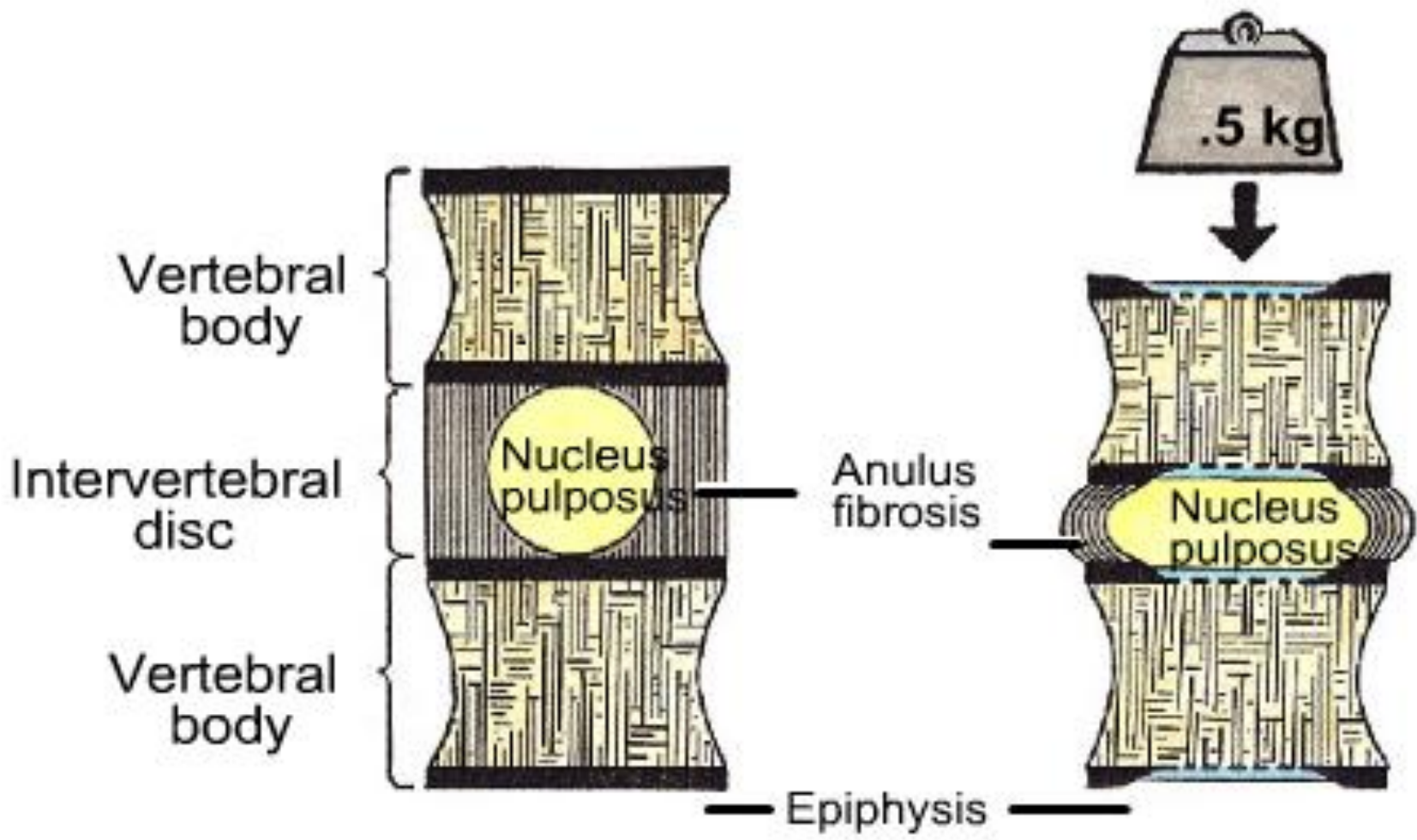
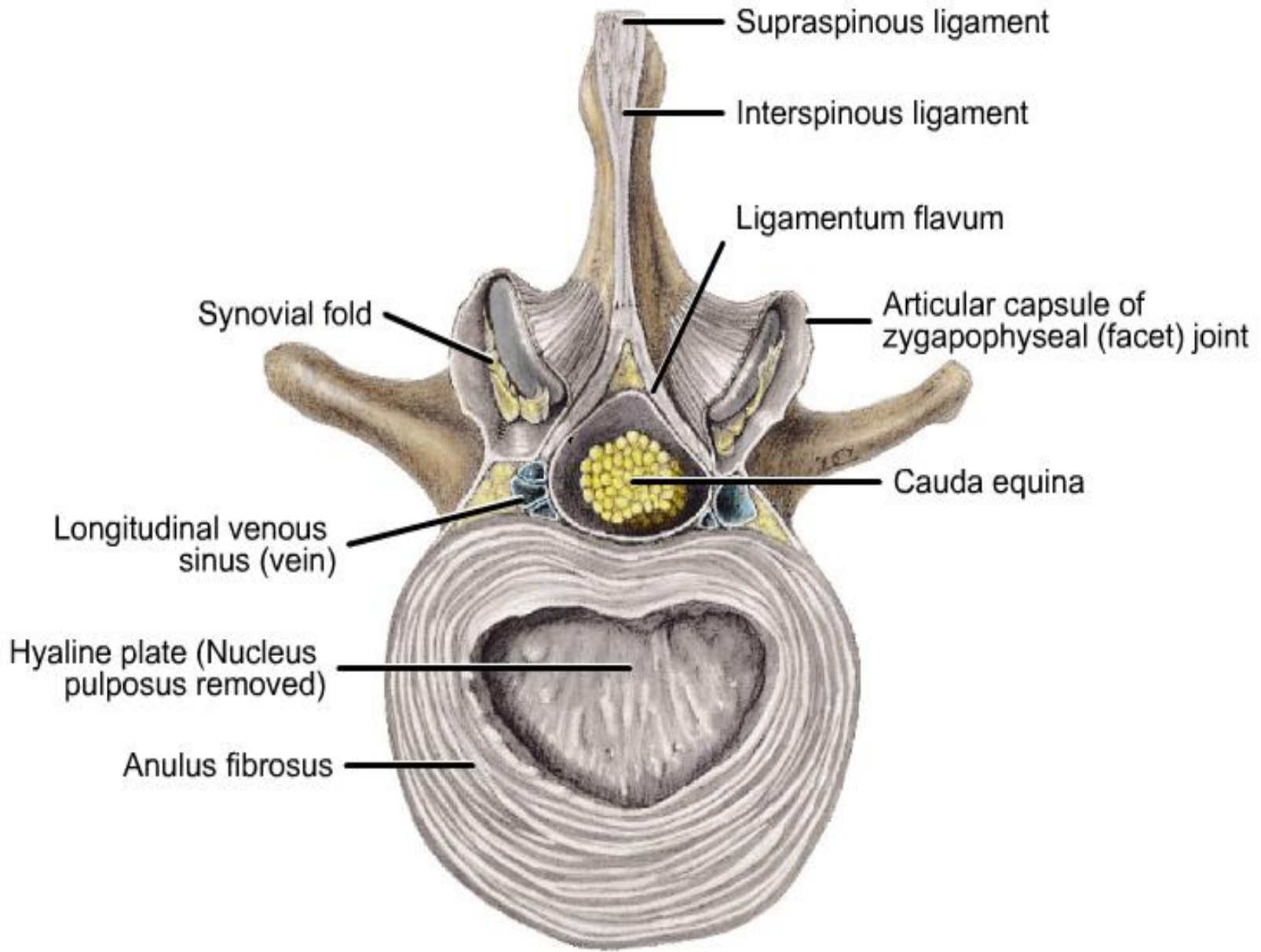
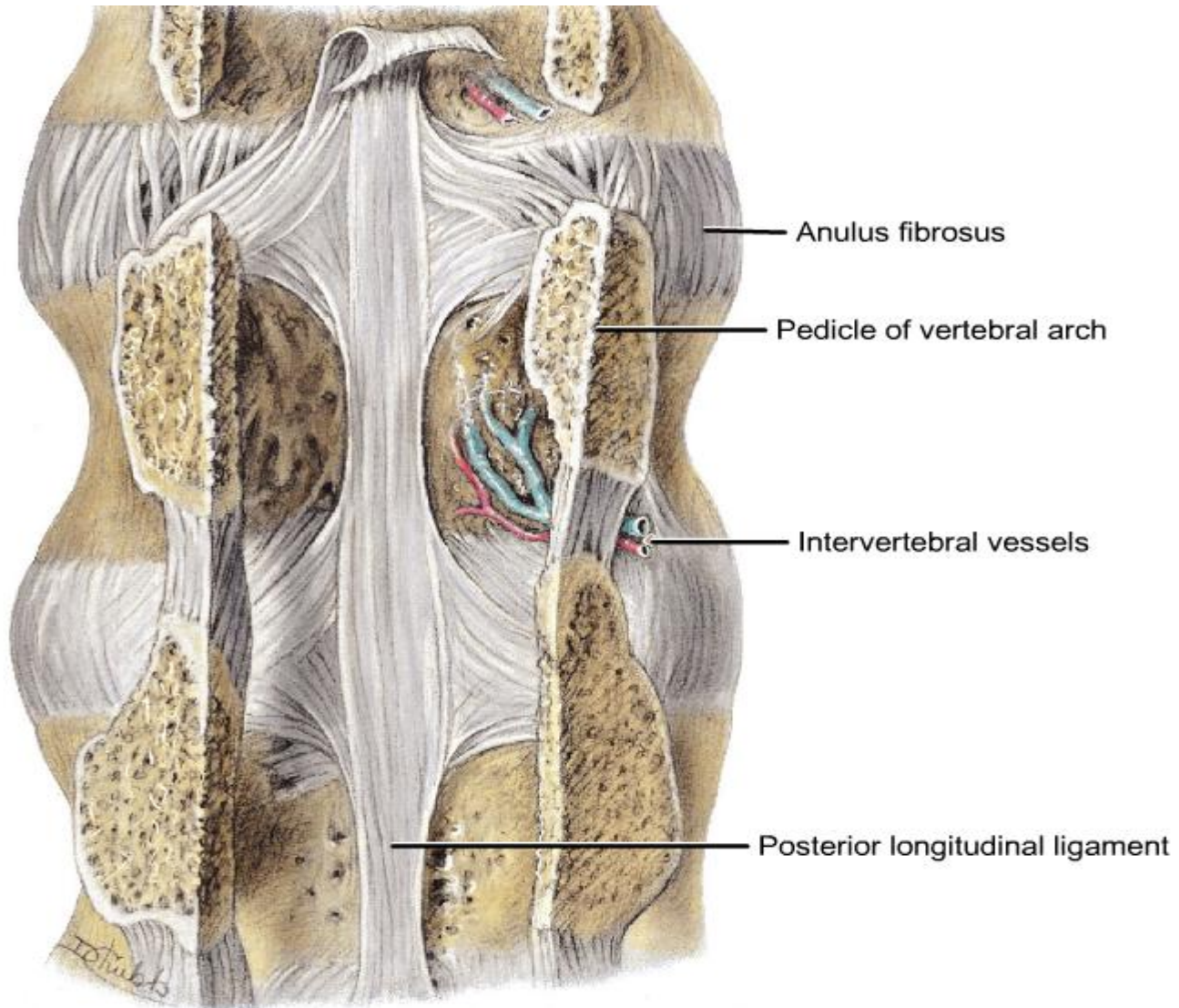
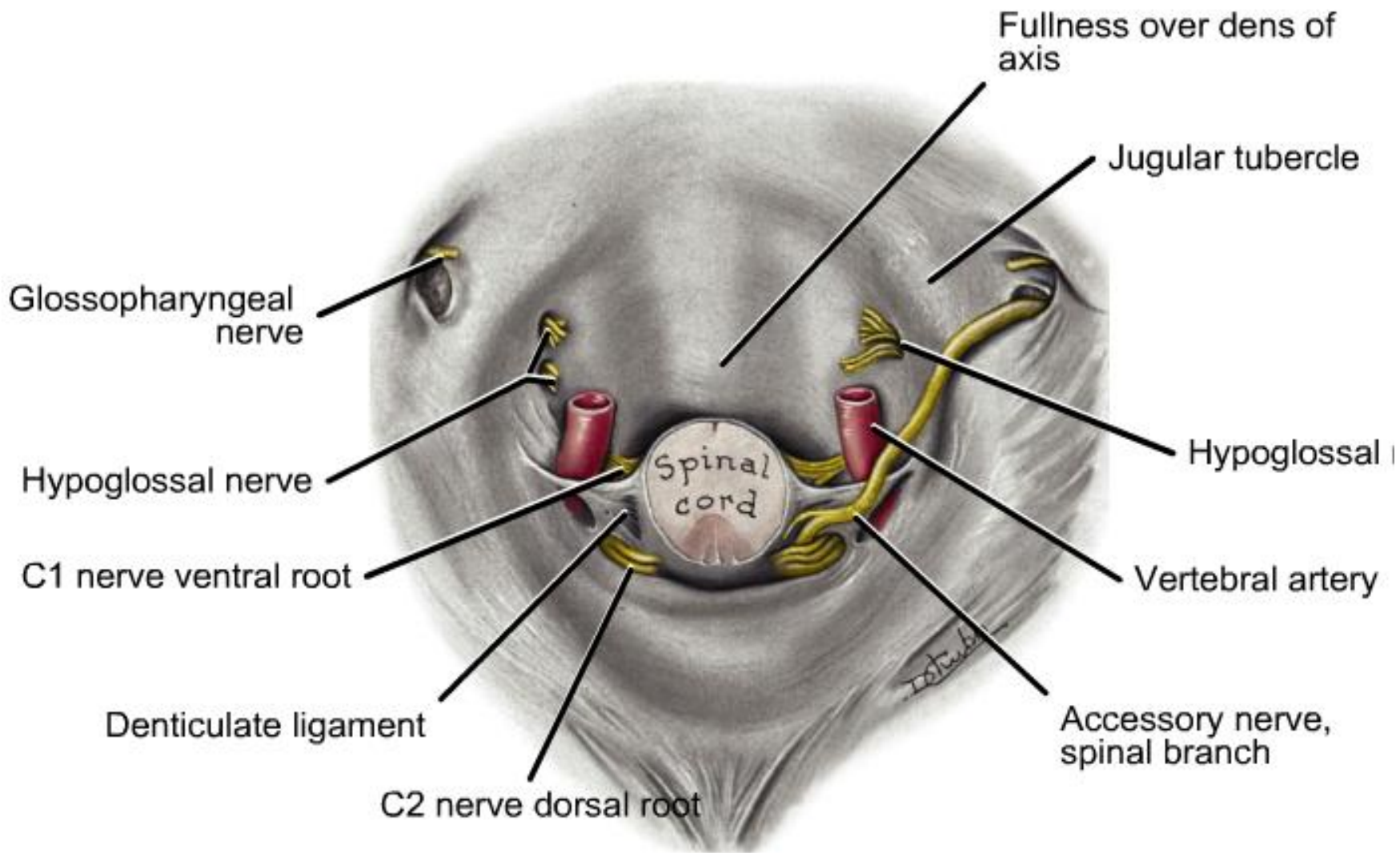


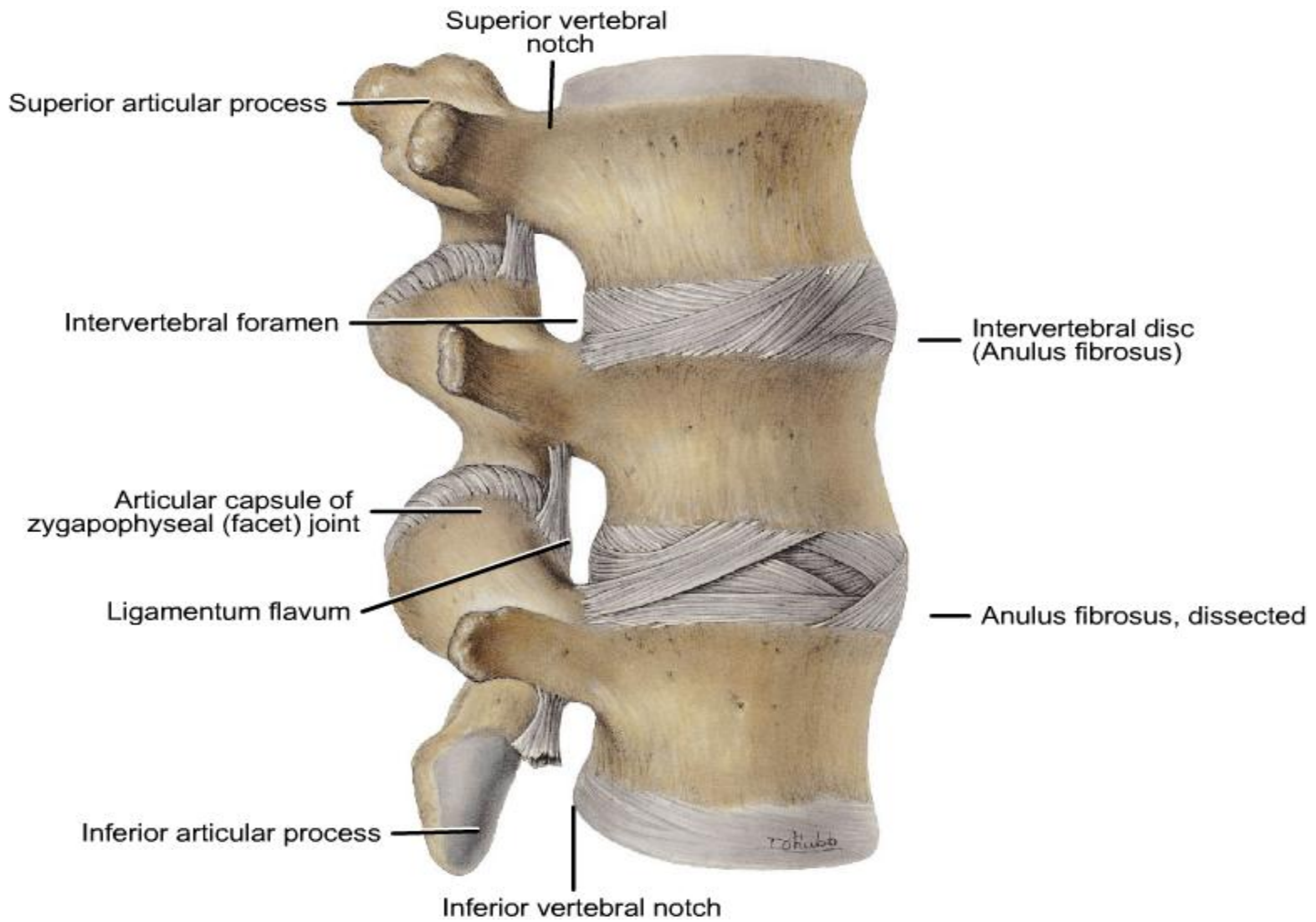
Articulation of neck



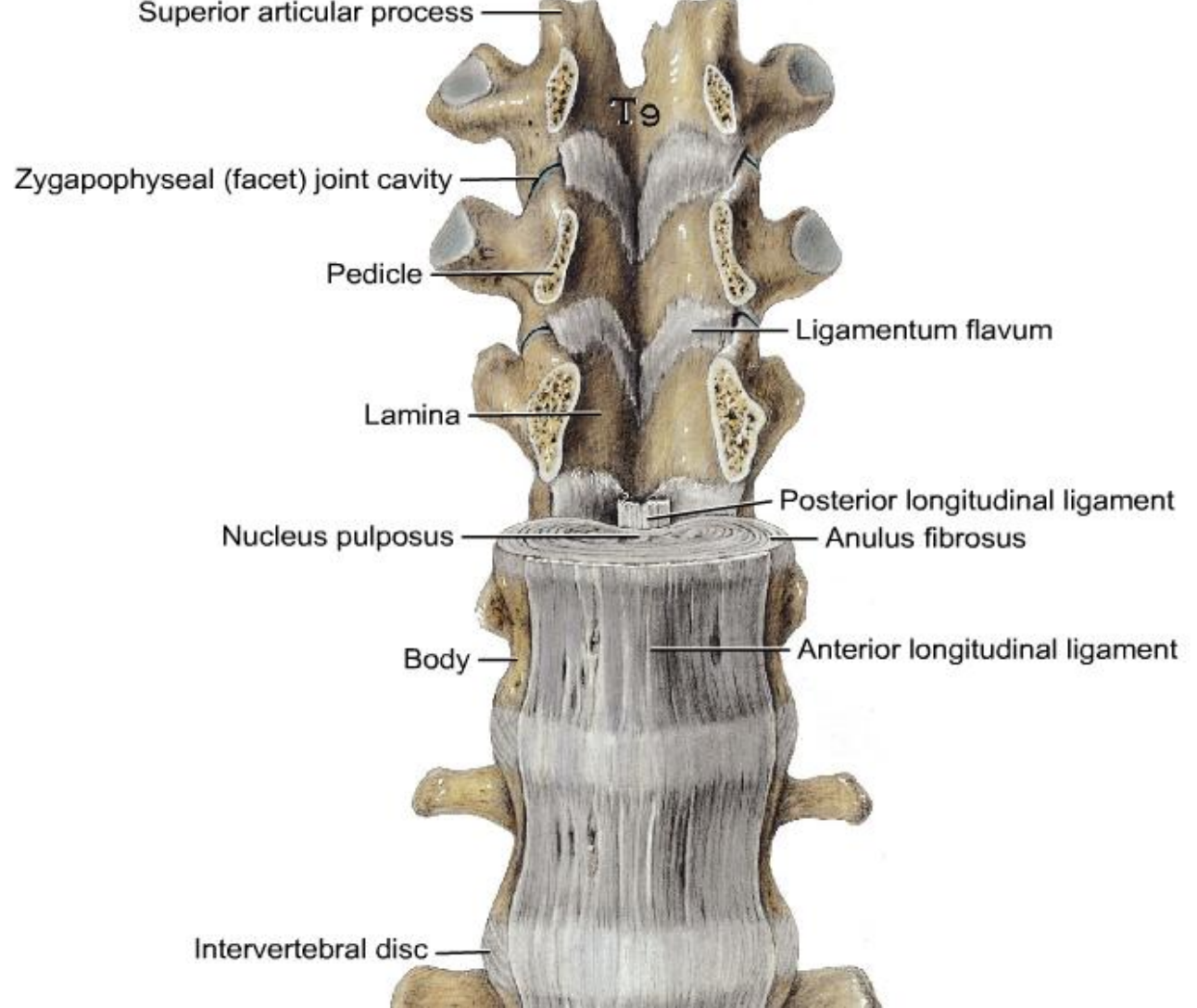






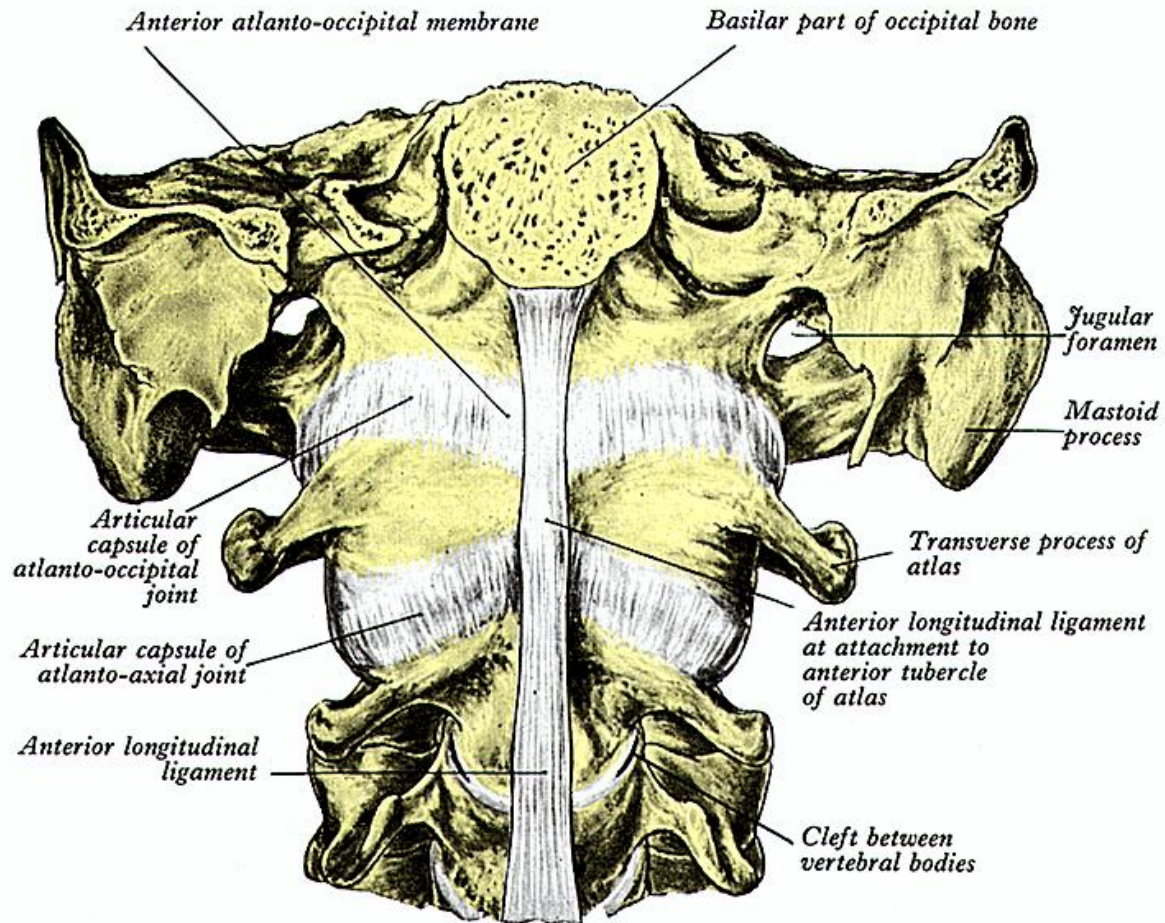


the posterior longitudinal ligament, a taut, but somewhat flimsy, band passing from disc to disc, spans the posterior surfaces of the vertebral bodies and renders smooth the anterior wall of the vertebral canal



Atlanto-Axial Joints

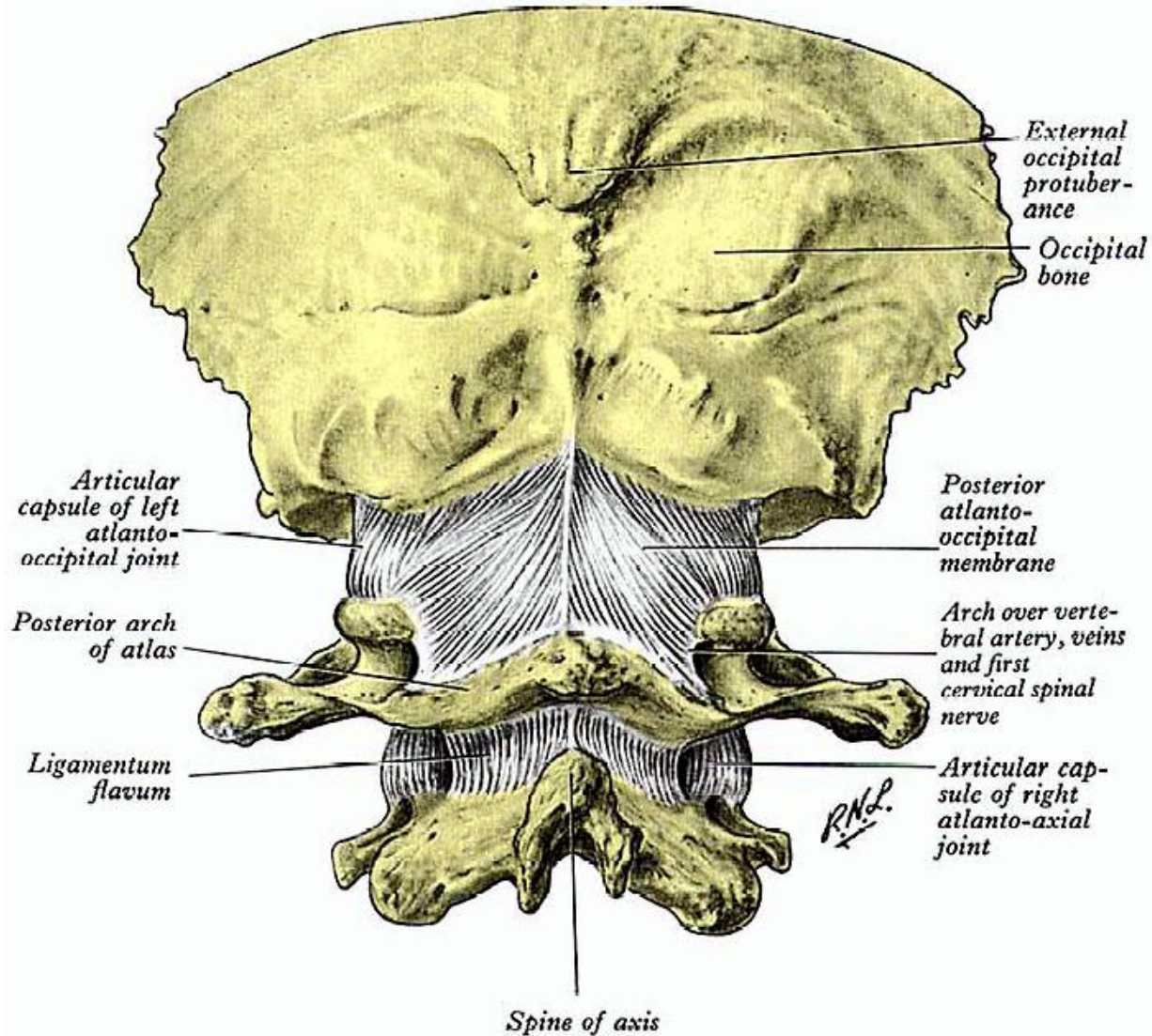
Articulation of atlas to axis is at three synovial joints, a pair between lateral masses, and a median complex between the dens of the axis and the anterior arch and transverse ligament of the atlas.



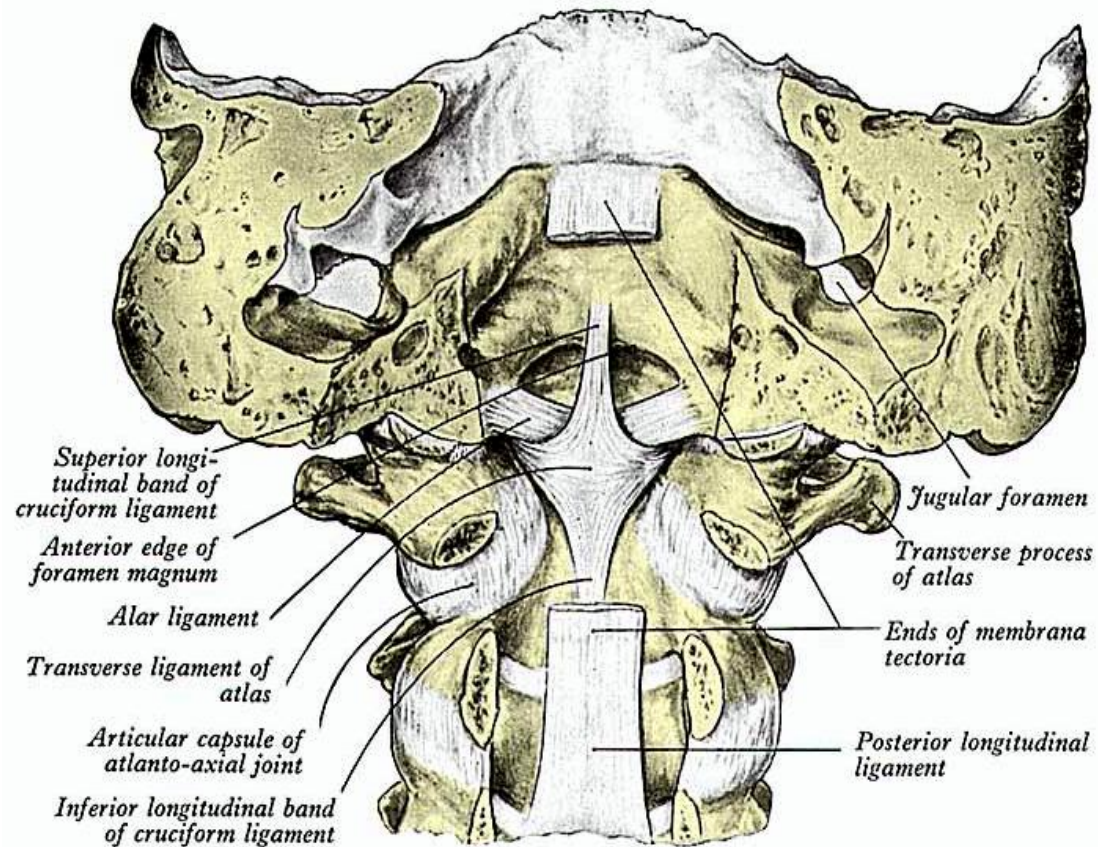
Movements at the Atlanto-Occipital Joints

The main movement is flexion, with a little lateral flexion and rotation

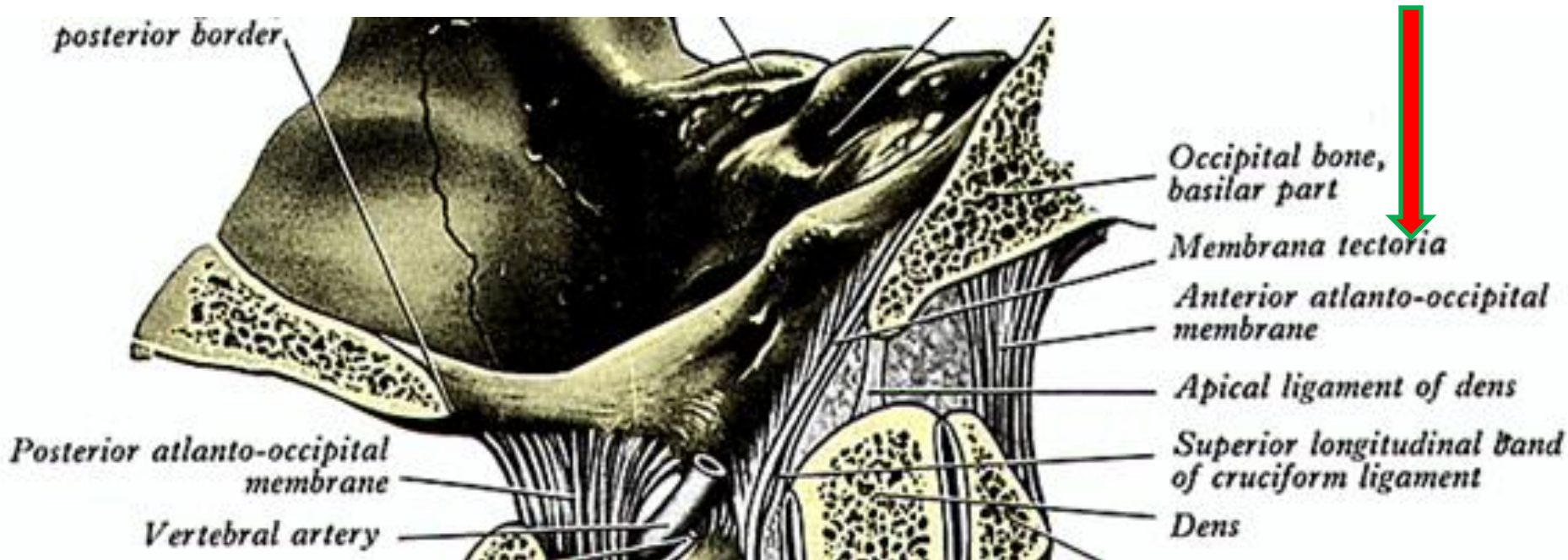
Atlanto-Occipital Joints Each joint consists of two reciprocally curved articular surfaces, one on the occipital condyle the other on the lateral mass of the atlas; The bones are connected by articular capsules and the anterior and posterior atlanto-occipital membranes.



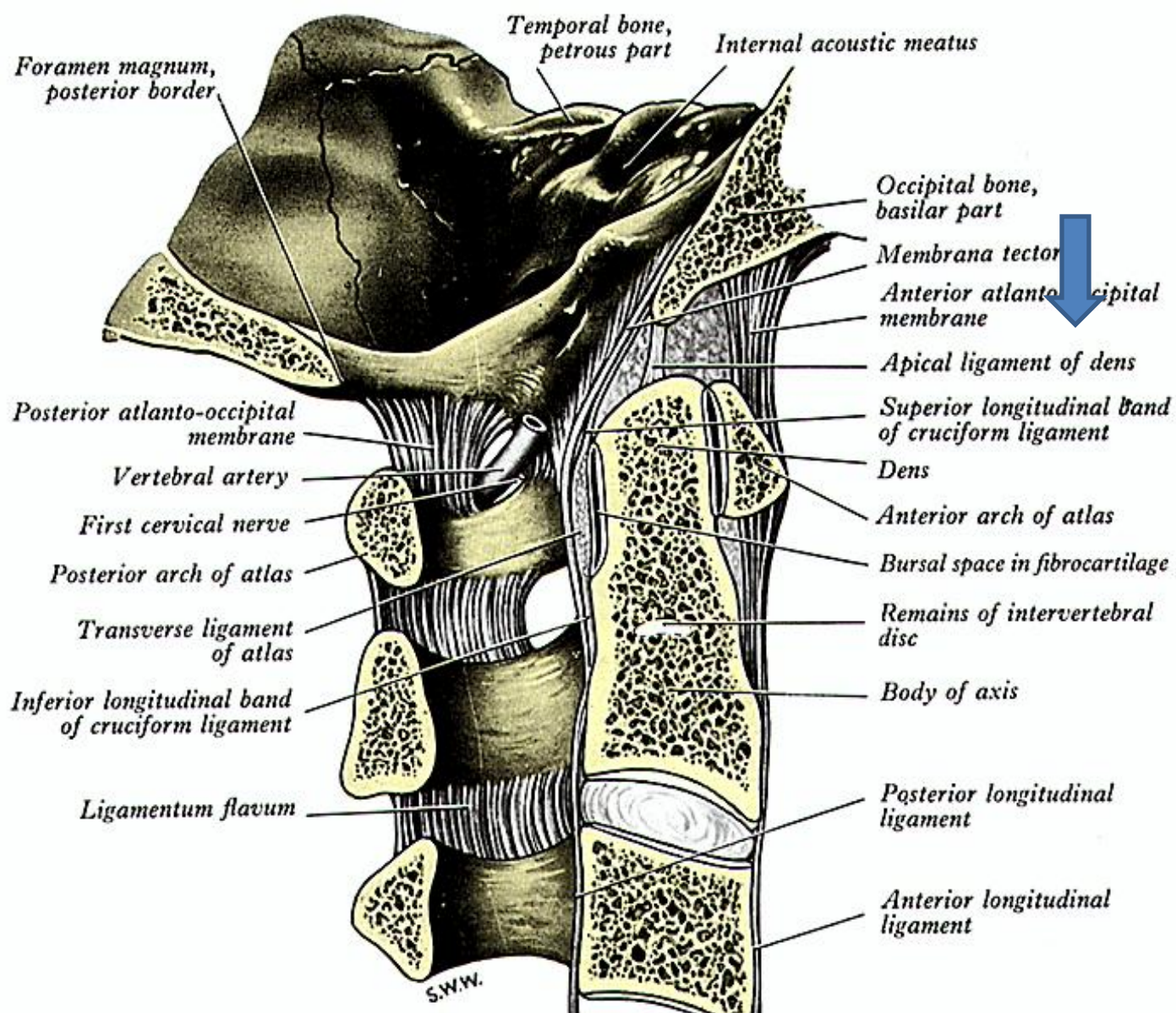
- Ligaments Connecting Axis and Occipital Bone
- membrana tectoria, and paired alar and median apical ligaments.
- Membrana Tectoria : upward continuation of the posterior longitudinal ligament.
- Its superficial deep laminae are both attached to the posterior surface of the axial body,



the superficial lamina expanding as it ascends to the upper surface of the basilar occipital bone, attaching above the foramen magnum, where it blends with the cranial dura mater.

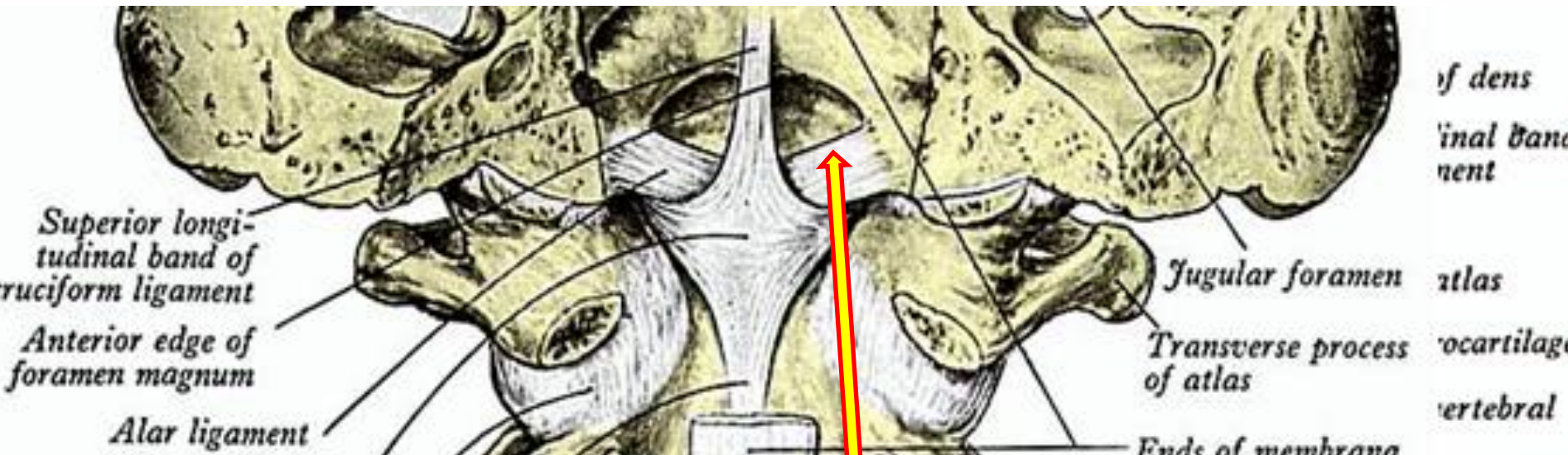


The deep lamina has a strong median band ascending to the foramen magnum, and two lateral bands which pass and blend with the capsules of the atlanto-occipital joints as they reach the foramen magnum.



The membrane is separated from the cruciform ligament of the atlas by a thin layer of loose areolar tissue, and sometimes by a bursa.

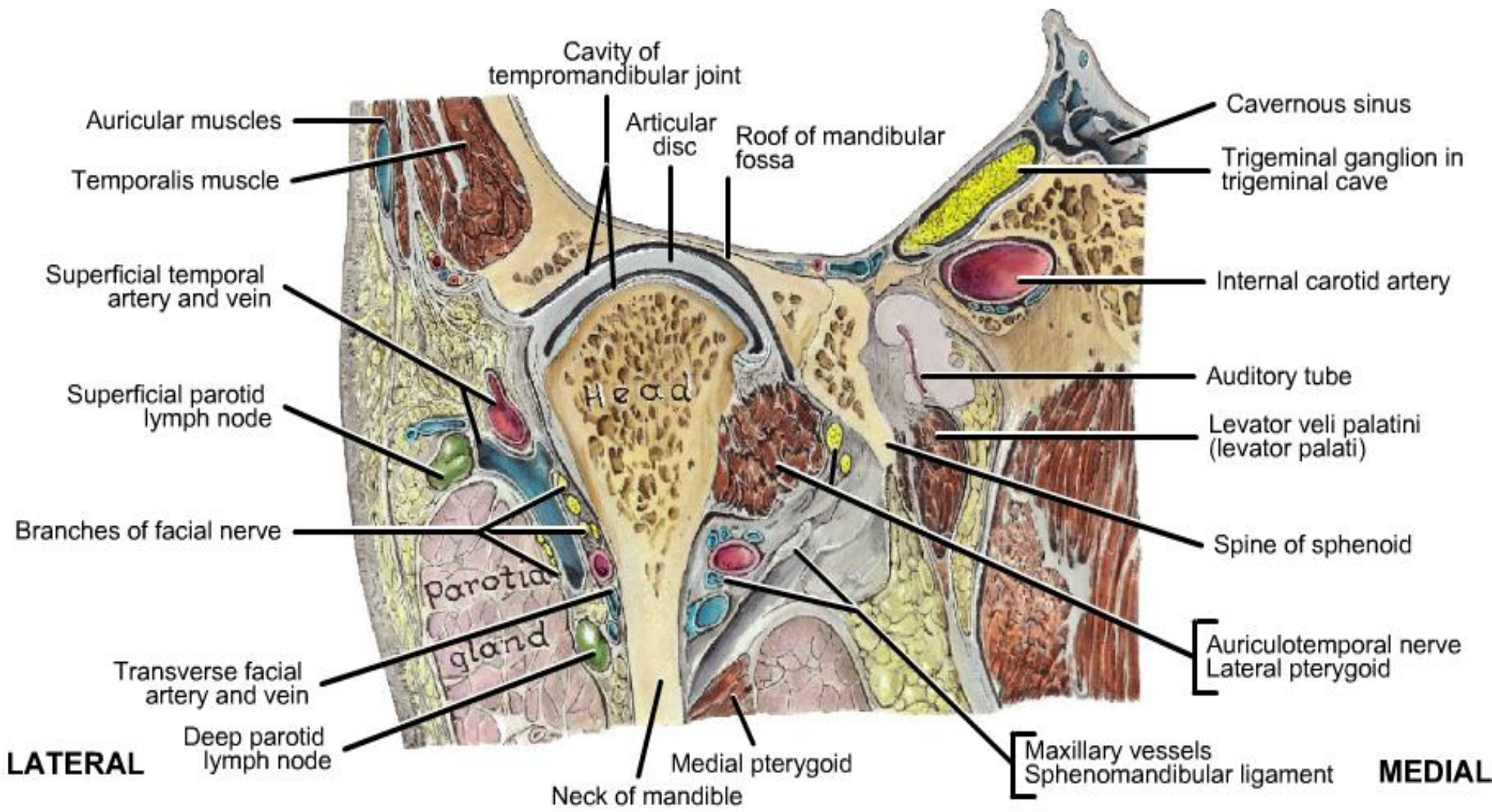
- Alar Ligaments ; from dens to the side of the occipital condyles and into the lateral mass of the atlas
- These ligaments consist mainly of collagen fibres arranged in parallel. The main function of the alar ligaments is now considered to be limitation of atlantoaxial rotation, the left becoming taut on rotation to the right and vice versa.



It is separated for most of its extent from the anterior atlanto-occipital membrane and cruciform ligament by pads of fatty tissue, though it blends with their attachments at the foramen magnum, and with the alar ligaments at the apex of the dens.

- Apical Ligament of the Dens
- It fans out from the apex of the dens into the anterior margin of the foramen magnum between the alar ligaments.





Cavity of tempromandibular joint

Articular disc

Roof of mandibular fossa

Cavernous sinus

Trigeminal ganglion in trigeminal cave

Internal carotid artery

Auditory tube

Levator veli palatini (levator palati)

Spine of sphenoid

Auriculotemporal nerve
Lateral pterygoid

Maxillary vessels
Sphenomandibular ligament

Auricular muscles

Temporalis muscle

Superficial temporal artery and vein

Superficial parotid lymph node

Branches of facial nerve

parotid gland

Transverse facial artery and vein

Deep parotid lymph node

Medial pterygoid

Neck of mandible

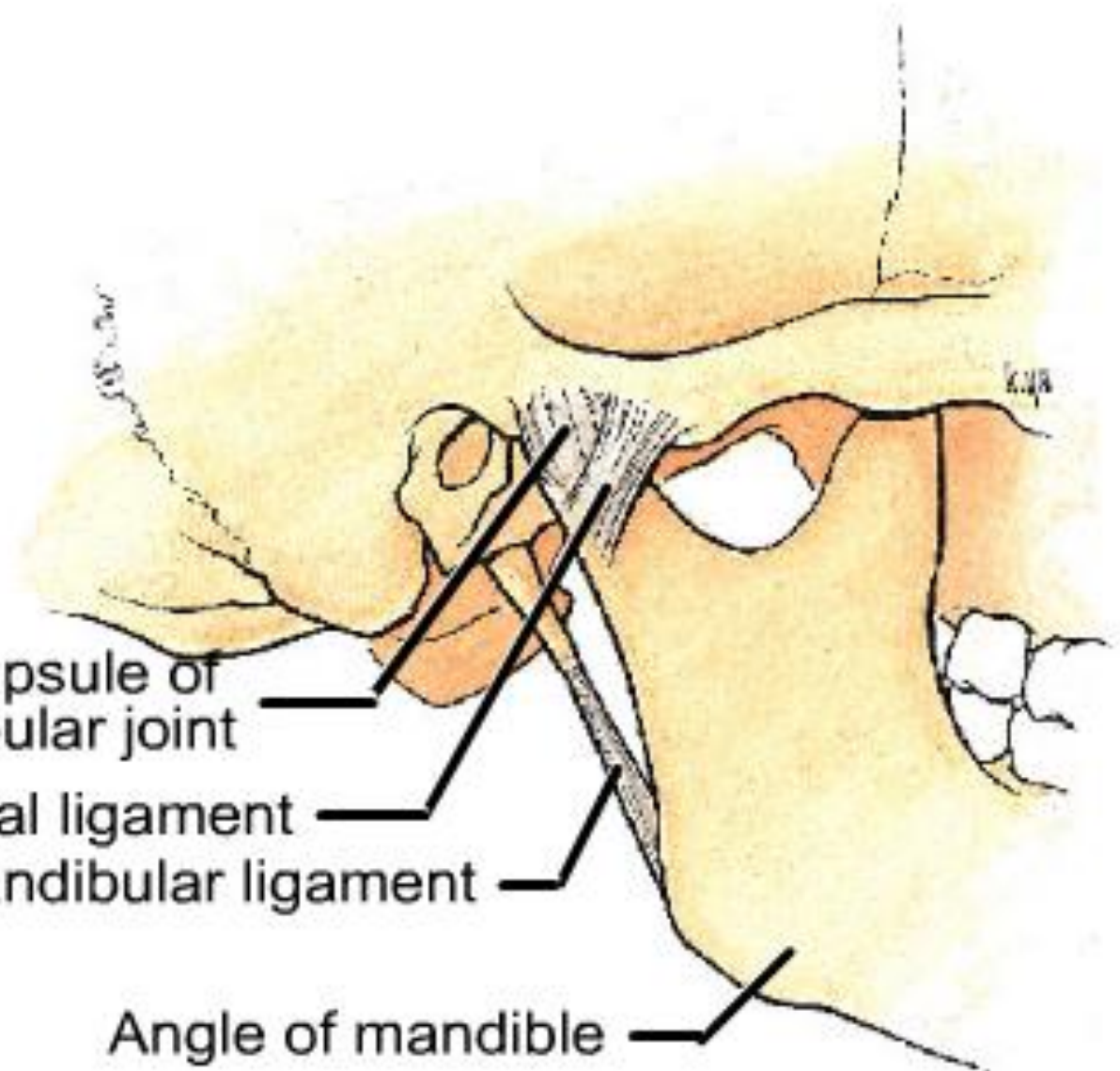
LATERAL

MEDIAL

- lateral ligaments
stylomandibular ligament,

The fibrous capsule of the ***temporomandibular joint attaches to the margins of the articular area of the temporal bone and around the neck of the mandible;***

temporomandibular ligament strengthens the lateral aspect of the joint.



Fibrous capsule of temporomandibular joint

This diagram shows a lateral view of the temporomandibular joint (TMJ) and the angle of the mandible. The fibrous capsule of the TMJ is shown as a thick, fibrous structure surrounding the joint. The lateral ligament is a thick band of fibrous tissue that connects the lateral surface of the condyle of the mandible to the zygomatic process of the temporal bone. The stylomandibular ligament is a thick band of fibrous tissue that connects the styloid process of the temporal bone to the angle of the mandible. The angle of the mandible is the sharp angle formed by the body and the ramus of the mandible.

Lateral ligament

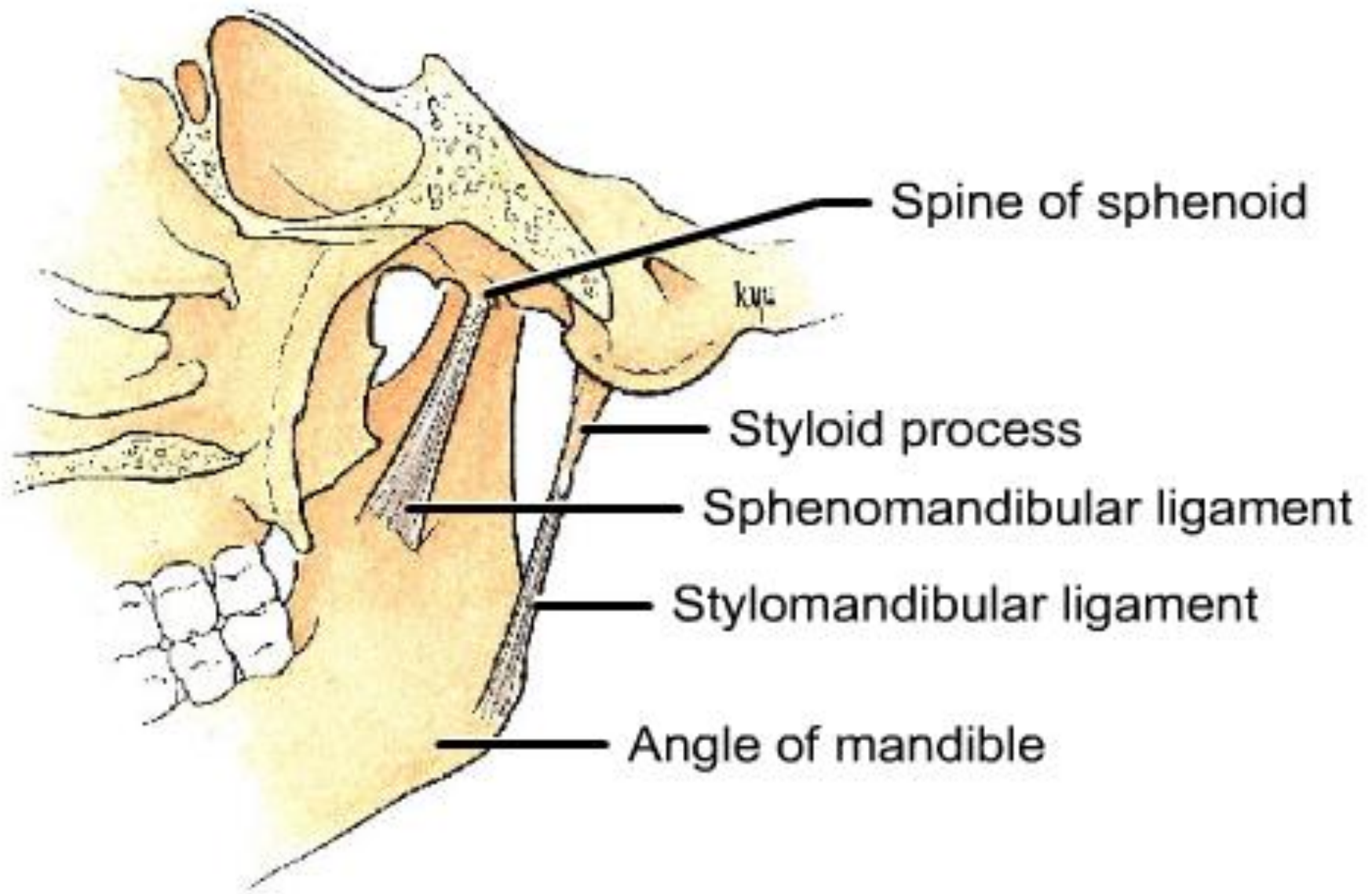
Stylomandibular ligament

Angle of mandible

- ***medial view***

=stylomandibular ligament, joins the styloid process to the angle of the mandible.

=The sphenomandibular ligament, descends from spine of the sphenoid to the lingula of the mandible and the



Spine of sphenoid

Styloid process

Sphenomandibular ligament

Stylomandibular ligament

Angle of mandible