

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



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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	
\rightarrow 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 in the calves, thighs, buttocks - Pain during walking/exercise	
- Pain in the calves, thighs, buttocks- Pain during walking/exercise- Improves w/ rest	
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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?



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