## **Cervical disc prolapse**

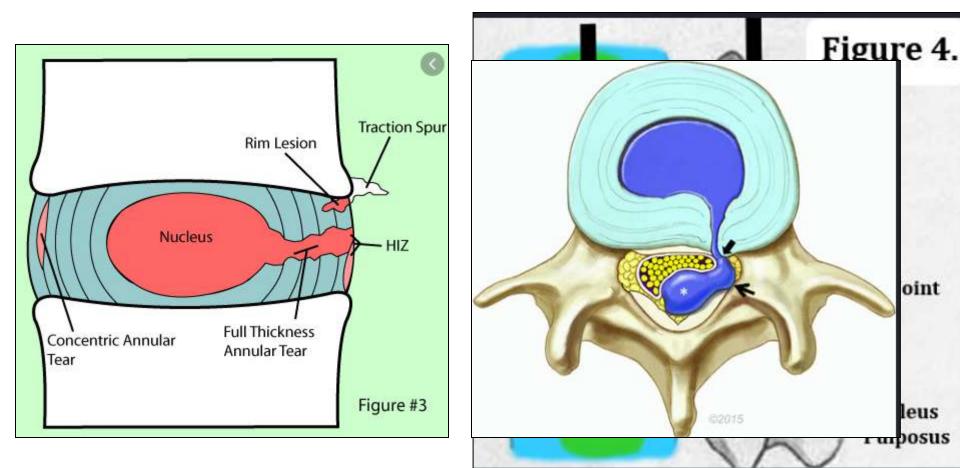


Dr.C.S.Vishnuprasath.,M.S.,DNB.,FNB(Spine)., Consultant spine surgeon, SKS Hospitals, Salem.

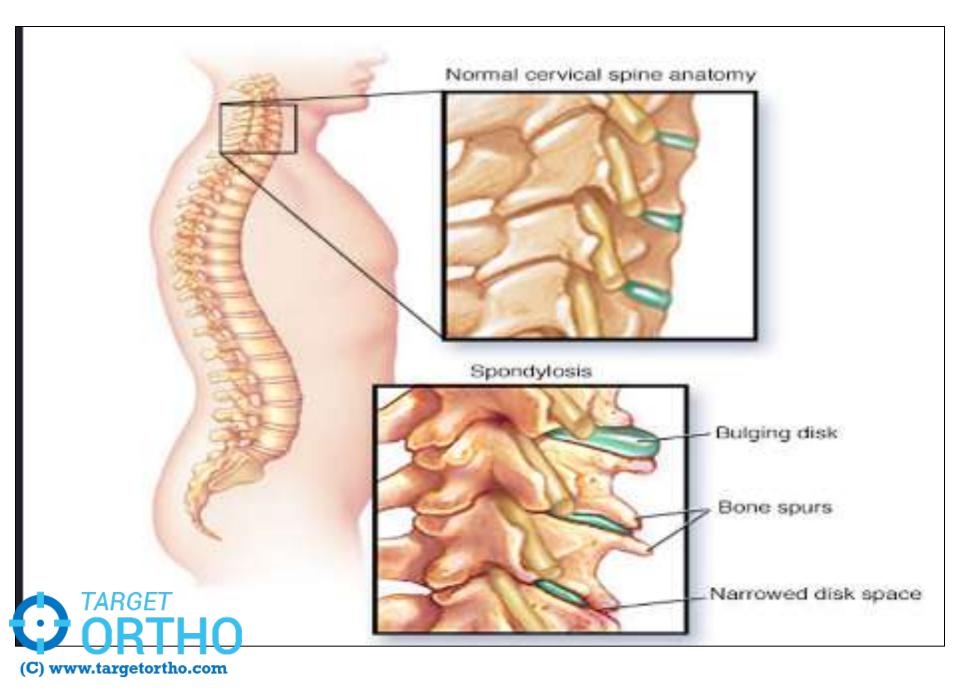
## Disc prolapse more common in lumbar & cervical spine

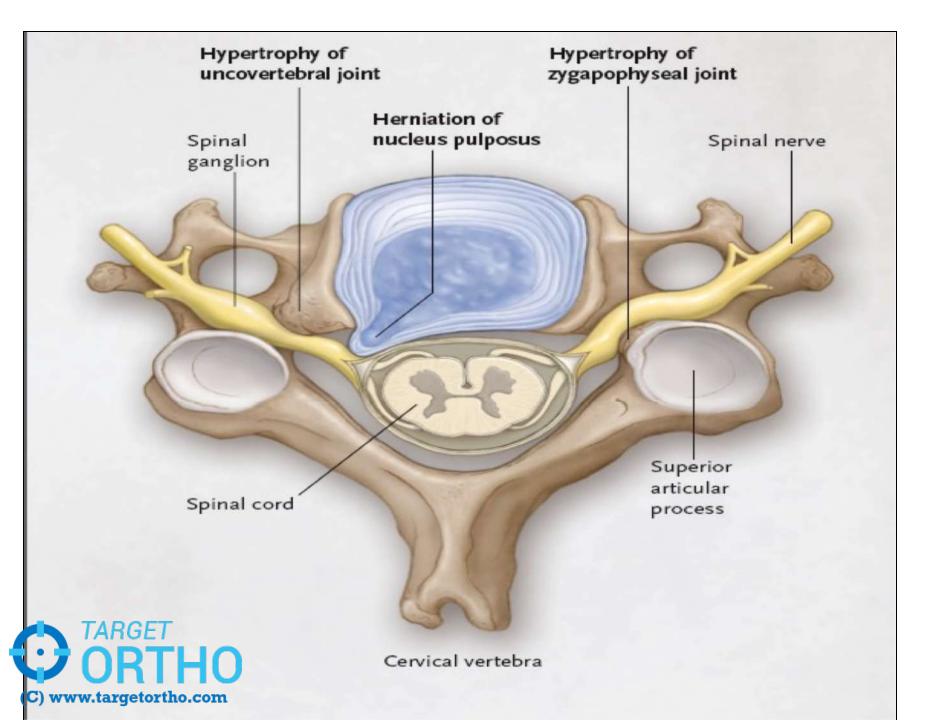


## **Disc prolapse**









• Acute cervical radiculopathy- soft disc herniation in younger age group individuals.

 Subacute radiculopathy- preexisting cervical spondylosis- polyradicular in nature

### • Chronic radiculopathy.

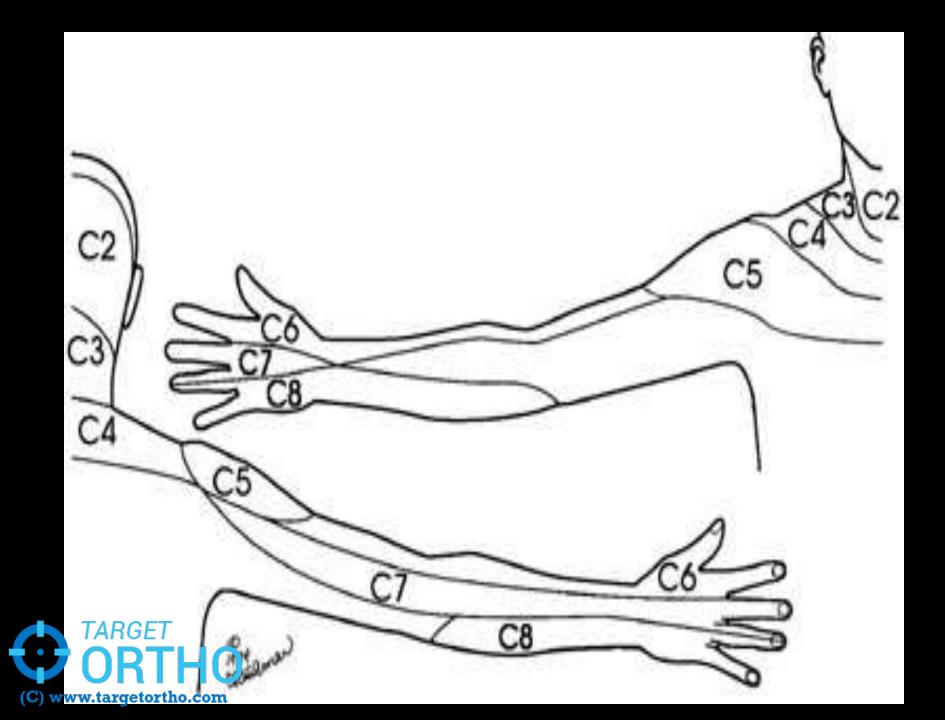


• Radicular arm pain- restless arm

Axial neck pain

Motor weakness



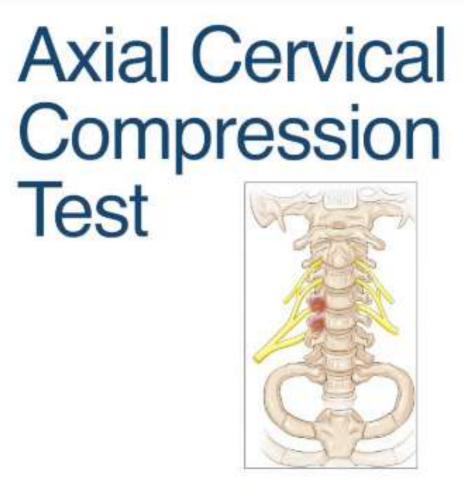






## Spurlings test



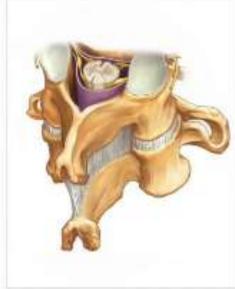


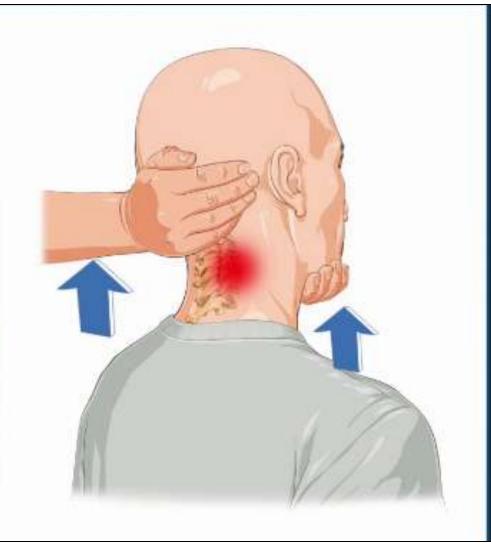
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## Cervical Distraction Test

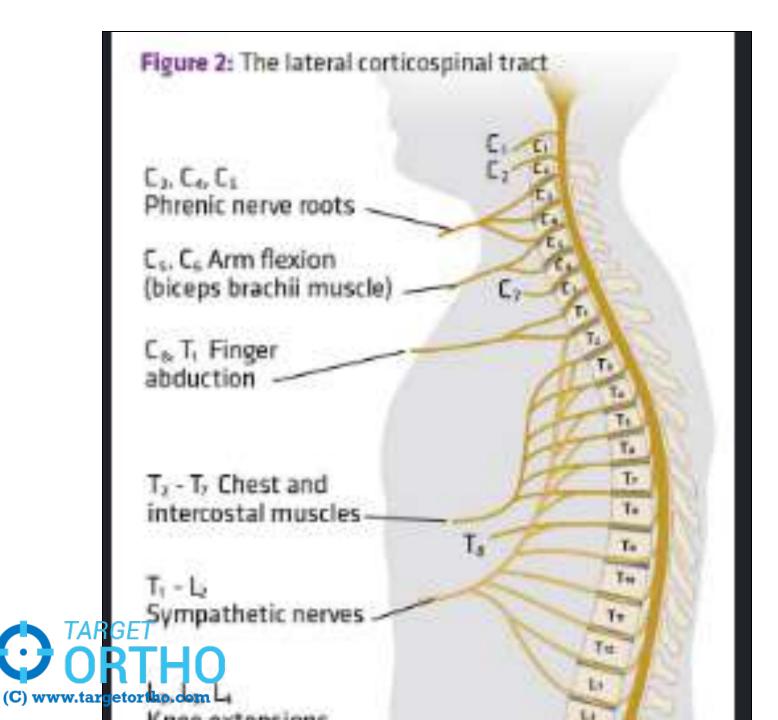


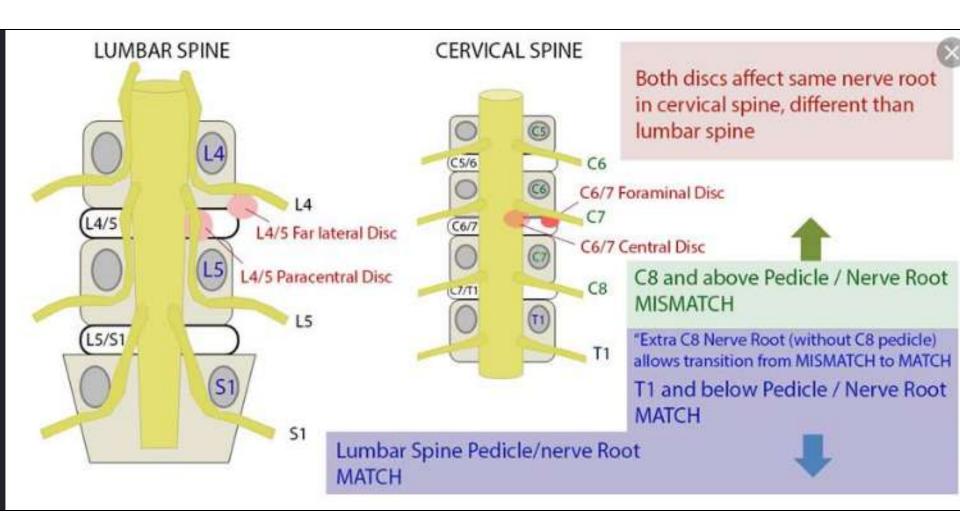


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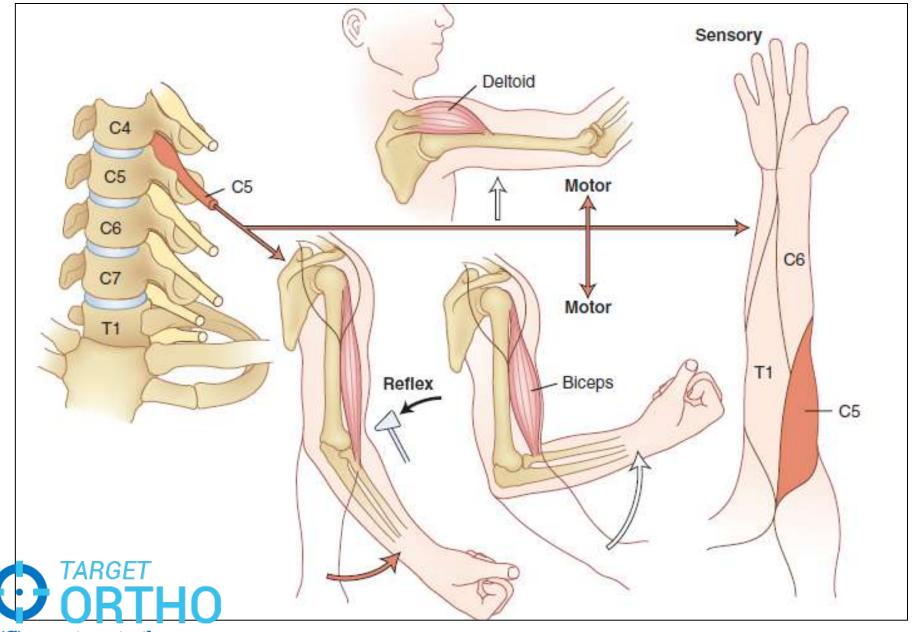
## Shoulder Abduction Sign

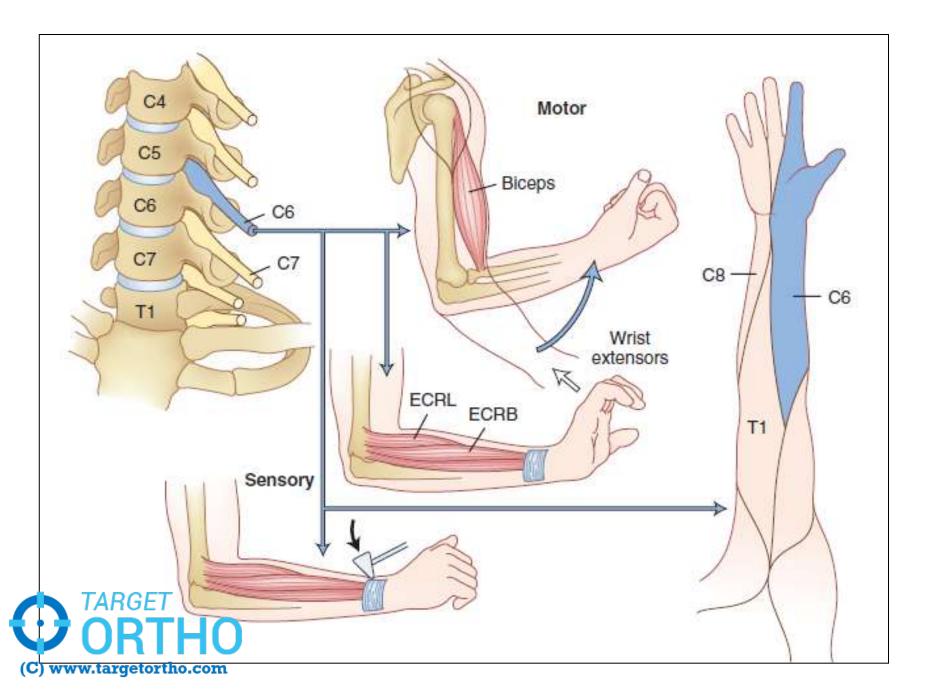


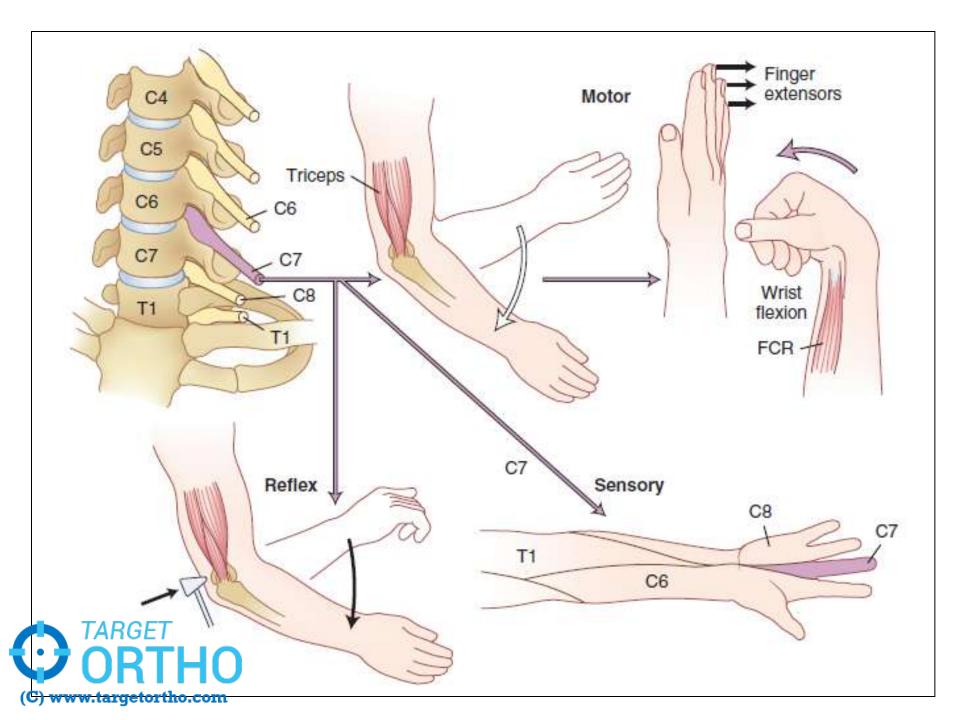


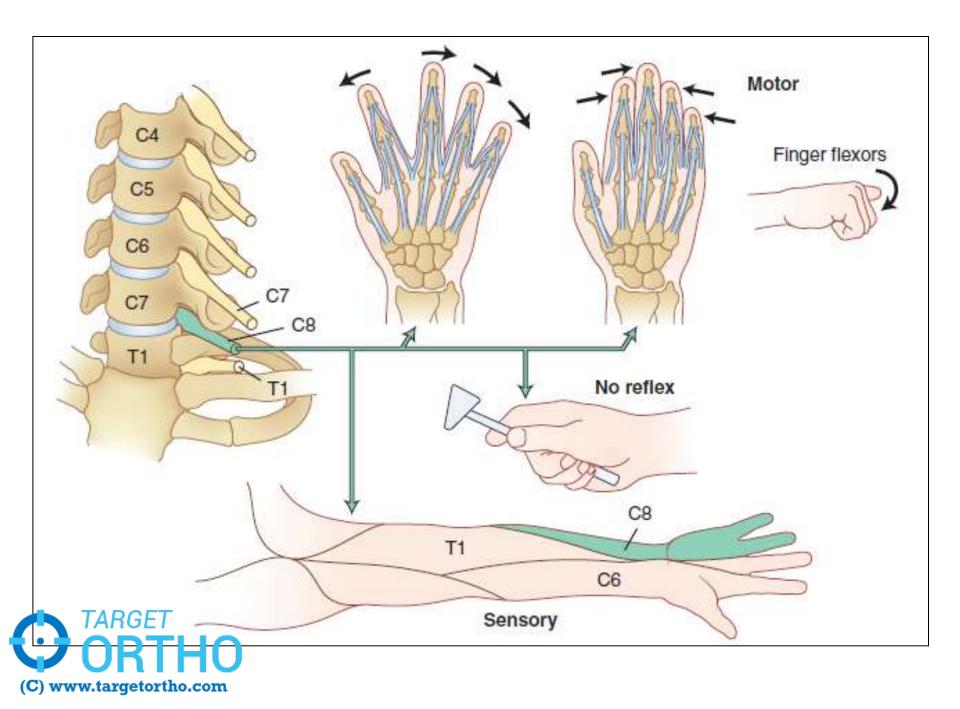






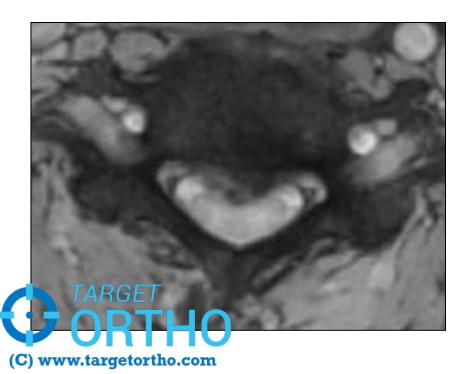


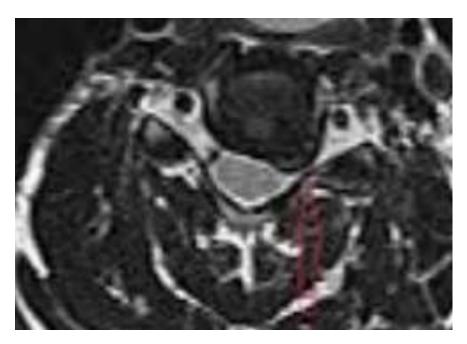




 Upper cervical radiculopathy- occipital pain and shoulder/ scapular pain

• Exaggerated DTR- think about myelopathy





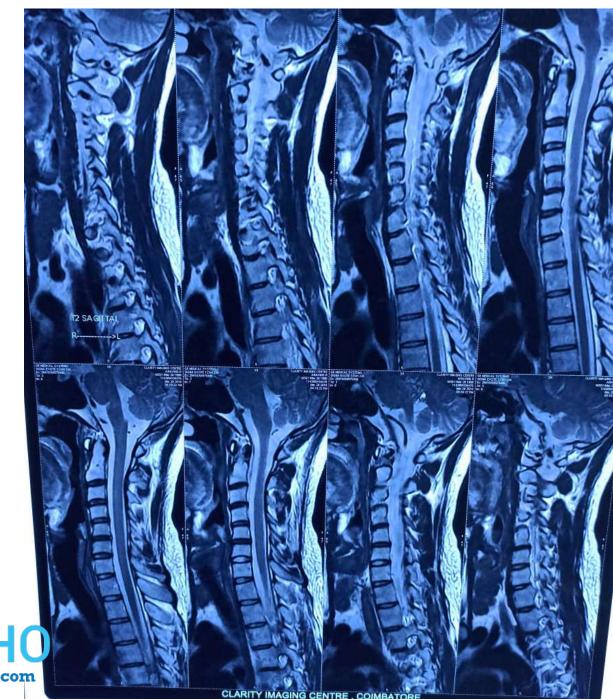
X-ray



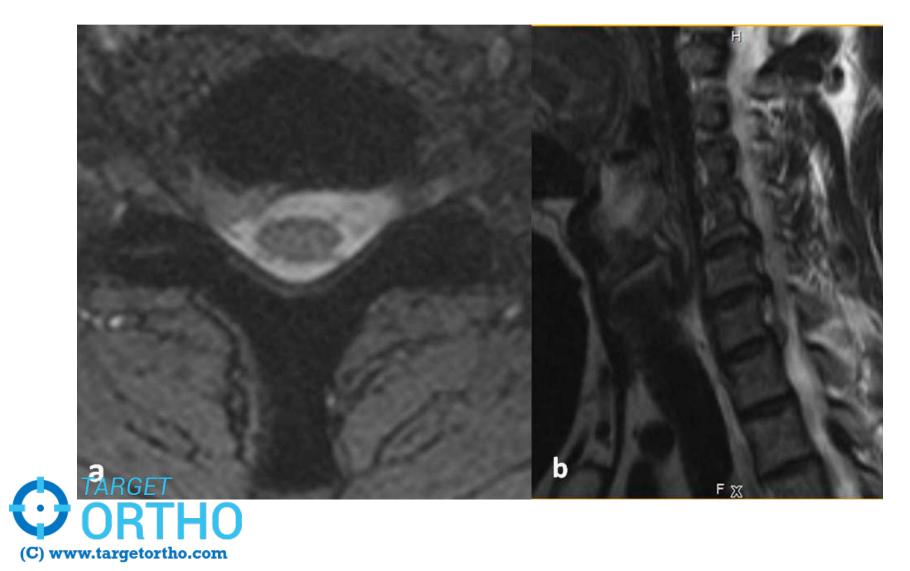
## MRI – indications

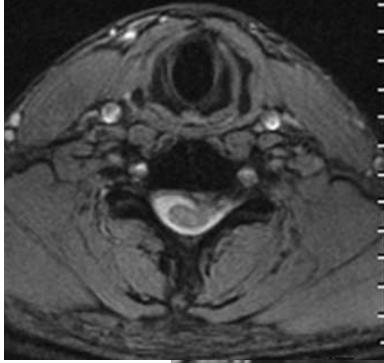
- Persistent symptoms
- Constitutional symptoms- fever/ chills
- H/o malignancy
- Neurological defecit
- Gait disturbance

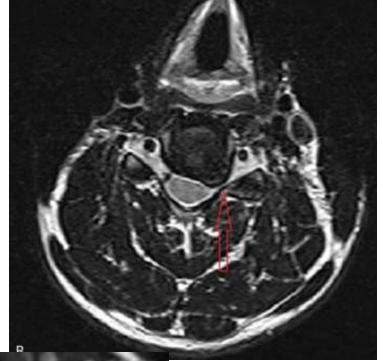


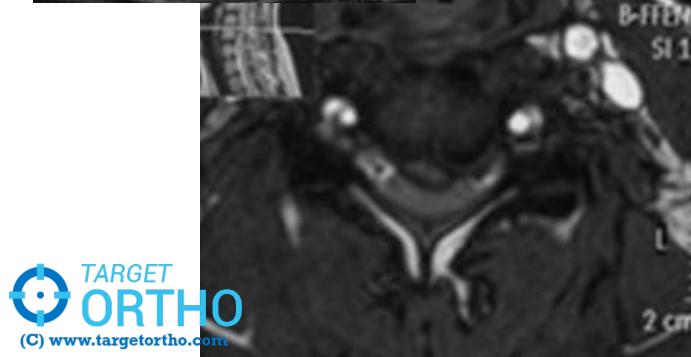




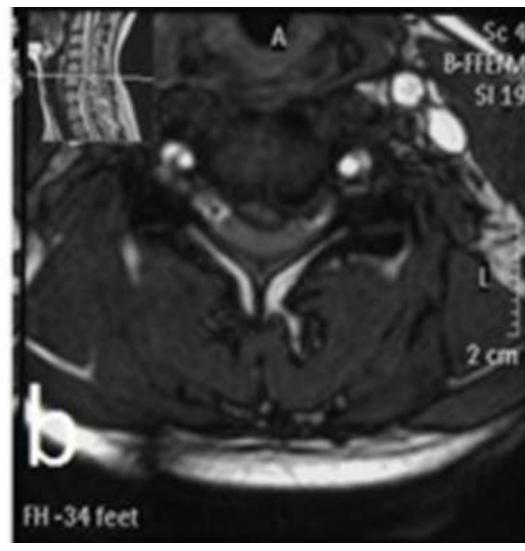




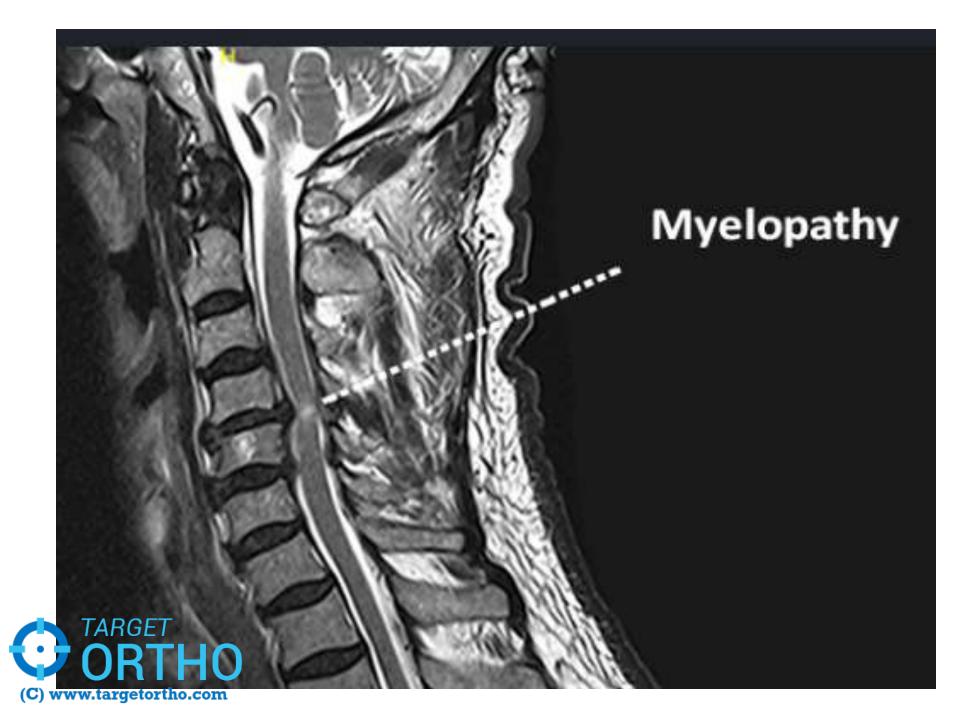


















## **Differential diagnosis**

Differential diagnosis	Nerve root mimicked	Differentiating feature of the condition
Rotator cuff tear and other shoulder affections	C5	Shoulder abduction might be weak other muscle groups(biceps) supplied by C5 root not involved. - Tenderness of shoulder joint with restricted movements.



C5,C6	1.Severe pain followed by marked weakness in C5 and C6 myotome within few days to weeks.
	2.In cervical radiculopathy pain and neurological findings occur simultaneously.
	3.Nerve conduction study

# **Thoracic outlet** syndrome

(C) www.targetortho.com

#### C8,T1

Reproduction of symptoms with rotation of the neck to the contralateral side and tilting of the head to the contralateral side , in contrast to (Spurlings test).

Hyperabducting the arm to 180° aggravating the symptoms of thoracic outlet obstruction.While in cervical radiculopathy hyperabduction relieves the pain (Davidsons test).

## **Conservative treatment**

Non invasive	Invasive
Medications	1.Cervival epidural steriod
Rest/immobilisation	2.Selective nerve root block
Traction	
<ul> <li>Ice /heat therapy</li> </ul>	
• Exercise and physical therapy	





## How I traet ?

- Rest with large pillow neck in flexion
- NSAIDs
- Steroids- Deflazocort- start with 24 mg tapering dose
- Pregabalin
- Zolpidem/ anxit
- Neck exercises after 2 weeks



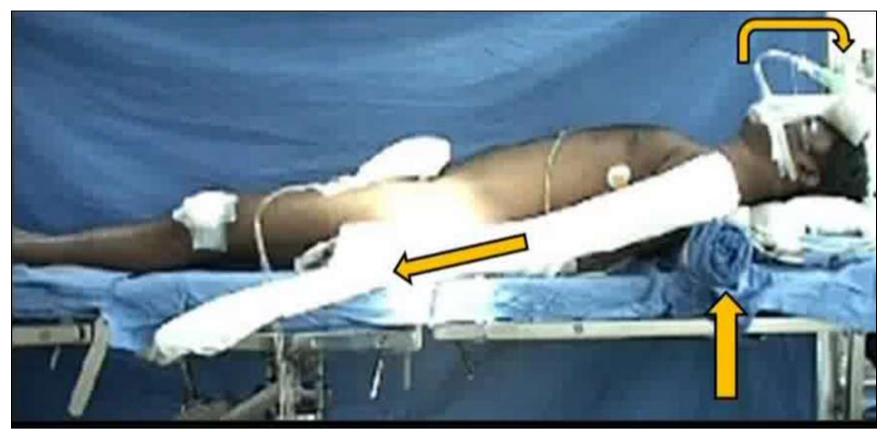
## Surgery

Not responding to conservative traetment – 6 weeks

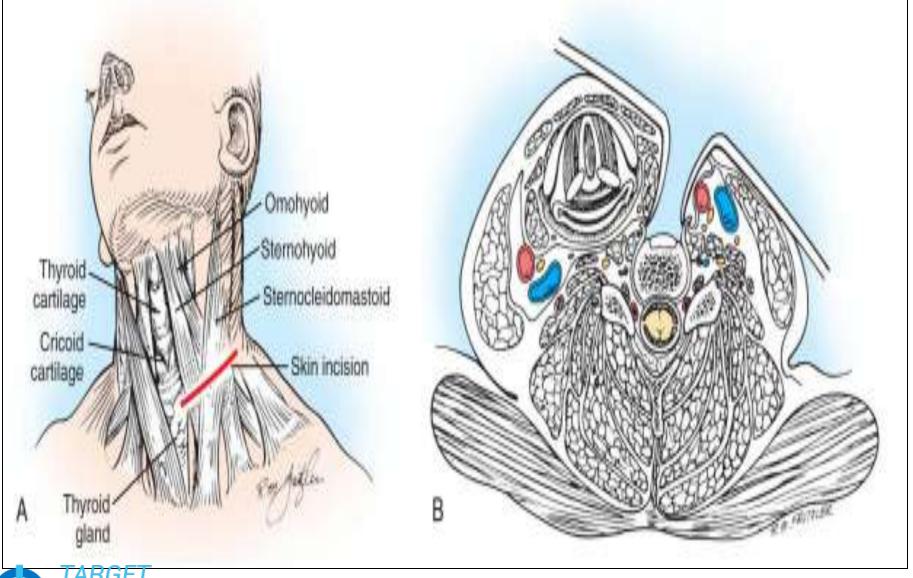
• Signifcant neurological defecit

Cervical myelopathy

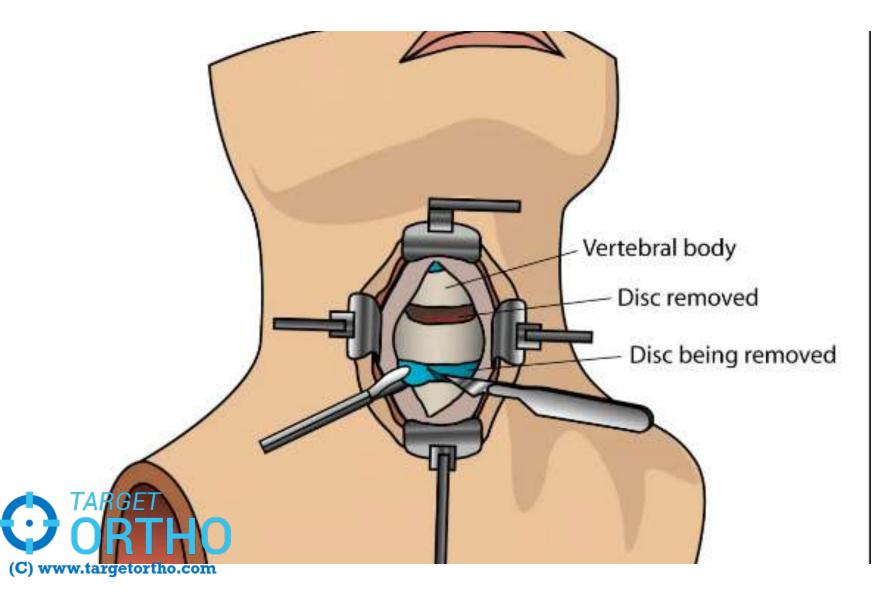


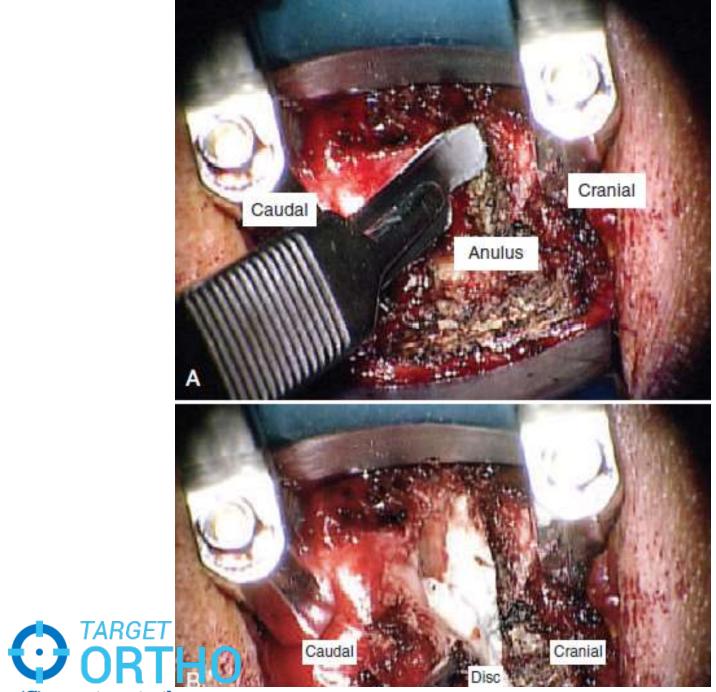














## Complications



## 1<sup>st</sup> question

 A 40 yr old singer presented with Left sided upper limb radicular pain .He had difficulty in palying guitar. X-ray cervical spine was normal and his MRI section is given below:





