

# 5002 Case 5 Cheat Sheet

by bee.f (bee.f) via cheatography.com/180201/cs/38612/

## Case Hx

- 62 y.o.
- Neck & L arm pain
- L pectorals area & down L posterior arm
- L first 3 fingers

#### Onset

- Pushing a washing machine 6 weeks ago

## Neck & shoulder

- Deep achy pain
- Hand feels numb & bit weak
- 7/10

## L first 3 fingers

- Numb & sometimes tingly

AF: Working overhead, shaving, & circling head

- RF: Massaging forearm & triceps / raising arm / naproxen relieves pain

#### **PMHx**

- Diagnosed w/ high BP (2004)
- Recent spell of dizziness

### Medication

- Naproxen
- Atenolol (β blocker)

## **Physical Exam Findings**

## **ROM Cx**

- AROM: pain + restriction
- PROM: L + R rotation pain + restriction
- PROM: pain on extension

## Clinical tests

- Cx maximal compression test: arm pain + numbness in L hand
- Cx distraction: relieves pain (nerve root compression)
- Doorbell sign: discomfort bilaterally
- Shoulder abduction test: relieves pain w/ L hand on head
- Shoulder depression: L pain
- TOS: negative
- Romberg: negative
- Median tension test: R uncomfortable, L POC
- Ulnar tension test: R uncomfortable, L POC
- Radial tension test: L POC

## TTP (tender to palpation) + hypertonic

- L traps
- Levator scapluae
- Rhomboids
- Scalenes
- Pecs

## Spinal palpations:

- C5-T1 TTP & restricted
- T6-T7 restricted extension

## Working diagnosis

- C7 radiculopathy (combination of muscle weakness seen) + potential associated degenerative change (based on age) & potential pre-existing (asymptomatic) disc herniation
- Traumatic sprain / strain event causing the overall symptoms we see now

### NICE guidance

- Refer for MRI & consideration of invasive management options (most pts w/ Cx radiculopathy don't need surgery)
- Conservative management:
- Can be considered while pt is waiting for further investigation
- Need to closely monitor neurological status
- Main concern: weakness & long-term impact on pt's ADLs
- Pt should contact GP again to discuss pharmacological options

### Less likely Dx

- TOS: possible from Hx but less likely as no reproduced symptoms in physical examination
- Peripheral nerve entrapment (median / radial): depending on the location of the entrapment, less likely to explain the whole presentation & the symptoms being aggravated by max. Cx compression & relieved by Cx distraction suggest root involvement
- Sub-acute Cx spine sprain / strain: may be initial onset of symptoms, it doesn't explain the current neurological picture
- Non-specific neck pain w/ associated myofascial involvement: \*could account for part of the presentation but doesn't explain the objective neurological deficit (comment have mechanical & myofascial involvement in pts w/ radiculopathy)\*

### Important not to miss

- Cardiac causes & apical lung tumour: unlikely given the whole clinical picture, including all Hx & physical examination findings
- Cx radiculomyelopathy: should be considered in any pt w/ neck & arm pain, especially older pts

Separate complaint of momentary dizziness: after getting up quickly from a stooped position

- Most likely due to postural hypotension (aka. orthostatic hypotension)
- Could be cervicogenic & important not to miss (causes would be vascular)



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#### Learning Outcomes

Local mility of discounted
Presentations of C6, C7 & C8 radiculopathy (nerve root)
□ <i>C6</i> :
- Radiating pain down the arm to the thumb & index finger
- Weakness in the biceps & wrist extensors
- Tingling or burning sensations in the fingers
- Difficulty w/ fine motor skills (buttoning a shirt or holding small objects)
□ <i>C7</i> :
- Radiating pain down therm to the middle finger
- Weakness in the triceps & wrist flexors
- Tingling or burning sensations in the middle finger
- Difficulty with grip strength & hand dexterity
□ <i>C8</i> :
- Radiating pain down the arm to the ring & little finger
- Weakness in the hand intrinsic muscles
- Tingling burning sensations in the ring & little fingers
- Difficulty w/ fine motor skills (typing or writing)
Presentation of median & radial nerve entrapment
☐ <i>Median nerve:</i> (aka. carpal tunnel syndrome)
- Numbness, tingling, or burning sensation in the thumb, index, middle, & half of the ring finger
- Weakness in the hand, especially the thumb, making it difficult to grasp objects or hold into things
- Pain in the wrist &/or forearm, which can be worse at night or during repetitive tasks
- Feeling of clumsiness or a tendency to drop things
☐ <i>Radial nerve:</i> (aka. radial tunnel syndrome)
- Pain or tenderness in the forearm or elbow, which can be worse when bending the wrist or fingers back or rotating the forearm
- Weakness in the wrist or fingers, making it difficult to grip or hold onto things
- Numbness or tingling sensation in the back of the hand, or the thumb, index, & middle finger
- Feeling of weakness or inability to extend the wrist or fingers
Differentiate between radiculopathy & peripheral nerve entrapment presentations
□ Location of symptoms:
- Radiculopathy: usually causes symptoms in specific area of the arm or hand that corresponds to the location of affected nerve root (e.g. C6
causes Sx in neck, shoulders, & arms, while C8 causes Sx in the ring & little fingers)
- Peripheral nerve entrapment: causes Sx in specific nerve distribution in the arm or hand (e.g. carpal tunnel syndrome causes Sx in the thum
index, middle, & half of the ring finger)
□ Pattern of Sx:
- Radiculopathy: usually causes Sx that radiate along a specific nerve pathway (herniated disc causing C6 radiculopathy can cause pain that
radiates down the arm to the thumb & index finger)
- Peripheral nerve entrapment: Usually causes Sx in a more localised area (carpal tunnel syndrome usually causes pain, numbness, & tingling
in the thumb, index, middle, & half of ring finger)
□ Onset of Sx:
- Radiculopathy: usually develops gradually over time (herniated disc may take weeks or months to cause noticeable Sx)
- Peripheral nerve entrapment: can develop suddenly or gradually (carpal tunnel syndrome can develop suddenly due to repetitive hand
movements or wrist injury)
□ Association w/ other conditions:
- Radiculopathy: often associated w/ other spinal conditions (e.g. herniated discs, spinal stenosis, or degenerative disc disease)
- Peripheral nerve entrapment: can be associated w/ activities or conditions that put pressure on the nerves (e.g. repetitive hand movements,
wrist injuries, or certain medical conditions like diabetes)
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☐ Conservative management:			
- Rest			
- Manual therapy			
- Medications			
- Heat & ice therapy			
☐ Invasive management:			
- Epidural steroid injections			
- Surgery			
☐ Lifestyle changes:			
- Maintaining good posture & body mech	anisms		
- Exercise			
- Maintaining a healthy weight			
Different types of TOS, how it's diagnose	d & managed		
□ Neurogenic TOS:			
- Compression of brachial plexus			
- Shoulder, arm, & hand			
☐ Venous TOS:			
- Compression of subclavian <b>vein</b>			
- Blood vessel that carries blood from arm to heart			
□ Arterial TOS:			
- Compression of the subclavian <b>artery</b>			
- Blood vessel that carries blood from heart to arm			
□ Diagnosis:			
- Combination of medical Hx, physical examination, & diagnostic tests			
- Tests: x-rays, MRI or CT scans, EMG, or nerve conduction studies			
□ Management:			
- Conservative management: manual therapy, medications, lifestyle modifications			
- Invasive management: surgery, vascular procedures (angioplasty or stenting)			
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Management of pts w/ radiculopathy

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## Learning Outcomes (cont)

Presentations for MI, angina & apical lung tumours
☐ MI (blood flow to heart is blocked, damage or death of heart muscle):
- Chest pain or discomfort (pressure / tightness in the chest)
- Pain or discomfort in the arms, neck, jaw, back, or stomach
- SOB
- Nausea / vomiting
- Sweating
- Feeling lightheaded or dizzy
☐ Angina (chest pain that occurs when heart muscle don't get enough blood flow / oxygen):
- Pressure or squeezing sensation in chest
- Pain or discomfort in the arms, neck, jaw, shoulder, or back
- SOB
- Nausea / vomiting
- Sweating
- Feeling lightheaded or dizzy
☐ <i>Apical lung tumours</i> (lung tumour that grows in the apex of lung):
- Chest pain
- Coughing up blood
- SOB
- Hoarseness or difficulty speaking
- Fatigue or weakness
- Loss of appetite or weight loss
- Swelling of the face, neck, or arms
Postural hypotension (aka. orthostatic hypotension)
□ Definition:
- Drop in BP (≥20 mm Hg systolic and/or ≥10 mm Hg diastolic) that occurs within 3 minutes of standing
□ Mechanism:
- Normally, when person stands up, body compensates by increasing HR & constricting blood vessels to maintain BP $\rightarrow$ if postural hypotension,
compensatory response is inadequate, leading to drop in BP & reduced blood flow to brain
□ Symptoms:
- Dizziness or lightheadedness
- Fainting or near-fainting
- Blurred vision or tunnel vision
- Nausea
- Fatigue
- Headache
☐ Causes:
- Dehydration
- Medication side effect
- Diabetes
- Nervous system disorder
- Aging
☐ Treatment* (depends on underlying cause):
- Lifestyle changes: staying hydrated, standing up slowly, wearing compression socks
- In some cases, medication adjustments



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