

CAUSES

- ▣ CEREBRAL
- ▣ SPINAL
- ▣ PERIPHERAL

CEREBRAL CAUSES

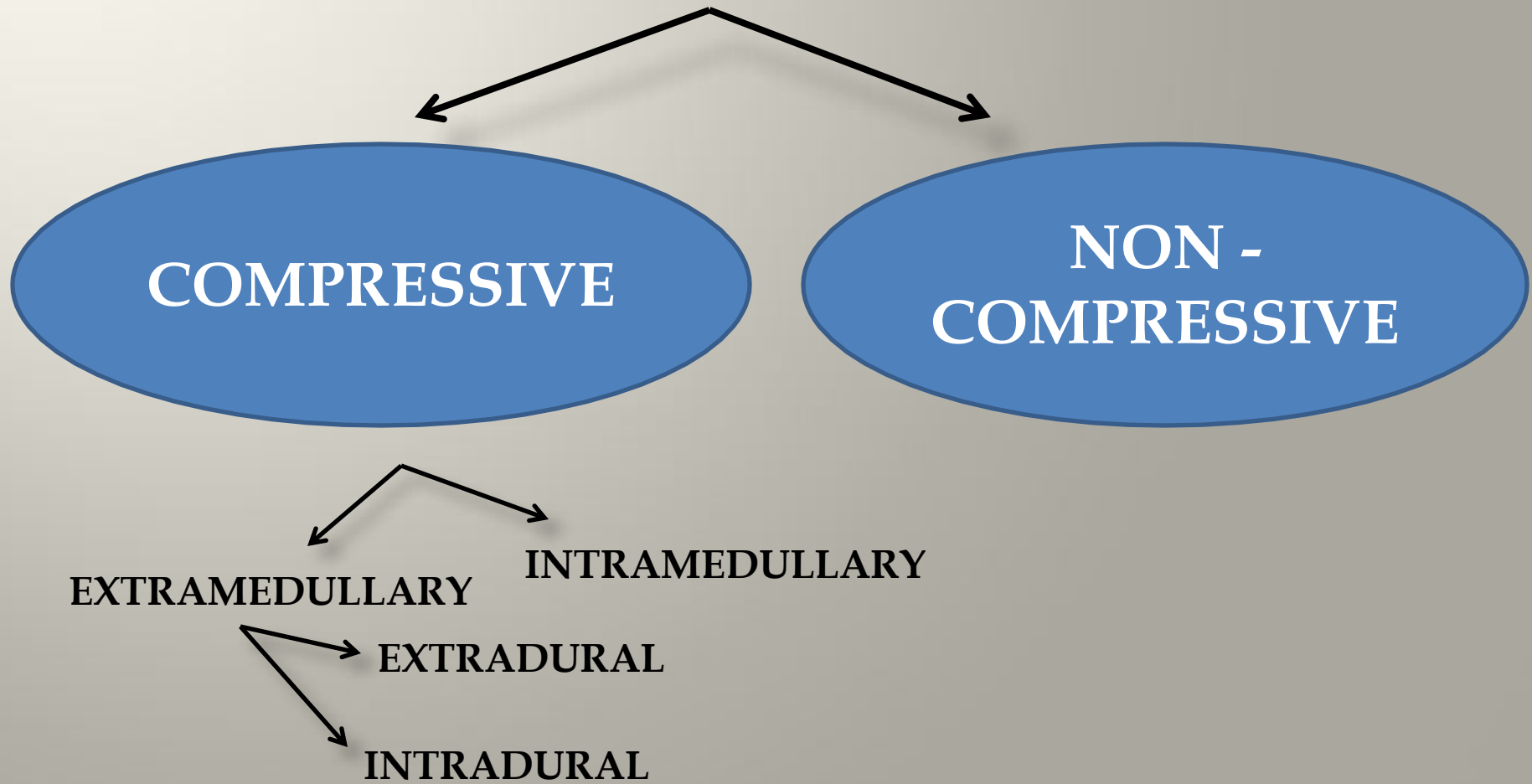
GRADUAL ONSET

- ▣ Parasagital meningioma
- ▣ Hydrocephalus
- ▣ Cerebral diplegia

SUDDEN ONSET

- ▣ Thrombosis of unpaired ACA
- ▣ Superior sagittal sinus thrombosis

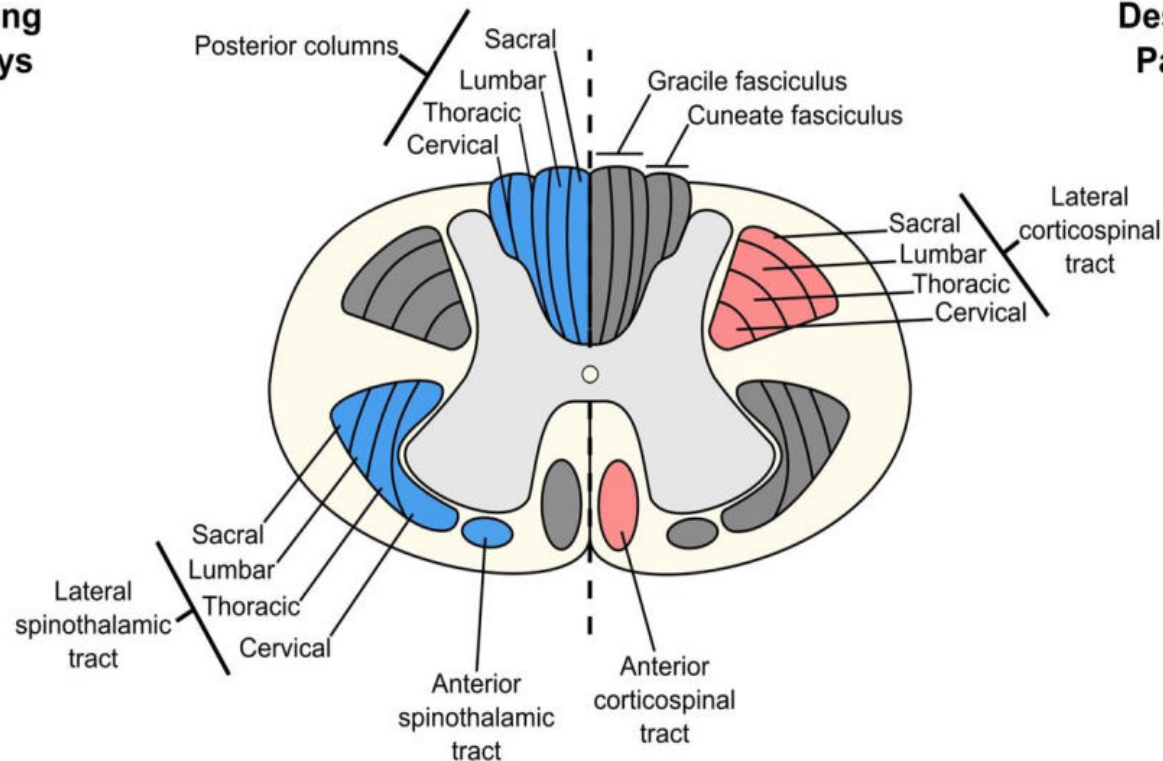
SPINAL CAUSES



Spinal Cord Pathways

Ascending Pathways

Descending Pathways



COMPRESSIVE

EXTRAMEDULLARY

EXTRADURAL:

- ▣ Infection : TB spine, epidural abscess
- ▣ Secondaries : breast, prostate, lungs, ovary
- ▣ Trauma : disc prolapse

INTRADURAL :

- ▣ Primary tumor : neurofibroma, meningioma
- ▣ AV malformations
- ▣ Infections : TB, syphilis

INTRAMEDULLARY

- ▣ Infection : abscess, tuberculoma
- ▣ Syringomyelia
- ▣ Primary tumors : astrocytoma, glioma, ependymoma

FEATURES	EXTRAMEDULLARY	INTRAMEDULLARY
1. Root pain	Early and common	Rare
2. Sensory deficit	No dissociation of pain	Dissociation of sensation
3. Sacral sensation	Lost (early)	Sacral sparing
4. LMN involvement	Segmental	Marked with widespread atrophy
5. Reflexes	Brisk, early feature	Less brisk, late feature
6. Autonomic involvement (bowel and bladder)	Late	Early
7. Trophic changes	Usually not marked	Common
8. Vertebral tenderness	May be sensitive to local pressure Early and prominent	No bony tenderness Late and less pronounced
9. UMN involvement	Frequent	Rare
10. Changes in CSF (proteins)		
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NON COMPRESSIVE

- ▣ Congenital
- ▣ Trauma
- ▣ Vascular : Ant spinal artery occlusion, vasculitis, SLE
- ▣ Infection : syphilis, TB, varicella zoster, CMV
- ▣ Demyelination
 - Primary : multiple sclerosis
 - Secondary : post vaccination, para infectious
- ▣ Nutritional : Vit B12 , lathyrism, Cu
- ▣ Immunological : RA, sjogren's syndrome, Behcet's disease
- ▣ Developmental : tethered cord syndrome, etc

LMN TYPE OF LEISION

- ▣ Lesion involving anterior horn cell
 - Acute anterior polomyelitis, Progressive muscular atrophy, Trauma
- ▣ Lesion of peripheral nerve
 - GBS, cauda equina syndrome
- ▣ Lesion of NMJ
 - Myasthenia gravis, drugs like aminoglycosides or organophosphorus insectisides
- ▣ Lesion in muscles
 - myopathy

THANK YOU