

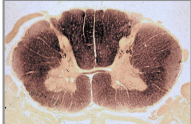
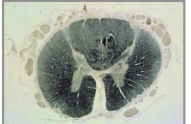
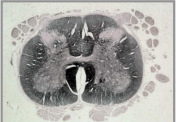
## Neuroanatomy: Spinal Cord Cross sections

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## Major Objectives

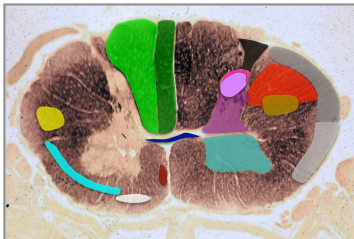
1. Identify the 3 spinal cord sections
2. Understand structures related to motor function
3. Understand structures related to sensory function
4. Understand autonomic & other important structures

<h3><u>Cervical Cord</u></h3>  <ul style="list-style-type: none"> <li>• Football shaped</li> <li>• Most even white/grey ratio</li> <li>• Cuneate &amp; Gracile fasciculi</li> </ul>	<h3><u>Thoracic Cord</u></h3>  <ul style="list-style-type: none"> <li>• More white than grey</li> <li>• Lateral cell column</li> <li>• Wispy posterior horn</li> </ul>	<h3><u>Lumbar Cord</u></h3>  <ul style="list-style-type: none"> <li>• More grey than white</li> <li>• Only Gracile fasciculus</li> </ul>
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**Review**

- Lateral corticospinal tract
- Anterior corticospinal tract
- Rubrospinal tract
- Vestibulospinal tract
- Anterior horn
- Vegetative tract
- Cuneate fasciculus
- Gracile fasciculus
- Antero-lateral system (ALQ)
- Posterior spinocerebellar tract
- Anterior spinocerebellar tract
- Posterior horn
  - Substantia gelatinosa
  - Nucleus proprius
- Lissauer's tract
- Anterior commissure

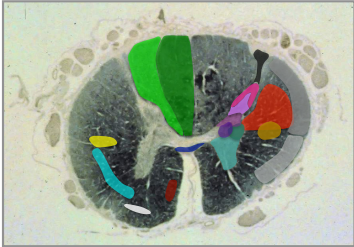
### Cervical Cord



**Review**

- Lateral corticospinal tract
- Anterior corticospinal tract
- Rubrospinal tract (above T6)
- Vestibulospinal tract
- Anterior horn
- Vegetative tract
- Intermediolateral nucleus
- Cuneate fasciculus (above T6)
- Gracile fasciculus
- Antero-lateral system (ALQ)
- Posterior spinocerebellar tract
- Anterior spinocerebellar tract
- Posterior horn
  - Substantia gelatinosa
  - Nucleus proprius
- Clark's nucleus
- Lissauer's tract
- Anterior commissure

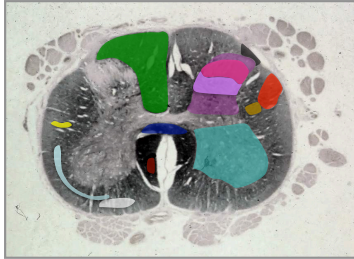
**Thoracic Cord**



**Review**

- Lateral corticospinal tract
- Vestibulospinal
- Anterior horn
- Vegetative tract
- Gracile fasciculus
- Antero-lateral system (ALQ)
- Posterior horn
  - Substantia gelatinosa
  - Nucleus proprius
- Lissauer's tract
- Anterior commissure

**Lumbar Cord**



**Pearls & Problems**

- Don't ✓ Try to learn everything at once.
- Do ✓ See the repeating patterns in each section to learn the common locations for tracts throughout the spinal cord.
- Don't ✓ Worry as much about the more obscure tracts that are less well defined.
- Do ✓ Come to terms with the fact that there are not clear delineations between every tract, nucleus, or system.\*\*

\*\*However, those structures that are easily outlined are the ones you should definitely know!