## Epidural Space

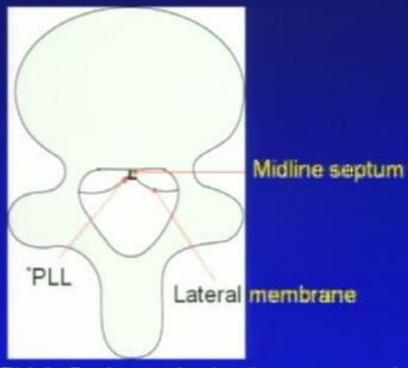
- The epidural space is divided
- Meningeal enhancement is not normal in the spine
- Lumbar epidural space is fatty; cervical epidural space is vascular
  - Contrast-enhanced imaging of the cervical spine is not usually helpful for extradural disease
- Look for normal epidural anatomic landmarks

## Meninges



Only inner layer of dura continues in spine, outer layer is vascular, may have enhancement in the brain; dura of spine should not enhance.

#### **Anterior Epidural Space**



\*At the disk the PLL is firmly attached to the outer annulus.

0:36

## Cervical Spine

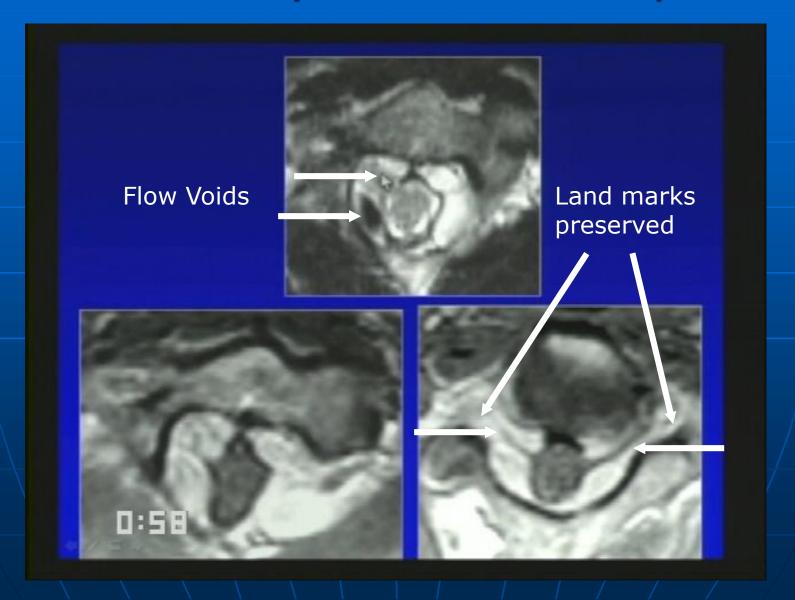


Prominent T2 signal in Neural foramen is not CSF, it is normal prominent Venous epidural plexus.

## Prominent Epidural venous plexus



### Prominent Epidural venous plexus



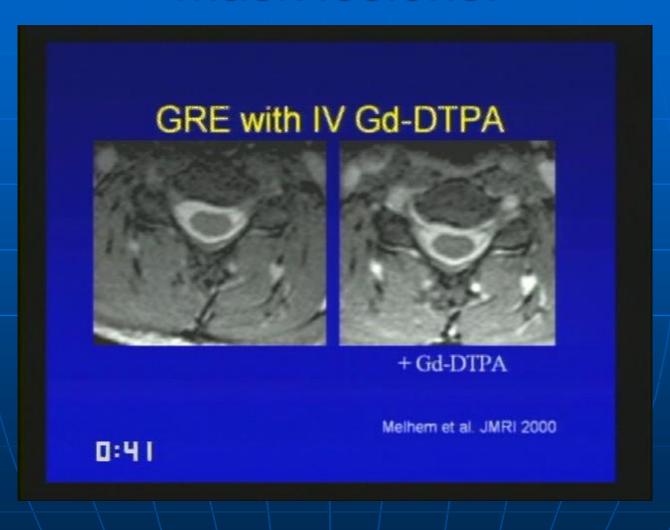
# Patient Had Intracranial hypotension

### **Epidural Venous Engorgement**

- Monro-Kellie Rule: Inverse relationship of CSF volume and intracranial blood volume within the rigid confines of the skull.
- If CSF volume decreases, the intracranial pressure is maintained by increased blood volume.

1:01

## Normal Epidural Enhancement can mask lesions.



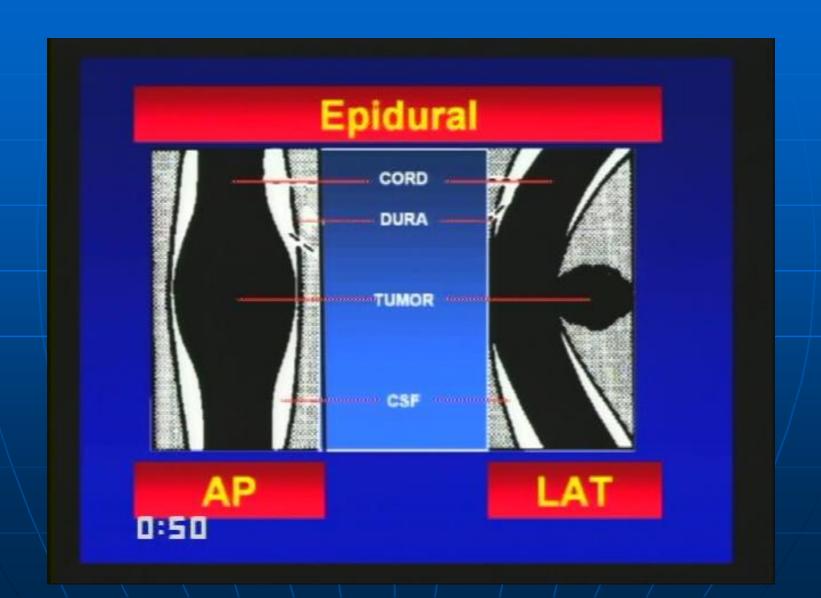
### **Extradural Lesions**

- Degenerative causes
  - Herniated disks, osteophytes, scar, thickened ligaments, synovial cysts
- Fat/ epidural lipomatosis/ lipomas
- Traumatic/ non-traumatic hematomas
- Infections
  - TB, abscesses, discitis, osteo
- Neoplasms
  - Neurogenic, meningeal tumors
  - Metastases, myeloma, lymphoma
  - 1° Bone tumors
  - Neuroblastoma family

## Epidural spine lesions

- Hematoma
- Abscess
- Lymphoma, plasmacytoma
- Lesion from bony vertebral elements
- Extramedullary hematopoiesis

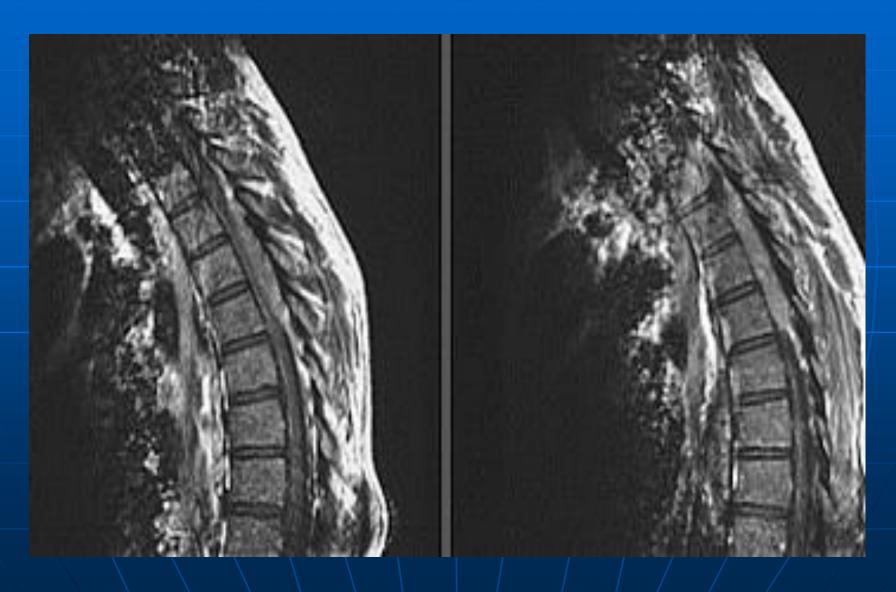
## INTRADURAL **EXTRAMEDULLARY** CSF DURA TUMOR CORD 0:50 AP LAT



# Abscess, classic location for Hematogenous seeding



## **Epidural lymphoma**



## **Epidural Lipomatosis**

