| Spinal Cord, | Nerves, |
|--------------|---------|
| Spinal Ref | lexes |

Activities 13-14

Overall Arrangement of Nervous System

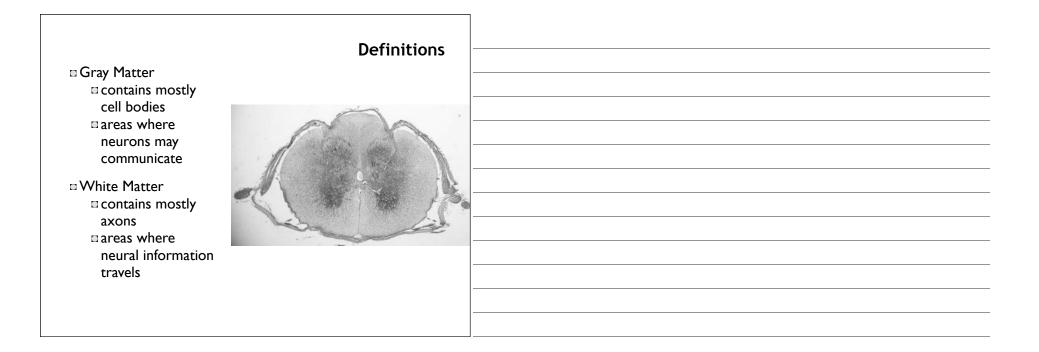
□ brain and spinal cord

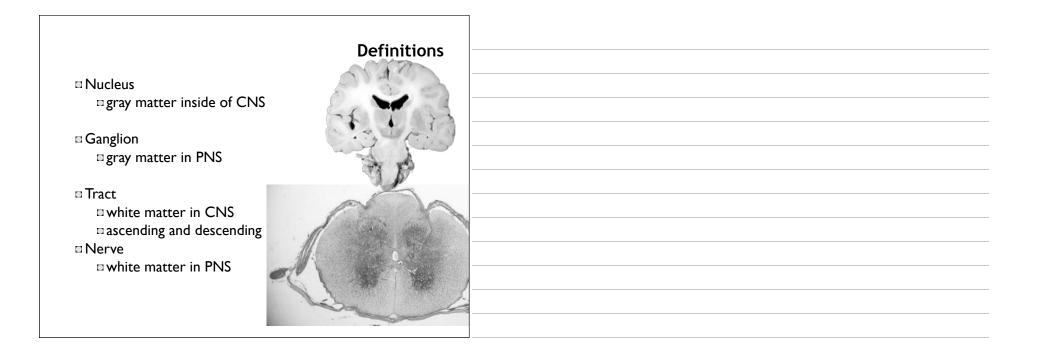
□ Spinal Nerves □ precursors to peripheral nerves

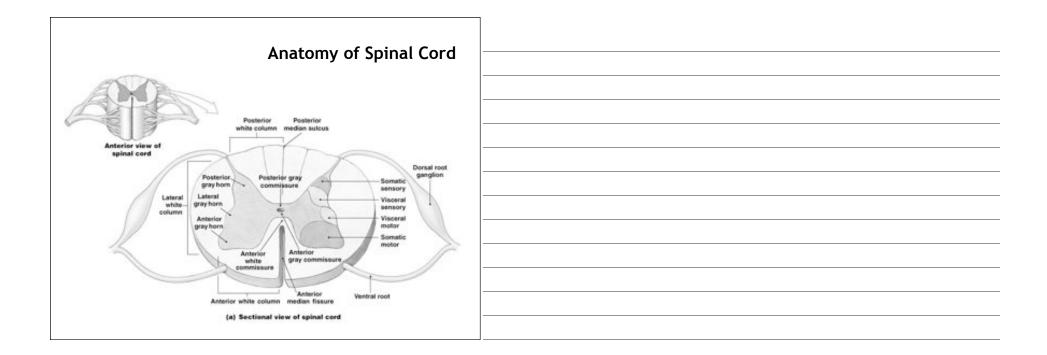
Plexus (may or may not be involved)
 nerve root switching (mixing station)

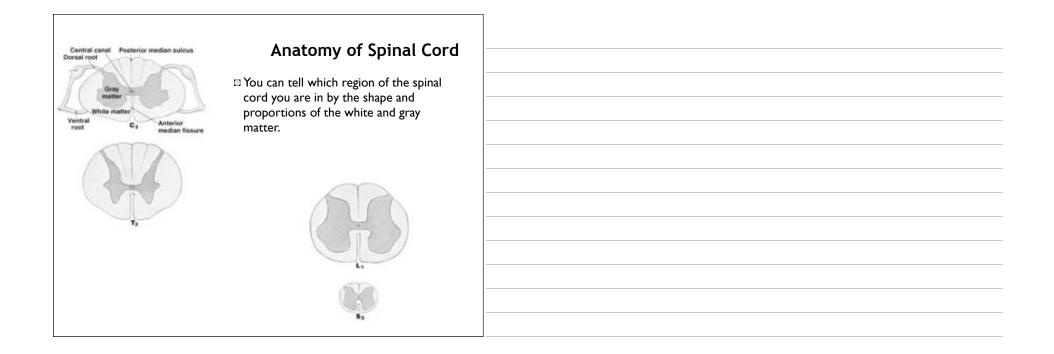
Peripheral Nerve

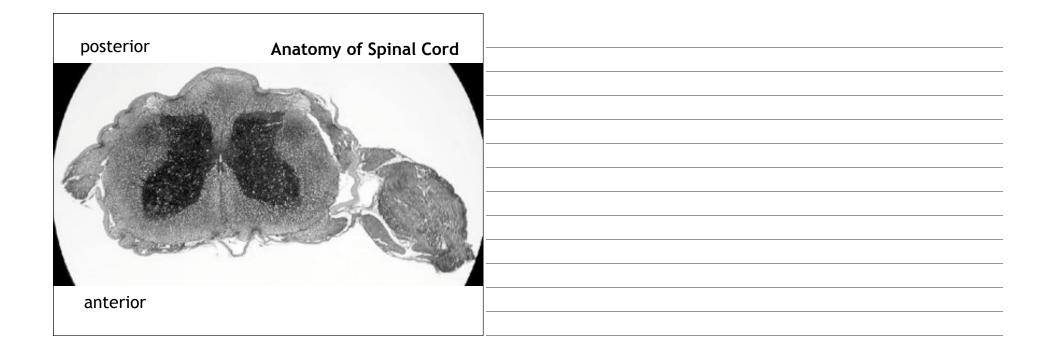
| ervous System | |
|---------------|--|
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|) | |
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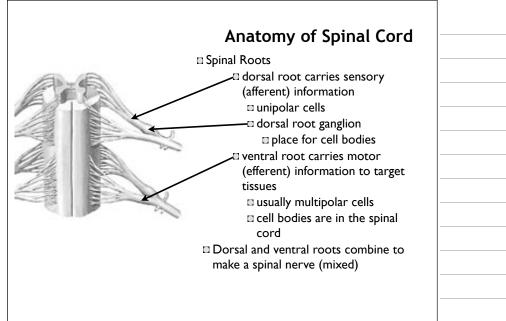




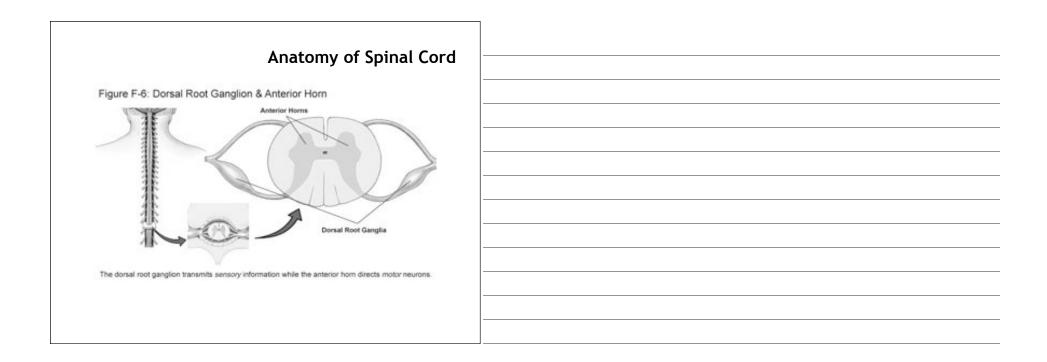


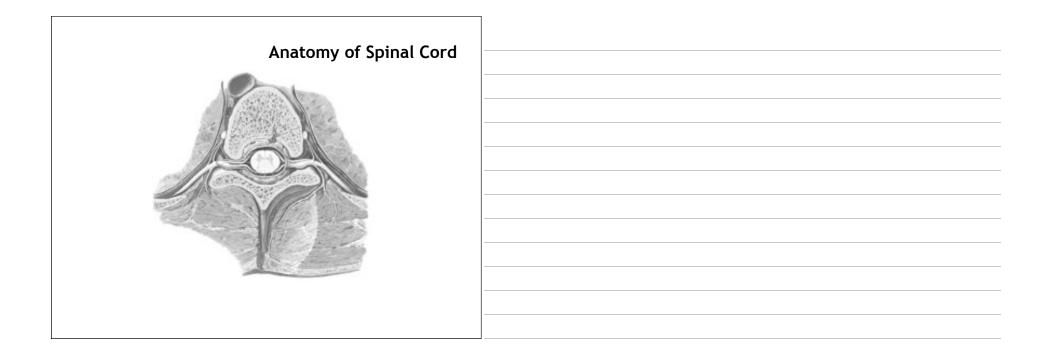


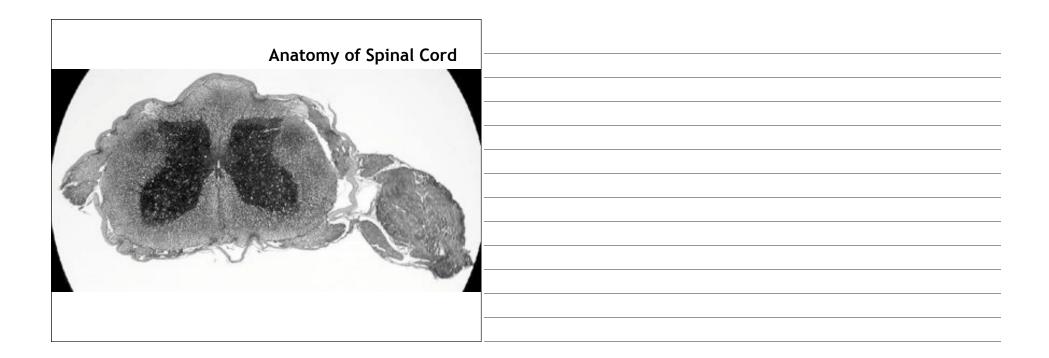




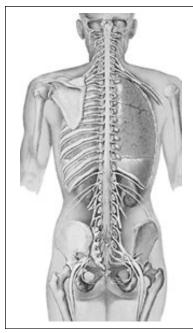










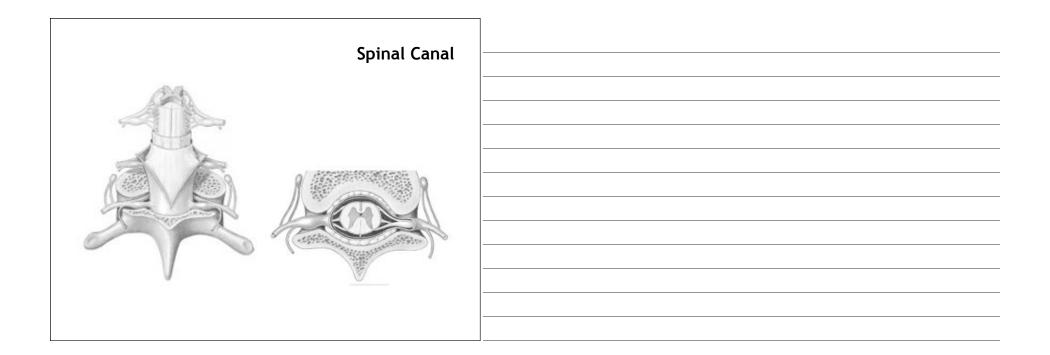


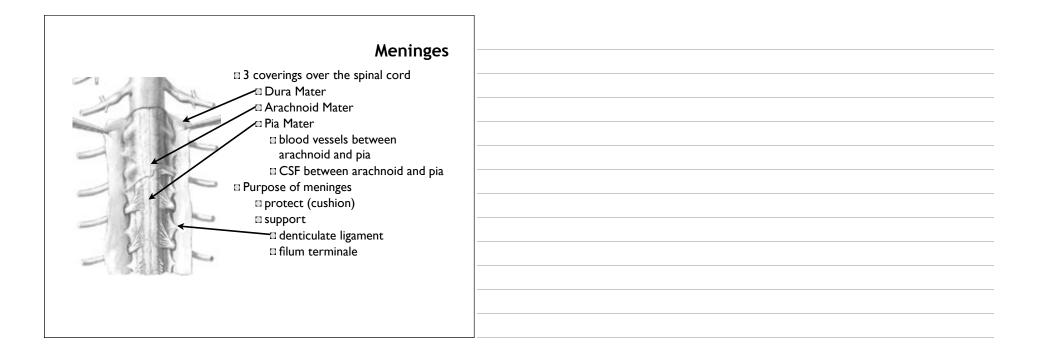
Spinal Canal

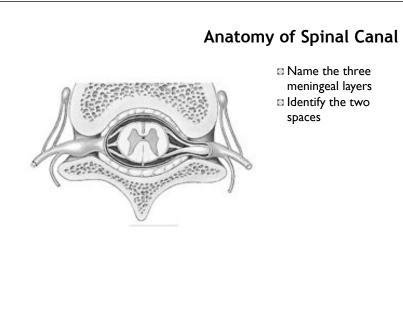
- □ starts at foramen magnum and ends in conus medullaris
- 31 pairs of spinal nerves (nerve roots) come off of the cord
 exit through intervertebral foramen
- □ conus medullaris ends at about L1-L2 level.
- nerve roots traveling past the conus make up the cauda equina (horse's tail)

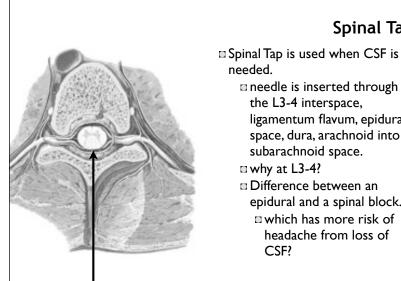
Spinal Canal

- starts at foramen magnum and ends in conus medullaris
- 31 pairs of spinal nerves (nerve roots) come off of the cord
 a exit through intervertebral foramen
- conus medullaris ends at about LI-L2 level.
- nerve roots traveling past the conus make up the cauda equina (horse's tail)





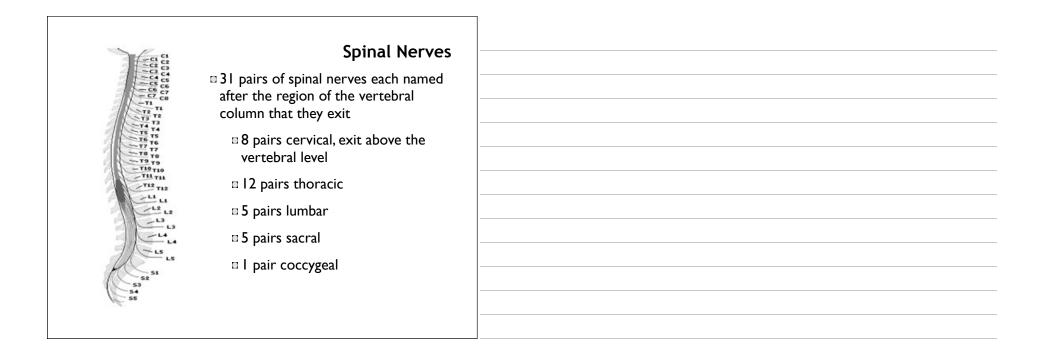


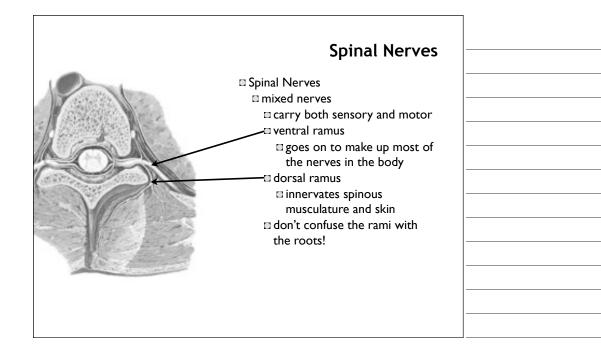


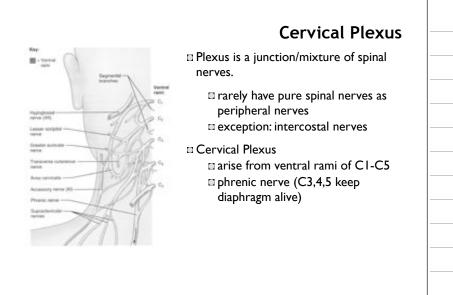
Spinal Tap

- □ Spinal Tap is used when CSF is
 - ligamentum flavum, epidural space, dura, arachnoid into
 - epidural and a spinal block. which has more risk of headache from loss of

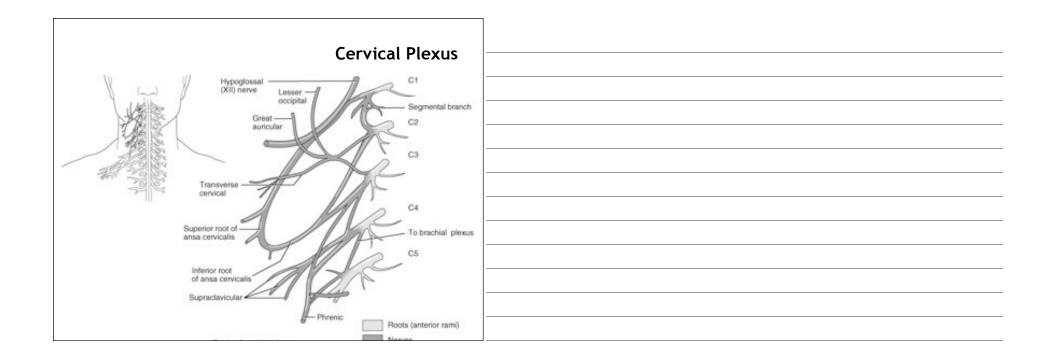
| Overall Arrangement of Nervous System | |
|--|--|
| ■ CNS ■ brain and spinal cord | |
| Spinal Nerves precursors to peripheral nerves | |
| Plexus (may or may not be involved) nerve root switching (mixing station) | |
| □ Peripheral Nerve | |
| | |
| | |

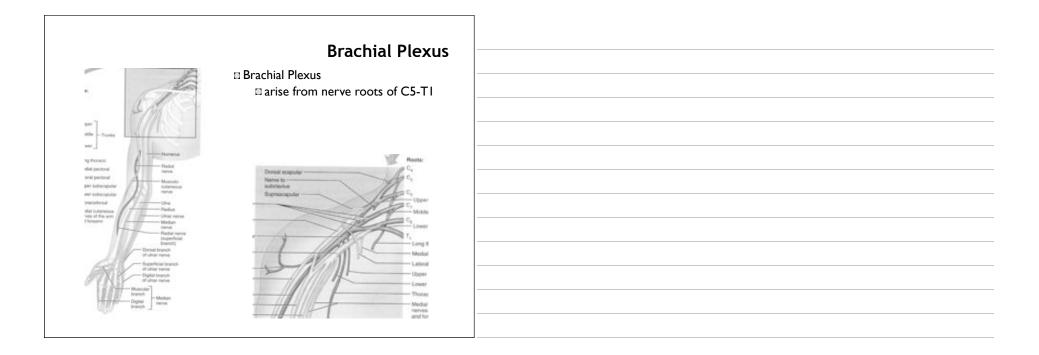


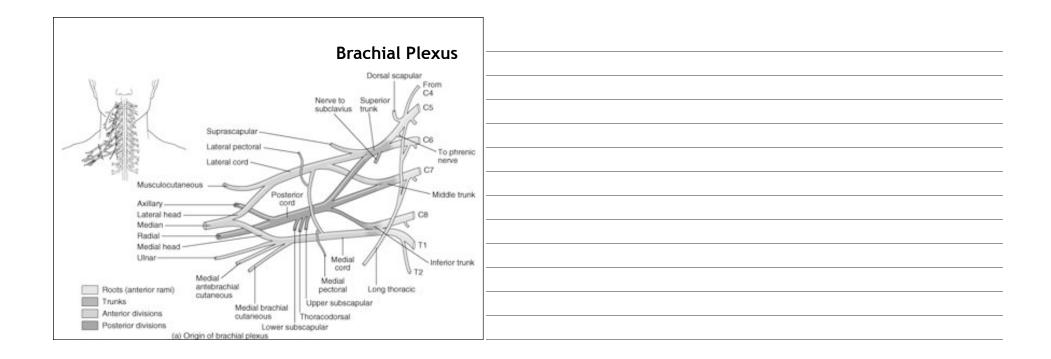


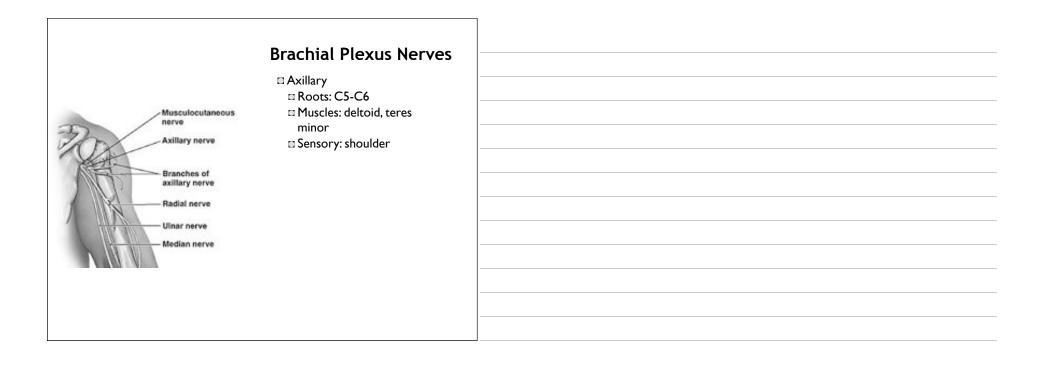


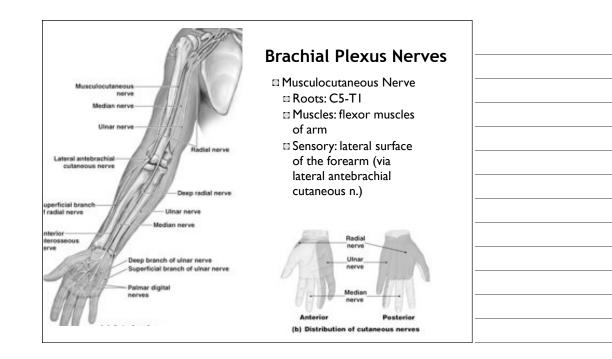
ervical Plexus n/mixture of spinal re spinal nerves as rves ercostal nerves htral rami of C1-C5 (C3,4,5 keep re)

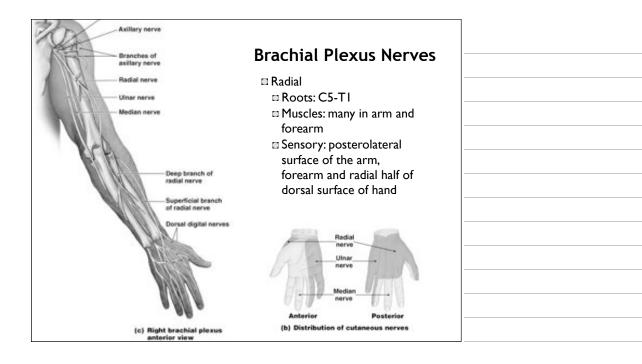


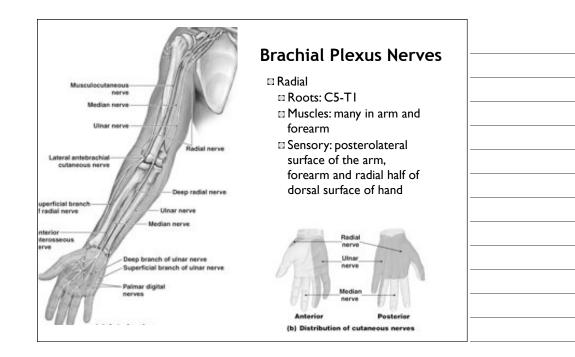


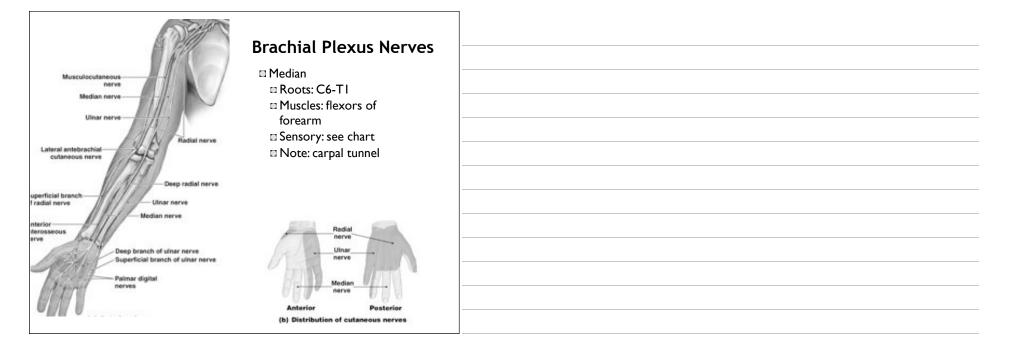


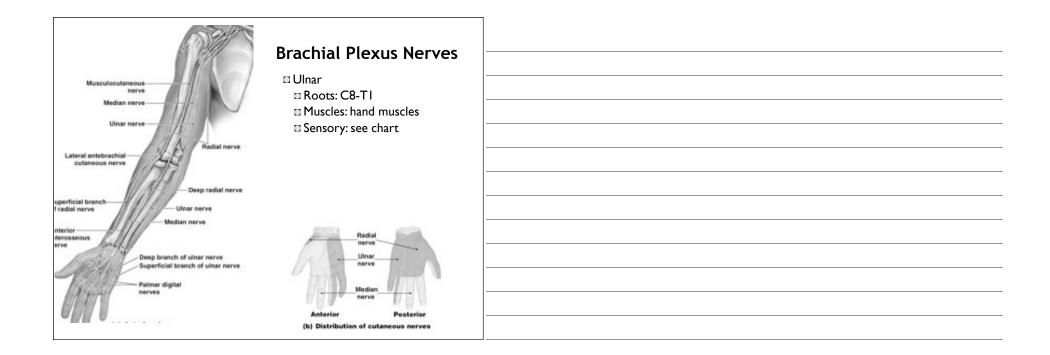


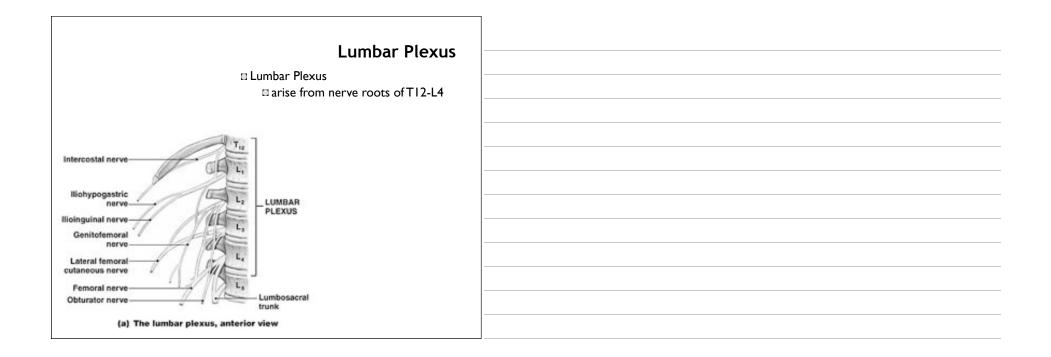


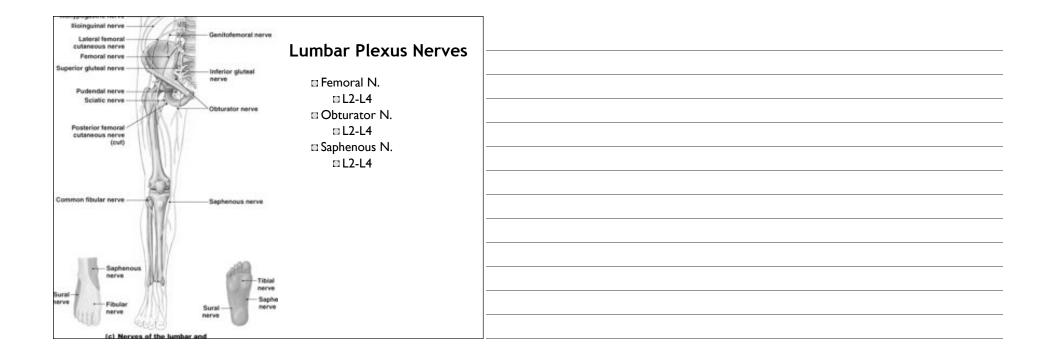


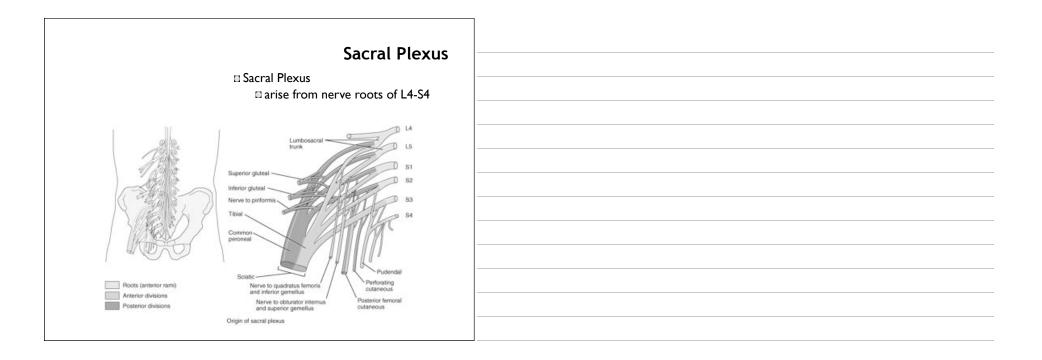


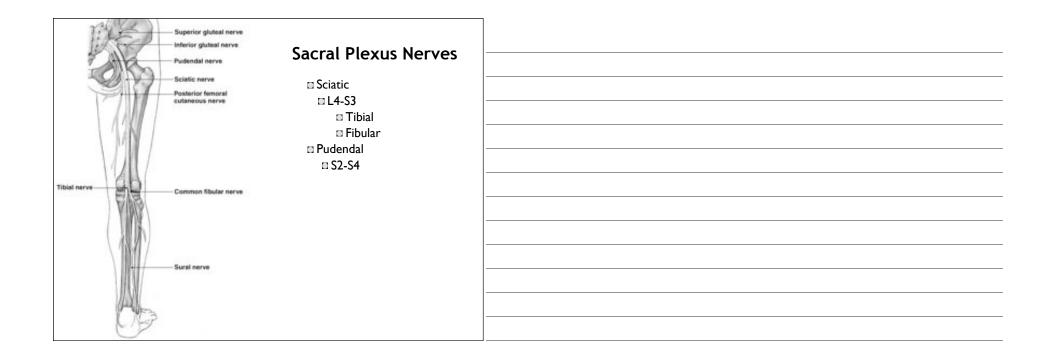


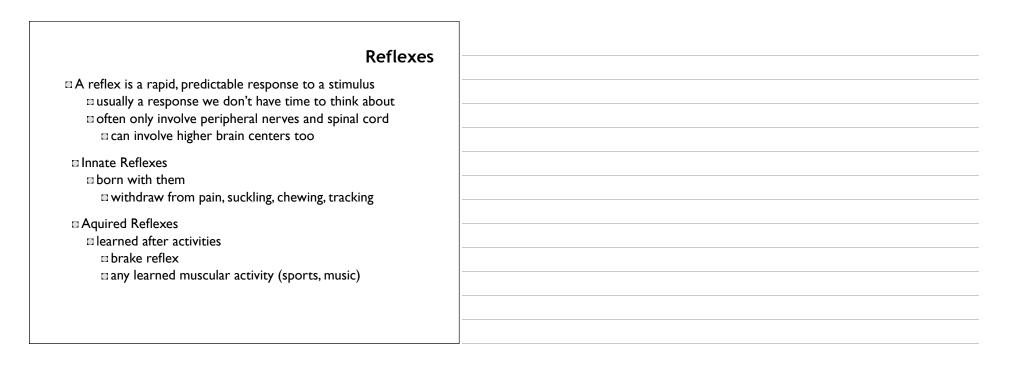






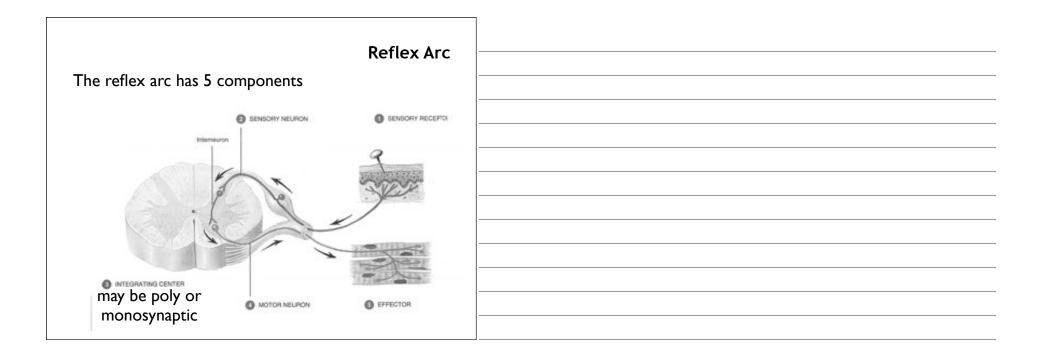


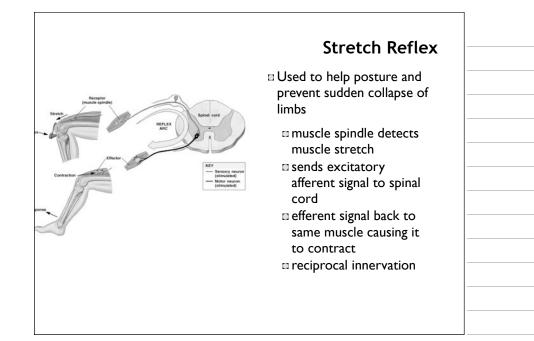


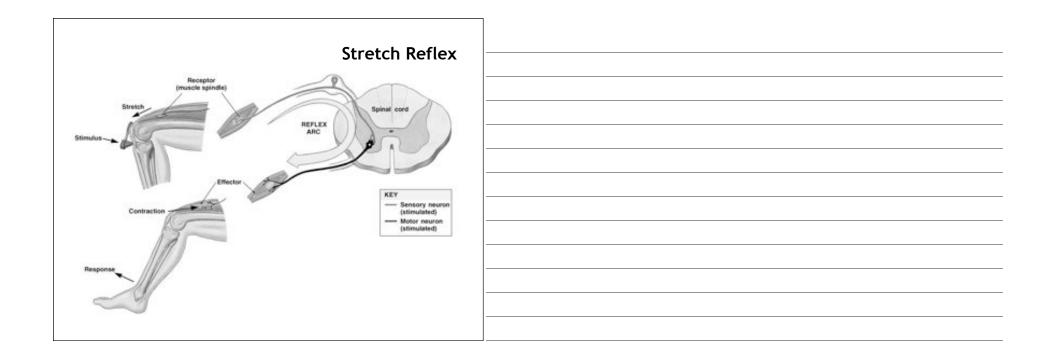


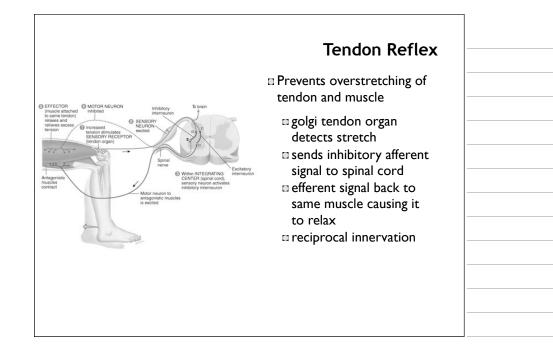
| Reflexes | |
|--|--|
| □ Two types of reflexes (based on what information processed) | |
| Autonomic regulate body functions digestion, BP, sweating | |
| usually not aware of actions Somatic helps maintain posture, balance, movement | |
| usually aware of the reflex | |
| | |
| | |

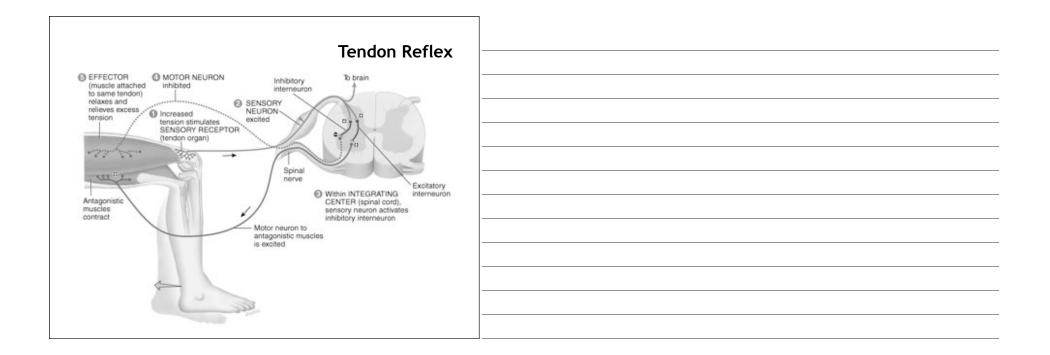
| Two types of reflexes (based on where information is processed) Spinal Integration center is in the spinal cord Cranial Integration center is in the brain Integration center is in the brain | Reflexes |
|---|---|
| integration center is in the spinal cord Cranial | Two types of reflexes (based on where information is processed) |
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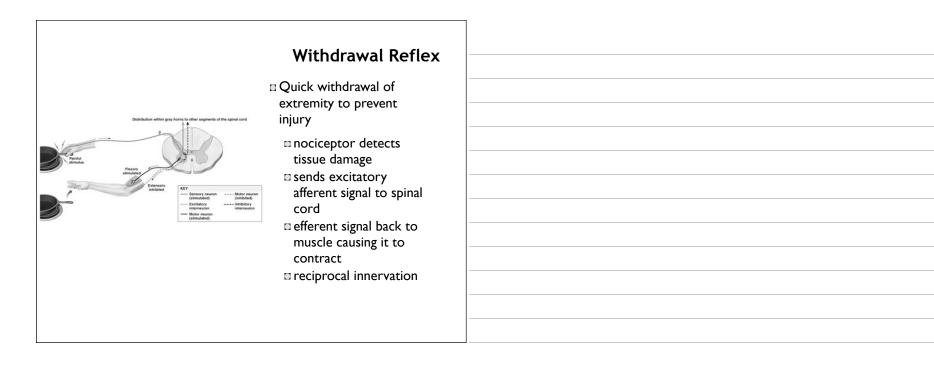


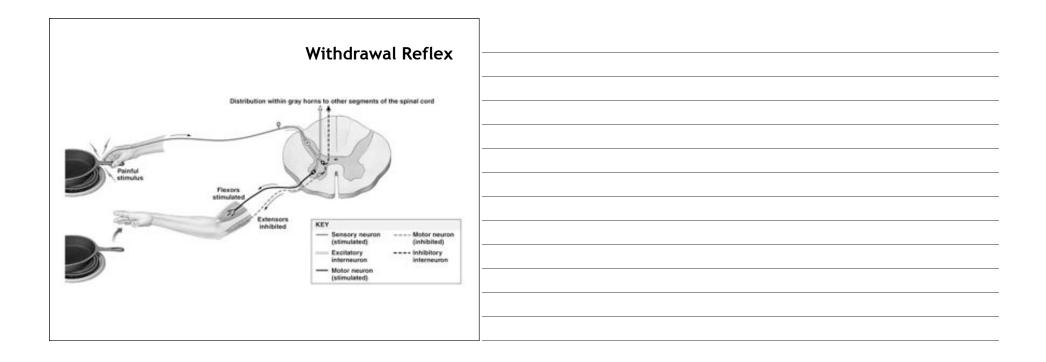


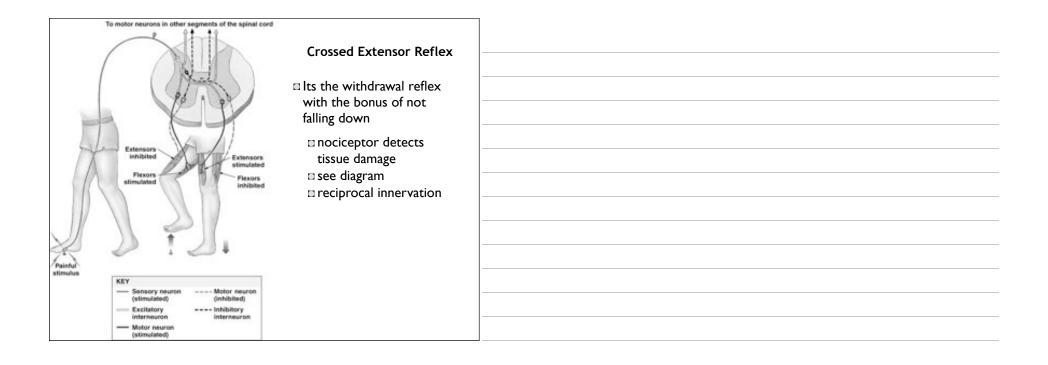












Plantar Reflex

- □ Cutaneous reflex that tests integrity of upper motor neurons of the corticospinal tract
 - tests L4-S2
 - □ indirectly tests function of primary motor cortex and corticospinal tracts
 - □ if neural function is normal toes point down
 - toes point up normally up to I year old (babinski sign)





