

# The University of Jordan School of Medicine



Lectures in Pictures
Degenerative Spine



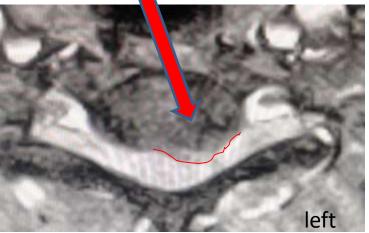
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### **Cervical disc prolapse**

- Comprises 19 % of all prolapsed discs in spine
- •( only next to lumbar 79%, leaving only 2% in thoracic).
- •<u>M.c.</u> Level **C5-6** .
- If it is central it will compress the spinal cord causingMyelopathy.
- •But mostly it is mediolateral, Rt or Lt, compressing the nerve root -as in this caseand causing **Radiculopathey:** pain in the distribution of a particular nerve root or **Brachialgia:** UL in particular.

The prolapsed part of the disc inside the canal and foramen of the nerve root





Keypoints: be familiar with the above terminologies.

#### **Cervical disc prolapse**

•Golden standard diagnostic image : cervical MRI.

•Surgery:

Anterior Cervical Discectomy and Fusion = ACDF.





This is a post-operative XR showing the implanted cage in place

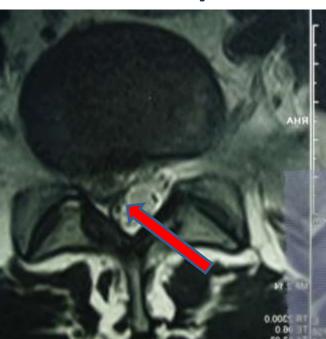
#### Thoracic (Dorsal) Disc Prolapse

- very rare , 2% of aal DP of the spine
- •Usually will compress the spinal cord centraly causing myelopathy signs .
- •Comression of the nerve root at thoracic levels will rarely cause significant symptoms .
- •Treatment :
  - Mostly conservative
  - Decompression
  - Endoscopic (thoracoscopic )discectomy



Sagital T2 WI MRI showing D11-12 DP

Lumbar Disc Prolapse



Rt

•The m.c in spine , 79%

•M.c. Level L4-5 &L5-S1 (95% together of all Lumbar DP).

- Mostly para central, causing radiculopathy or
- Sciatica (pain in sciaitic nerve distribution)

**=L 4,L5,S1**,S2,S3

### Lumbar Disc Prolapse

What syndrome do you expect this huge disc prolase to cause?
Conus Medullaris S.

- •It starts with bladder dysfunction in the form of Overflow incontinence and usually this is the presenting symptom in comparison to Cauda equina S which starts with sciaitica.
- •Here the disc prolase should always be at L1-2 level where the conus is.
- •Cauda equina can be at any level between L2-S1.



A rare L1-2 acute Rt posterolateral DP

# L5- S1 down migrating disc prolapse

What is the typical presentation of this DP?

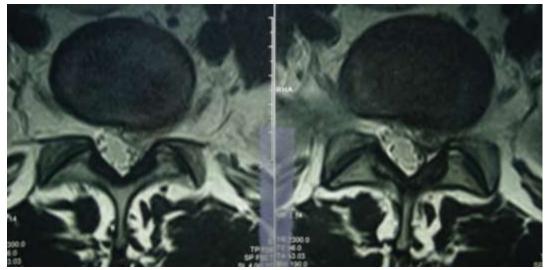
- •S1 sciatica
- •If the patient is C/O L5 sciatica, what would you do?
- •L.S XR Ap and lateral bec. I will suspect he has a sacralized L5 and the disc prolapse is really at L4-5 level



## What would this DP cause for a sciatica?

- Left S1 sciatica
- •When would it be an emergency?
  - Acute foot weakness(here planter flexion )
  - Bladder incontinence
    (overflow incontinence)
    i.e cauda equina Synd.
    Usually retention
    proceeds incontinence





# What is currnetly the standard surgery fo lumbar disc prolapse?

Microscopic or Endoscopic : Interlaminar fenestration and sequestrectomy

( you can use discectomy instead but it is not really a discectomy , we remove the sequestrated disc)





