SPINAL TUMORS

- Most common : Secondary >> primary/ benign >>> primary / malignant
- A serious problem ... spinal canal is a relatively small in diameter >> any lesion >> lead to compression

Clinical Manifestations

- 1. PAIN >> <u>Metz</u>: nocturnal pain (bone pain, swell at night, low cortisol, co2 retention) / <u>Compress root</u>: electrical
 - >> <u>Compress cord</u>: dull, aching, gnawing /<u>In vertebrae</u>: pain at area of compression
- **2.** NDs >> Due to Acute compression (If not relieved quickly, will lead to permanent damage.)

- flaccid paralysis / sensory loss/ absent reflexes & plantar response > below the level

<u>*Chroinc compression*</u> (When removed, recovery may be expected)

- sensory loss/ UMNLs (increased tone, hyperreflexia, +ve Babinski sign) 🕨 below the level

>> BOTH will produce LMNLs (decrease tone, hyporeflexia, flaccid paralysis) > at the same level

>> If below L1 /conus medullaris will lead to only root damage. >> below L1 level

Investigations :

- **1.** X-ray: collapsed vertebra/Metz, osteolytic/blastic lesions, scalloped vertebrae, widened canal, calcification, paravertebral mass shadow, widened foramen/neurofibroma.
- 2. CT: ////
- 3. MRI : T1/T2



A. Extradural 60%

- 1. Metast
- Elderly / lung,
- Most are oster
- Started from ver
- Mostly in the the
- prostatic >> lun

B. Intradural 40%

1. Metastasis: 50%	Extramedullary 35%	Intramedullary 5%
• Elderly / lung, prostate, MM, breast, kidney, thyroid.	1. Meningiomas	1. Astrocytomas
• Most are osteolytic, prostate are osteoblastic.	- from arachnoid cap	- child M>F
• Started from vertebra >> extended to extradural	- 50-60 yrs F >M	- thoracic > cervical
• Mostly in the thoracic region / spread hematogenously	- Slow growing, chronic pain	- early signs, symptoms
• prostatic >> lumbar spine / Batson's plexus	>> UMN signs, no hyperostosis	- eccentric
	- Enhance well on MRI/C	
	- not associated with trauma	
2. Benign.	2. Schwannomas / neurofibromas.	2. Ependymomas
~ PRIMARY	- From nerve root sheath	- from central canal
 Bone: hemangiomas Nerve sheath: schwannomas & neurofibromas Dura: meningiomas Others: lipomas 	 Benign, slowly growing, adult Schwannomas (NF2), neurofibromas(NF1 Affect sensory root, through IV. foramen -> dumb- bell tumor Produces UMN +/- LMN Drop metastasis (from brain) 	2) - Adult - <mark>CSF cap</mark> - from filum terminale - indolent & encapsulated - (papillary, epithelial, cellular, anaplastic)
For Metz		

- Decompressive laminectomy / radiotherapy.
- Dexamethasone.

• Laminectomy/ Hemilaminectomy.

• remove the site of attachment to dura

• Laminectomy and myelotomy

to prevent regrowth.

🔁 Management :

Excision and relief of compression Or debulked

- Benign lesion >>> excision of tumor
- Metastatic lesion >>> decompression









