

# 5002 Case 12 Cheat Sheet

by bee.f (bee.f) via cheatography.com/180201/cs/38707/

#### Case

- 80 y.o., pensioner
- Pain in R leg
- Onset 4 months ago
- Pain comes on about half way through his walk to shop (400m), eases off if he sits for a while, then able to resume
- Same thing happens on way back
- 'Cramp-like' sensation
- ABPI (diagnosis PAD): 0.8 (results last week)

AF: walking

RF: sitting

AA: walking to shop

#### **Extras**

- Hypertension since 55 y.o.
- Hypercholesterolemia diagnosed 10 yrs ago
- Coronary angioplasty 2 yrs ago (following episodes of angina)
- Aspirin (300mgs/day; NSAID)
- Atorvastatin (prevents cardiovascular disease in high risk pts)
- Lisinopril (treats high BP)
- Smoked 20/day since teens
- Drinks pint of ale most nights
- Lives alone (wife died 2 yrs ago)
- 2 children who he doesn't see often
- Doesn't enjoy eating much anymore now he is on his own

## Physical Examination Findingscal

**BP**:R+L 160/100

## General observations

- Looks underweight
- Feet look pale & feel cool to the touch
- No swelling in legs

## Skin

- Nicotine staining on fingers from smoking

### Chest, cardiovascular & respiratory

- Bruit (partially occluded artery) one the R femoral artery

#### Peripheral inspection & pulses

- Diminished dorsals pedis \* posterior tibia's pulses in the R leg

#### Clinical tests

- Good ROM at the hips & knees
- Full Lx ROM
- Feels muscle stretch behind knees on full flexion

## Discussion

## Working diagnosis

- Peripheral Arterial Disease (PAD)
- Non-MSK
- Vascular w/ key Hx findings being cramping pain
- AF: set distance
- RF: sitting
- ABPI: 0.8, which supports working Dx
- Several risk factors for PAD including existing CV disease & being a heavy smoker & drinker
- Feet look pale & are cool: suggests that PAD is more advanced than the ABPI suggests
- Diminished pulses in LL w/ bruit over R femoral artery

#### Yellow flags

- High blood pressure
- Underweight
- Nutritional status
- Limited social interactions / social isolation
- Possible depression

## **Learning Outcomes**

## Understand Peripheral Arterial Disease (PAD)

- Describes stenosis/occlusion of peripheral arteries, affecting blood supply to extremities, usually LL
- Commonly caused by atherosclerosis
- ☐ Acute limb ischemia:
- Sx & Ssx develop over <2 weeks
- Sudden onset leg pain
- Sudden deterioration of claudication, associated loss of pulses &/or pallor
- Coldness/cyanosis of limb
- Loss of motor/sensory functions
- ☐ Chronic limb ischemia:
- Progressive development of **cramp-like** pain in calf, thigh or buttock (atypical terms: tired, giving way, sore, hurts rather than describing cramp)
- LL pain on walking/exercise, relieved by rest
- Unexplained leg/foot pain
- Non-healing wounds to LL
- ABPI 0.0-0.4
- ☐ Risk factors:
- Smoking
- Drinking
- Hx of CV disease
- Diabetes mellitus



By **bee.f** (bee.f) cheatography.com/bee-f/

Published 23rd February, 2024. Last updated 15th May, 2023. Page 1 of 4. Sponsored by **ApolloPad.com**Everyone has a novel in them. Finish
Yours!
https://apollopad.com



- Risk: pregnancy, family Hx of varicose veins

## 5002 Case 12 Cheat Sheet by bee.f (bee.f) via cheatography.com/180201/cs/38707/

## **Learning Outcomes (cont)** Differentiate vascular from neurogenic claudication ☐ Vascular claudication: - Caused by reduced blood flow to LL → Sx & Ssx: - pain in calves, thighs, or buttocks - Pain during walking/exercise - Relieved by rest - 'Cramping' or 'burning' sensation - Legs may feel cold, numb, or weak - Visible signs of poor circulation: skin may appear paler blue, slow wound healing - Absent/poor LL pulses ☐ Neurogenic claudication: - Caused by nerve compression/damage in lower back → Sx & Ssx: - Pain inlayer back, buttock, legs (above knees usually) - Aggravated by standing & walking - Relieved by sitting or leaning forward - 'Deep ache' or 'numbness' sensation - Associated tingling, weakness, shooting pains in legs ☐ Investigations: - Ankle-brachial index test (ABPI): evaluate blood flow to the legs - Electromyography (EMG) or nerve conduction studies: evaluate nerve function - MRI or CT: evaluate the spine & surrounding structures Differentiate PAD from other vascular disorders □ PAD: - Pain in the calves, thighs, buttocks - Pain during walking/exercise - Improves w/ rest - Other Sx: numbness, weakness, coldness - Skin may appear pale, shiny, discoloured, cool to touch - Hair loss/slow growth - Slow wound healing - Ulcers/sores □ DVT: - Pain unilaterally - Other Sx: swelling, redness, warm area - Aggravated by standing/walking - May not improve w/ rest - Skin may appear discoloured, veins visible on skin surface - Risk: Hx immobility, surgery, family Hx of clots ☐ Chronic Venous Insufficiency (CVI): - Pain, fatigue, heaviness in legs - Swelling, possible varicose veins - Skin appeared thickened, discoloured - Pain worse w/ prolonged standing/sitting, may improve w/ leg elevation

#### How to interpret ABPI?

- <0.5: suggests severe arterial disease
- 0.6 0/7: suggest presence of arterial disease or mixed arterial/venous disease
- 0.8 1.3: suggest no evidence of significant arterial disease
- ->1.3: may suggest presence of arterial calcification (such as pts w/ diabetes, RA, systemic vasculitis, atherosclerotic disease, & advanced chronic renal failure)

#### Differentiate typical from atypical cramp

#### ☐ Typical cramp:

- Often occur in legs (esp. calves), feet, hands
- AF: during/after exercise & may be related to muscle fatigue or dehydration
- RF: stretching or massage
- Last up to 10 min
- Doesn't usually occur frequently or interfere significantly w/ ADL

## ☐ Atypical cramp:

- In any muscle, including those not typically affected by cramps
- Occur without obvious trigger / after minimal activity
- Accompanied by other Sx: weakness, stiffness, twitching
- May last longer, & feel more severe
- May occur frequently or interfere w/ ADL

#### AECC clinic risk management for hypertension

- <140/90: no action required
- 140/90 <160/100: BP to be measured at next follow-up appt; Letter to GP within 1 week if still >140/90
- 160/100 <180/110: Tell pt to see GP within 1 week; Tutor send letter to GP within 48hrs; BP to be measured at 1st follow-up appt
- >180 systolic OR >110 diastolic: Floor tutor check BP manually; tutor tell pt to see GP the sea day; Tutor to follow up GP letter same day

#### Screening questions fro depression

- 1. During the last month have you often been feeling down, depressed or hopeless?
- 2. During the last month have you often been bothered by having little interest or pleasure in doing things?

## IF ANSWER 'YES' TO ONE/BOTH, FOLLOW UP WITH:

- During the last month, have you often been bothered by:
- 3. Feeling bad about yourself or that you're a failure or have let yourself or your family down?
- 4. Poor concentration?
- 5. Tiredness/ low energy levels?
- 6. Changes in appetite (reduced or increased)?
- 7. Changes in your sleep pattern (sleeping too much, problems getting to sleep, waking in the night or waking early)?
- 8. Being so slowed down, or so restless/fidgety, that other people have noticed?
- 9. Thoughts of death?



By **bee.f** (bee.f) cheatography.com/bee-f/

Published 23rd February, 2024. Last updated 15th May, 2023. Page 2 of 4. Sponsored by **ApolloPad.com**Everyone has a novel in them. Finish
Yours!
https://apollopad.com