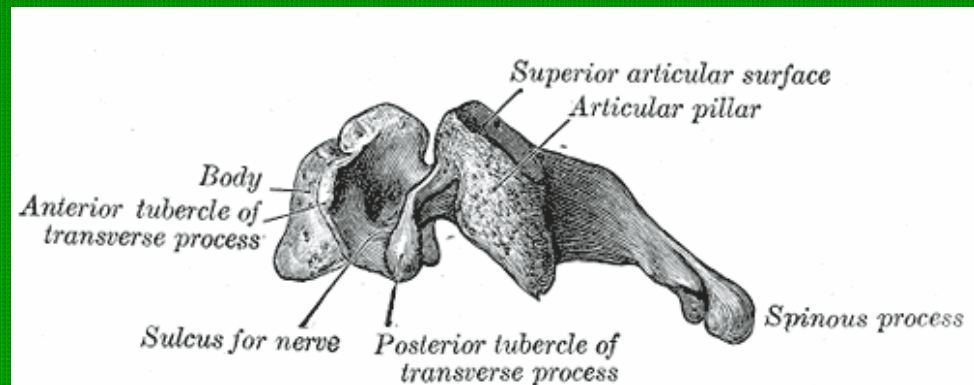
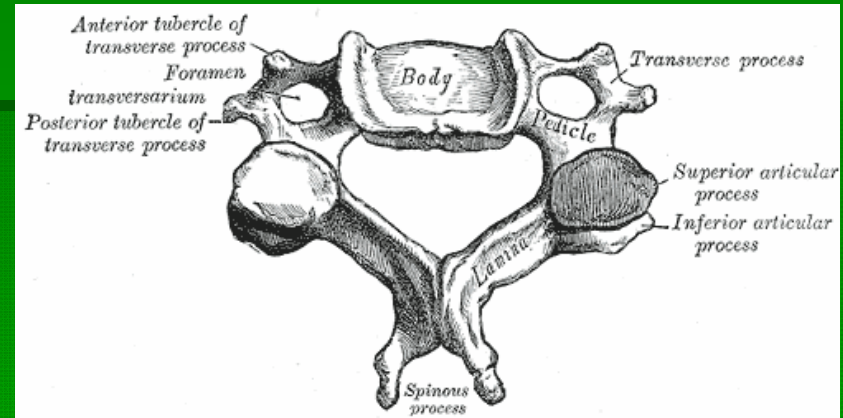


Cervical Spine Anatomy

www.fisiokinesiterapia.biz

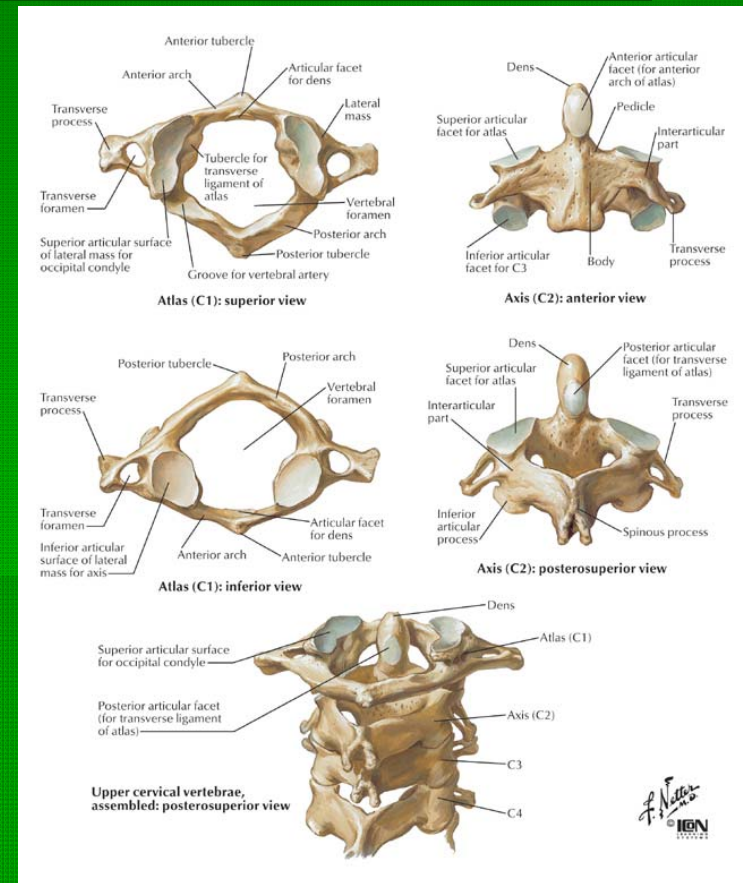
General Vertebral Anatomy

- Body
- Vertebral Arch
 - Pedicles
 - Laminae
- Vertebral Foramen
- Spinous Process
- Facets
 - Superior Articulating Surface
 - Inferior Articulating Surface
- Transverse Process
- Intervertebral Foramen



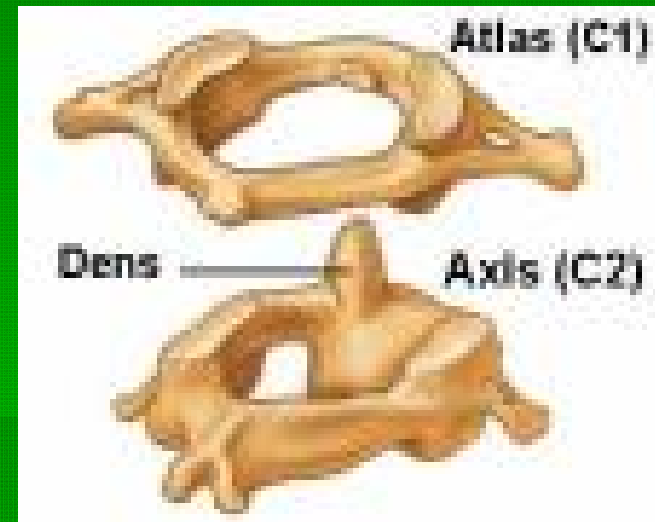
Distinguishing Features of Cervical Vertebrae

- Transverse foramina
- C1 transverse process
- Spinous Processes
 - C6 and C7
 - C3-C6 = bifurcate
 - None for C1
- Articulating Facets

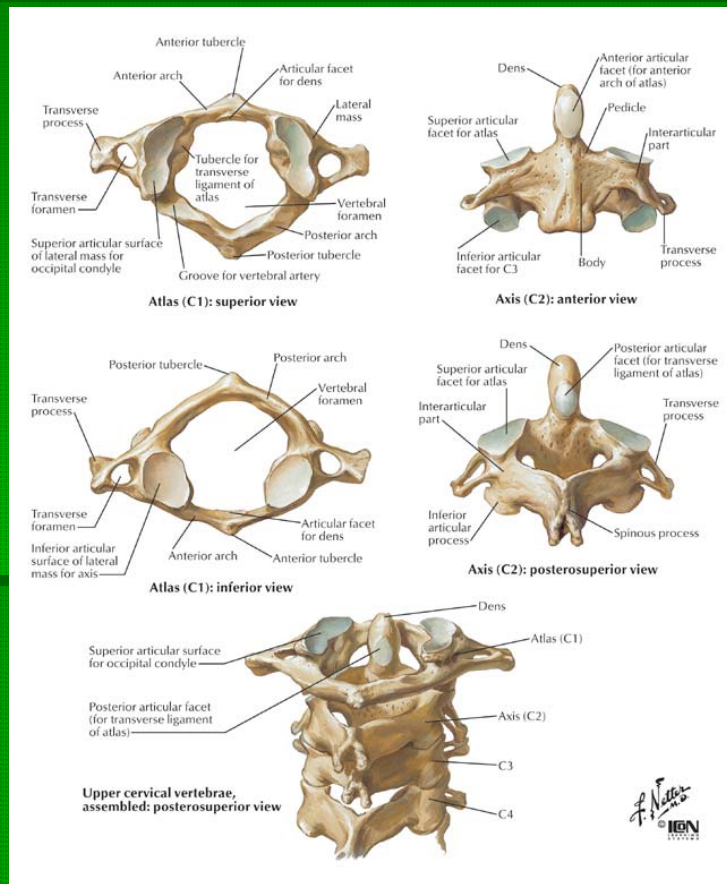


Atlas

- 1st Cervical Vertebrae
- Lack of Body
- Superior Articular Foveae
- Inferior Articulating Foveae
- Fovea Dentis

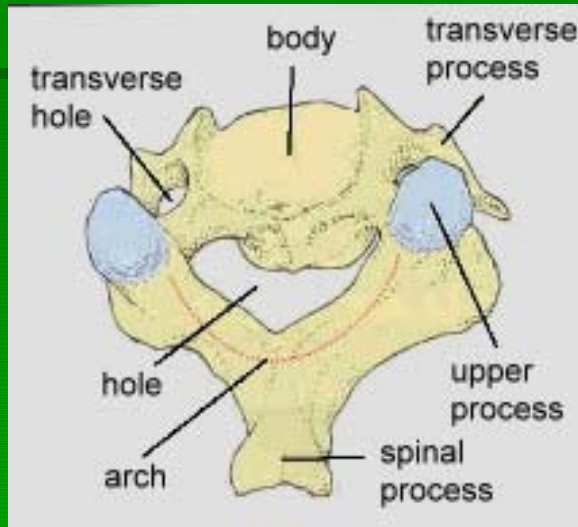


Axis



- C2
- Dens
 - Rotation between skull and atlas

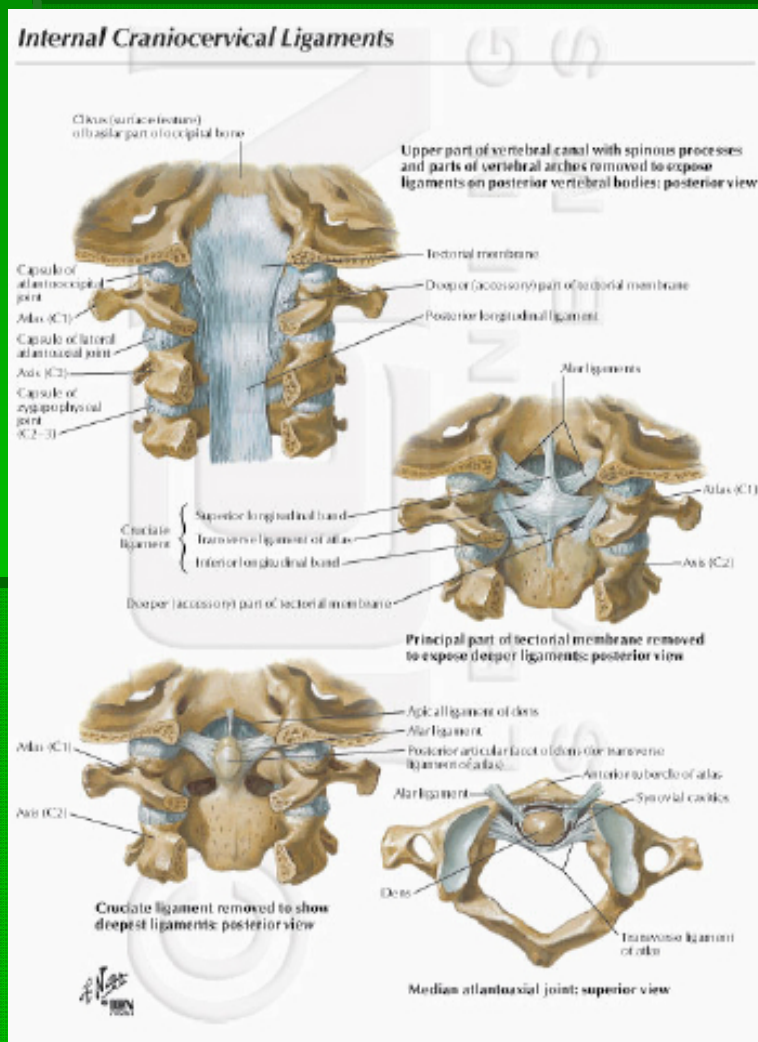
C7



- Body
- Spinous process
- Transverse Foramina
 - Anterior element

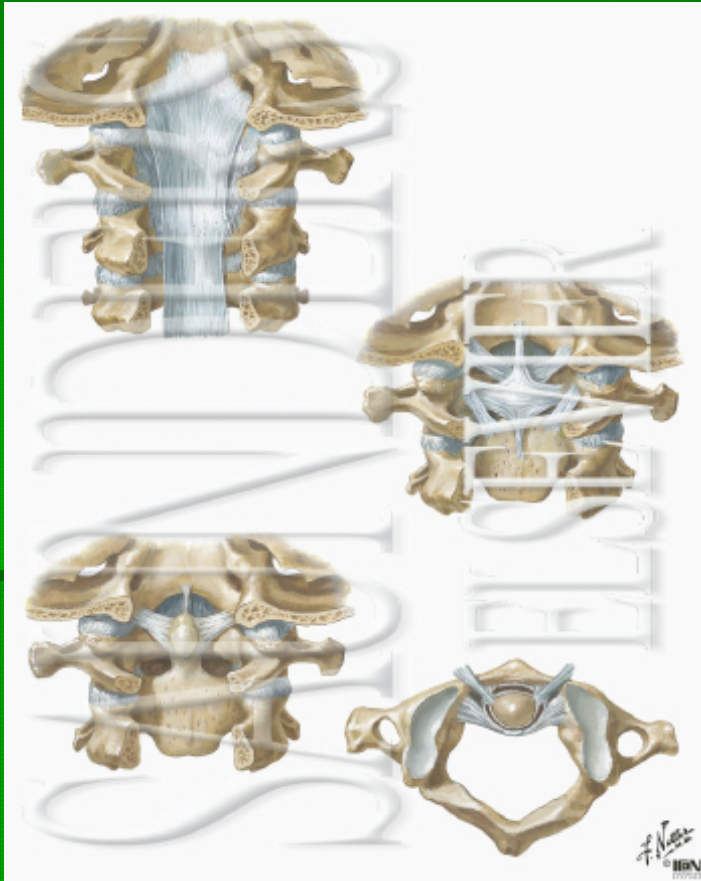


Articulations within cervical region



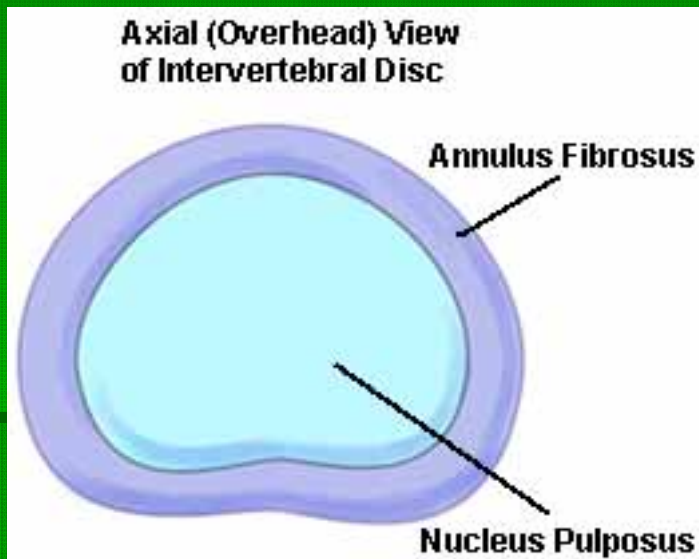
- Lateral Atlantoaxial Joints
 - Superior facets and inferior facets of atlas
 - Flat and in transverse plane
 - Rotation
 - Side toward rotation
 - Side away from rotation
- Median Atlantoaxial Joints
 - Dens of axis and anterior arch of atlas
 - Tectorial membrane
 - Cruciform ligament

Articulation within cervical spine



- Atlanto-occipital
 - Occipital condyles of skull and superior articulating surface of atlas
 - Rotation

Articulations within cervical spine



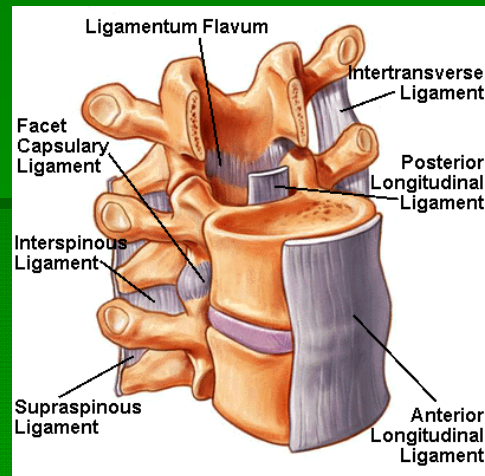
- Body-to-body articulation
 - Fibrocartilagenous Intervertebral Disk
 - Annulus fibrosus
 - Nucleus pulposus

Articulations within cervical spine

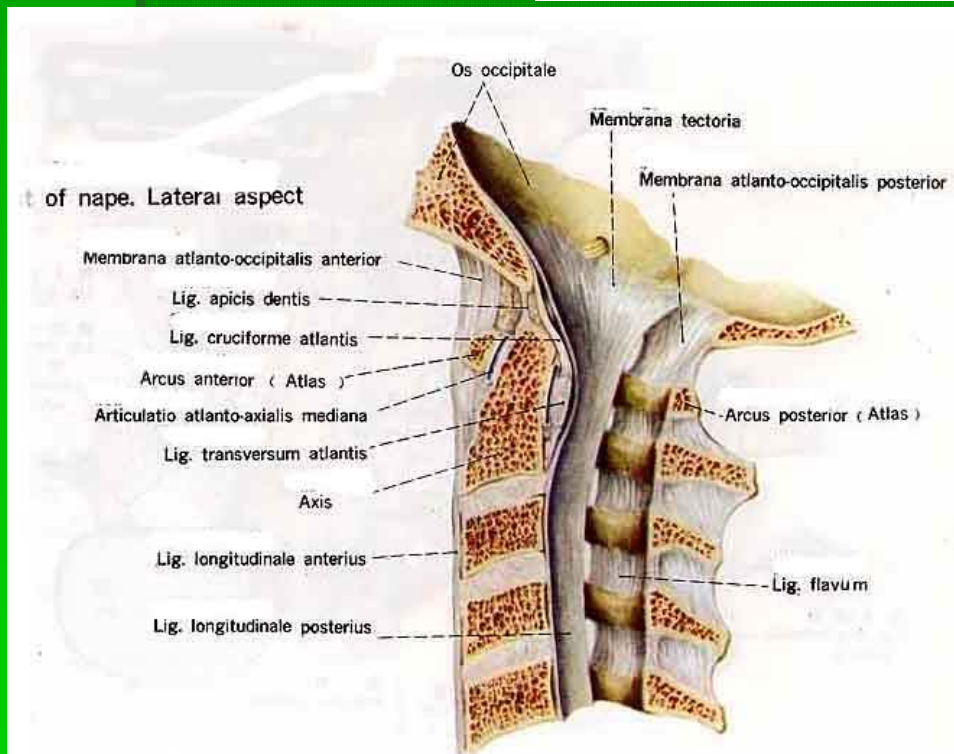


- Cervical facet joints
 - Parallel to frontal plane
 - 45 degrees to transverse plane
 - Rotation

Ligaments within cervical spine

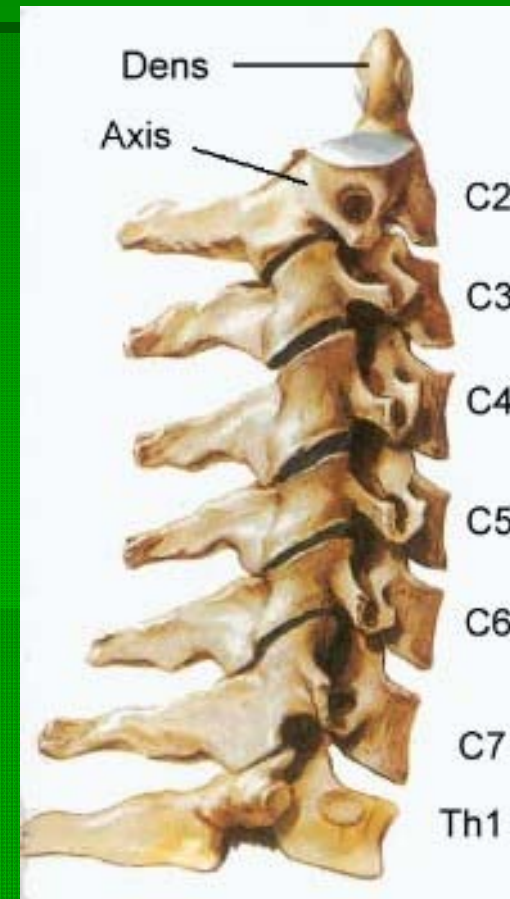


- Ligamentum Nuchae
- Interspinous Ligament
- Ligamentum Flava
- Posterior Atlanto-occipital membrane
- Intertransverse Ligament



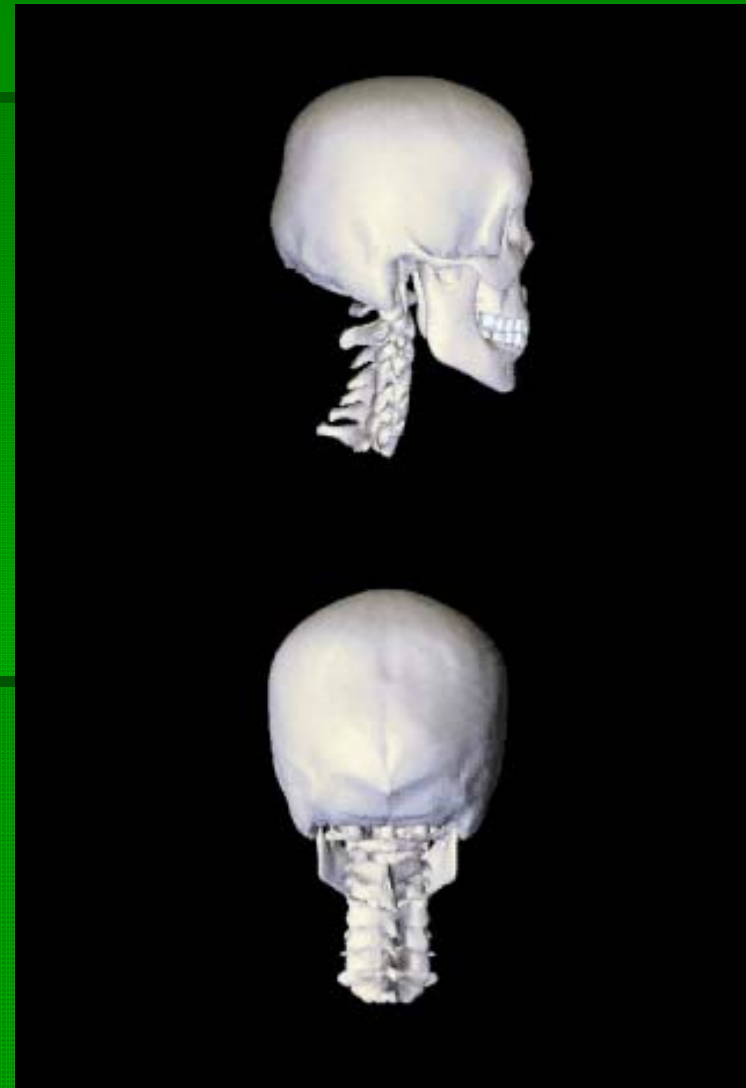
Curvature of cervical spine

- Lordotic Curve



Cervical spine movement

- Flexion/Extension
 - Atlanto-occipital
- Rotation
 - Atlanto-axial joint

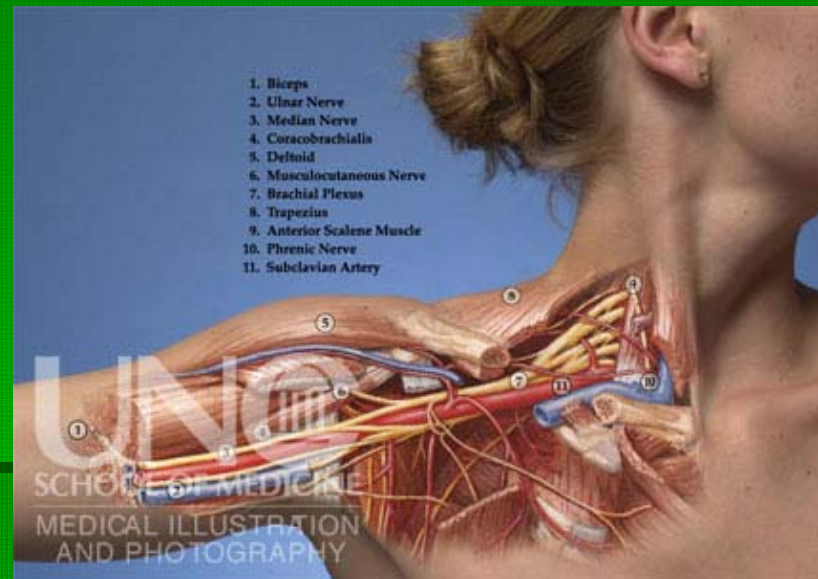


Muscles of cervical spine

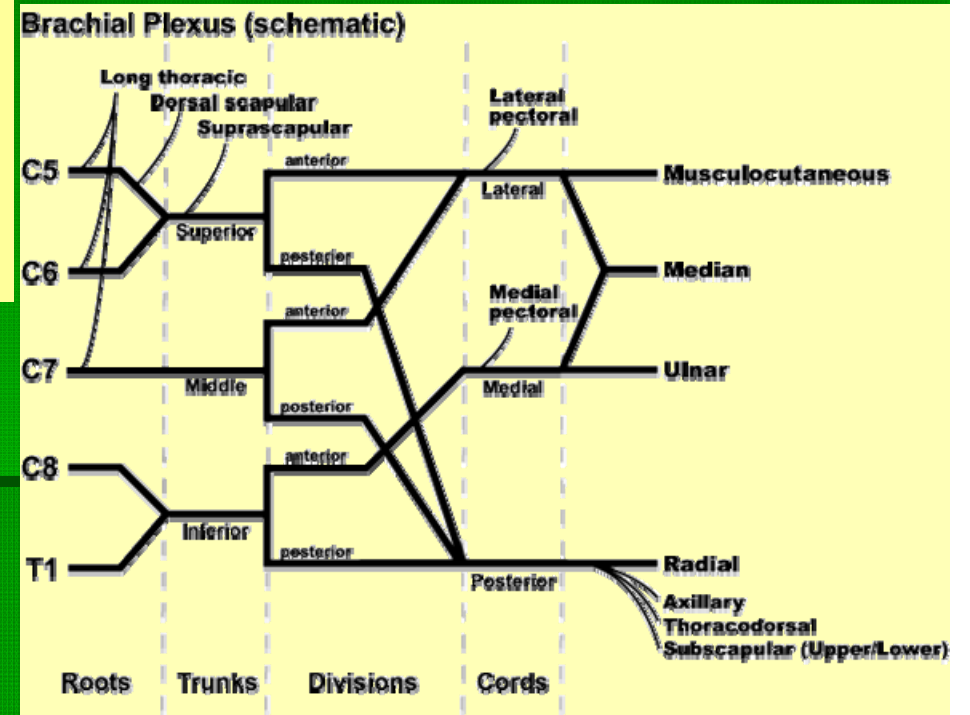
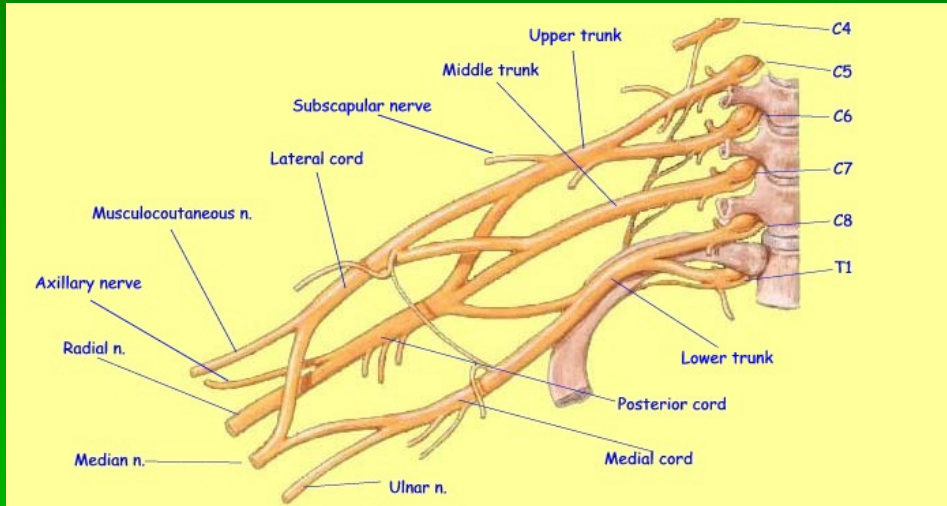
- See alternate power point

Brachial Plexus

- Nerve Roots
 - C5,6,7,8,T1
- Trunks
 - Upper
 - Middle
 - Lower
- Divisions
 - Anterior
 - Posterior
- Cords
 - Lateral
 - Posterior
 - Medial



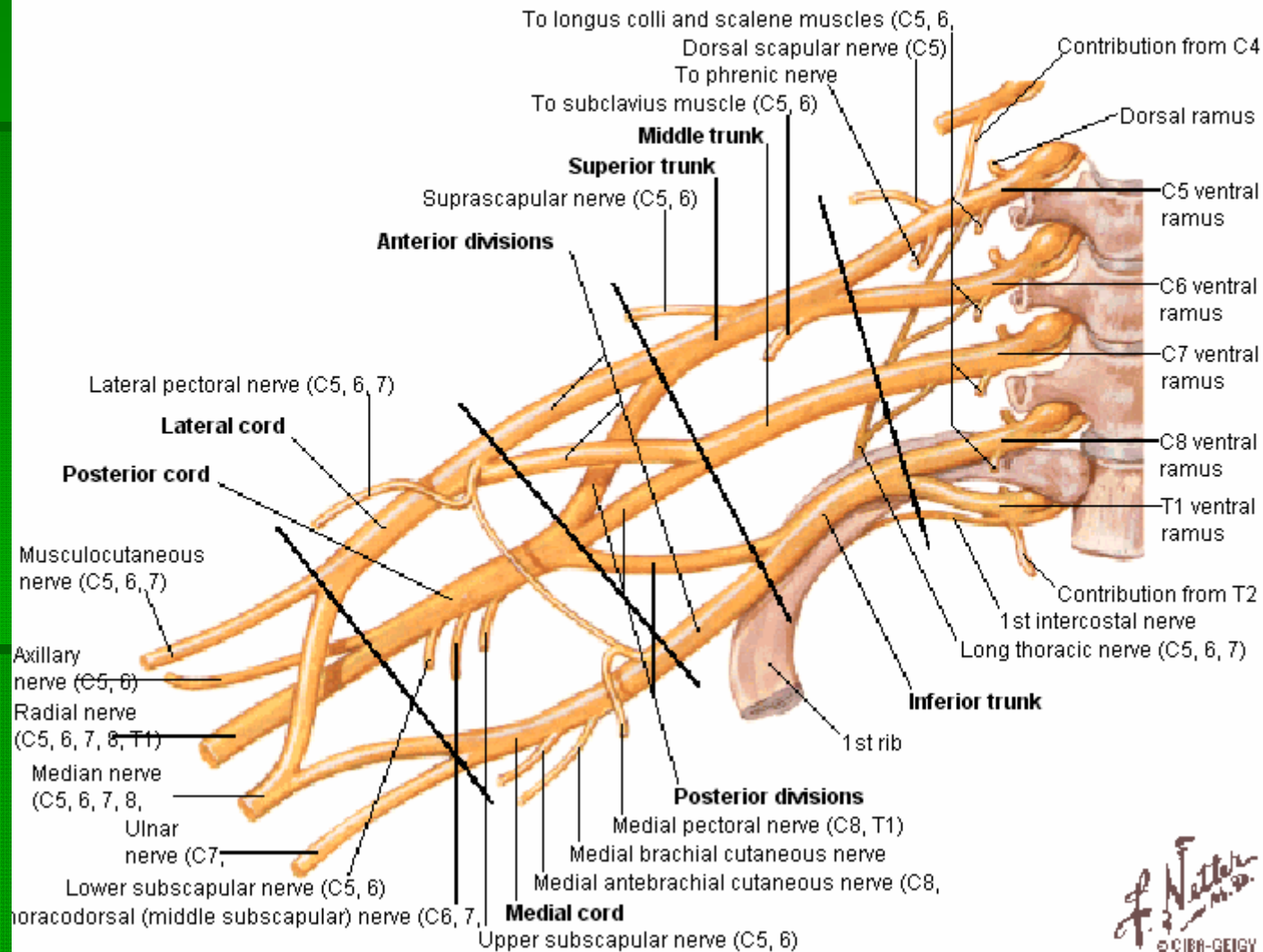
Brachial Plexus



Snapped with HyperSnap-DX
<http://www.hyperionics.com>

Brachial Plexus

Schema



Throat Anatomy



- 1. Thyroid gland
- 2. Trachea
- 3. Brachiocephalic artery
- 4. Common carotid artery
- 5. Internal jugular vein
- 6. Superior vena cava