PA LIKE A PRO

DRINKING OUT OF A FIRE HYDRANT:

HOW TO STUDY EFFECTIVELY IN PA SCHOOL

Savanna Perry, PA-C - The PA Platform

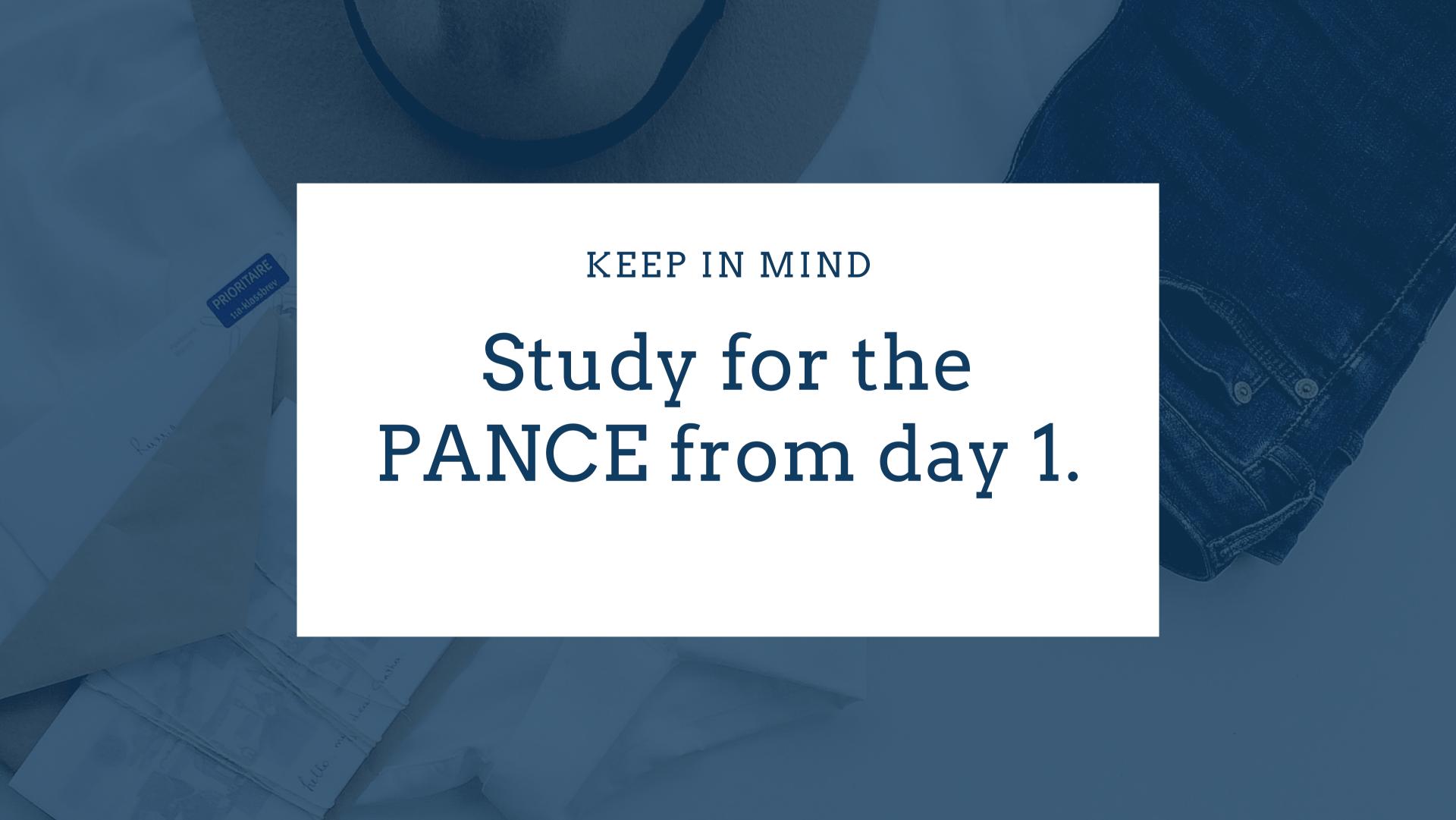




Seems exaggerated.

It is, but it isn't.

Tons of information. Really fast.





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

POMODORO

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

APPLICATION

Practice questions, create charts with highlights, teach someone else



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

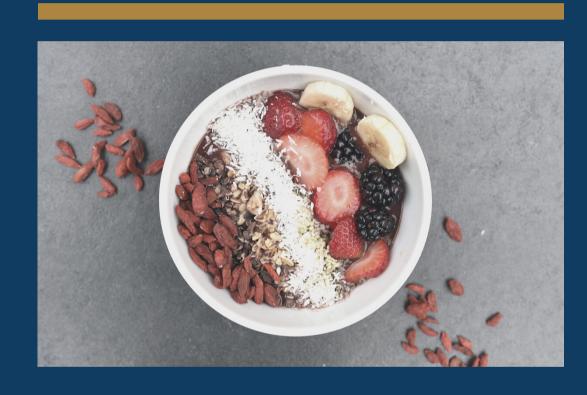
Once you do find a resource or method, use it until it doesn't work.

Don't sacrifice yourself!





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

aring Impairment/loss = acute or gradual onset

- o Conductive or sensorineural
- Weber test

Der test

■ Lateralization to affected ear = conductive hearing loss

ne test (sign)

- o 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
- 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
 - O Attacks last from minutes to hours, and unsteadiness may last longer
 - O 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
- o Drug-Induced hearing loss

	Don't A 1
ACE inhibitors:	Renin Angiotensin System Blockers
Captopril	~ Postural hypOtension (requires careful monitoring)
Fosinopril	inclinating insufficiency
Enlapril	~ Hyperkalemia
Lisinopril	~ Angioedema
Quinapril	~ Persistent dry cough
Ramipril	**Fetotoxic **- do not use ACE inhibitors in pregos
	CAFTORRIL = Cough Angioedema Proteinuria Taste changes hypothesis
ARBs:	Tregnancy problems (teratogenic) Rash Increase renin Lower angiotensis
Candesartan	~ Similar side effects to ACE
Telmisartan	~ NO cough
Losartan	**Contraindicated in pregos**
Valsartan	
Carvedilol	Beta Blockers
Acebutolol	Contraindicated in asthma, diabetes, severe bradycardia, PVD, COPD
Atenolol	Taper off to avoid rebound angina or HTN
Metaprolol	Propranolol = Combine carefully w Verampamil & Diltiazem bc additive
Propranolol	ionotropic effects lead to bradyarrhthmias
	Diuretics
Metolazone	Didietits
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
	Tachycardia
	HA
	Dizziness
	Nausea
	Sweating
	Flushing
	Nasal Congestion
	Lupus-like-syndrome
Minoxidil	Tachycardia
	Massive fluid retention
	Hypertrichosis (excessive hair)
	EKG changes
	Paricarditis
odium Nitroprusside	By-product of metabolism is cyanide, which is metabolized by rhodanase to t
outum Micropi asside	
Odiami	Cyanide poisoning in pts w poor diets (alcoholics)

Drug broken down by UV light - wrap in foil

thiocyanate

Renin-Angiotensin System Blockers ACE inhibitors: Captopril Fosinopril (190) Enlapril Lisinopril . Quinapril Ramipril (100) Candesartan Telmisartan Angiotensin receptor antagonists: Losartan ()() Valsartan - Surtan Beta Blockers - |0) Carvedilol (B & a blocker) Acebutolol Atenolol (selective B1) Metoprolol (selective B1) Propranolol (nonselective B & sympathetic antagonist) Labetalol (nonselective B & selective α1) Nadolol (nonselective B) Timolol (nonselective B) Diuretics Metolazone Bumtanide Loop Diuretics (Vasodilapors) Furosemide Hydrochlorothiazide Thiazide Diuretics **Direct Vasodilators** Diazoxide A(KAC) LI Arterial Hydralazine Minoxidil Sodium Nitroprusside Arterial & Venous cardiac glycosids long Ionotropic Agents -Amrinone Dobutamine 7 Digoxin Dopamine Milrinone mone Aldosterone Antagonists Spironolactone **Organic Nitrates** Isosorbide Dinitrate Isosorbide Mononitrate Nitroglycerin Amyl Nitrate Ca2+ Channel Blockers - dipine Nitredipine Amlodipine Vermapamil amoding Diphenylamide Diltiazem Benzothiazepine Nifedipine Dihydropyridine 1 Nicardipine Felodipine Dihydropyridine 2

Lanoxin, Lanoxicaps

Positive Inotropic agents - Cardiac glycosides

ADMINISTRATION: IV or PO – only good oral inotropic agent

Digitalis compounds must be given slowly and in small doses

BINDING: 25% protein bound

CLASS:

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 = increase

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, & B

blocker therapy

NOT in pts with diastolic or right-sided HF

Low therapeutic index = high risk AE'S:

Cardiac = AV junctional rhythm, premature ventricular depolarization, AV blockade

Noncardiac = nausea, color vision abnormality, anorexia, diarrhea, disorientation, gynecomastia

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

(digoxin immune fab) to bind and inactivate drug

1.5 days = short = better Tx of toxic reactions T1/2:

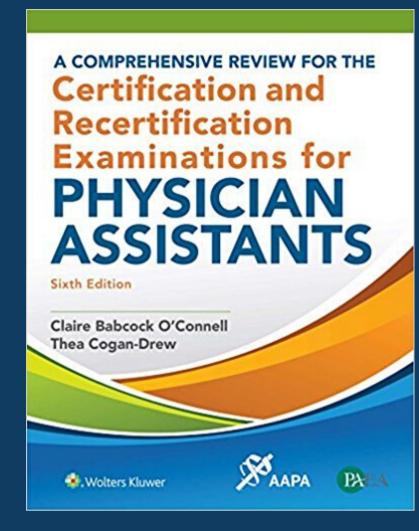
Digoxin levels in plasma double when coadministered with quinidine DRUG REACTIONS:

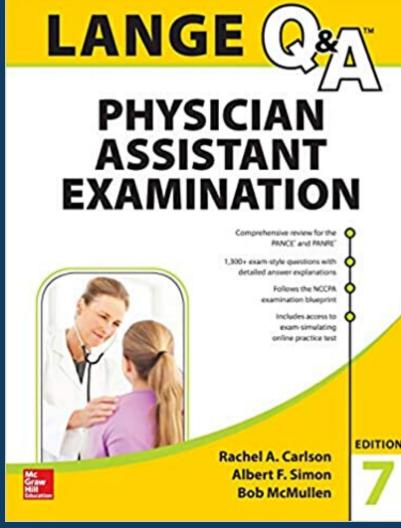
Digoxin intoxication can occur with quinidine, verapamil, amiodarone

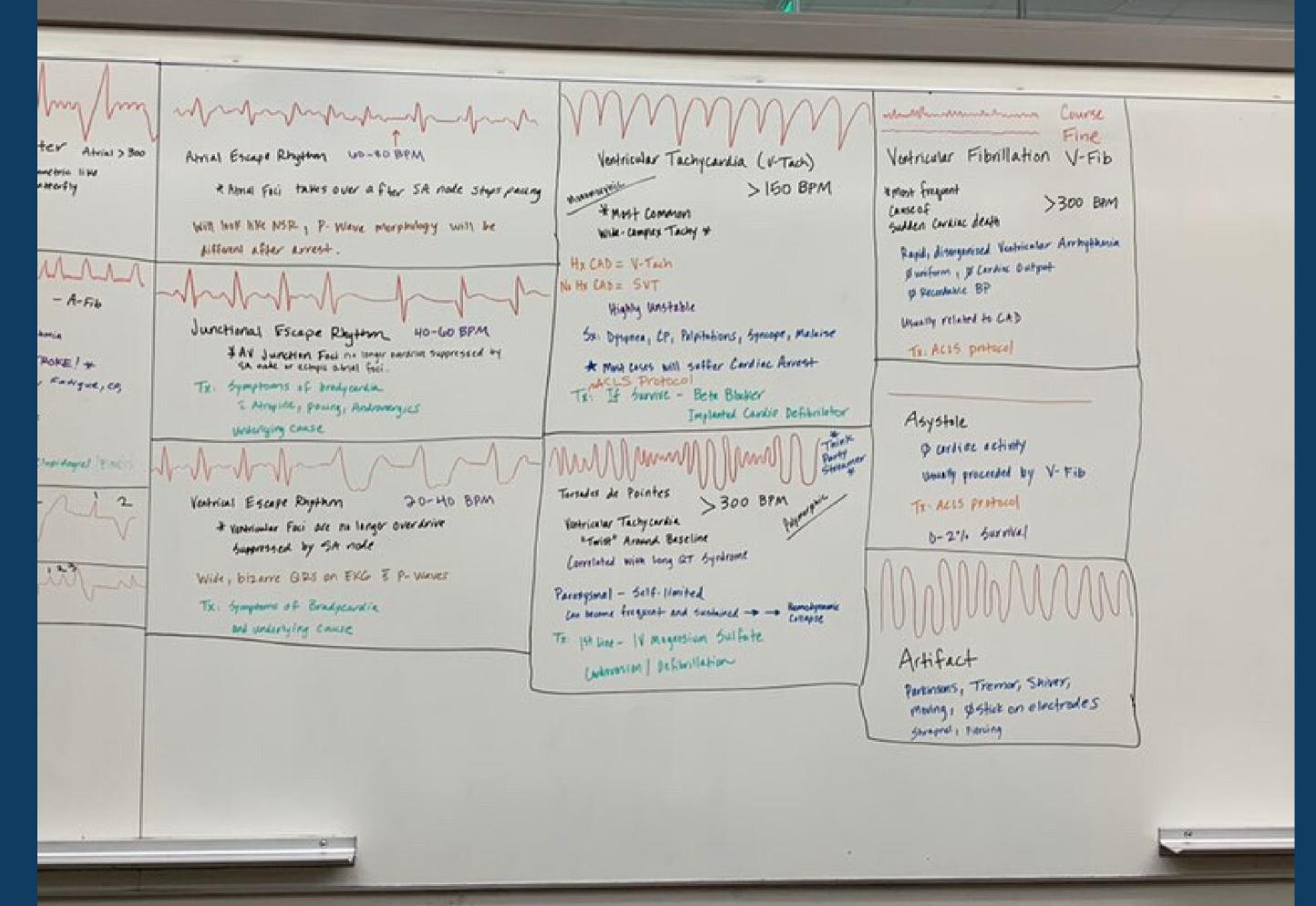
K+-depleting diuretics, corticosteroids, and other drugs can increase digoxin toxicity

20 minutes – more rapid = useful in emergency situations

ONSET:





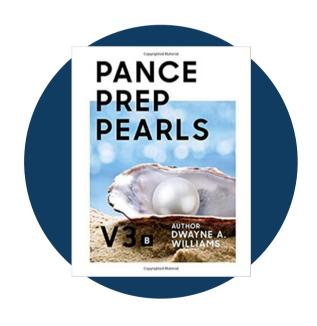


WHITE BOARDS

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!

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