Hypertension "can't have your CAKE
is eat it too" pathophysiology persistent SBP 140 mmHg+ ainica Manifestations persistent DBP 90 mmHg+ pre lite: 120-139 /80-89
stage 1: 140-159 /90-99
stage 2: >140/>100 Often little to no symptoms silent killer Foutique C-CHF Dizziness RISK FOICHOUS Paupations A by Am > stroke Angina K- kidneys - rend failure Age Obesity Dysphea E-eye > retinal damage Ethnicity Alcohol Diagnostic Tests Tobacco use Stress HX and physical baseine BP, family Hx Sedentary vife Diabetes Flerated serum upids

nour forons no access to Tx

1 Na intake socioeconomic LOW VOLLES CBC, BNP 12 read ECG Gender Family Hx UA kidneys involved or affected NVYSING Intervention complications Health promotion diets vitestyle COVONAVY AVTERY DISEASE PRESSURE ON WOMS BP measurement teach pt to take it L. Ventricular hypertrophy overcompensation Nutritional therapy lose weight when how often side effects
Med education compriance C) fail ve compensatory mechanisms overwhelm Cerebrorascular disease attursperasis peripheral vascular disease amasucrosis Monitor for complications Nephroscherosis HTN that causes kidney vessels Treatment Retinal damage en hemorrhage Medications TENCHINA > Beta-adrenergic blockers Angiotensin converting Enzyme Inhibitors Dash diet Dietary Approaches to Stop HTN Home BP measurements Angiotensin I Receptor Blockers Coucium Channel Blockers pine Exercise no high sugar Med education Vasadilators Divretics no high sodium

hta meds

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                    (FOM BOLOSSIAM & THORIM)
             MYDS: LAWEYS BP JOYFAN
      BETA BIOCKEYS (Slows heart fare) - LOL
          Blacks Beats
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             · Bradycardin (Coless)
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              · Breathing Problems (COPDI ASSIMMA)
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 (c) calcium channel Blockers "Clams the heart)
                                  LOW BPI & rate)
       (allumate): Ulbased Issue, carquiten ?
         /limoquors/
 (P) Ohvertics
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                        kt - Washing flygrosmide
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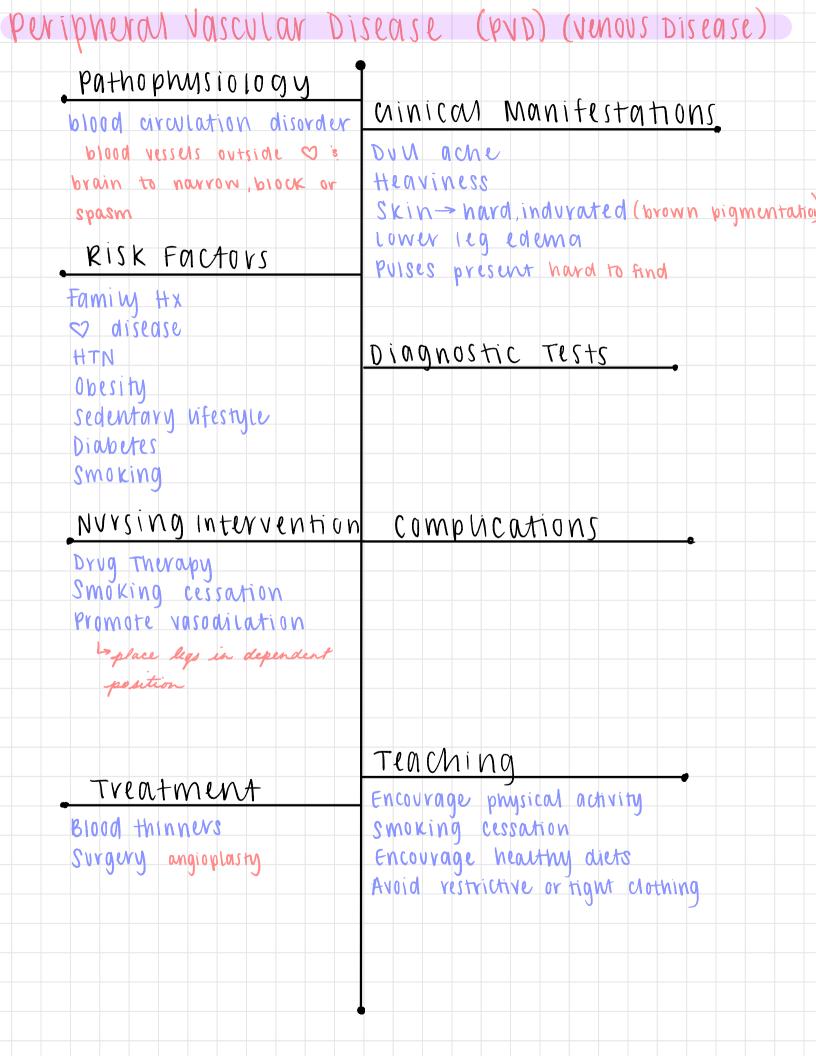
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Anti- clugaing anticy

Anti Platlet (Anti: clumping C. CHANGALLI (CONDON BILEGINA) C MINICIPATUL LOWATING

LOWITAMN (INCT TO XIL)





Venous Thrombo emb	ovism (17E)
pathopmsiology	
formation of thrombus w/ inflammation of vein	ainica Manifestations
3 factors: venous stasis damage of endotherrum	Pain Tenderness n1 palporting
hypercoagrability RISK FOICHOVS	Dilated superficial veins Sense of funness in calf
Age	Paresthesia
Chronic disorders	Marm skin
Obesity Pregnancy	Diagnostic Tests
Oran contraceptives	Blood tests PTT PTINR, D-Dimer der elect
Surgery	Duplex ultrasound
Tobacco use	renggraphy imaging
NVYSING Intervention	complications.
presention	Pumanary emborism
Prophylaxis - Mechanical ambulate	
Assess for complications	la persistent venous obstruction
Monitor for bleeding	
Monitor laws	
Treatment	Teaching
Surgery	Medication compriance
L unfractioned Heparin	Encourage dietary changes
*montor PTT - Hepavin sodium	
LOW MOTECULAR WRIGHT Heparin	
- Enoxaparin (lovenox)	
Vitamin K antagonist Wavfavin (covmadin)	
* monitor PT/INR	

# Simple nulling PAD- PUD BEVOW

# Signs & Symproms

PVD

Periperial Valcums dissasse

1010btaans balks = Moilw 1609

(Blood pooling)

I rrequlary Shaped I ores

No Sharp pain (dull pain)

JEHOMI BROWN OWFIES

Pain : Un pereivia @ per Pho

Parasthesin: tigheling I numbres PAD

Pulses: diminished [Meak

Palay : pale

balar: cold

PONOLY Sis: mabily h more limb

N(IM) : 616 NOTE

Artenes: Hang

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6016M1 - 411 14MD

causious w foot trauma

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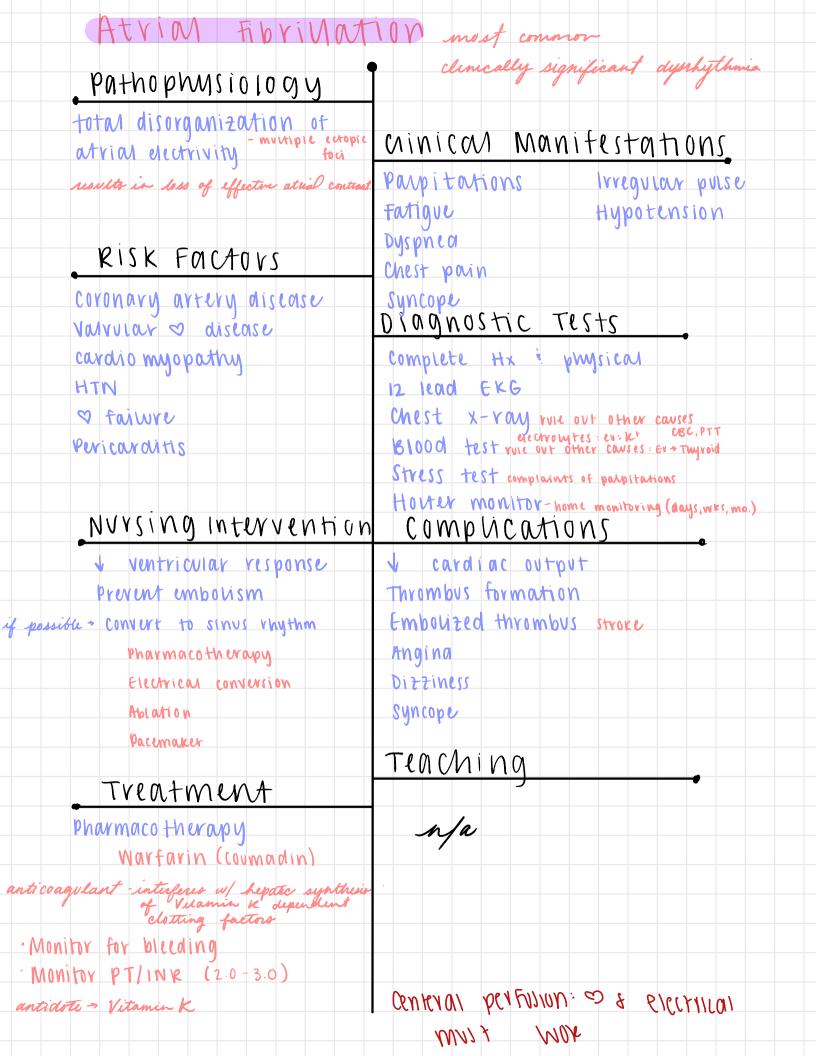
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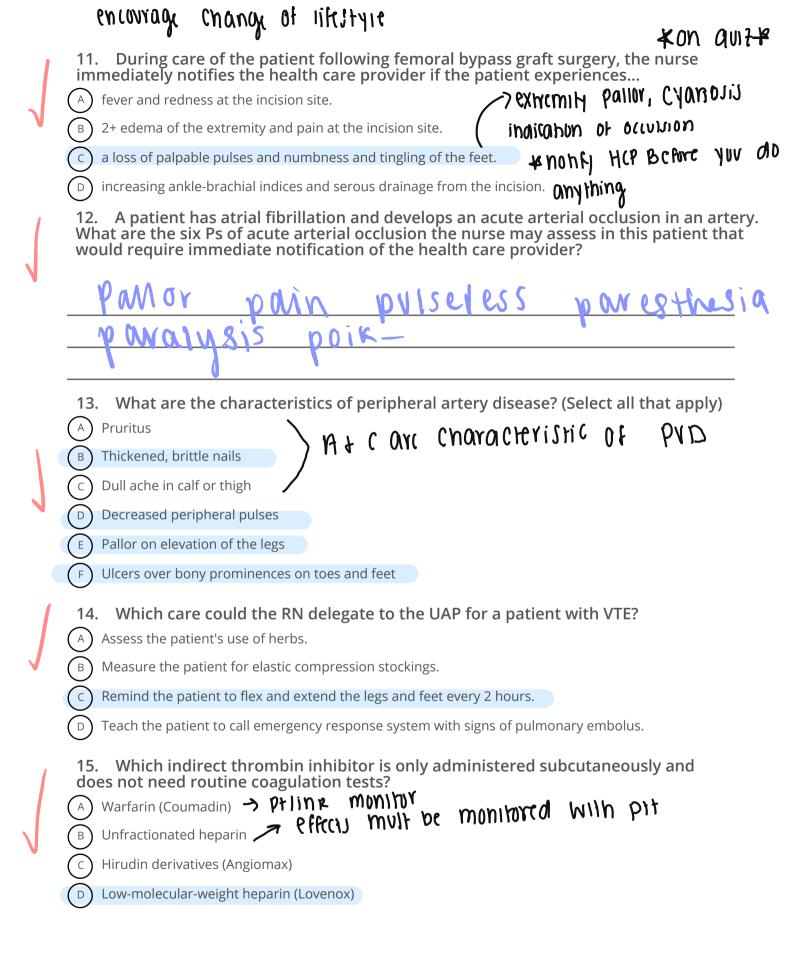
## Tissue Perfusion Quiz

Score:

	1. nu	The client has chronic atrial fibrillation. Which discharurse discuss with the client?	rge te	eachi	ng sh	ould	d the	
	A	Instruct the client to use a soft-bristle toothbrush  Bluod			he		. Ihink	
J	B	Discuss the importance of getting a monthly partial thromboplasting	n time		Bloc		fhinn fr	S
	$\overline{C}$	Teach the client about signs of pacemaker malfunction	Ю	baca	lnt	Bite	ding	
	D	Explain to the client the procedure for synchronized cardioversion		finim ONIM		W	phline	done
1	2. Th	The 66-year-old male client has his blood pressure (Blace BP is 168/98. Which action should the nurse implement Recommend that the client have his blood pressure checked in one				hea	Ith fair.	is a
	A	Recommend that the client have his blood pressure checked in one	e (1) m				116k	,,
	B	Instruct the client to see his health-care provider as soon as possib	le.	Jil	len f	ΚI	117	
	C	Discuss the importance of eating a low-salt, low-fat, low-cholestero	l diet.					
	D	Explain that this BP is within the normal range for an elderly persor	٦.					
1	3. mo	The nurse is teaching a class on arterial essential hypodifiable risk factors would the nurse include when prediction on retinopathy and nephropathy.  Discuss sedentary lifestyle and smoking cessation.	parir <b>m</b> u	ng thi	s pre <b>៣</b> ៤	sent Olif	tation? { <b>%</b> OIC <del> C</del> Y) \$10Y)	Risk
	C	Include discussions on family history and gender.			<b>N</b>	_	J. a.s	
	D	Provide information on a low-fiber and high-salt diet. $Want$	) 10	JM .	201 <i>7</i>	U	A164	
	4. ass	The nurse is caring for clients on a surgical floor. Whice sessed first?	ch cli	ent s	hould	d be		
	A	The client who is four (4) days postoperative abdominal surgery and when ambulating. <b>XUNIARY PAIN</b> IN CAIF WICH			_			?S}
	B	The client who is one (1) day postoperative hernia repair who has juctear amber urine.	ust be	en able	e to vo	oid 55	0 mL of	
,	<u>C</u>	The client who is five (5) days postoperative open cholecystectomy discharged.	who h	as a T	-tube	and is	s being	
	D	The client who is 16 hours post-abdominal hysterectomy and is con is expelling flatus.	mplair	ning of	abdo	minal	pain and	
	5. da	ata should the nurse monitor?			_			-a1
	A	) Blood urea nitrogen (BUN) levels Pt/ink Und h		nihy	y	) 1800	aing tin	MJ
	B	Bilirubin levels With Wattin	<i>ነ</i> ሥ <b>ሩ</b> ላዐ	lbd	,,,,	4	h. k.a.a.	r this
	C	International normalized ratio (INR)	_		*N	((U	h knor	לווון א
		Partial thromboplastin time (PTT) - MONHORO WITH http	11D6					

from the nurse?	immediate intervention
(A) Removing compression stockings before assisting the client to bed.	compression socks should
B Taking the client's blood pressure manually after using the machine.	as work by the While
C Assisting the client by opening the milk carton on the lunch tray.	A . A
Calculating the client's shift intake and output with a pen and paper.	· Ncib? Miju Blood flom bleaup
Calculating the client's shift intake and output with a pen and paper.	C1013
7. What are nonmodifiable risk factors for primary hyper	tension? (Select all that
apply)  Prevalent in men early Imidal	it age
A) Age Women above age 65	U
B) Obesity  African American	
(c) Gender	
D Ethnicity	
(E) Genetic link	
8. What early manifestations is the patient with primary l	hypertension likely to
report?  (A) No symptoms  hyperten sign often	asympum and mild mod.
	·
	rigul, parpahens, angina
c) Dyspuea on exertion Albuso 4 diffiness	
D Dizziness and vertigo	
A patient with peripheral artery disease (PAD) has a nu	
ineffective peripheral tissue perfusion. What should be incorplan for this patient? (Select all that apply)	
Apply cold compresses when the lags become swallen	r shivid be shipped
B Wear protective footwear and avoid hot or cold extremities.	boin occan then con.
(c) Walk at least 30 minutes per day, at least 3 times per week.	dinicologe should be
Walk at least 30 minutes per day, at least 3 times per week.	Allicourse around or
Use nicotine replacement therapy as a substitute for smoking.	NULT COURT NOZO CONTHICHON
Use nicotine replacement therapy as a substitute for smoking.  [E] Inspect lower extremities for pulses, temperature, and any injury.	whe of giometics ywiths  project conthicum  or the contract of the contraction of the con
Use nicotine replacement therapy as a substitute for smoking.    Inspect lower extremities for pulses, temperature, and any injury.	whe of giometics ywiths  project conthicum  or the contract of the contraction of the con
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ampuration Risk: Schile accinative aikak, Not Best approcus Page 2 of 5



16. Which characteristics describe the anticoagulant warfarin (Coumadin)? (Sele all that apply)						
1	A Vitamin K is the antidote VITAMIN & ANTAGONIST					
/	B Protamine sulfate is the antidote antidote for heparin					
	C May be administered orally only administer orally					
	Dosage monitored using INR  E Dosage monitored using PTT - ONLY VKA to MINITUY COAGUIATION WITH heparin					
	17. The patient with VTE is receiving therapy with heparin and asks the nurse whether the drug will dissolve the clot in her leg. What is the best response by the nurse?  # On EXAM *  A "This drug will break up and dissolve the clot so that circulation in the vein can be restored."  B "The purpose of the heparin is to prevent growth of the clot or formation of new clots where the circulation is slowed."  C "Heparin won't dissolve the clot, but it will inhibit the inflammation around the clot and delay the development of new clots."  D "The heparin will dilate the vein, preventing turbulence of blood flow around the clot that may cause it to break off and travel to the lungs."  18. A patient with VTE is to be discharged on long-term warfarin (Coumadin) therapy and is taught about prevention and continuing treatment of VTE. The nurse determines that discharge teaching for the patient has been effective when the patient makes which statement?  A "I should expect that Coumadin will cause my stools to be somewhat black." Gi Bicco  B "I should avoid all dark greens and leafy vegetables while I'm taking Coumadin."  Shouldn' be Intracted dumn increase my venous circulation."  C "Massaging my legs several times a day will help increase my venous circulation."  C "Swimming is a good activity to include in my exercise program to increase my circulation."					
	19. The nurse teaches the patient with any venous disorder that the best way to prevent venous stasis and increase venous return is to  A take short walks.  INCICON THIS GRAVALLY  B sit with the legs elevate. INCICON EdemA  C frequently rotate the ankles.  D continuously wear elastic compression stockings.  20. A 62-yr-old Hispanic male patient with diabetes mellitus has been diagnosed with peripheral artery disease (PAD). The patient is a smoker with a history of gout. To prevent complications, which factor is priority in patient teaching?  A Gender  B Smoking  A Manager Alabert Hyperuniemin are also factors.					
	C Ethnicity D Comorbidities					

21. The nurse is reviewing the laboratory test results for a 68-yr-old patient whose warfarin (Coumadin) therapy was initiated during the preoperative period. On
postoperative day 2, the international normalized ratio (INR) result is 2.7. Which action by the nurse is most appropriate?
A) Hold the daily dose of warfarin.  (A) Hold the daily dose of warfarin.
B) Administer the daily dose of warfarin.    * know for exam
C Teach the patient signs and symptoms of bleeding.
D Call the physician to request an increased dose of warfarin.
22. A 67-yr-old man with peripheral artery disease is seen in the primary care clinic. Which symptom reported by the patient would indicate to the nurse that the patient is experiencing intermittent claudication?  A Patient complains of chest pain with strenuous activity.  B Patient says muscle leg pain occurs with continued exercise.
C Patient has numbness and tingling of all his toes and both feet.
Patient states the feet become red if he puts them in a dependent position. PMC
23. When the patient is being examined for venous thromboembolism (VTE) in the calf, what diagnostic test should the nurse expect to teach the patient about first?
Duplex ultrasound #know this
(c) Magnetic resonance venography  Vin With a Clot will Not Collapse
D Computed tomography venography
24. When teaching a patient about dietary management of stage 1 hypertension, which instruction is most appropriate?
A Increase water intake. <b>KKNOW HIJ</b>
B Restrict sodium intake.
© Increase protein intake. WARY PUNOWS SOOTIUM
D Use calcium supplements.
25. The nurse observes no P waves on the patients monitor strip. There are fine, wavy lines between the QRS complexes. The QRS complexes measure 0.08 sec (narrow), but they occur irregularly with a rate of 120 beats/min. What does the nurse determine the rhythm to be?
A Sinus tachycardia
B Atrial fibrillation with RVR
C Atrial fibrillation with CVR
D Ventricular tachycardia
rentral persolution reavers the hearts physiological t

electrical functions to be intact.

Page 5 of 5



PAIN?

**PULSE?** 

EDEMA?

TEMP?

**COLOR?** 

**WOUNDS?** 

**GANGRENE?** 

**POSITIONING?** 

## PERIPHERAL VASCULAR DISEASE

is\_an\_umbrella\_term\_for...

## **PERIPHERAL VENOUS DISEASE** (PVD)

Dull, constant, achy pain!

May not be palpable

due to edema

Blood is POOLING in the leg

Warm legs

(Blood is warm)

Stasis dermatitis

(Brown/yellow)

Venous STASIS ulcers,

Irregular shaped wounds, shallow

Elevate Positions that make it worse: dangling,

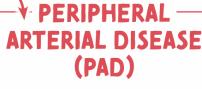
Veins sitting/standing for long periods of time

We have too much blood! Gangrene is

caused by insufficient amounts of blood.

Deoxygenated blood can't get back to the heart.

Pooling of oxygenated blood in the extremities.



Narrow artery (atherosclerosis) where oxygenated blood can't get to the distal extremities (hands & feet).

> Ischemia & necrosis of the extremities

PAIN?

Sharp pain: Gets worse at night "rest pain" Intermittent claudication

BAD"

**PULSE?** 



Very poor or even absent

**EDEMA?** 

NO BLOOD

No blood in the extremities

TEMP?

No blood = cool leg (ool (blood is warm)

**COLOR?** 

Pale, hairless, dry, scaly, thin skin due to lack of nutrients (↓ 0,)

**WOUNDS?** 

Regular in shape, red sores round appearance "punched out"

**GANGRENE?** 



Tissue death caused by a lack of blood supply

**POSITIONING?** 

Dangle arteries



Smoking • Diabetes • High cholesterol • Hypertension

DX: Doppler Ultrasound or Ankle Brachial Index (ABI)

#### TREATMENT -**KEEP VEIN OPEN!**

- Elevate Veins
- Medications
  - Aspirin or Clopidogrel
  - Cholesterol lowering drugs "statin"
- Surgery
  - Angioplasty
  - Bypass (CABG)
  - Endarterectomy

### TREATMENT — GET BLOOD MOVING!

- DAngle Arteries (Dependent position)
- Perform daily skin care with moisturizer
- Stop smoking
- Avoid tight clothing (vasoconstriction)
- No heating pads!
- Medications
  - Vasodilators
  - Antiplatelets









































MED-SURG

CARDIAC

## HYPERTENSION (HTM)

### MOST ACCURATE DIAGNOSIS FOR HTN

CATEGORIES	SYSTOLIC (SQUEEZE)	DIASTOLIC (DECOMPRESS)		
NORMAL	< 120	< 80		
PRE-HTN	120 - 139	80 - 89 90 - 99		
STAGE 1 HTN	140 - 159			
STAGE 2 HTN	> 160	> 100		
HTN CRISIS	> 180	> 120		

### CONGESTIVE HEART FAILURE (CHF)

Overworking of the heart muscle (ventricle enlarges)

**HYPER**tension = **HIGH** BP



#### **STROKE**

Weak & narrow vessels could lead to rupture of vessels



### **RENAL FAILURE**

Too much blood flowing to the kidneys at a fast rate & high pressure



#### VISUAL CHANGES

Damages blood vessels in the retina (blurred vision, can't focus on objects)

## RISK FACTORS

# PRIMARY HTN

Also called **ESSENTIAL or IDIOPATHIC HTN** 

- Cause is unknown
- Not curable, only controllable
- Race (African Americans)
- Intake of Na/ETOH
- **Smoking**
- Low K+ & vitamin D levels

- Family HX
- Advanced age
- ↑ Cholesterol
- Too much caffeine
- Obesity
- Restricted activity
- Sleep apnea

### SECONDARY HTN

- Has a direct cause / preexisting condition
  - Chronic kidney disease
  - Diabetes
  - Hypo/Hyperthyroidism
  - Cushing syndrome
  - Pregnancy
  - Certain drugs (oral contraceptives)

## ~ SIGNS & SYMPTOMS



Commonly called the "SILENT KILLER"

Symptoms: • Blurred vision (if seen)

- Headache
- Chest pain
- Nose bleeds

## CHECKING BLOOD PRESSURE

- → Place stethoscope over brachial artery
- → Patients should not smoke, exercise, etc. within 30 minutes of having their BP checked (could lead to inflated BP)
- → Instruct the client to:
  - Sit in a chair with legs uncrossed
  - Arm at ♥ level
  - Correct size cuff
- → No BPs should be auscultated in arms with:
  - Mastectomy
    - HX of AV shunt
- Too large =

Too small =

false high BP

- Blood clots
- PICC lines/central lines
- - - false low BP

- Limit alcohol intake Smoking cessation

**EDUCATION** 

• Limit sodium intake

- Teach how to measure BP & keep a record
- Exercise programs for weight loss if needed

"ABCD

- ACE inhibitors
- **B** BETA Blockers
- -OLOL
- Calcium Channel Blockers -PINE -AMIL

- Digoxin
- Diuretics

**SUFFIXES** 

-PRIL

**210** 



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127

## Tissut perfusion percin Zision

- CENTERAL PERFUSION. CENTERAL PART OF the CONDUCTION SYSTEM
- PUST Surgical most important to report immediatly if there is No park in the part where the surgery was

JYSTEMIC - CONDUCTION SYSTEM / a CHOIL PUMP OF the hear

Meanted - The or pro 100k on areas that are affected

hypertension: Jilent killer

- · long standing HtN has many complications
  - · Understand the implications of giving hypertensive Madications

## DAG

many factors that cause atherioscrusis

ר אחוואט אונאנא אחוויאוו

L) proactive leg cares

LY EXICULIX WITH INKIMITANT CLAVORICATION

Lypain wim lack of BIOOD from to a extrimity

· Medicanons

Ly Plavix & ASA (aspnn)

Lyknow must common antiplatiet medications

## Mr. rems ochmosom : Hr

- · known as dut
- · COMPLICATION: PULMONARY EMPOULLY
  - · UNATIVA INHAMANDADI
    - Ly prevent: mechanical & medication)
    - L) MICAT: MEDICAHONS & SURDEM

1) monitor by Breating

· mcdicanun (

L) MCPQ1111 (PIT)

L) enoxapanin

4 Warfarin: Pt link (2-3 is theraputic Range)

## Atrial dyspythmins

· Complications: Emmolited Stroke

· COUCI

LIDECTICATE VONTICUIAR PEIDONE

Ly prevent embolism & anticoaquients

Ly convert to Jinui Phythm

· A fWHEY, JUT, PAC'S

L) COYDIAC OUTPUT CONCEYNS

Which nursing action can the nurse delegate to a upp working as telegate to a upp working

- observe cardiac enythms for multiple complaines

the propertion for his pro with hyperknown which pt should be askilled with first?

- a pt in 160192 who is complaining of CP

the nurk 11 completing a him severning which of the following would increak tilk of Hin

- quinkind 30 of Been

the PN 13 teaching a Pt Will PAD. Which Statement indicates further teaching is needed?

- i should our back on walks pain in my legs
- pert pain is an assessment finding on PAD due to
  - decrease in Atrial Blood from to the herves of feet
- a more is asserting a pt who has enrunic pro which of the
  - bolled on sknotlan of limps of snoon on limps or limbent

a nurse report Immedaty

- a sudden incicar in oxygen need

- a pt who smokes t takes a oral contraceptive

what Statement by the Pt Indicates that Futher teaching about coumadin is needed?

montarin will disolve my clut

a nurk is caring for a pt wim a vie & taking hepann, thu days
the provider also presented warting. The pt assorbections the hepane which is consect

ONCH NEPARN WILL BEFOR MURAPHAL EFICE OF MARFAILIR ONE ACTIVITY