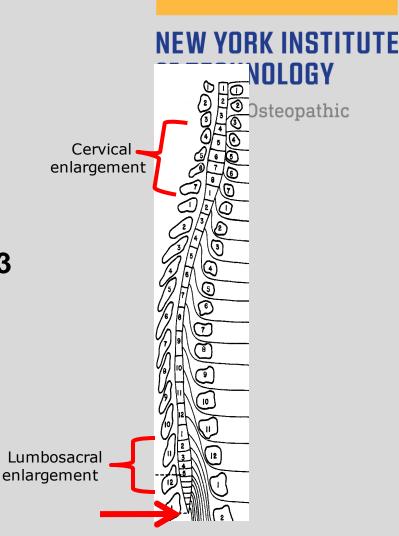
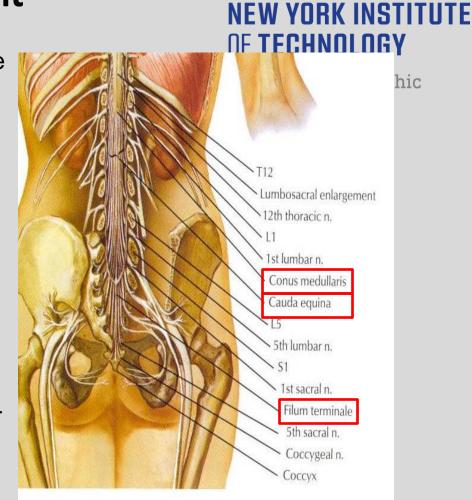
Spinal cord enlargements

- Innervation of the upper and lower extremities
- Cervical enlargement: C4-T1
 - spinal nerves of brachial plexus
- Lumbosacral enlargement: L2-S3
 - spinal nerves of lumbosacral plexus
- Spinal cord ends around L1-L2 vertebrae

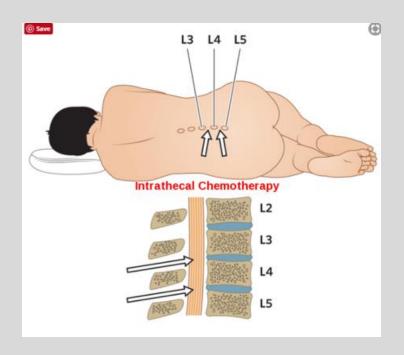


Spinal cord development

- Until the 3rd month of embryonic life the segments of the spinal cord (neuromeres) correspond with segments of the vertebral column (scleromeres)
- At birth the caudal end of spinal cord is at L2-L3
- By adulthood the caudal end of spinal cord is at L1-L2
- Subarachoid space caudal to the end of the spinal cord is the Lumbar Cistern which contains roots of lumbar and sacral nerves (cauda equina) and cerebral spinal fluid (CSF)



Lumbar puncture



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How to

- sample CSF?
- make intrathecal injections?
- make epidural injections?