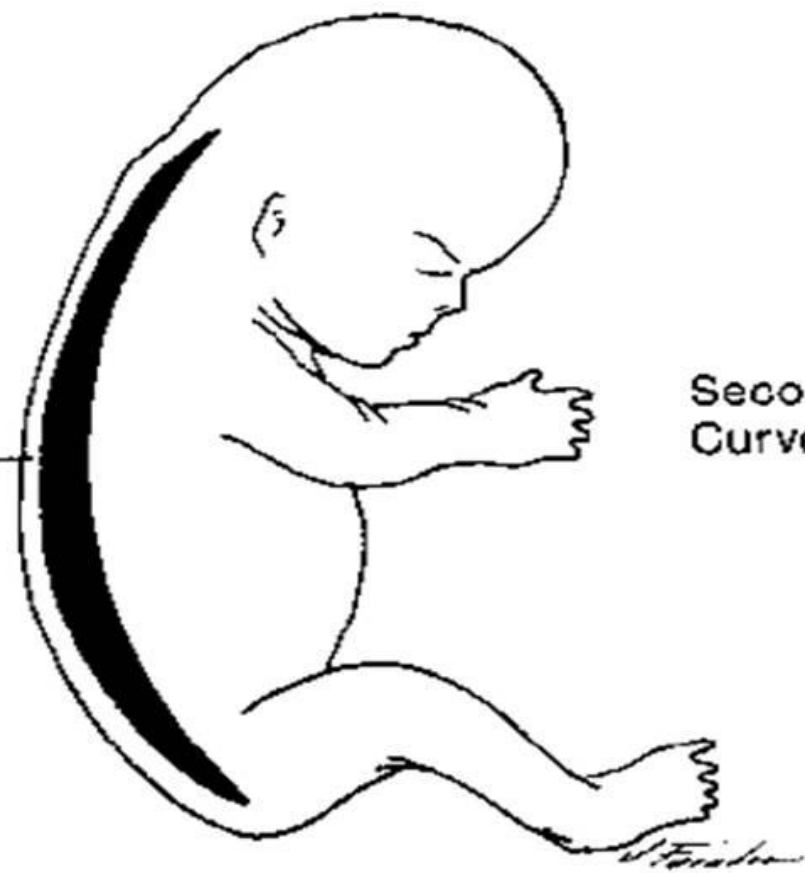


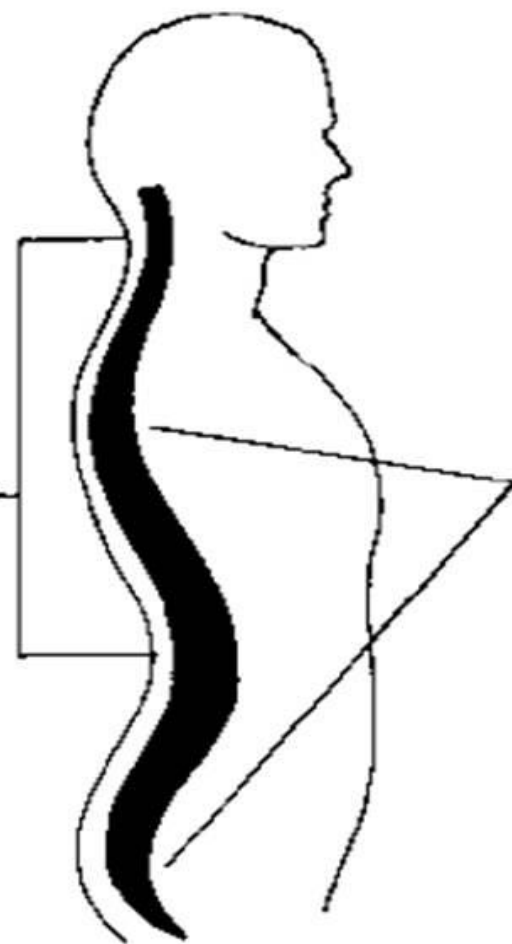
Cervical vertebrae

- What is the secondary curvature of cervical spine
- Which are the typical cervical vertebrae..C3 4 5 6
- What are their features
- What is pleurapophysis or costal element
- What is diapophysis or true transverse process
- What factor differentiates a cervical vertebra from a thoracic or a lumbar vertebra
- What passes through the foramen transversarium
- Name muscles attached to the anterior and posterior tubercles

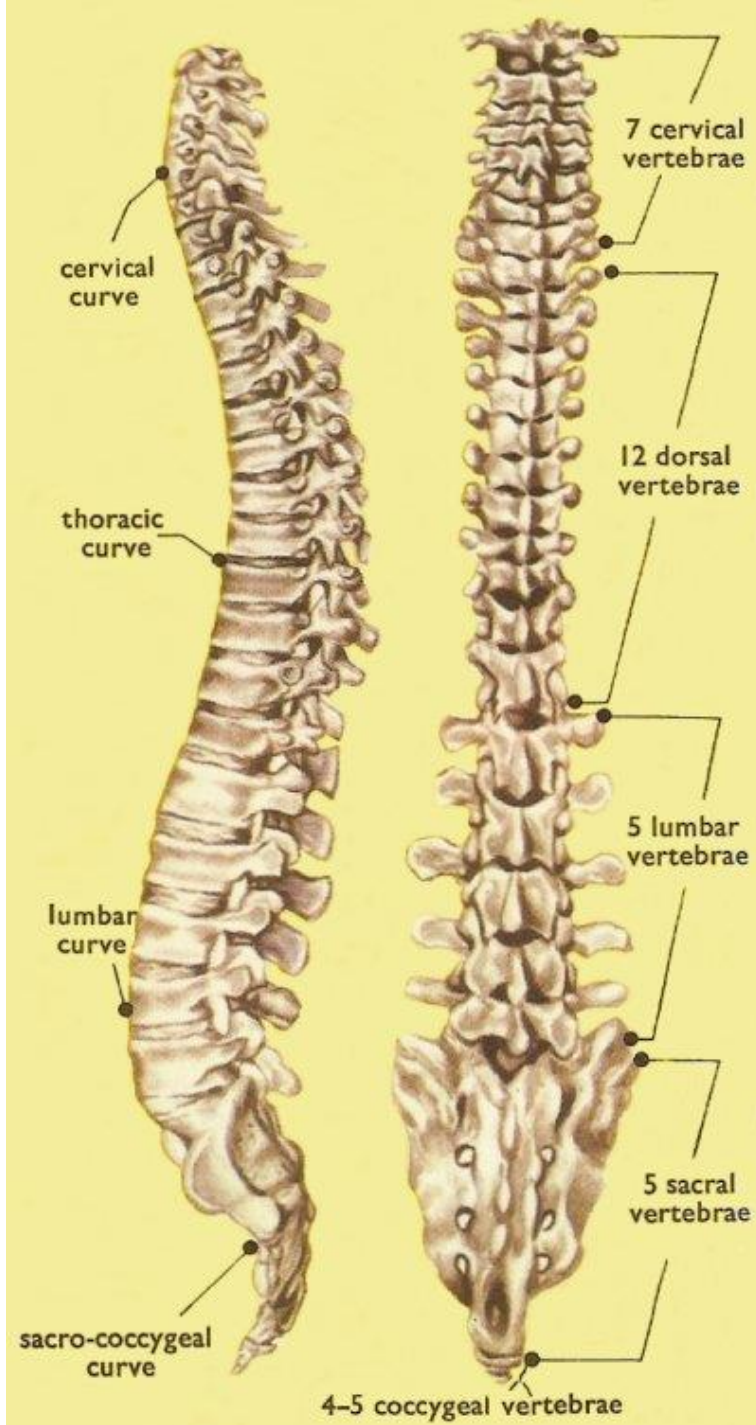
Posterior  
Convexity

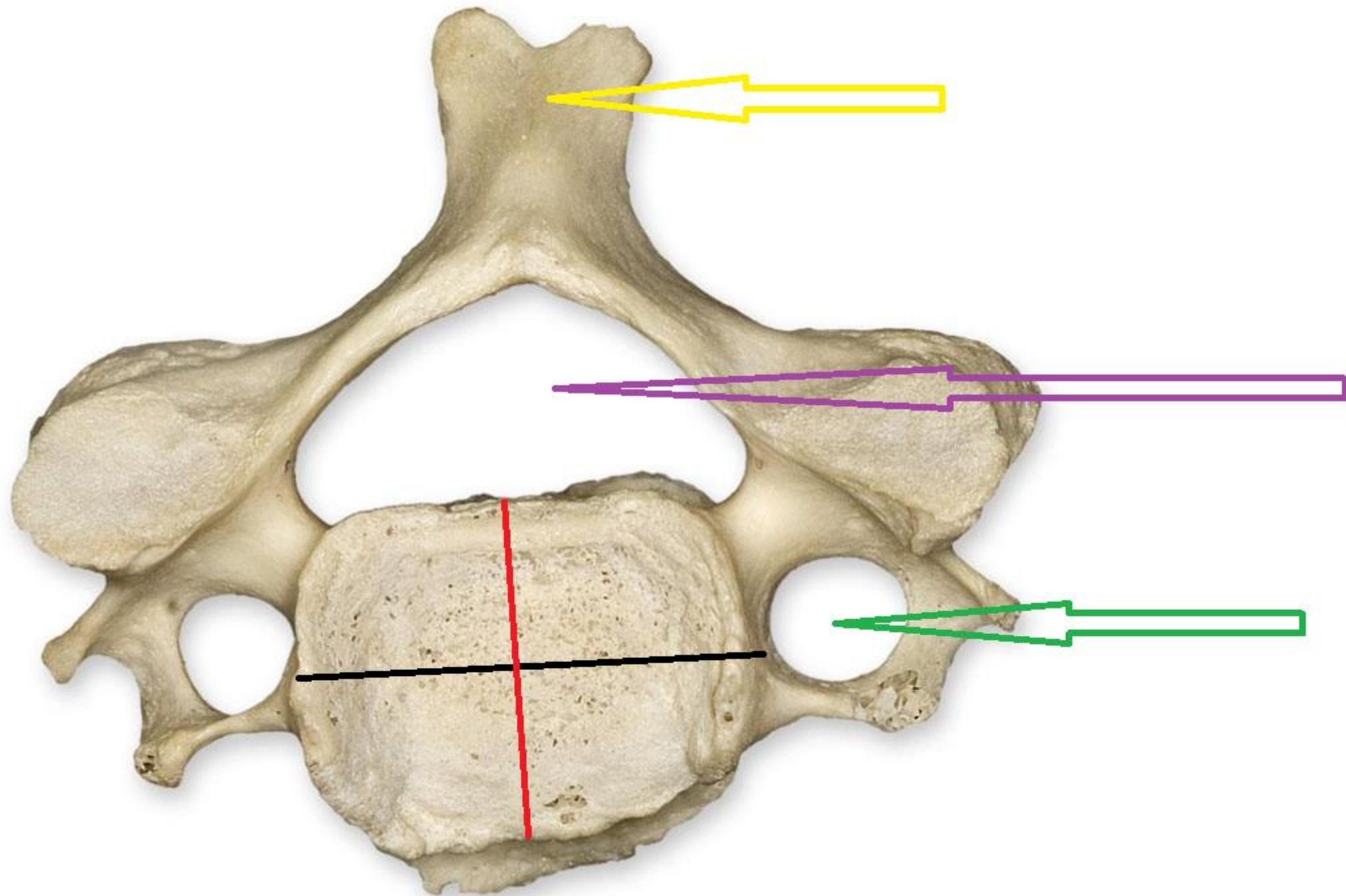


Secondary  
Curves

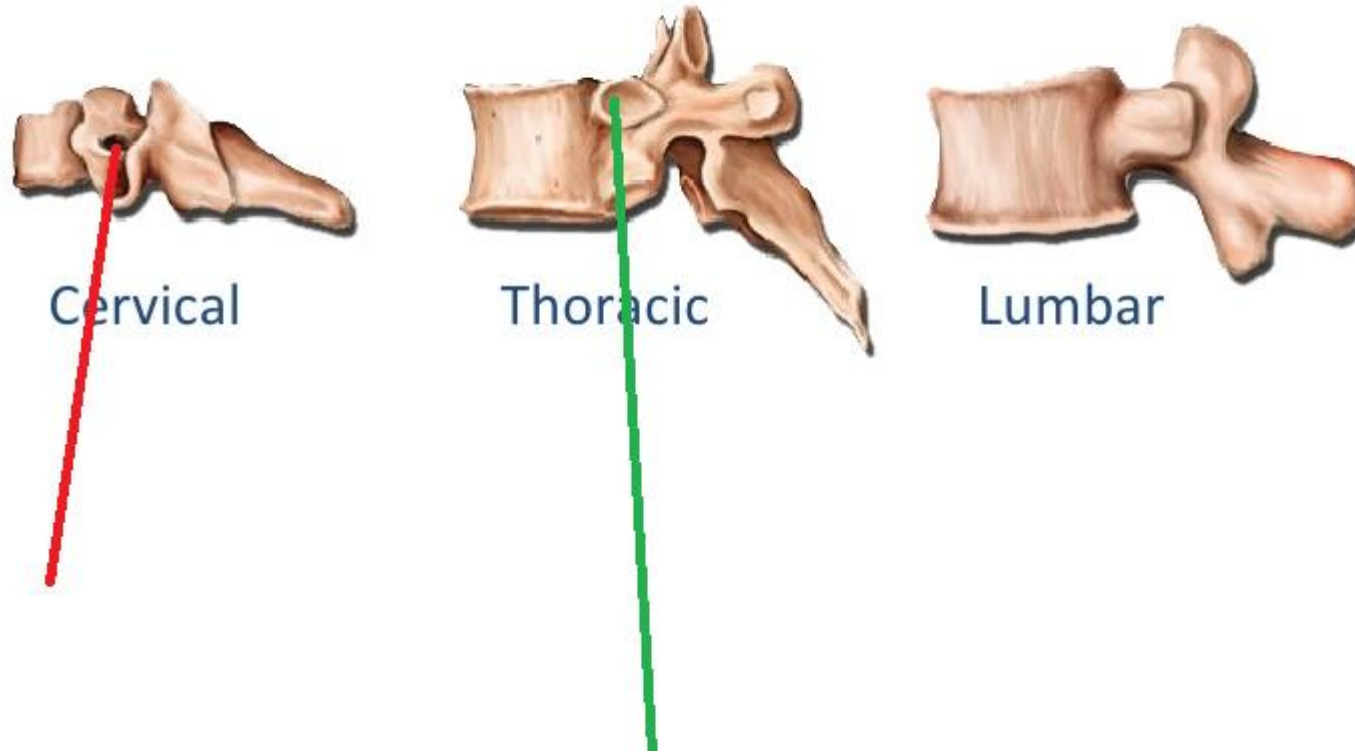


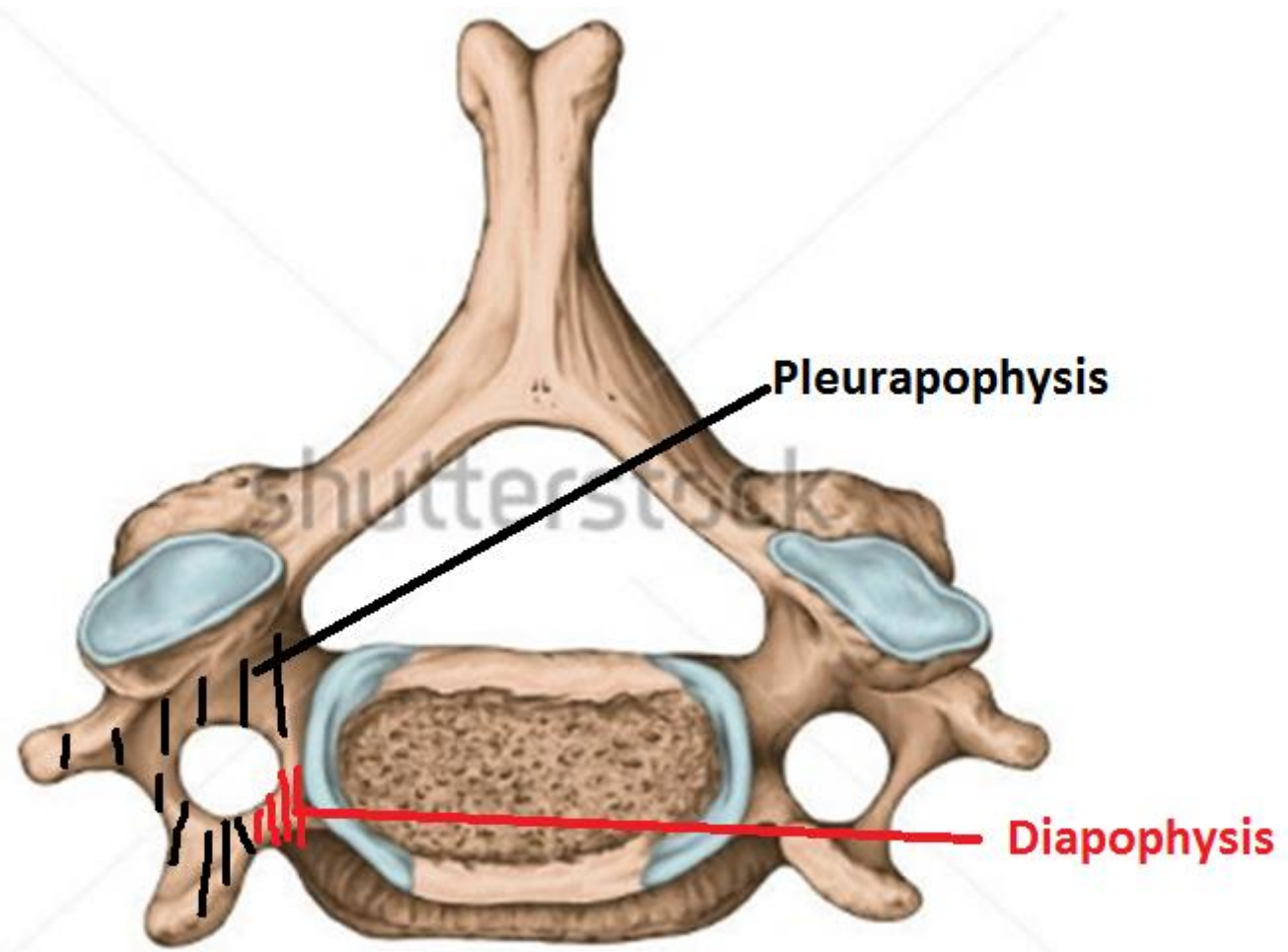
Primary  
Curves





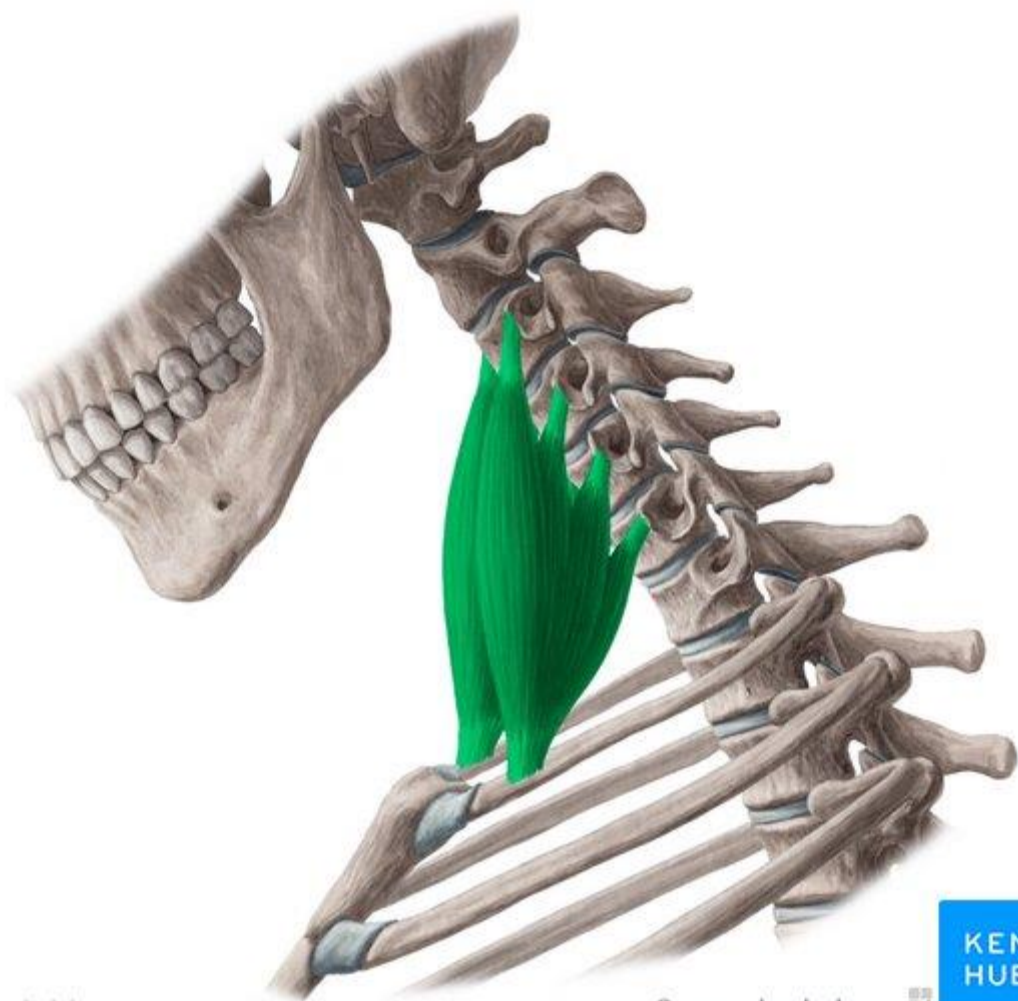
## Basic Vertebral Structures

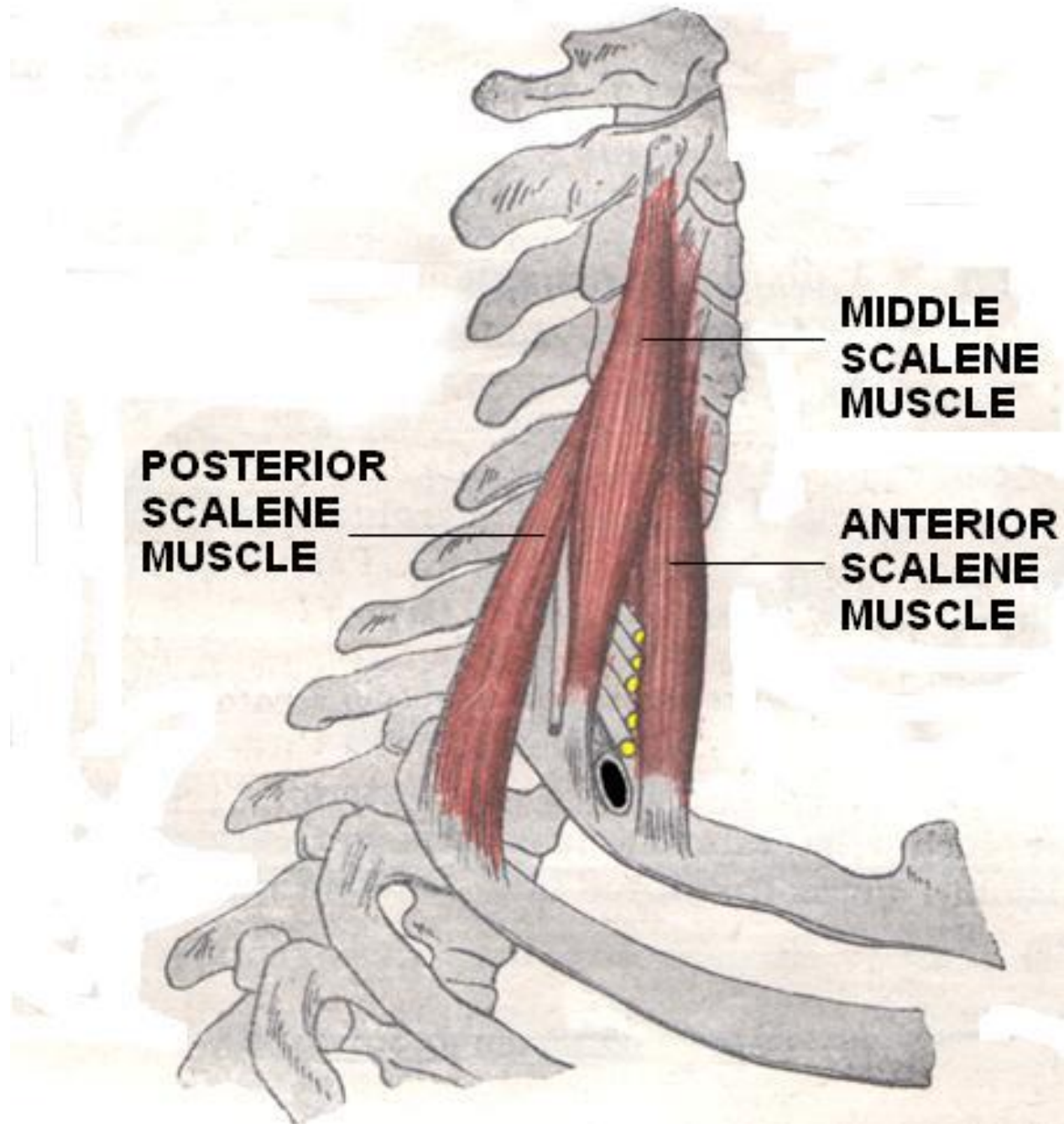




Pleurapophysis

Diapophysis

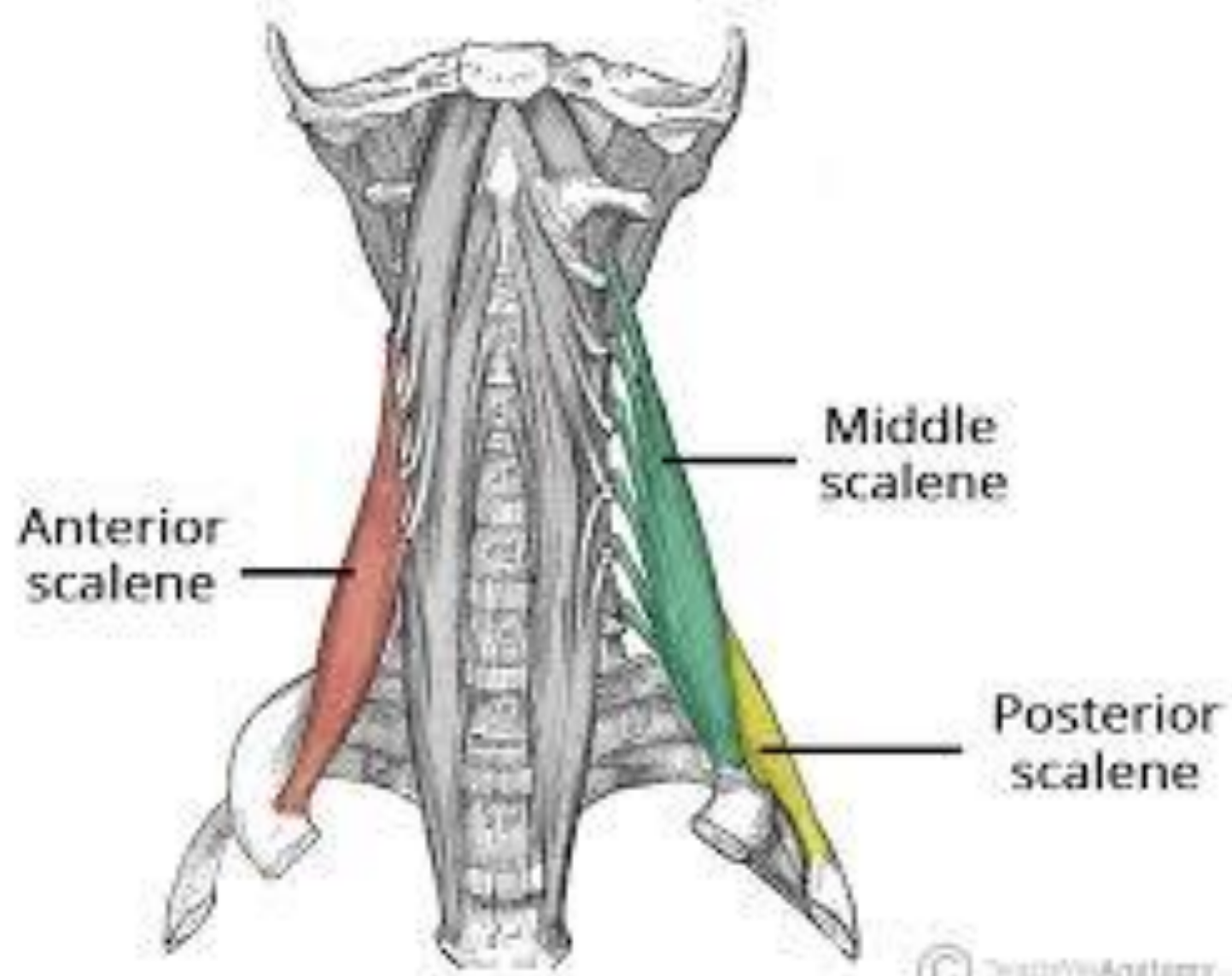


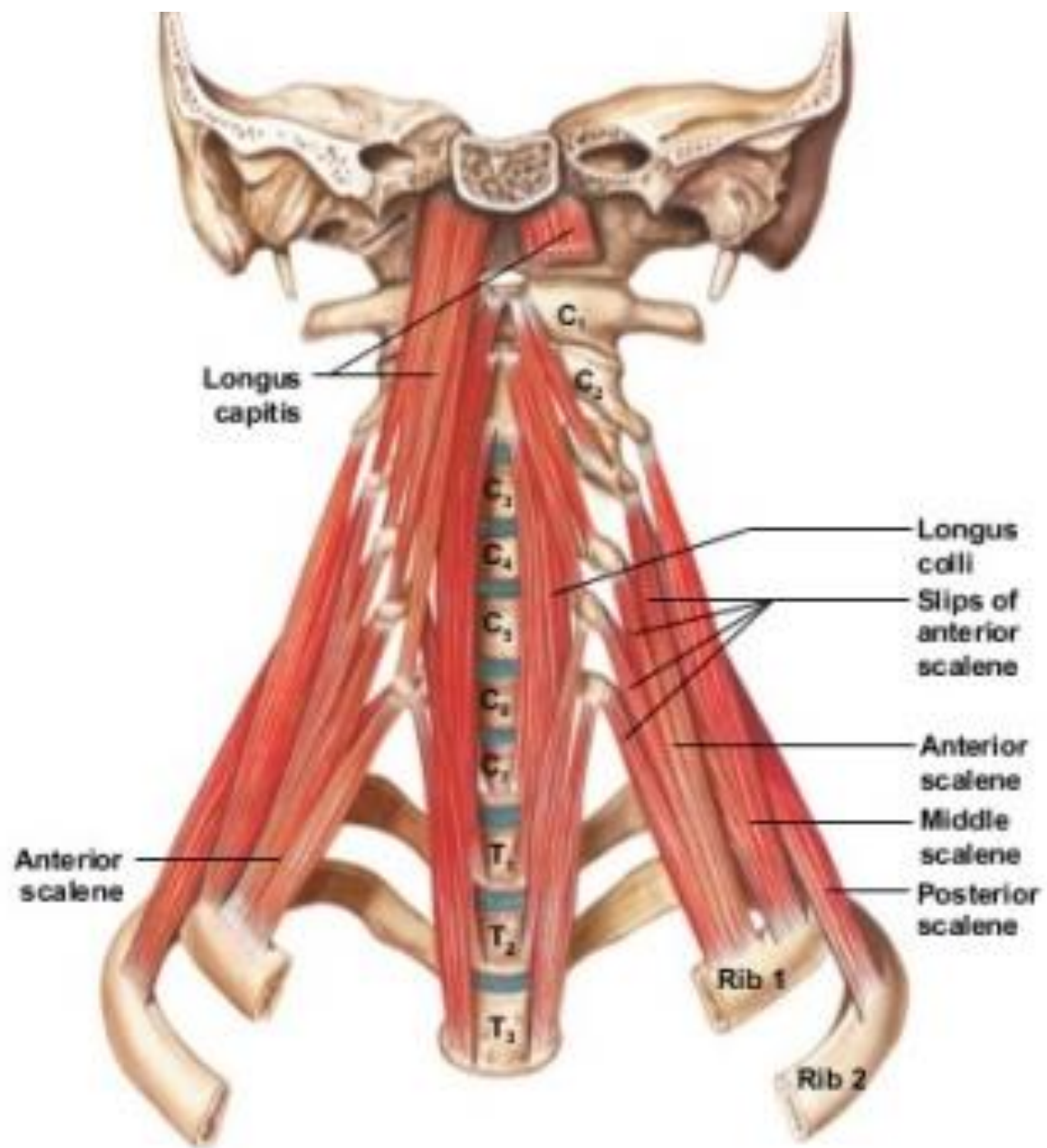


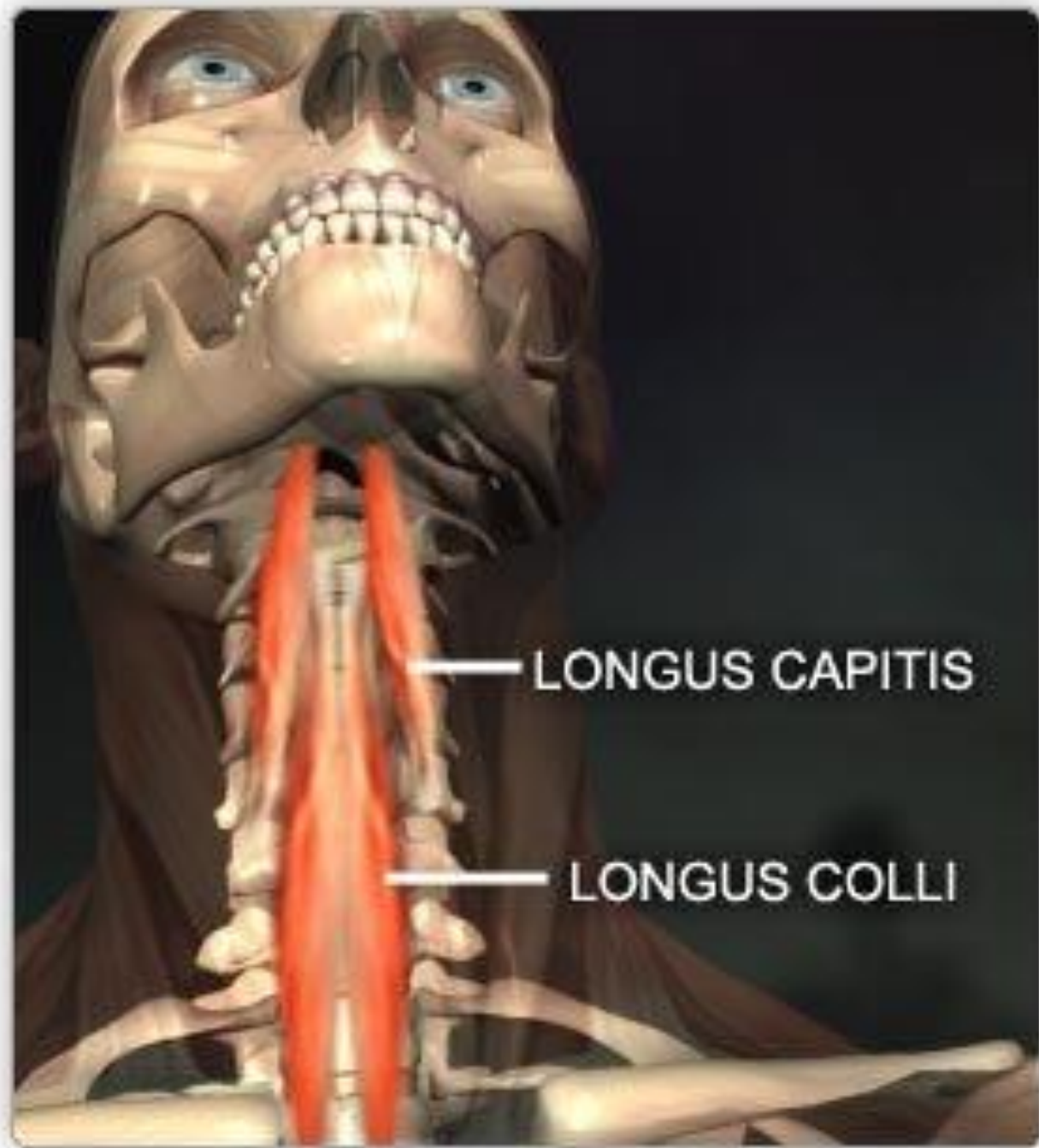
**POSTERIOR  
SCALENE  
MUSCLE**

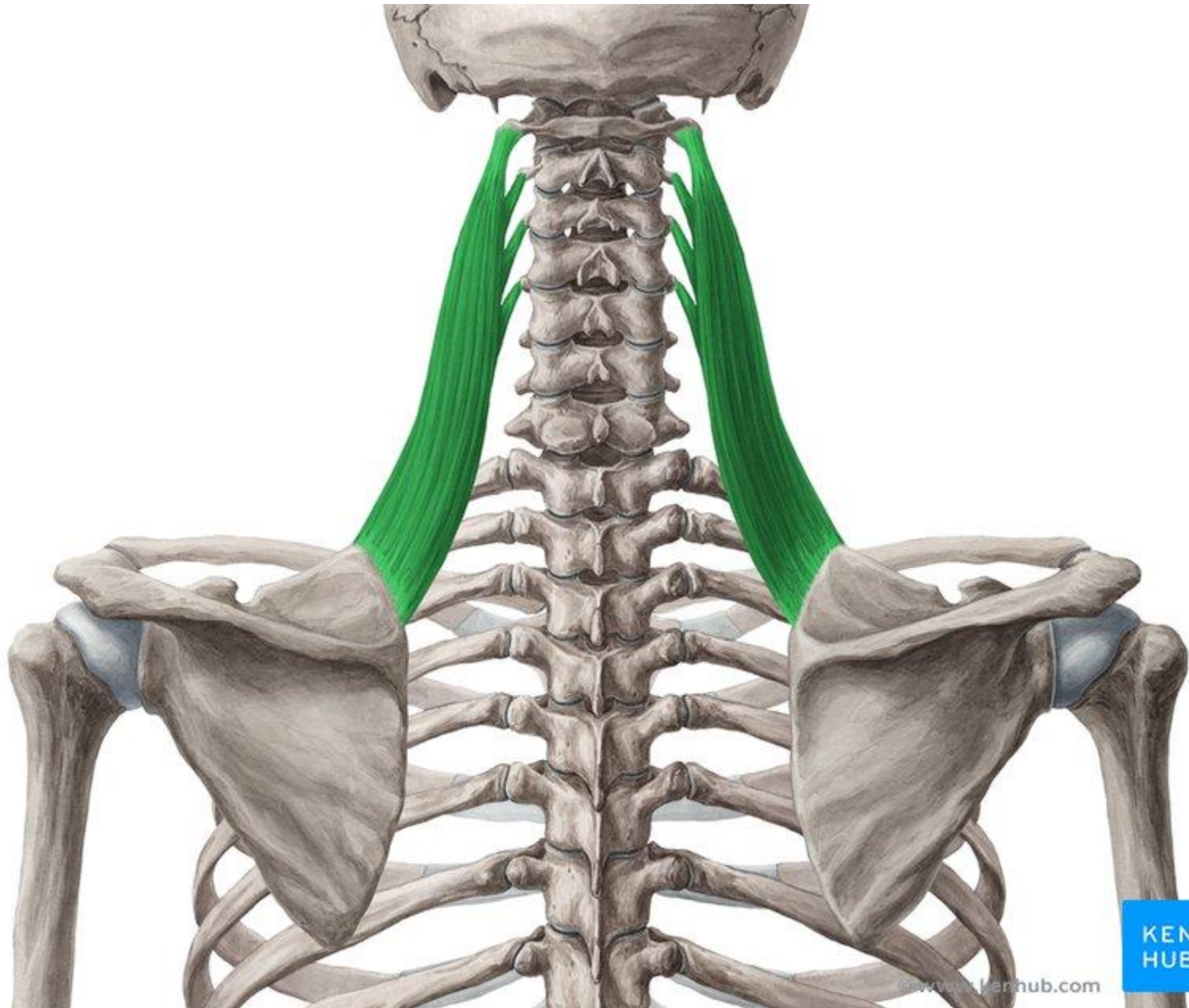
**MIDDLE  
SCALENE  
MUSCLE**

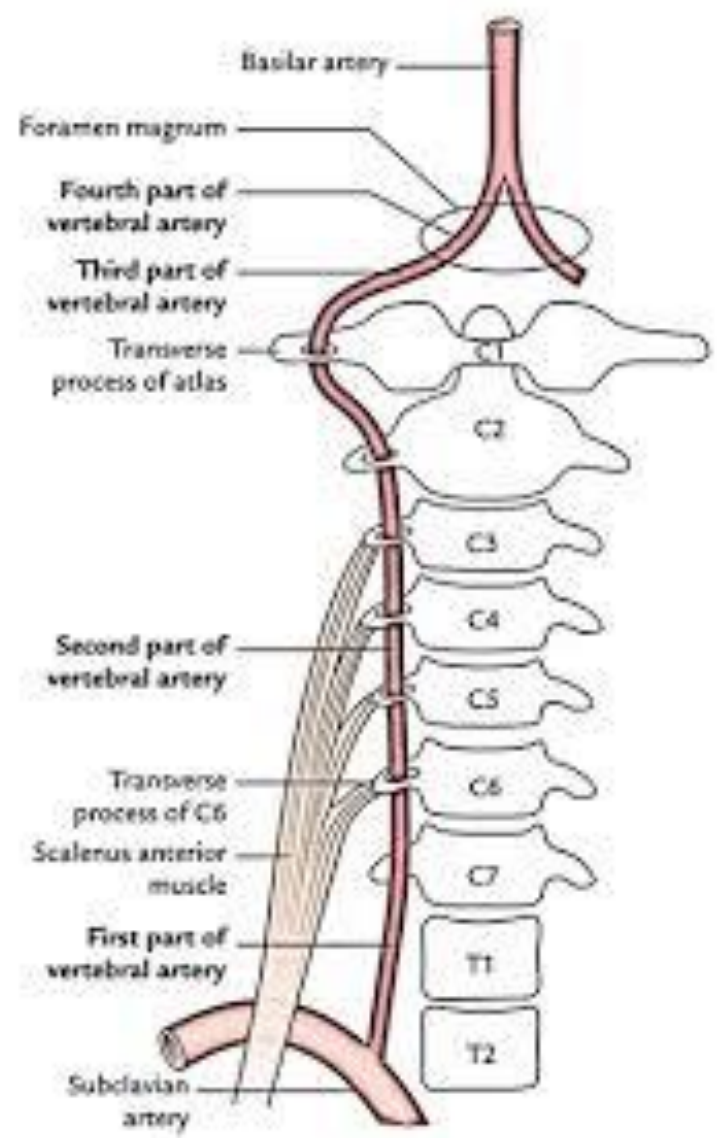
**ANTERIOR  
SCALENE  
MUSCLE**





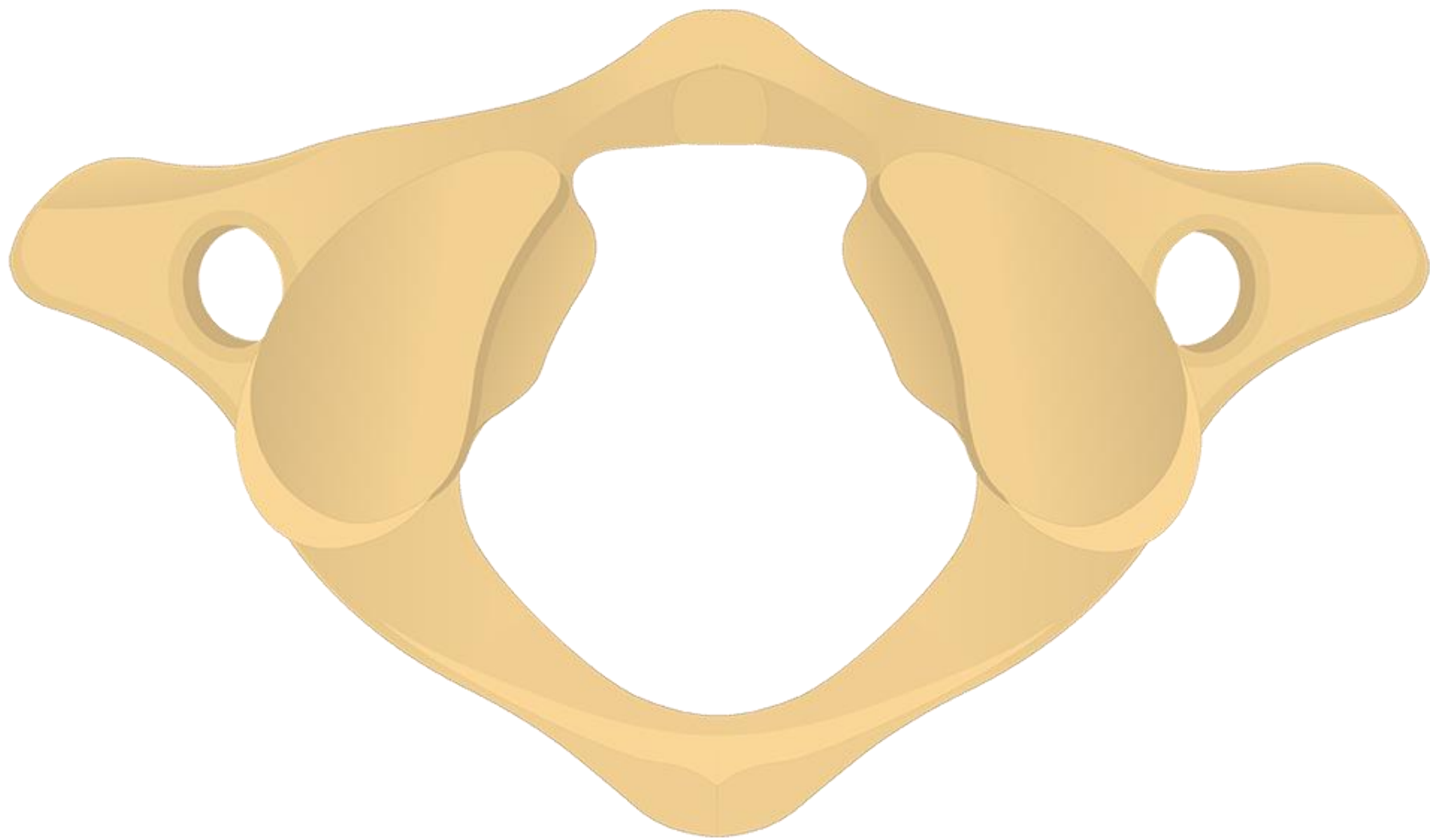


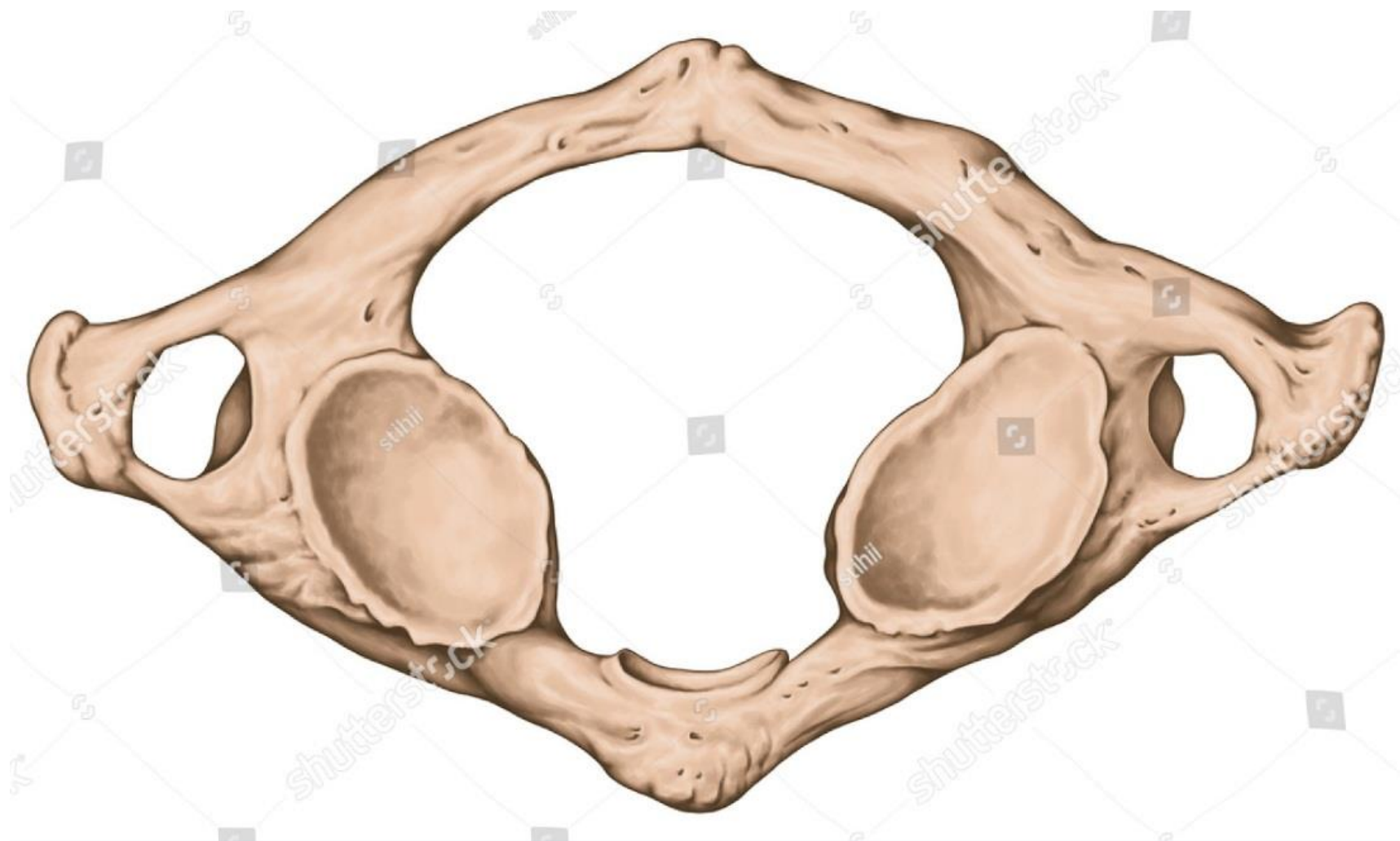


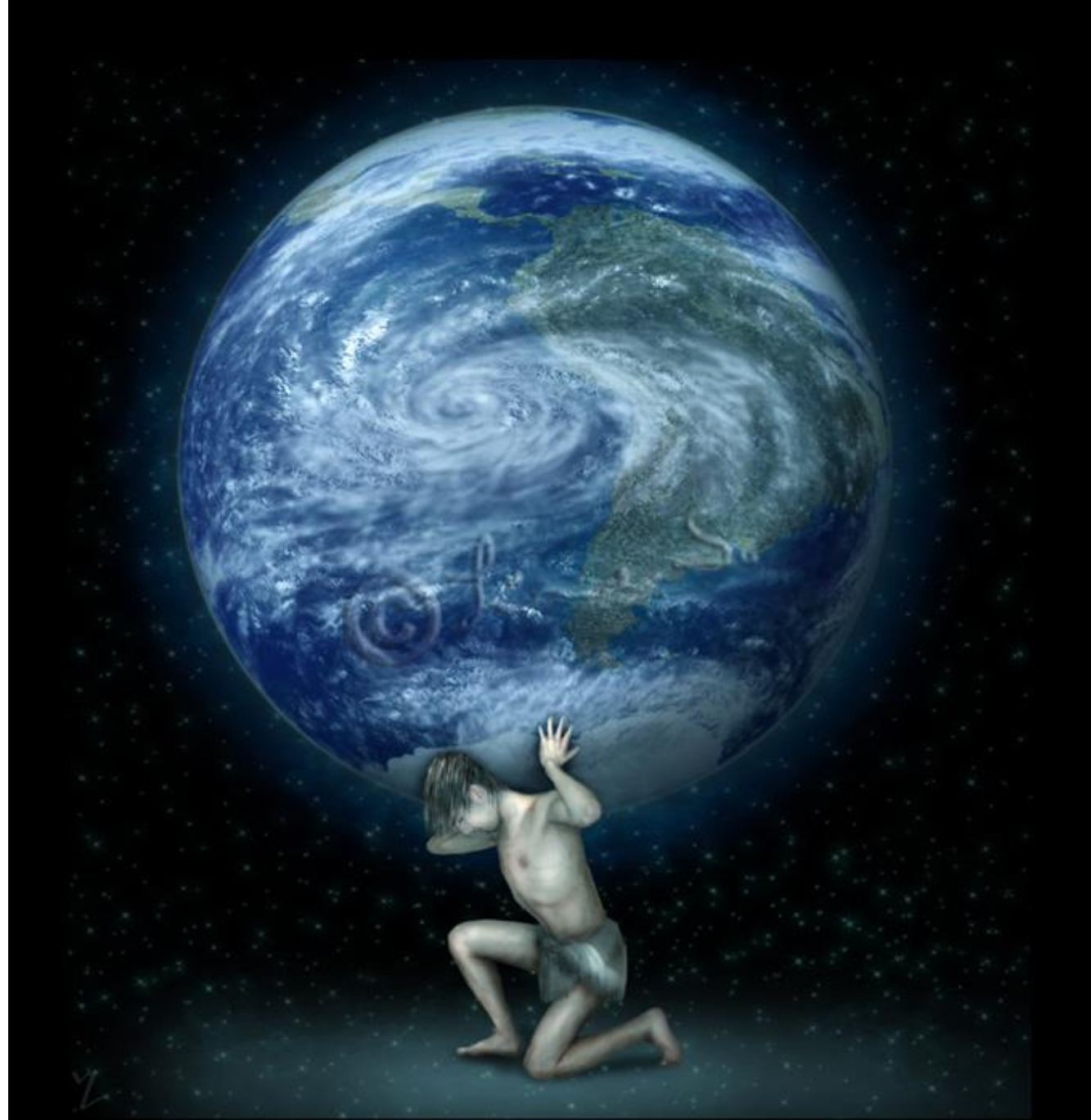


# Atlas and Axis

- Why is C1 atypical
- Why is C2 atypical
- Hold atlas in correct anatomical position (Anterior arch short, superior facets kidney shaped)
- Why is it called atlas (Holds the globe of the head like Greek God)
- Articulate it with the axis. Show movements
- Why is axis called so (Because it provides the axis around which the atlas rotates)

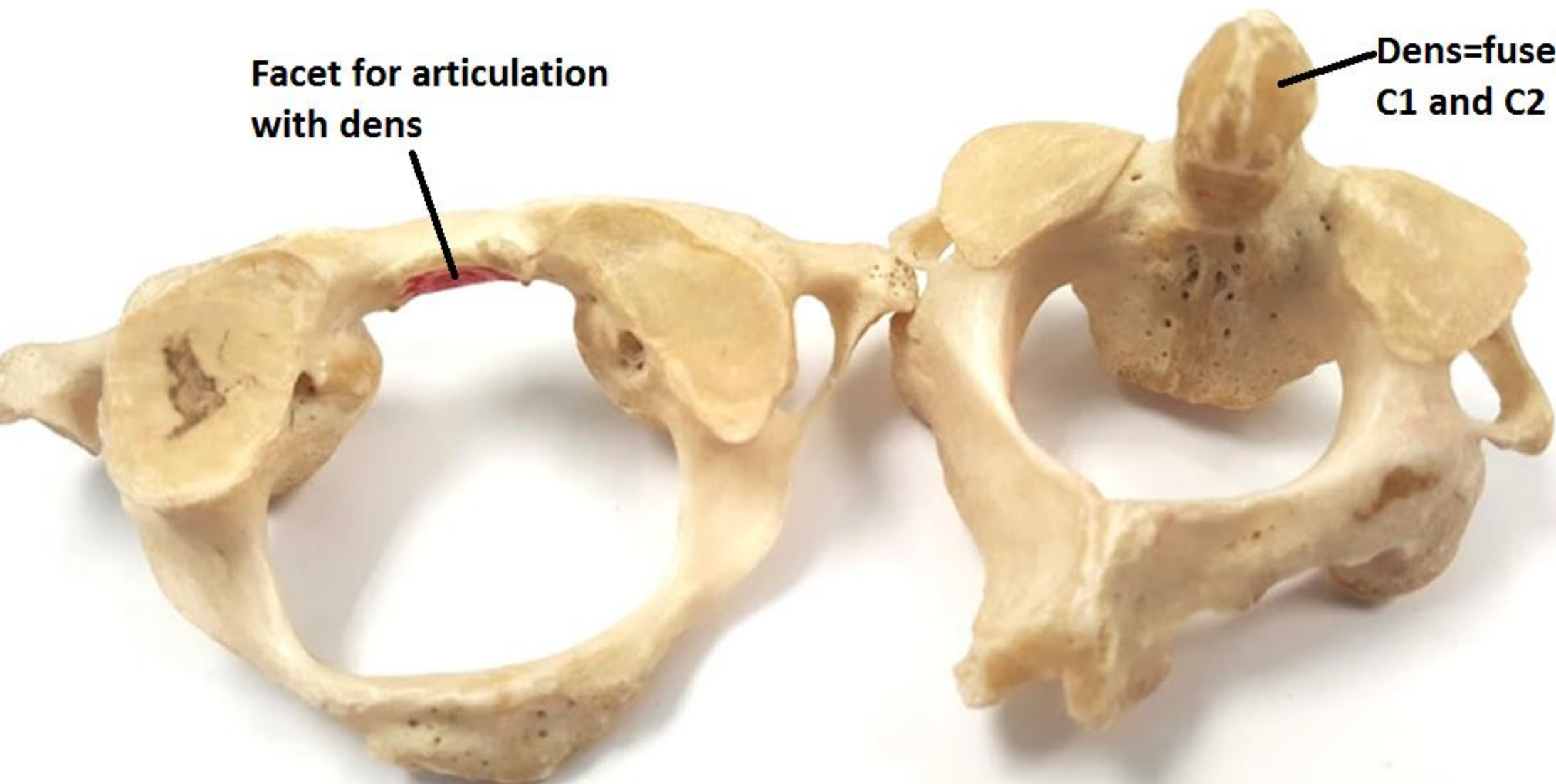




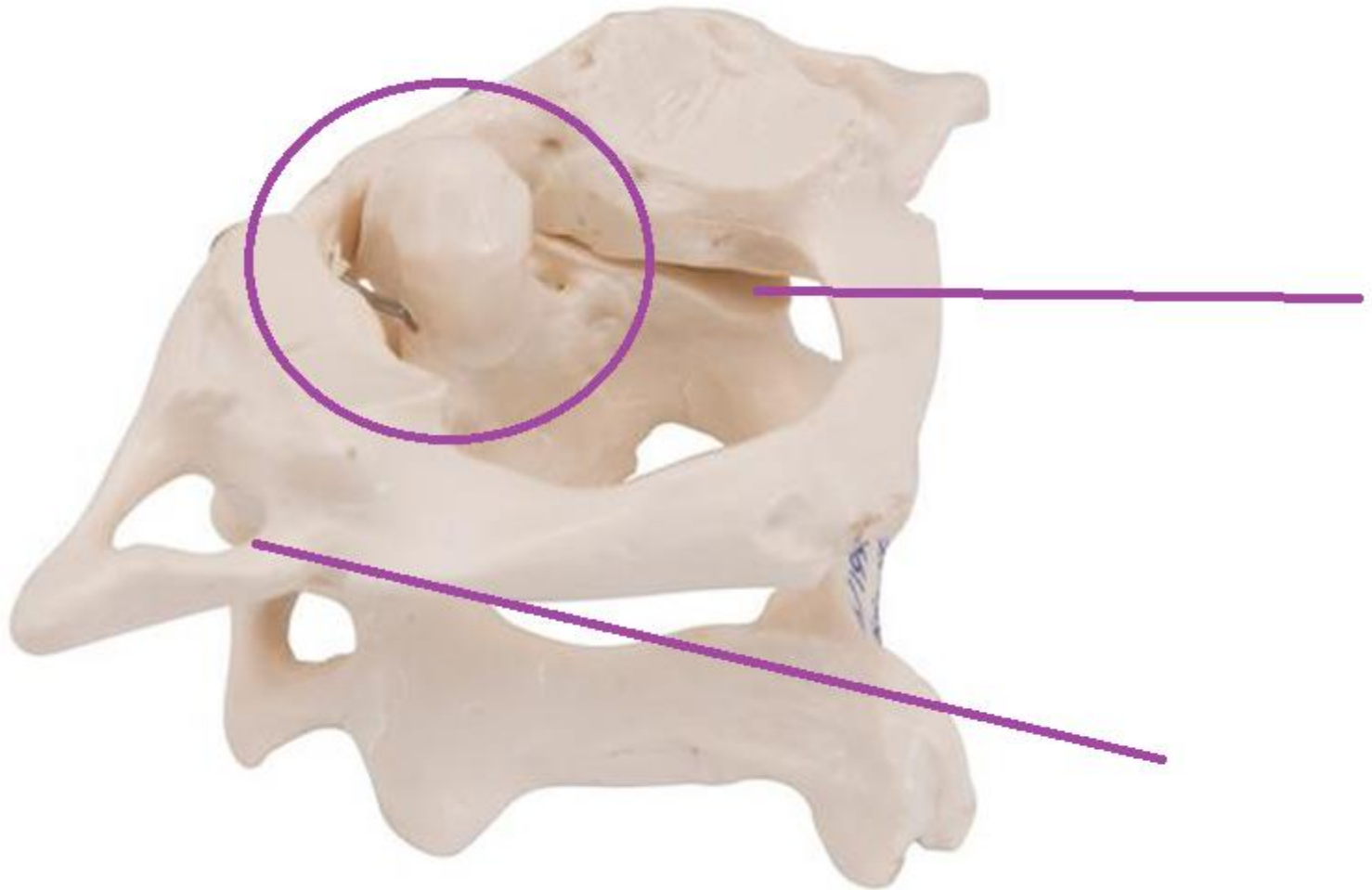


**Facet for articulation  
with dens**

**Dens=fused bodies of  
C1 and C2**

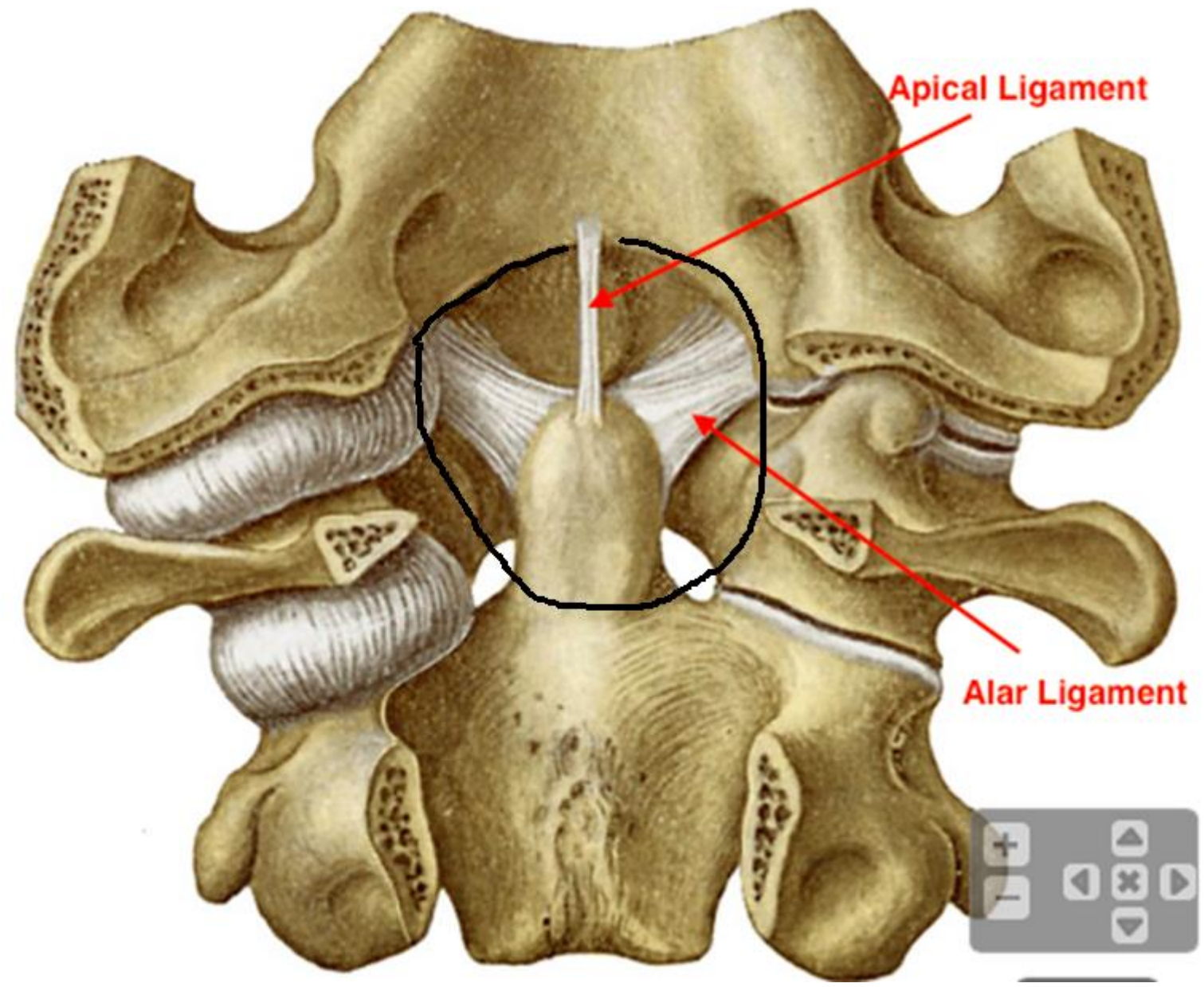






# Atlas and Axis

- Where is the body of the atlas (Fused with that of the axis to form the dens or odontoid process)
- What does the dens signify (Fused bodies of Atlas and Axis)
- Why is it called the dens (Looks like a tooth)



Apical Ligament

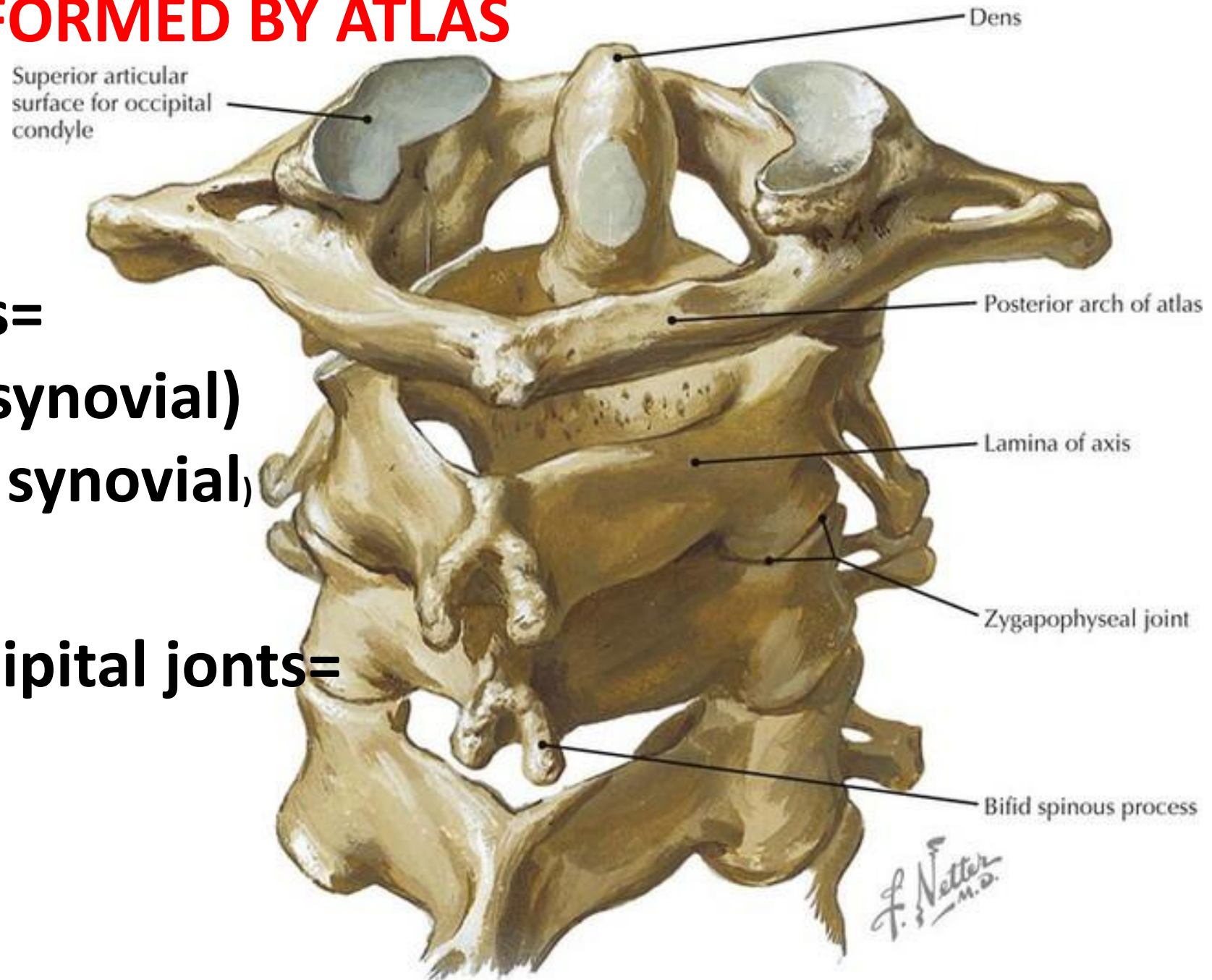
Alar Ligament

- Joints between the C1 and C2...atlanto axial joints...classify with movement
- Atlanto occipital joints...classify with movement

# JOINTS FORMED BY ATLAS

**3 atlanto axial joints=  
one median (Pivot synovial)  
And 2 lateral (Plane synovial)**

**A pair of atlanto occipital joints=  
Bicondylar Synovial**



# Atlas and Axis Articulation

Axis of rotation

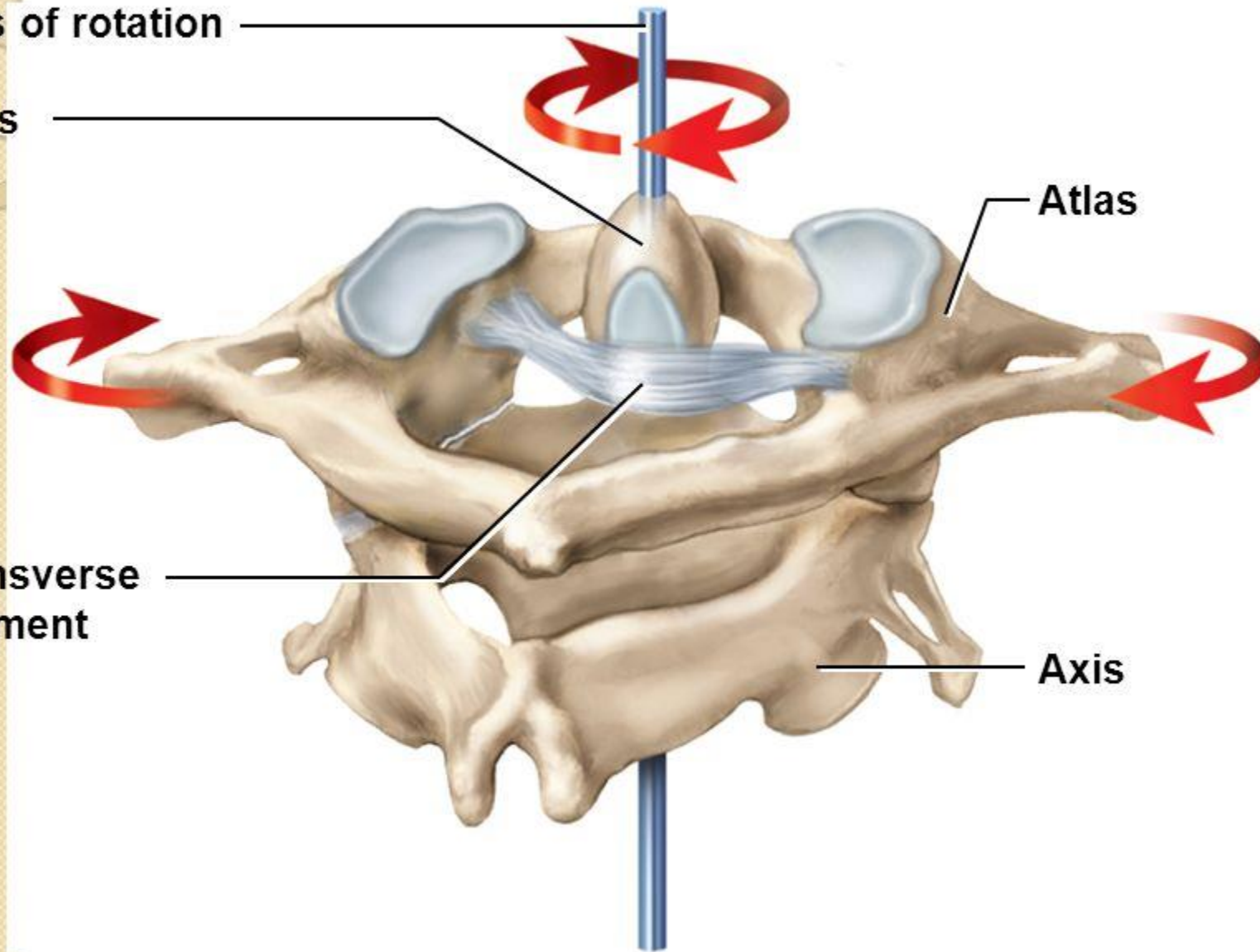
Dens

Atlas

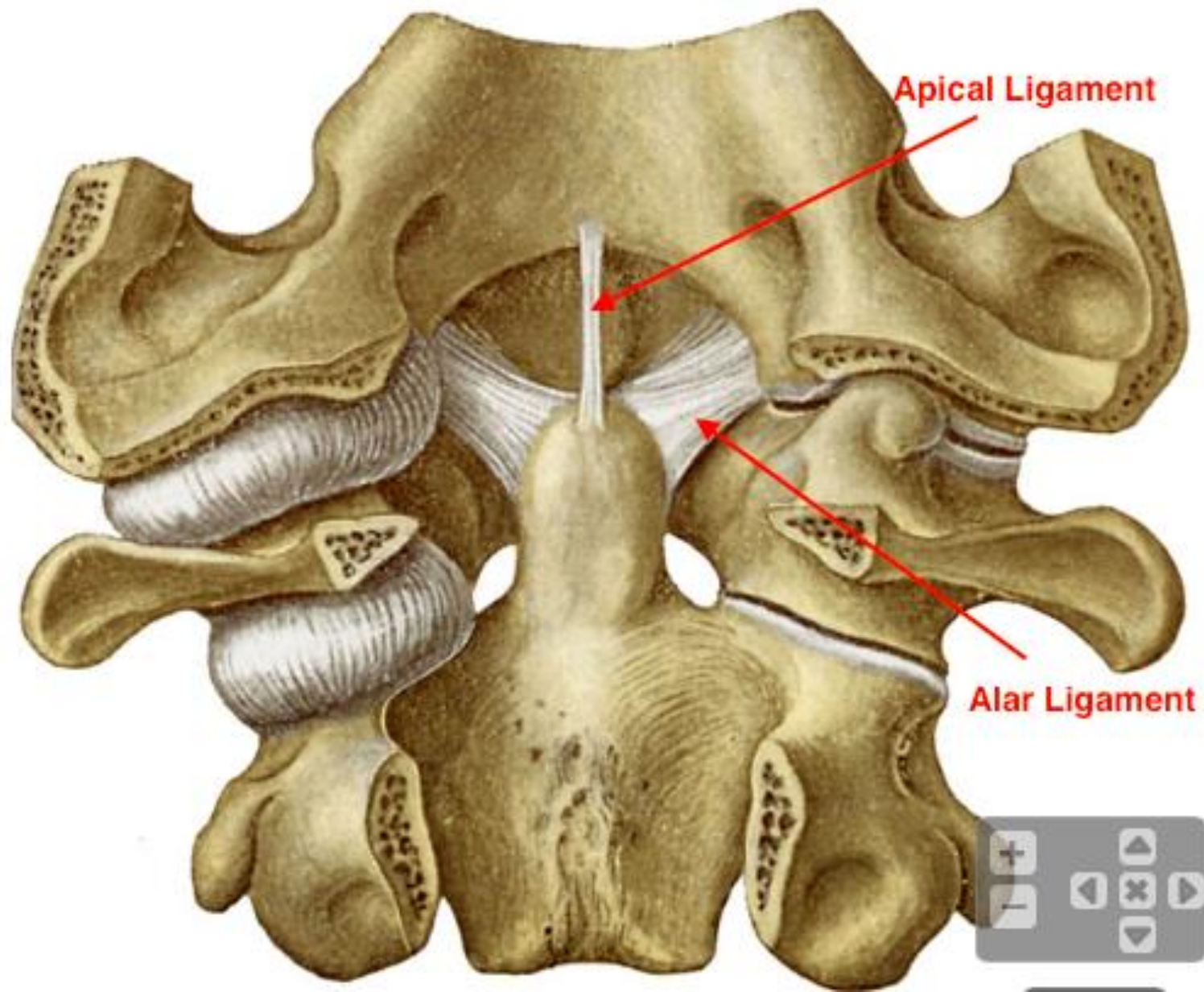
Transverse ligament

Axis

Atlantoaxial joint



- Ligaments attached to dens (Apical and alar ligaments)

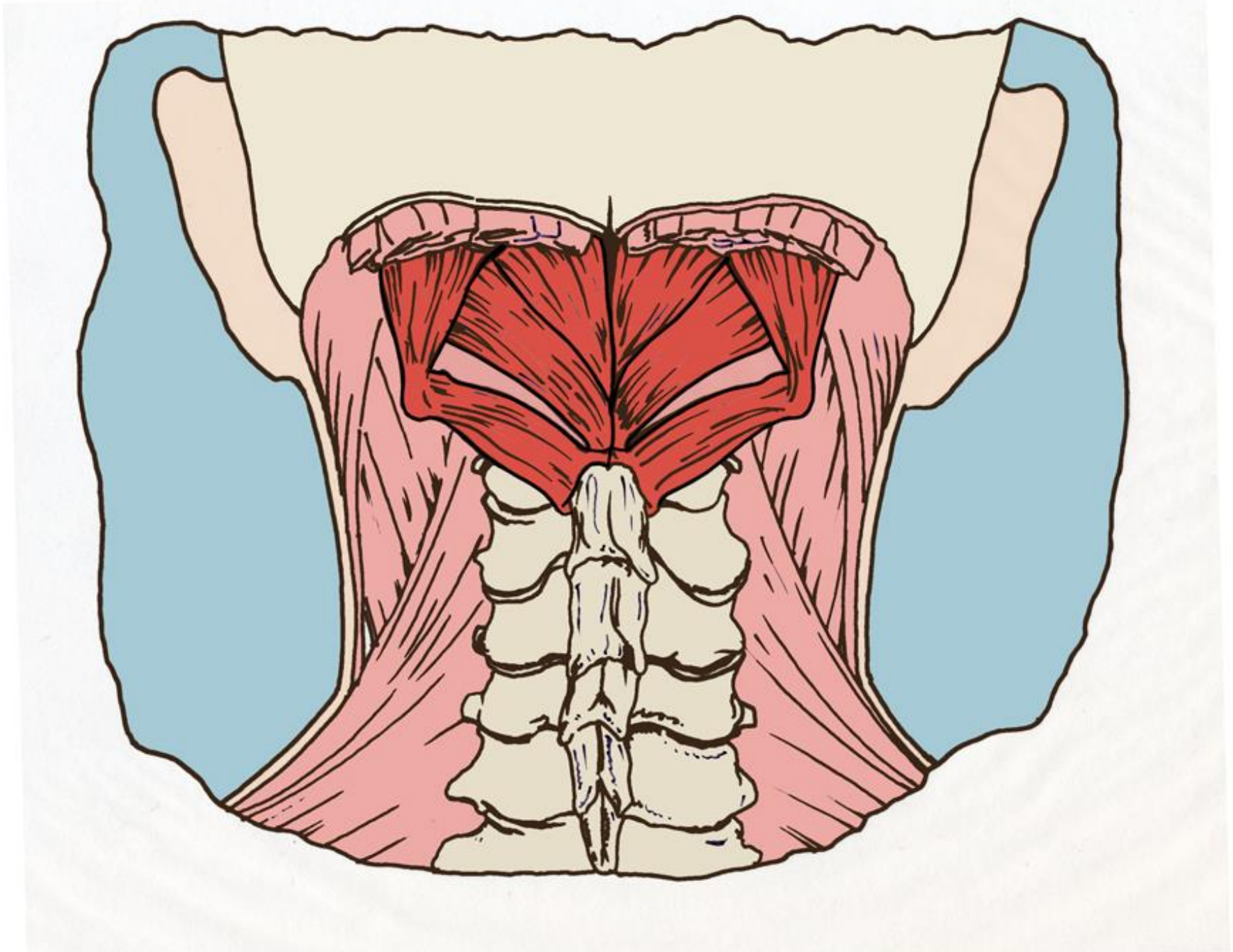


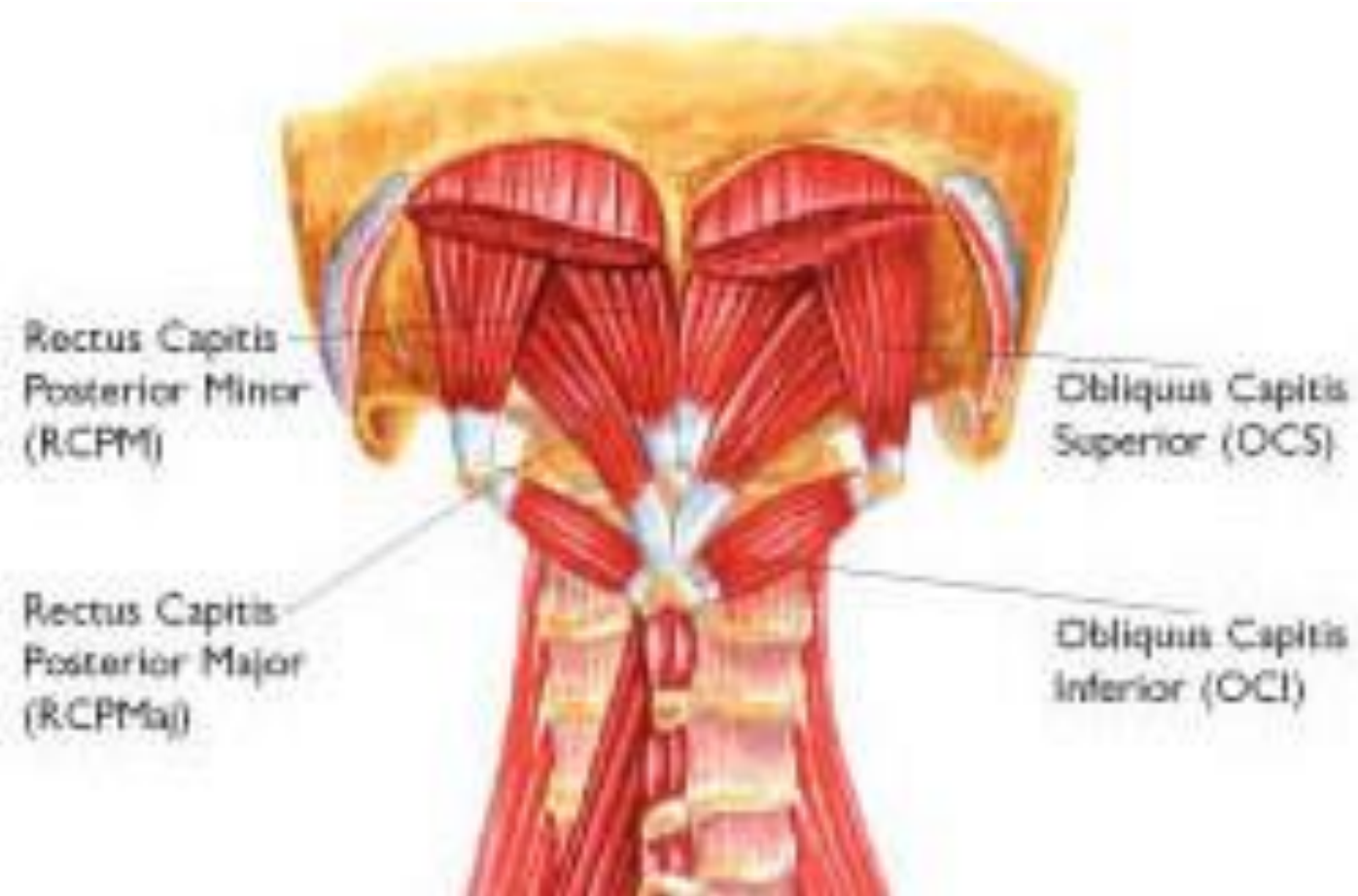
Apical Ligament

Alar Ligament



- Why is the spine of the axis large. Name muscles attached to it





Rectus Capitis  
Posterior Minor  
(RCPM)

Rectus Capitis  
Posterior Major  
(RCPMa)

Obliquus Capitis  
Superior (OCS)

Obliquus Capitis  
Inferior (OCI)

# C7

- Why is it atypical? (Has a prominent spine, only vertebral veins pass through the foramen transversarium)
- What passes through the foramen transversarium of C7
- Why is it also called vertebrae prominens (because of its long prominent spine)

