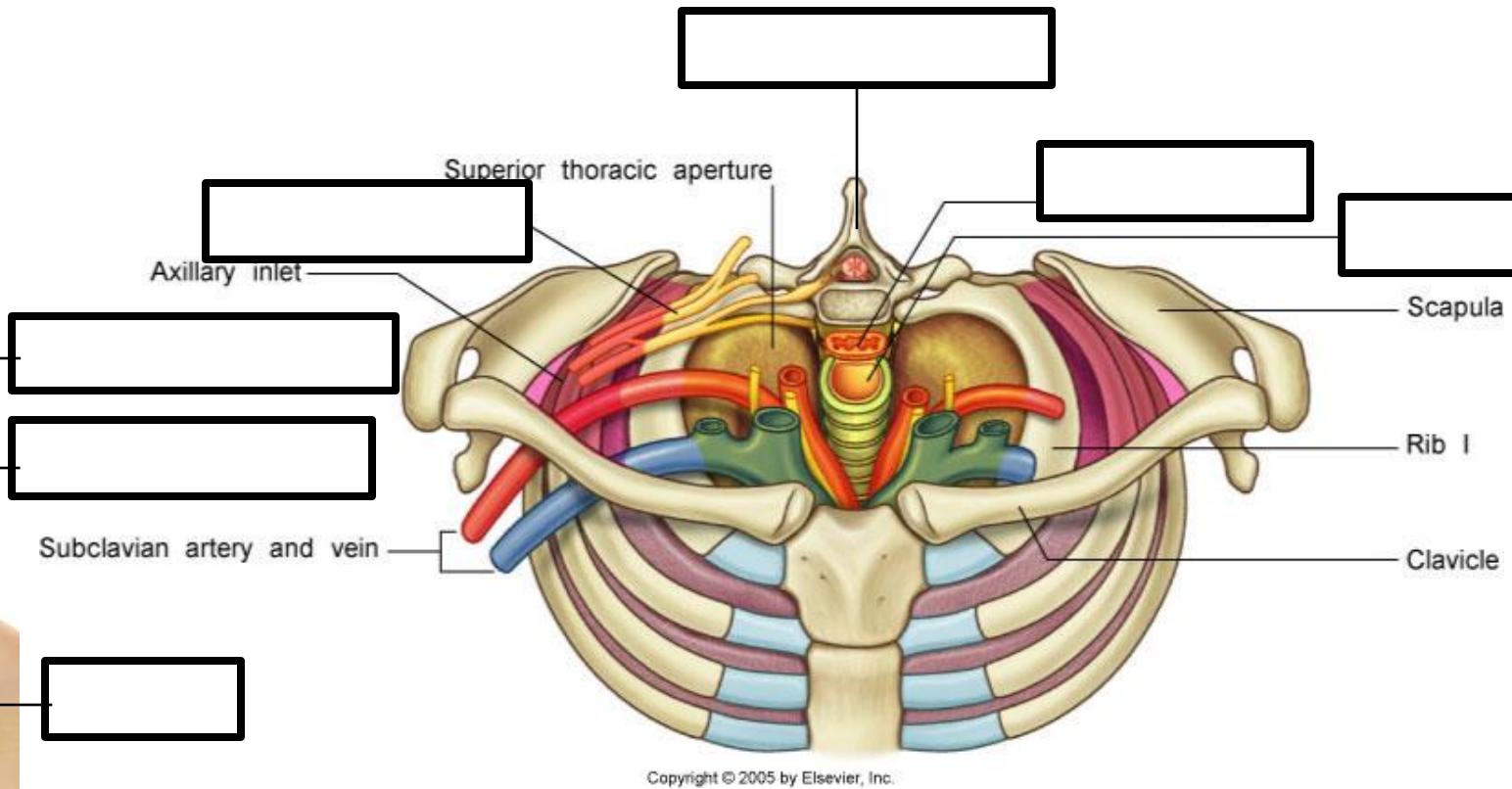
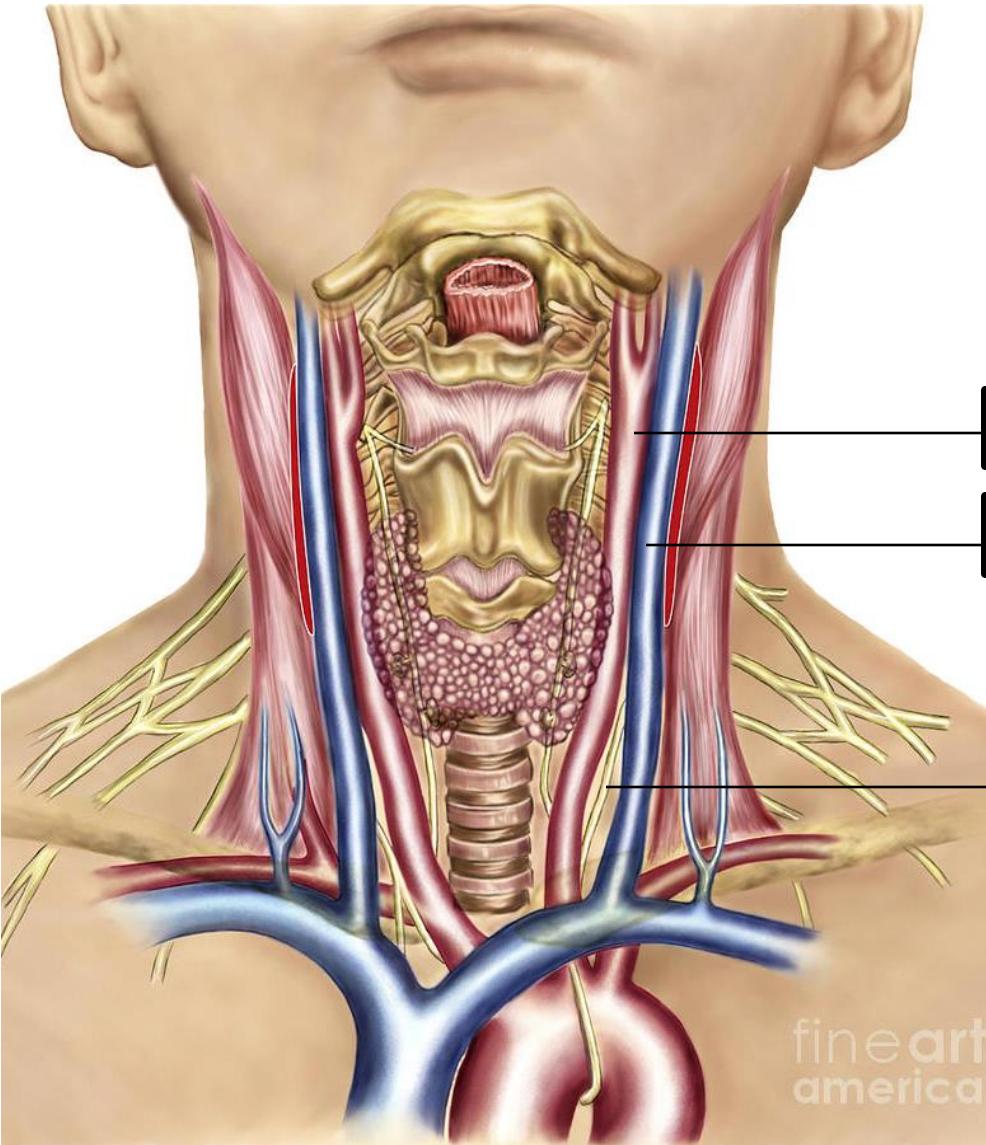
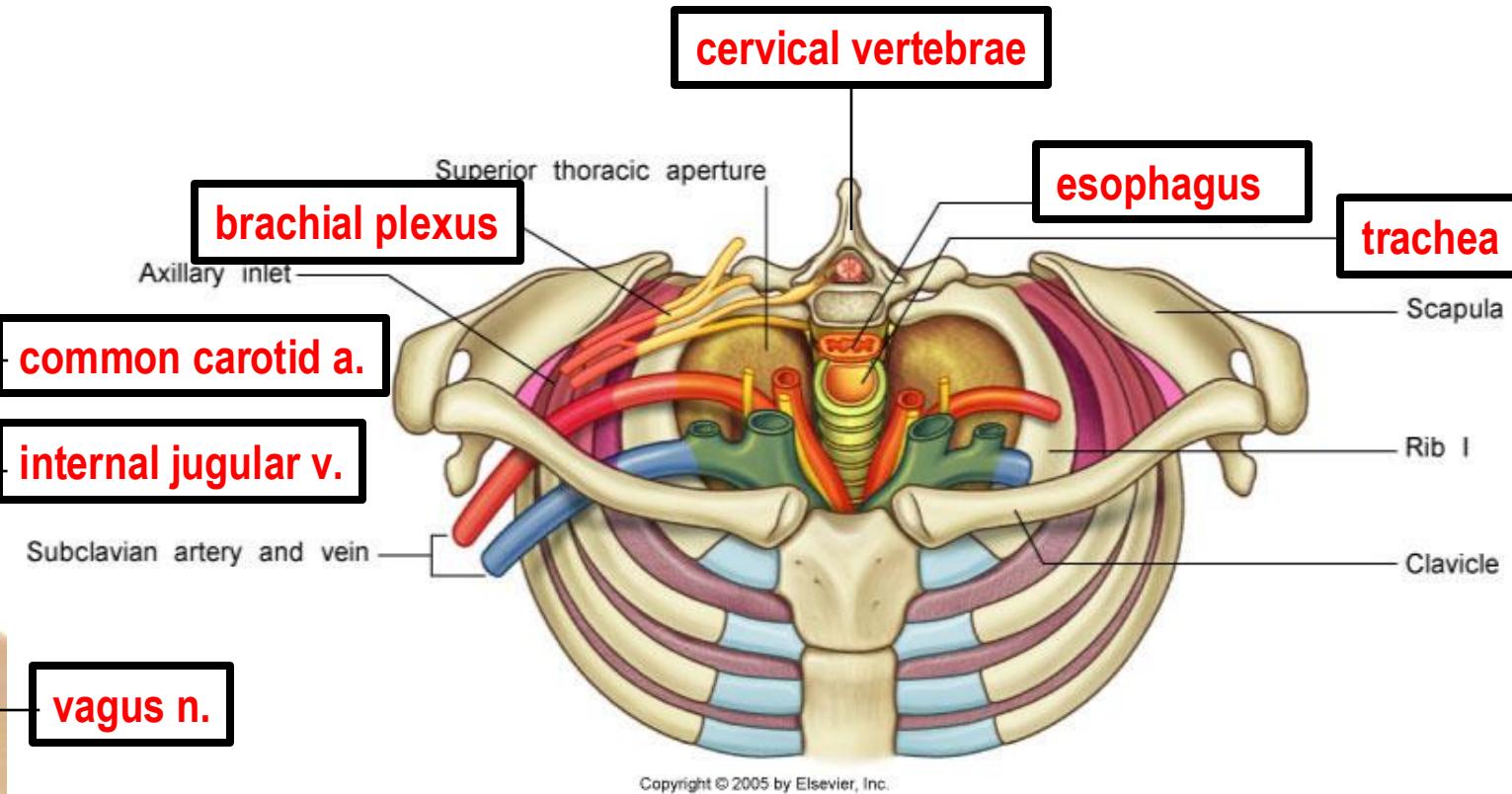
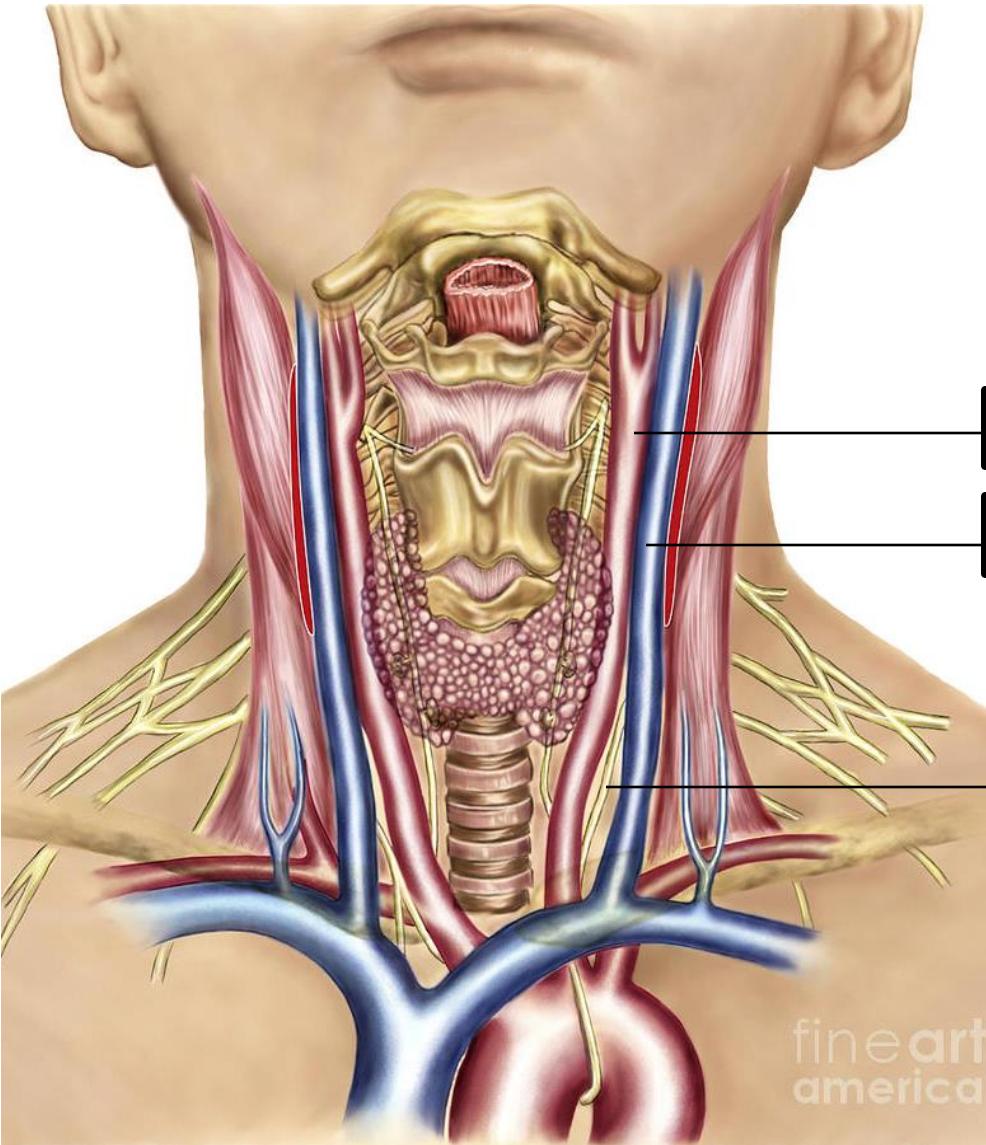


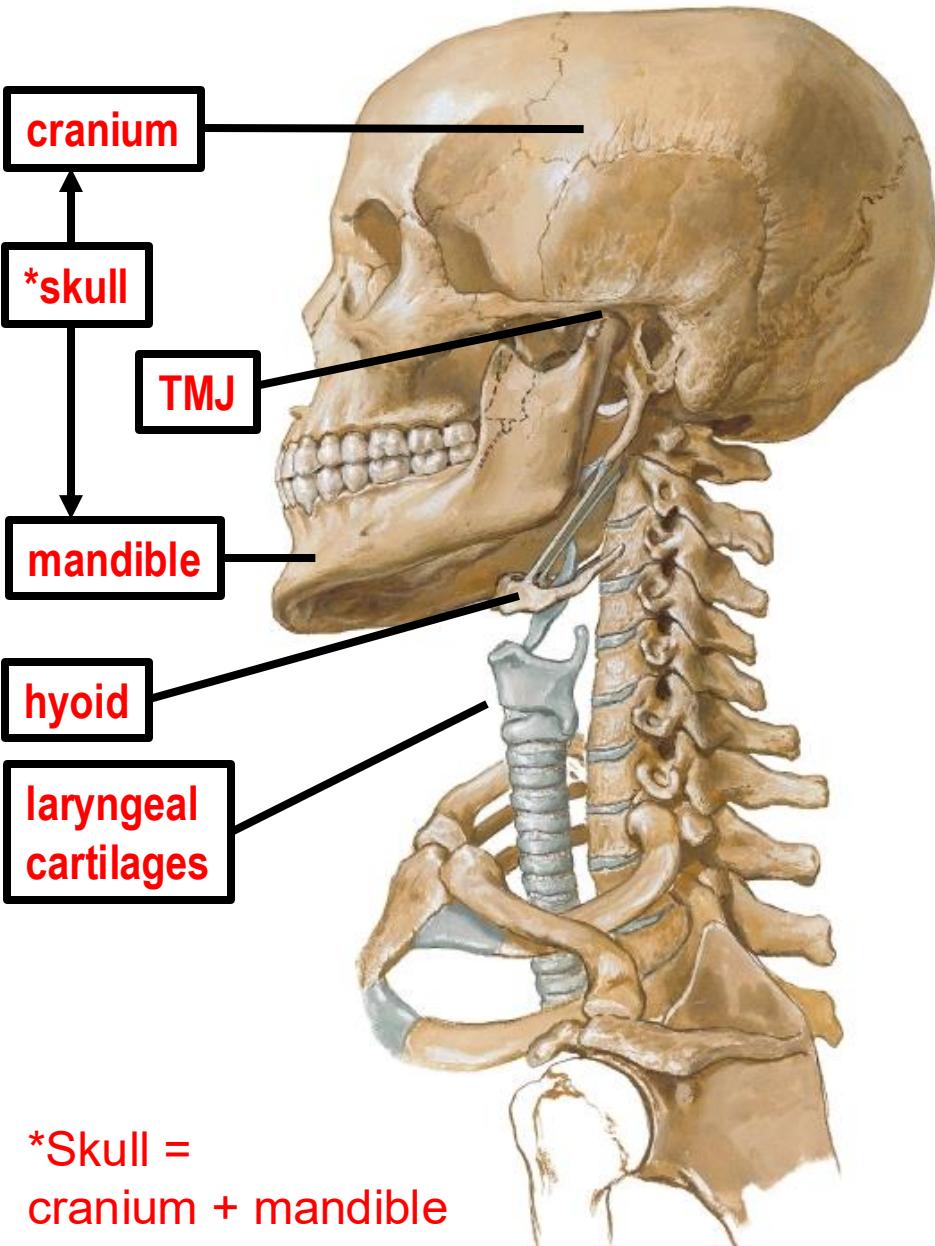
Which Structures Pass To or From the Neck?



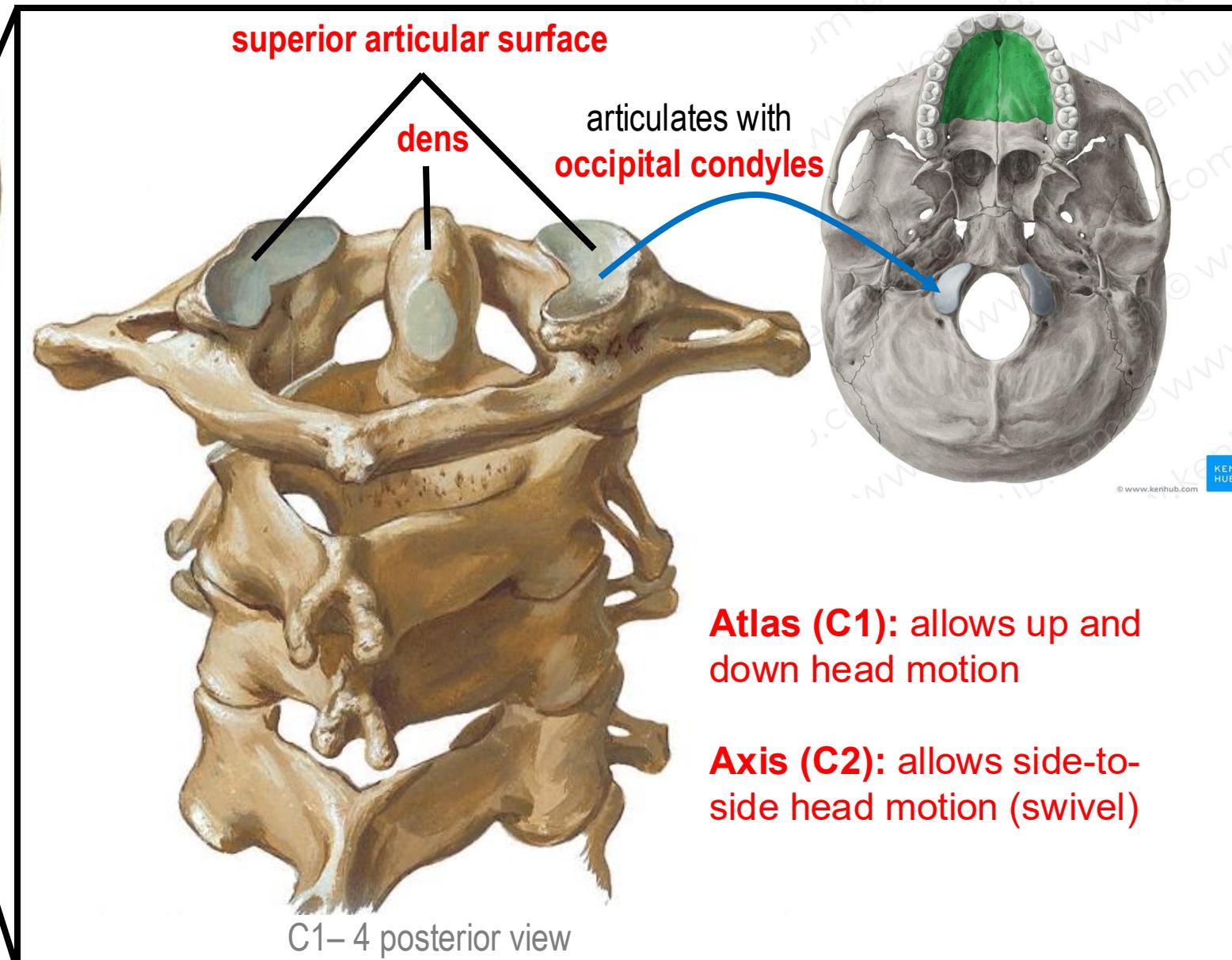
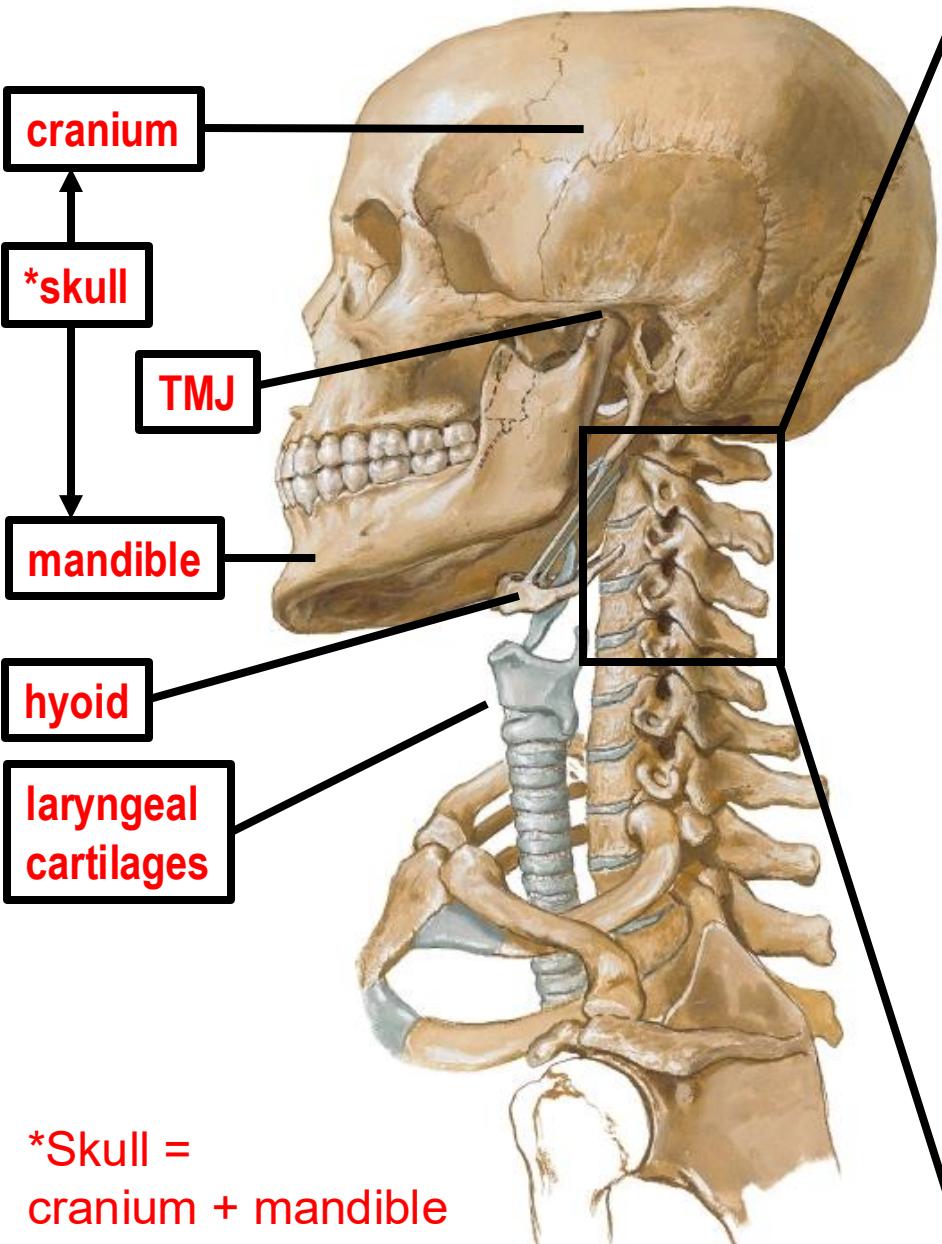
Which Structures Pass To or From the Neck?



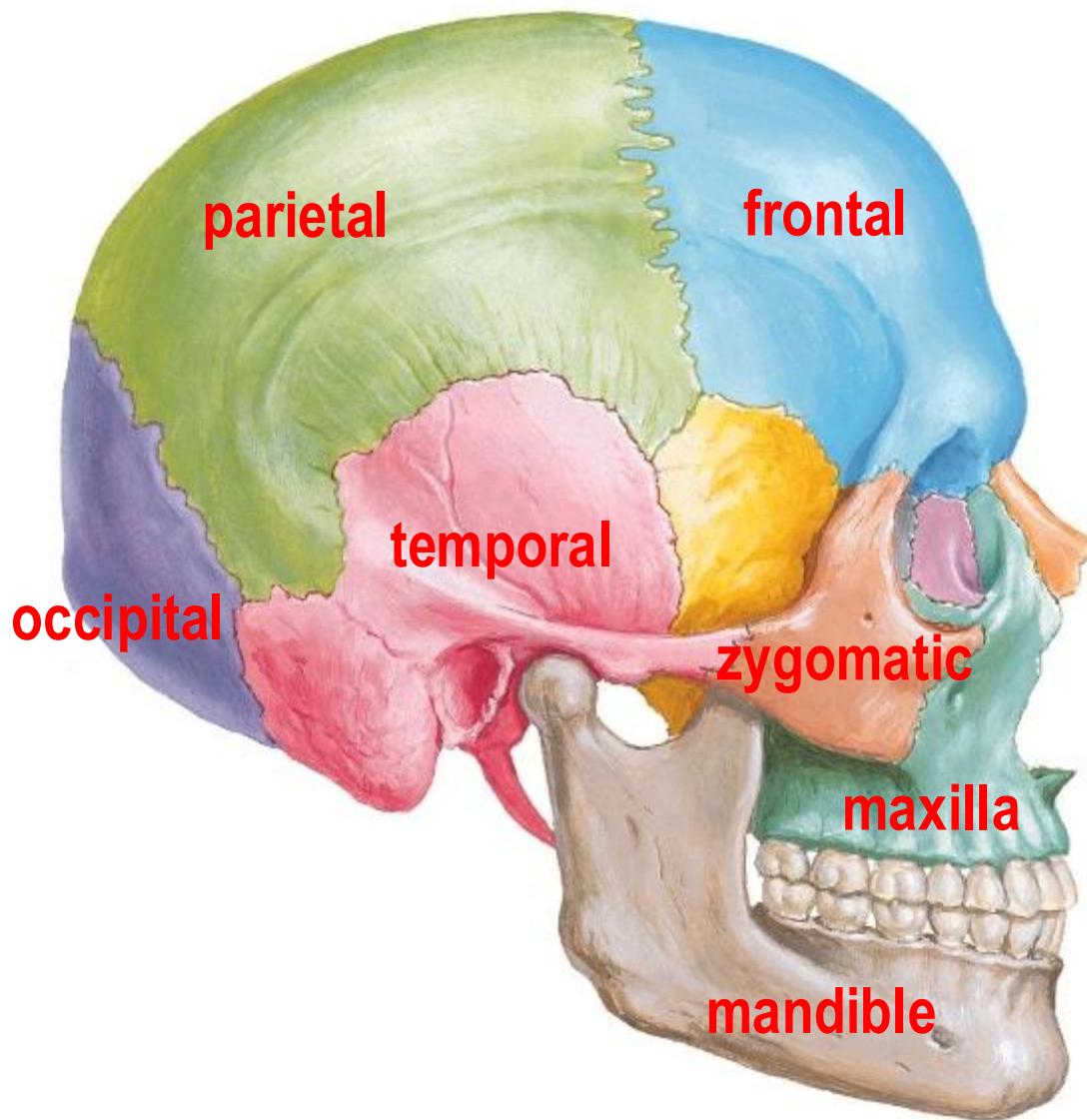
Skeletal System



Skeletal System

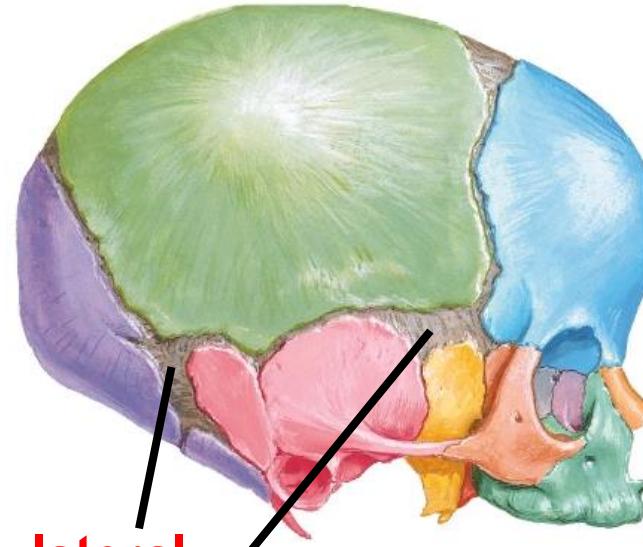


Skeletal System



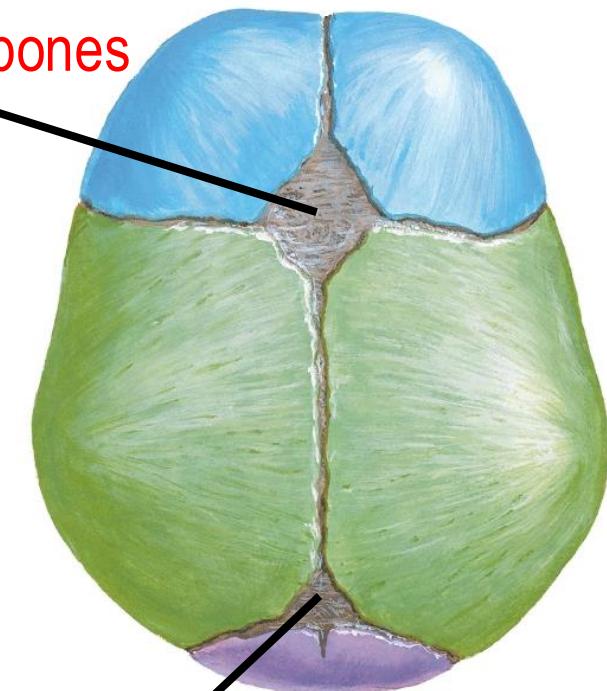
fontanelles: fibrous “soft spots” between cranial bones in infants

anterior fontanelle
between frontal & parietal bones

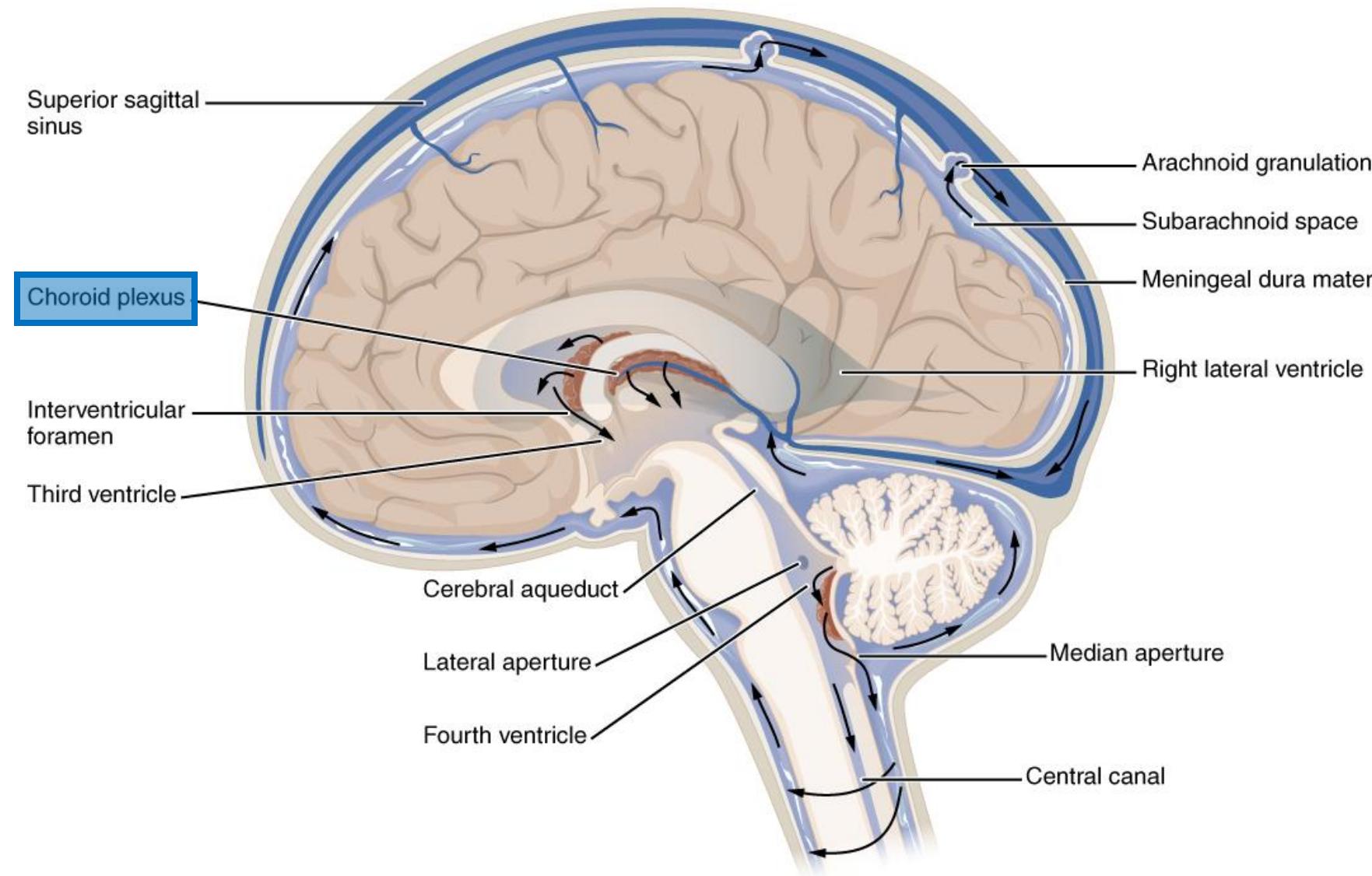


**lateral
fontanelles**

posterior fontanelle
between parietal & occipital bones



Nervous System: Brain & Spinal Cord

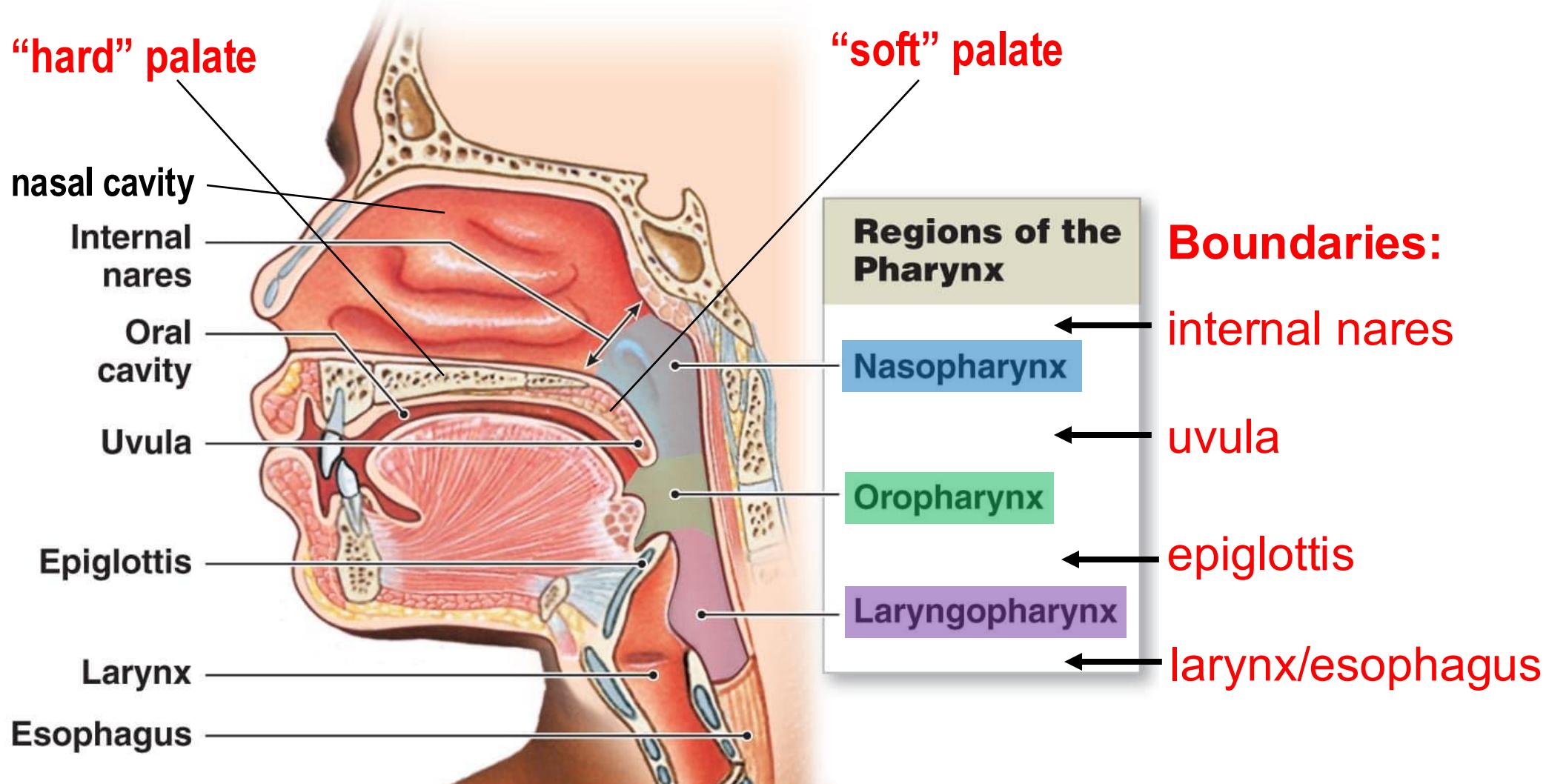


Note: Brain anatomy will be covered in detail in Neuroanatomy next semester.

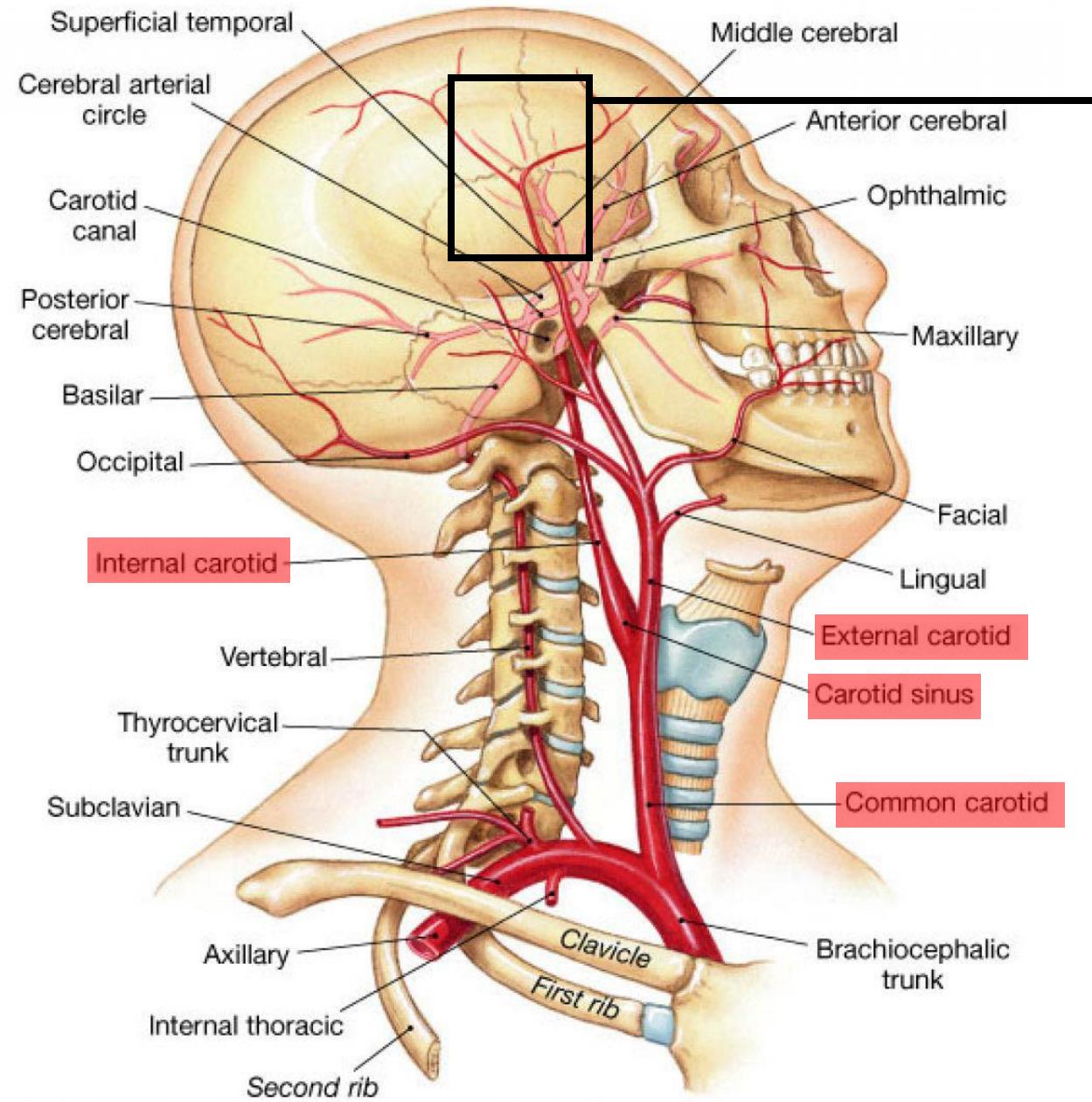
CSF produced by choroid plexus flows through brain ventricles (spaces within the brain) and subarachnoid space.

Ingestion & Respiration

The pharynx, a common passageway
for solid food, liquids, and air



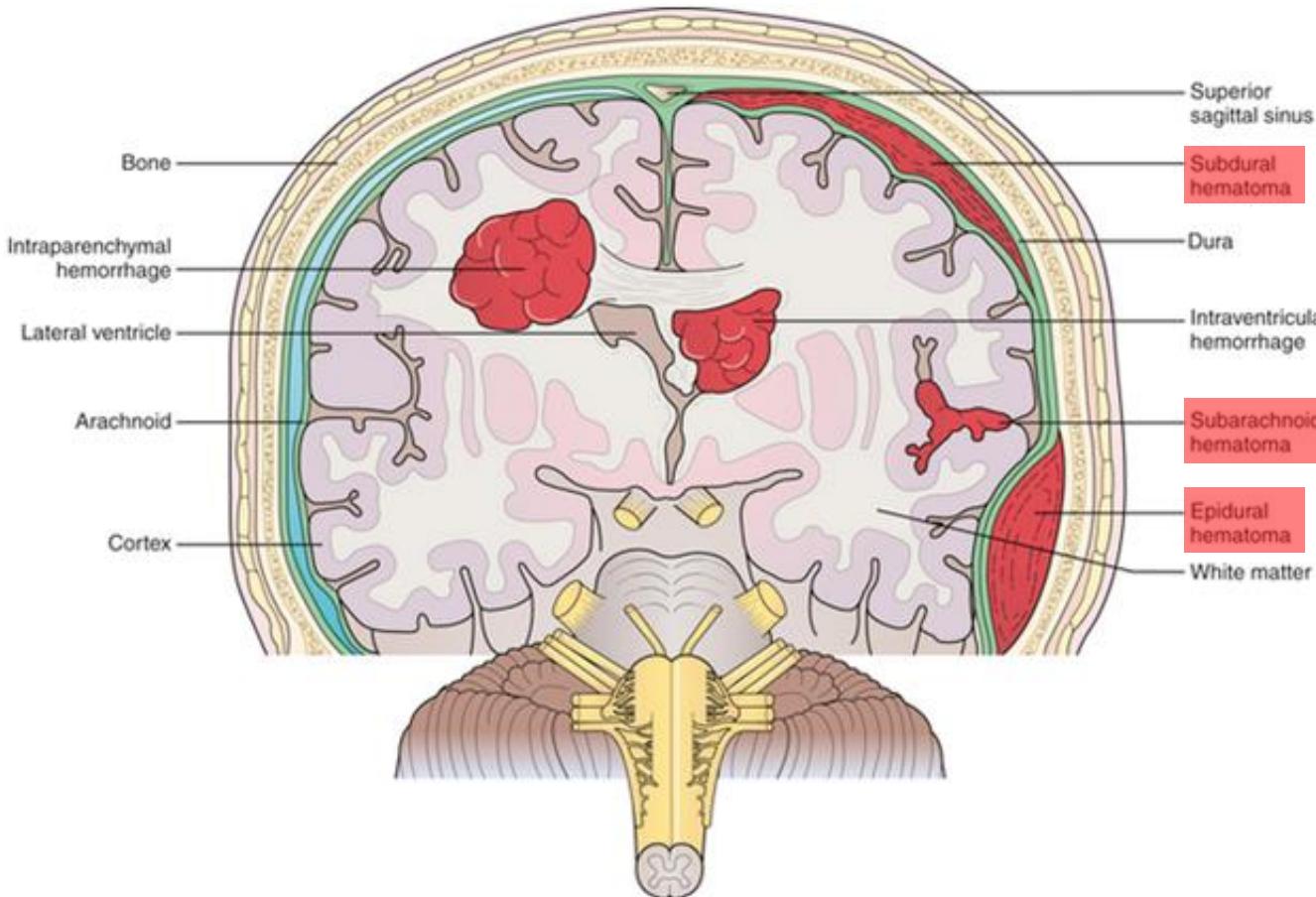
Clinical Correlate “Danger Zone” #1 (of 3)



Pterion: junction of frontal, parietal, temporal, sphenoid bones; thin area overlying **middle meningeal a.**

⌘ Clinical Correlate ⌘ “Danger Zone” #1 (of 3)

Types of Intracranial Hemorrhage/Hematoma

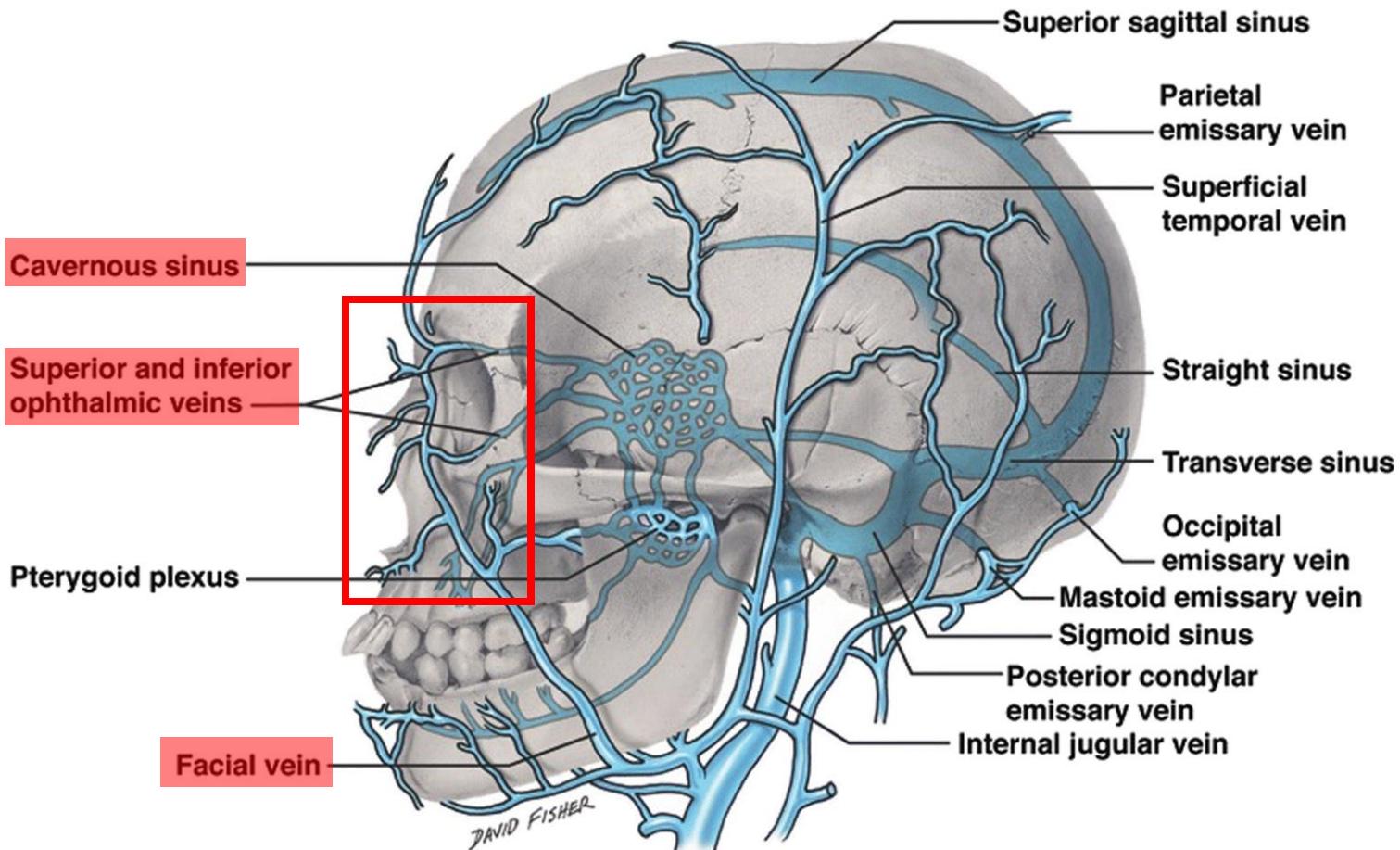


Intracranial hemorrhage/hematoma:

Blood accumulation in the endocranial (brain) cavity, resulting in life threatening compression of the brain.

1. **Epidural hematoma:** between skull and dura mater.
2. **Subdural hematoma:** between dura mater and arachnoid mater. Common when bridging veins and sagittal sinus is torn.
3. **Subarachnoid hemorrhage:** between arachnoid mater and pia mater. Common when cerebral arteries rupture.

Clinical Correlate “Danger Zone” #2 (of 3)



Facial vein has no valves, so blood may drain superiorly into superior & inferior ophthalmic veins and enter the cavernous sinus.

Infection around the nose (e.g., pimples, boils) can spread into cavernous sinus where important arteries and nerves are located.

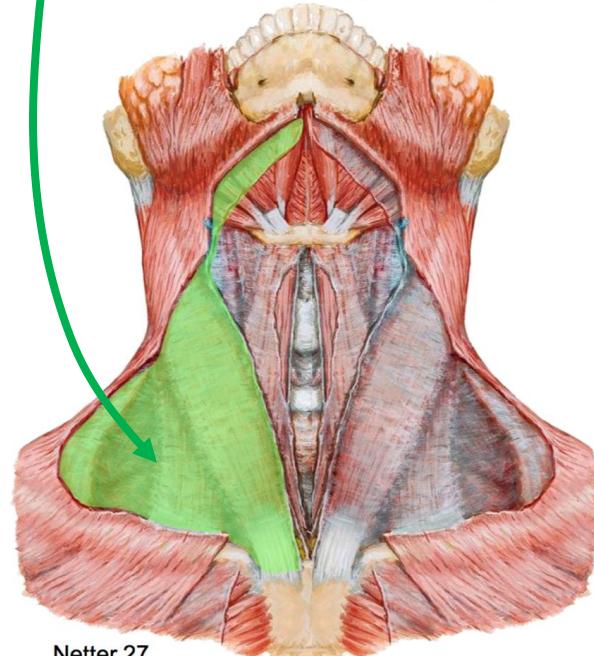
Cervical Fascia

Investing Fascia

Encircles neck

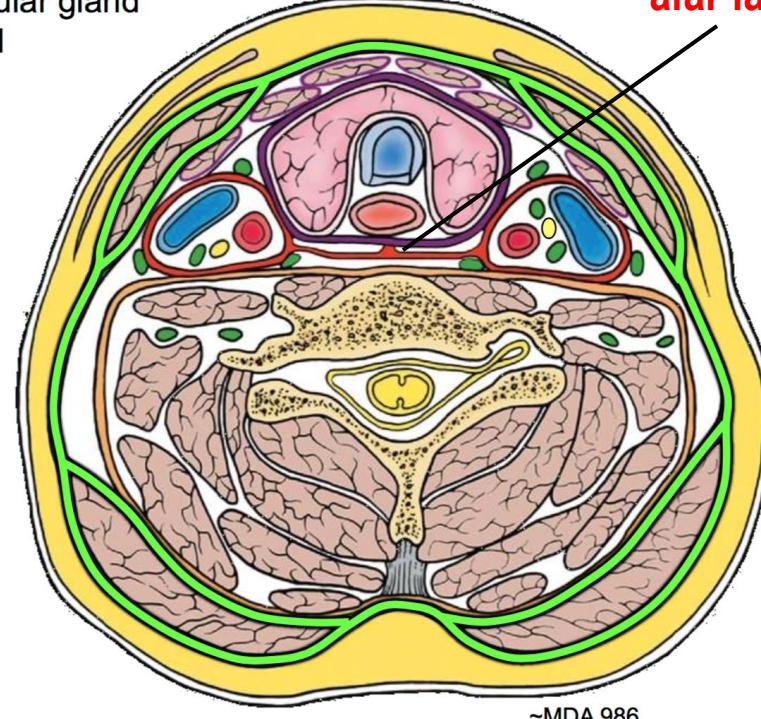
Invests Trapezius and SCM, submandibular gland

Continuous with capsule of parotid gland



investing fascia
pretracheal fascia
carotid sheath
prevertebral fascia

alar fascia: connects carotid sheaths



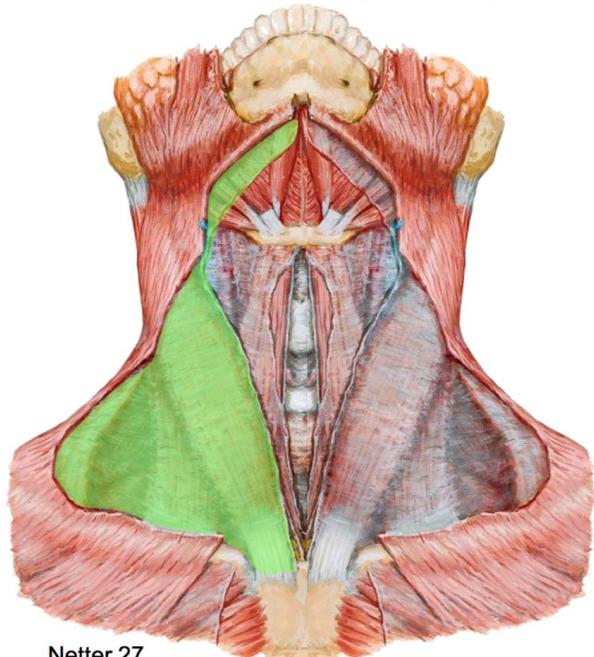
Clinical Correlate “Danger Space” #3 (of 3)

Investing Fascia

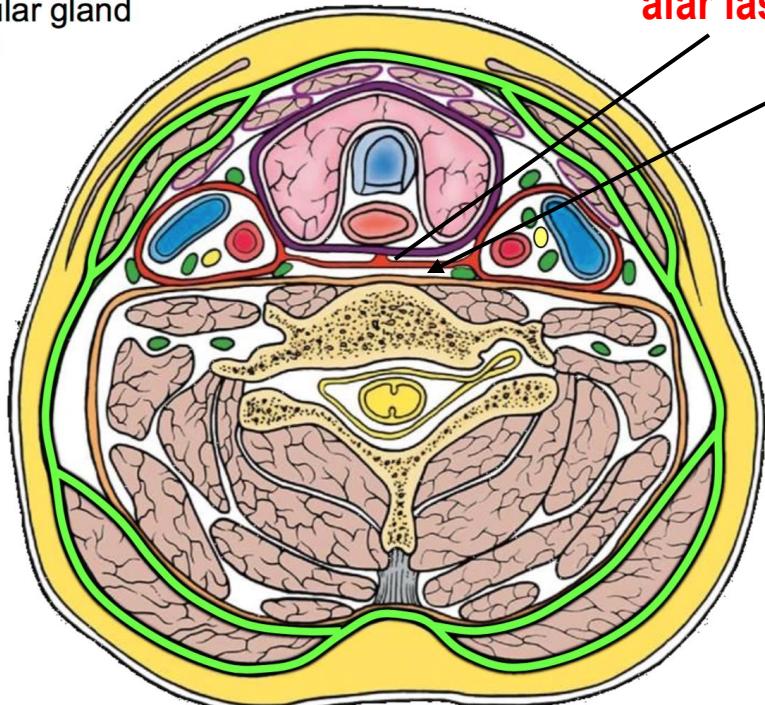
Encircles neck

Invests Trapezius and SCM, submandibular gland

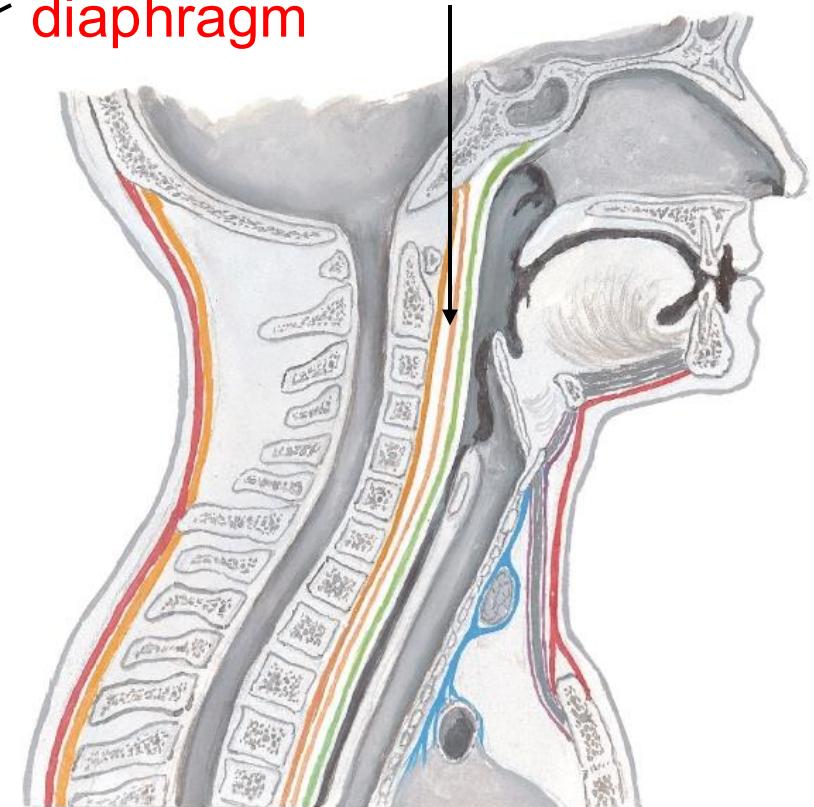
Continuous with capsule of parotid gland



investing fascia
pretracheal fascia
carotid sheath
prevertebral fascia



Danger Zone: space between alar fascia and prevertebral fascia. Infections can travel down through mediastinum to diaphragm



Netter 27

Clinical Correlate Thyroid Gland Diseases

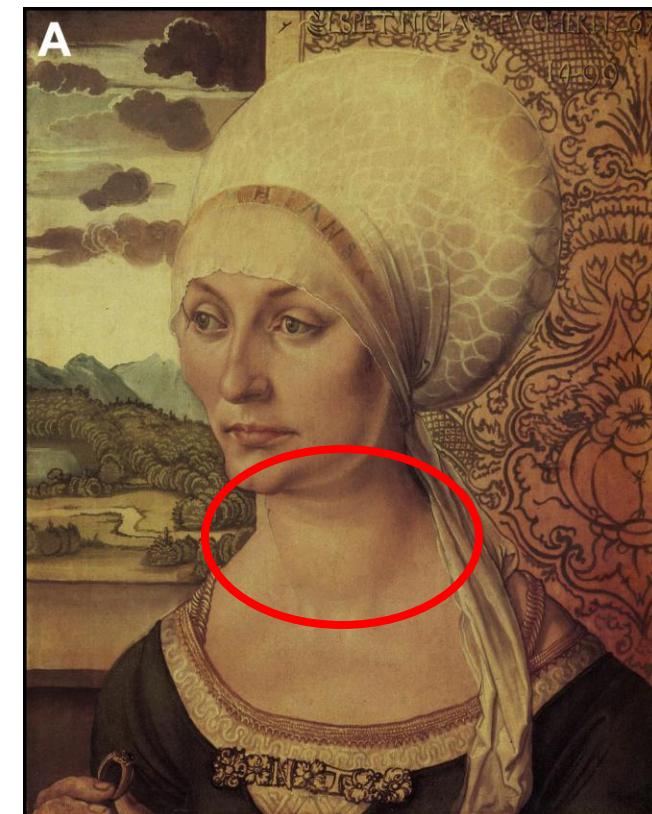
Goiter: enlargement of the thyroid gland, presented as lump on anterior aspect of the neck. Often due to iodine deficiency. Could be associated with:

Hyperthyroidism: overproduction of thyroid hormones.

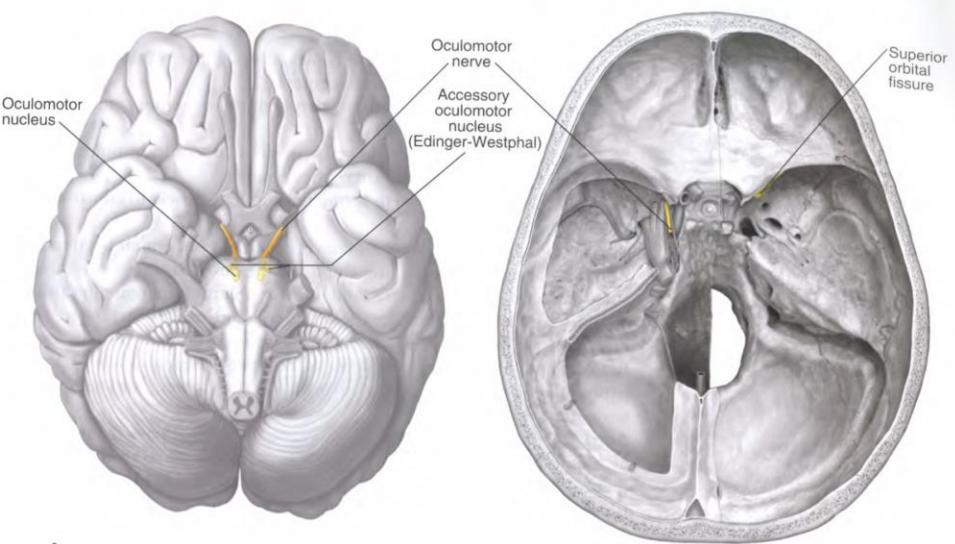
Hypothyroidism: underproduction of thyroid hormones. Glands swell to try to produce more hormones.

Could cause breathing/swallowing difficulties or speech loss due to compression of the trachea, larynx, esophagus, recurrent laryngeal nerve.

Goiter depicted in Renaissance paintings!

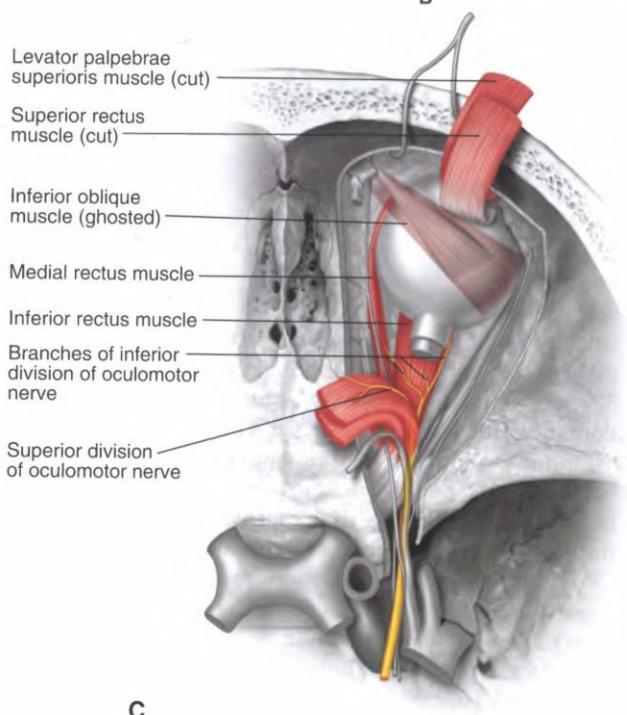


CN III: Oculomotor



A

B



C

Fiber Type: somatic motor

Function: eye movement
(superior, inferior, and medial recti, inferior oblique, and levator palpebrae superioris m.)

Additional functions to
know for other lectures
and for the comp exam.

Visceral motor: constriction of pupil
(sphincter pupillae m.) and
accommodation (ciliary m.)

Lecture Feedback

Lecture Feedback:

Click [HERE](#)

Questions:

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