDS

A time proven crowd favorite

Favorite Resources crowdsourced on instagram







PANCE Prep Pearls Rosh Review, Lange Picmonic, Osmosis, SketchyPharm





PACKRAT, Quizlet



Always here to help! @THEPAPLATFORM SAVANNA@THEPAPLATFORM.COM