Gross Anatomy

Dry Lab #3
Clinical Correlates
David Mabey



Landmarks

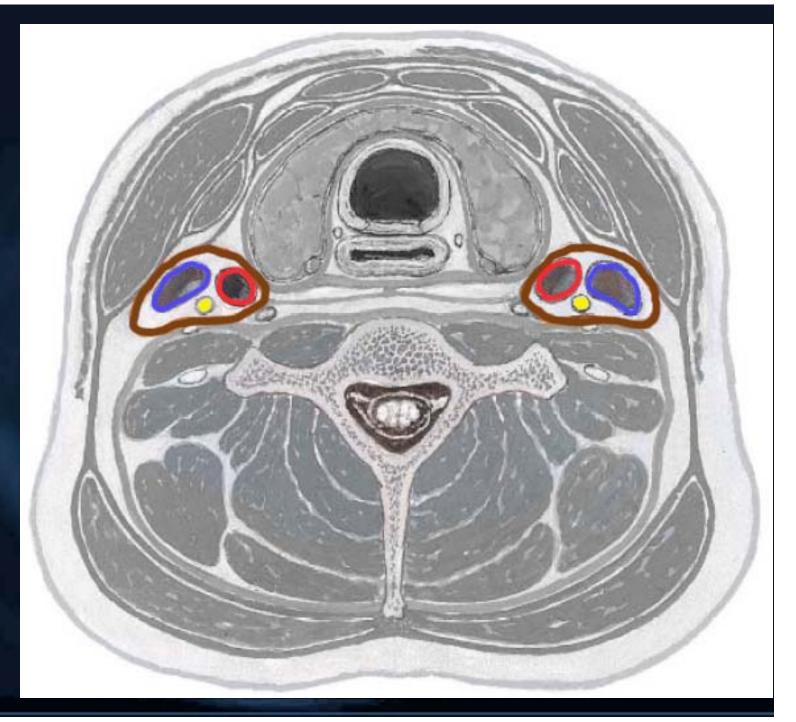
Layers

Carotid sheath

IJV

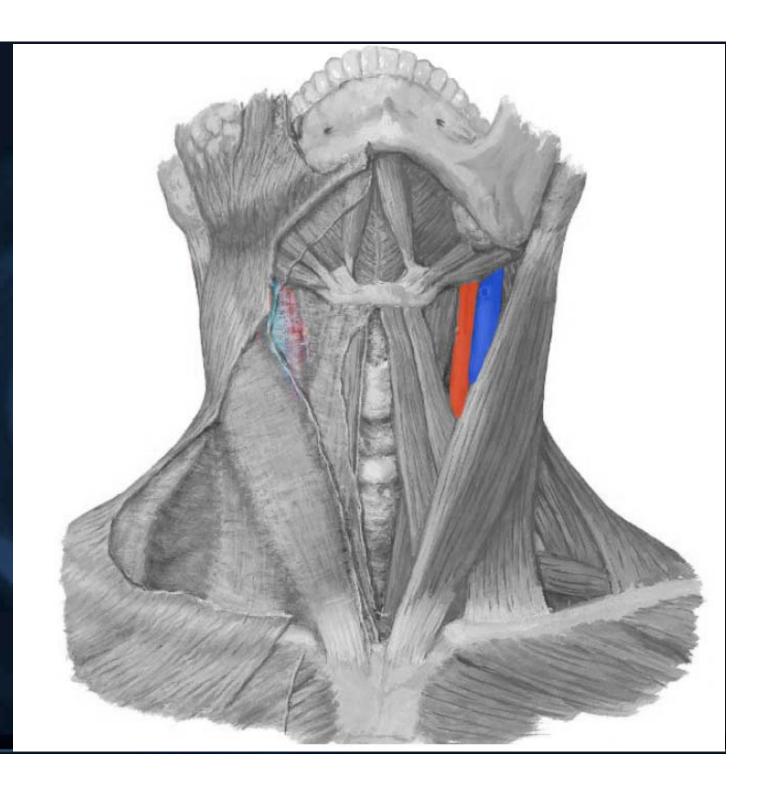
Carotid a.

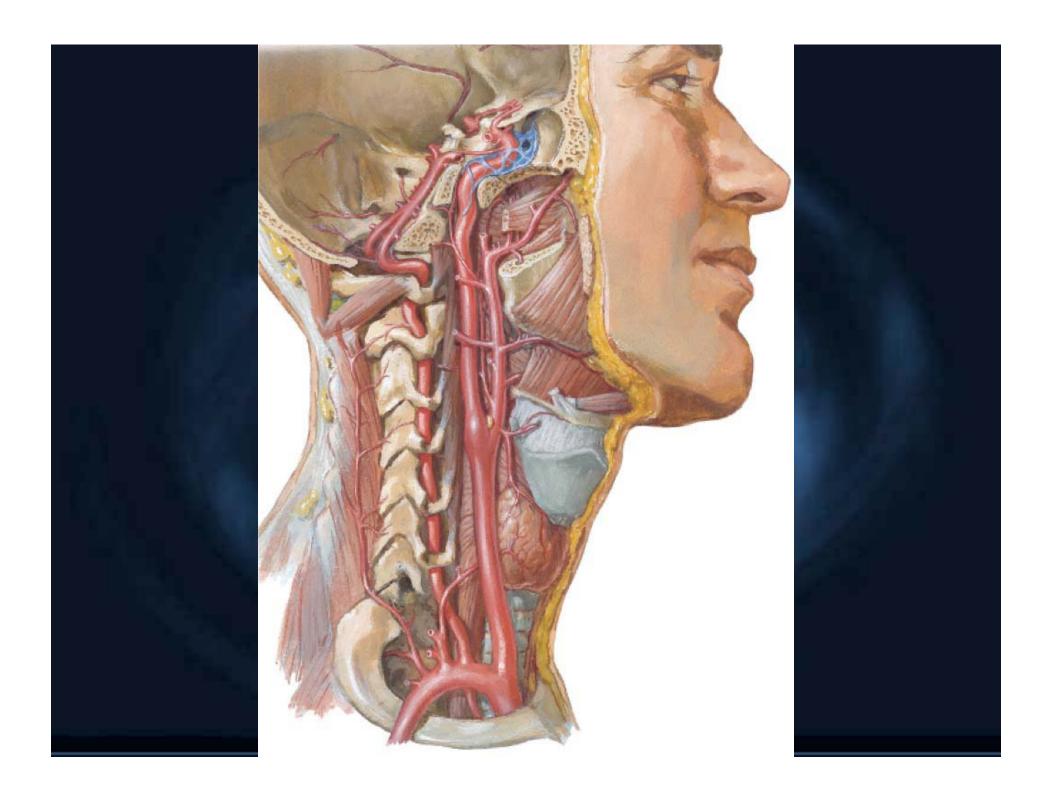
Vagus n.

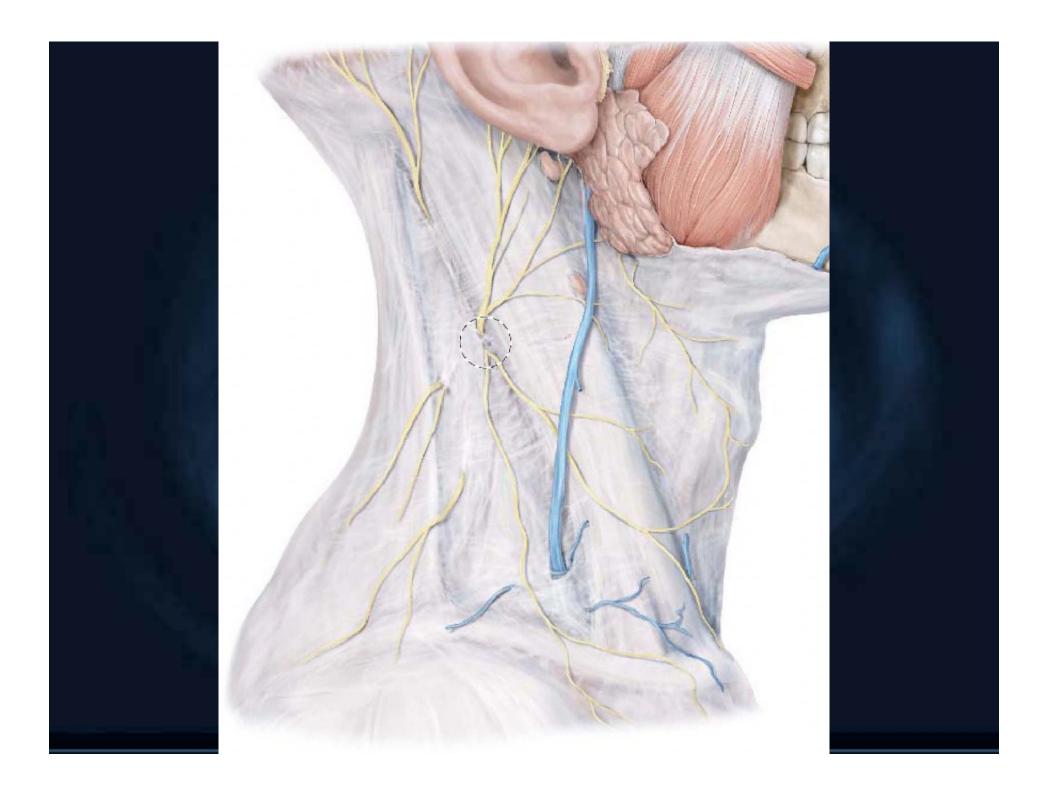


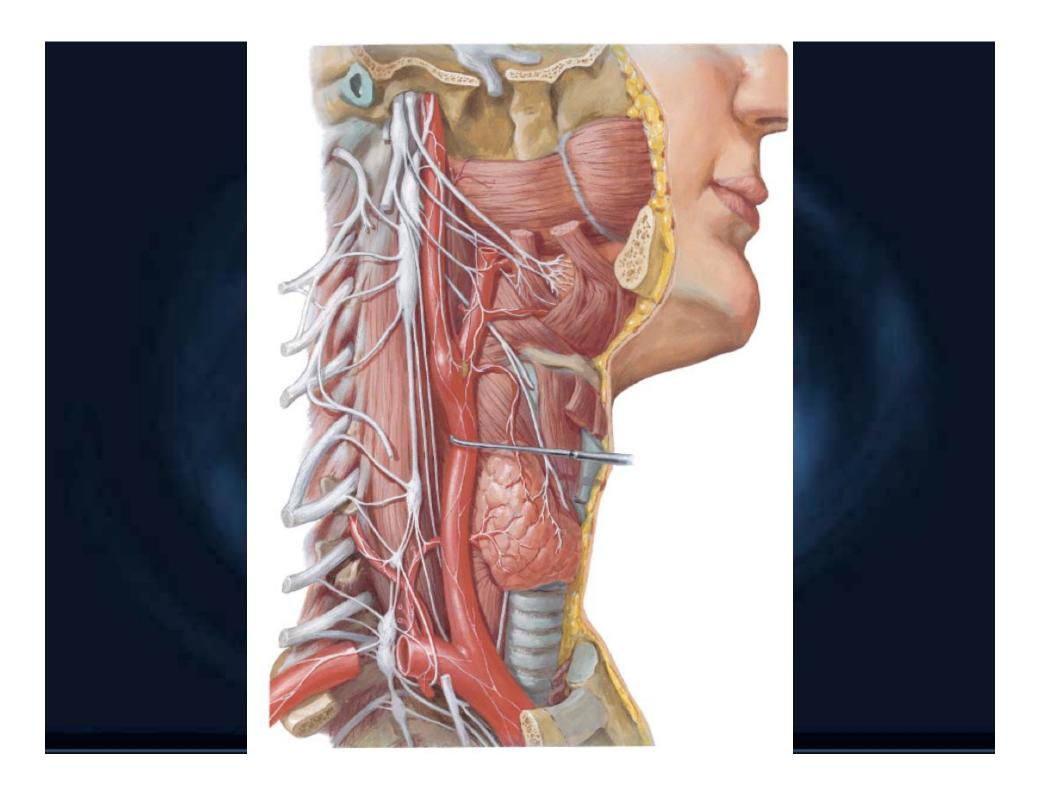
Carotid sheath IJV Carotid a.

Vagus n.







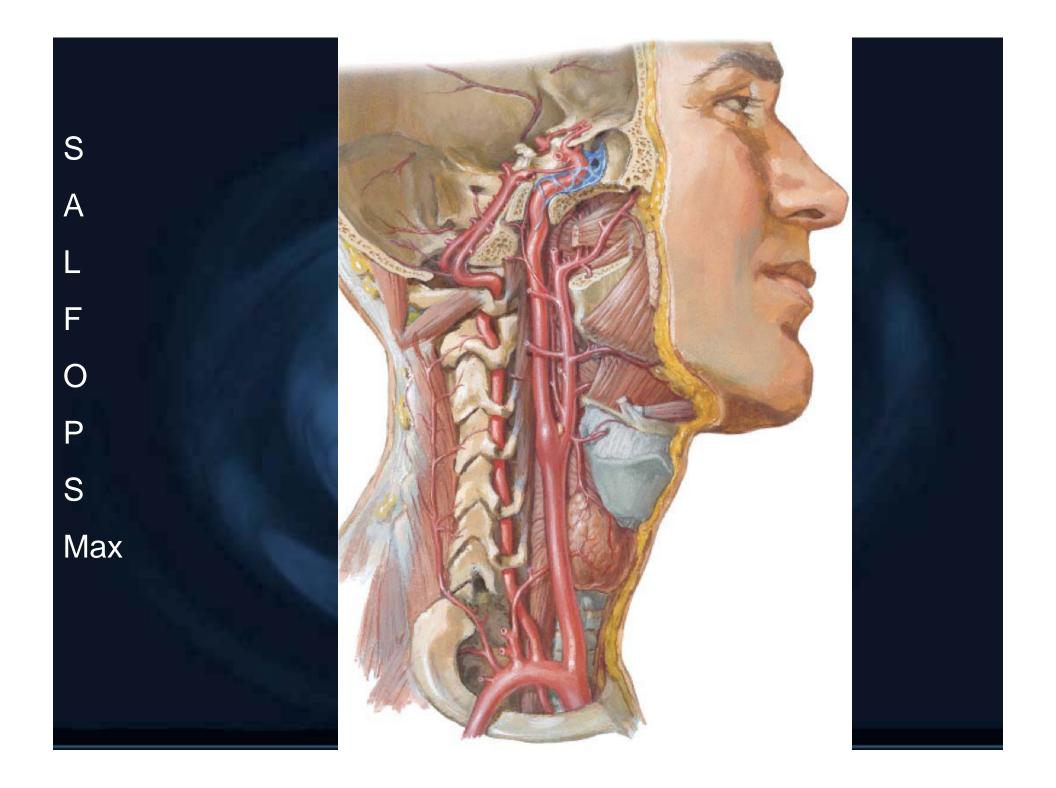


Carotid Endarterectomy

Landmarks

Layers

Complications



Superior thyroid

Ascending pharyngeal

Lingual

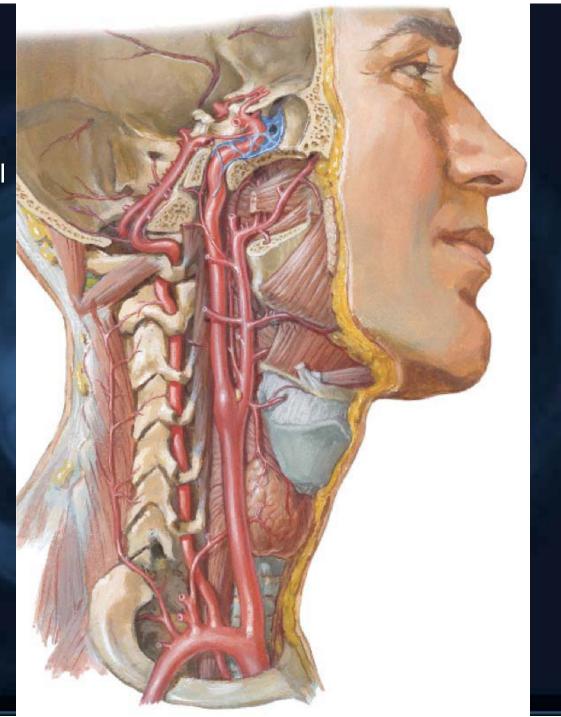
Facial

Occipital

Posterior auricular

Superficial temporal

Maxillary



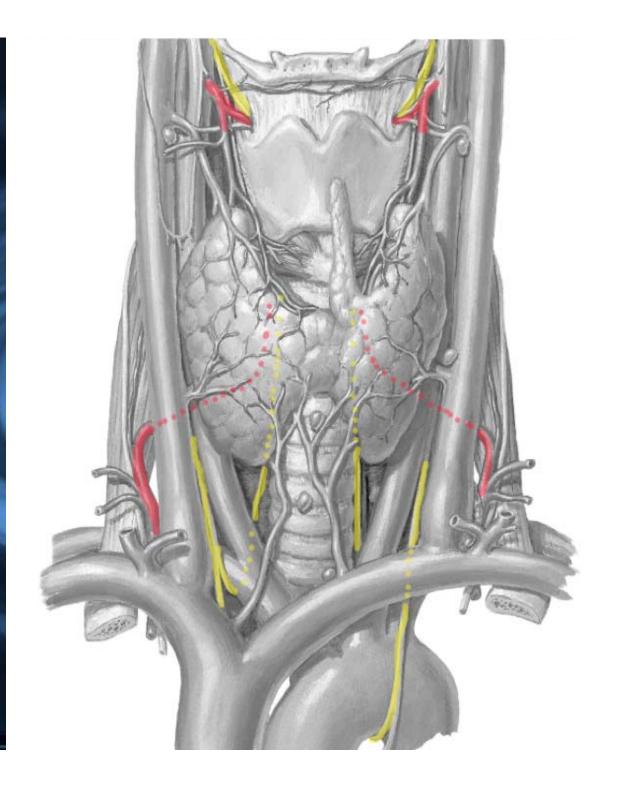


Landmarks

Complications

Internal laryngeal n.
Superior laryngeal a.

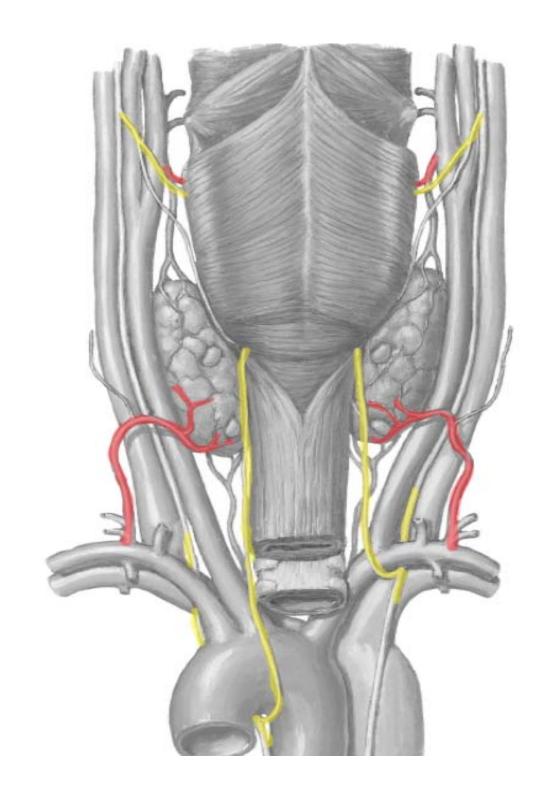
Inferior thyroid a.
Inferior (recurrent)
laryngeal n.



Internal laryngeal n.

Superior laryngeal a.

Inferior thyroid a.
Inferior (recurrent)
laryngeal n.

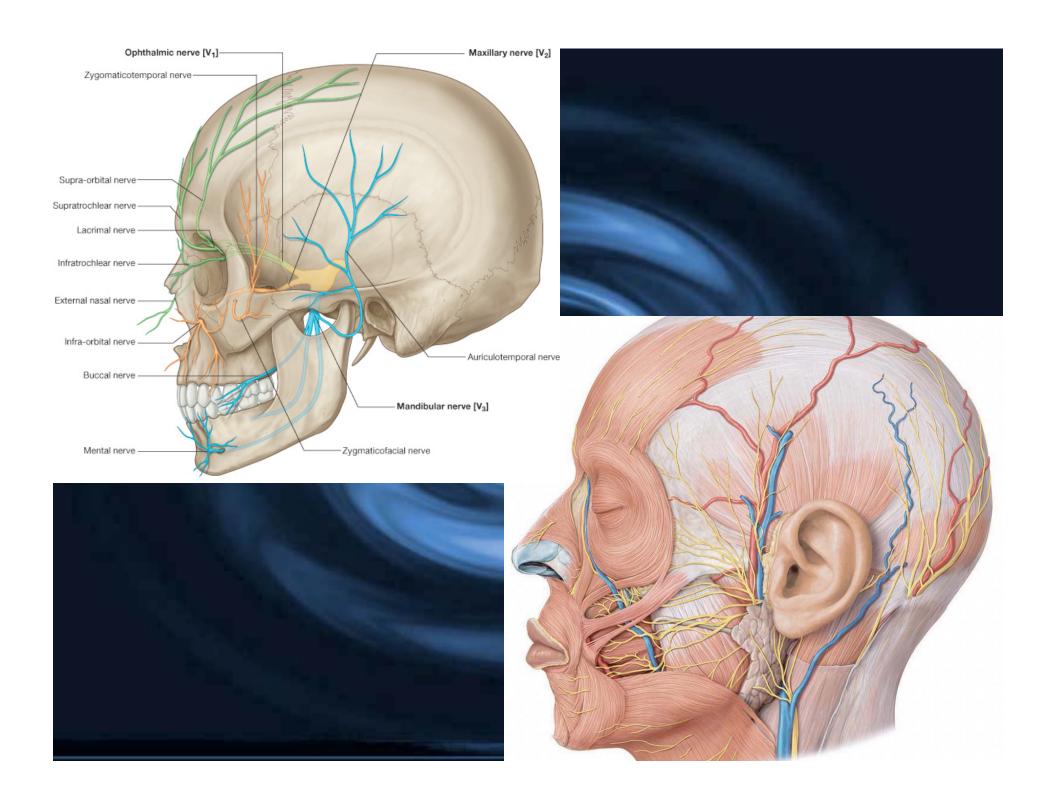


Thyroidectomy

- Landmarks
 - Thyroid cartilage, cricothyroid membrane
- Complications
 - Recurrant laryngeal nerve injury
 - Superior laryngeal nerve injury
 - Hypoparathyroidism
 - Thyrotoxic storm

Scalp Incisions

- Layers-SCALP
 - Aponeurosis (Galea) is the strength layer
- What do we worry about?



Dural Venous Sinuses Superior Sagittal Sinus

Where is it?

- Problems
 - Thrombosis
 - Surgery

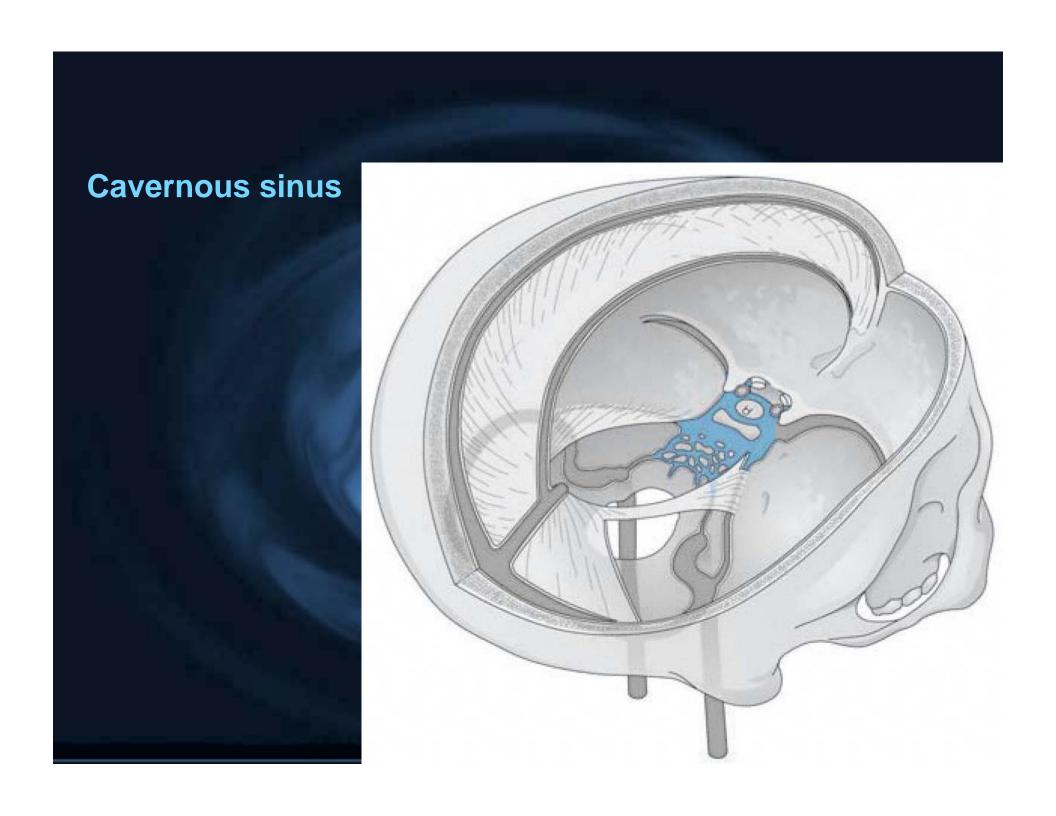
Superior sagittal sinus

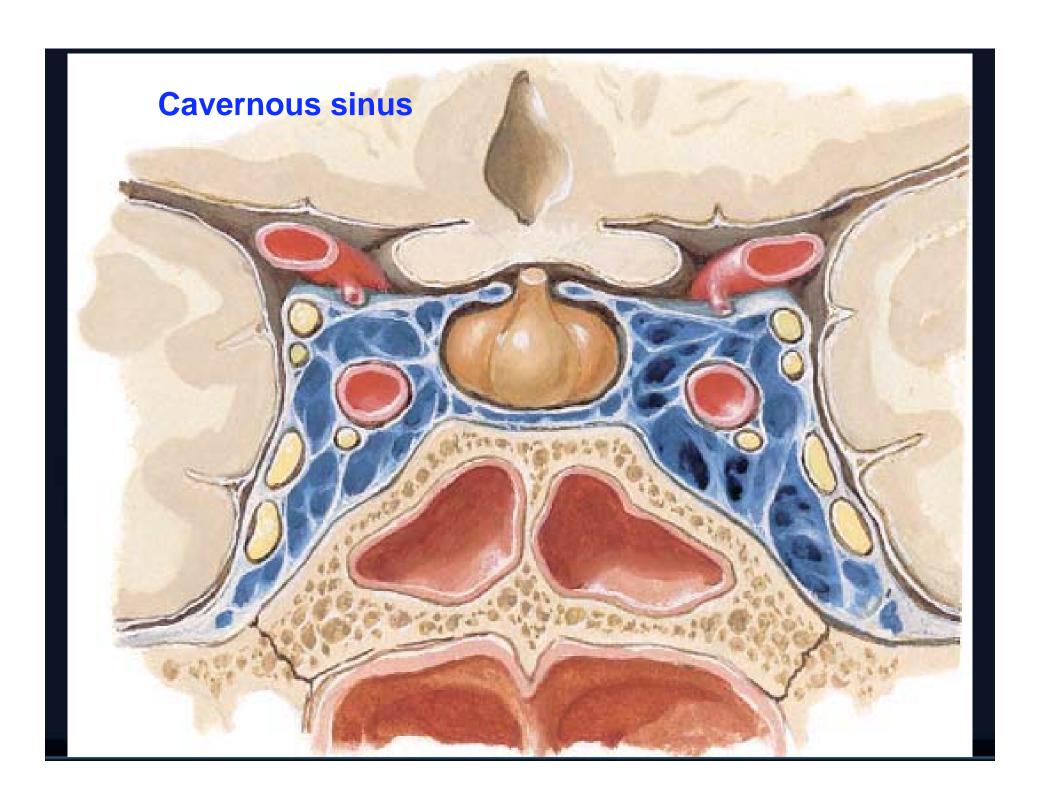
Dural Venous Sinuses Cavernous Sinus

Where is it?

Anatomy

- Cavernous sinus syndrome
 - Causes-aneurism, tumor, inflammation, infection

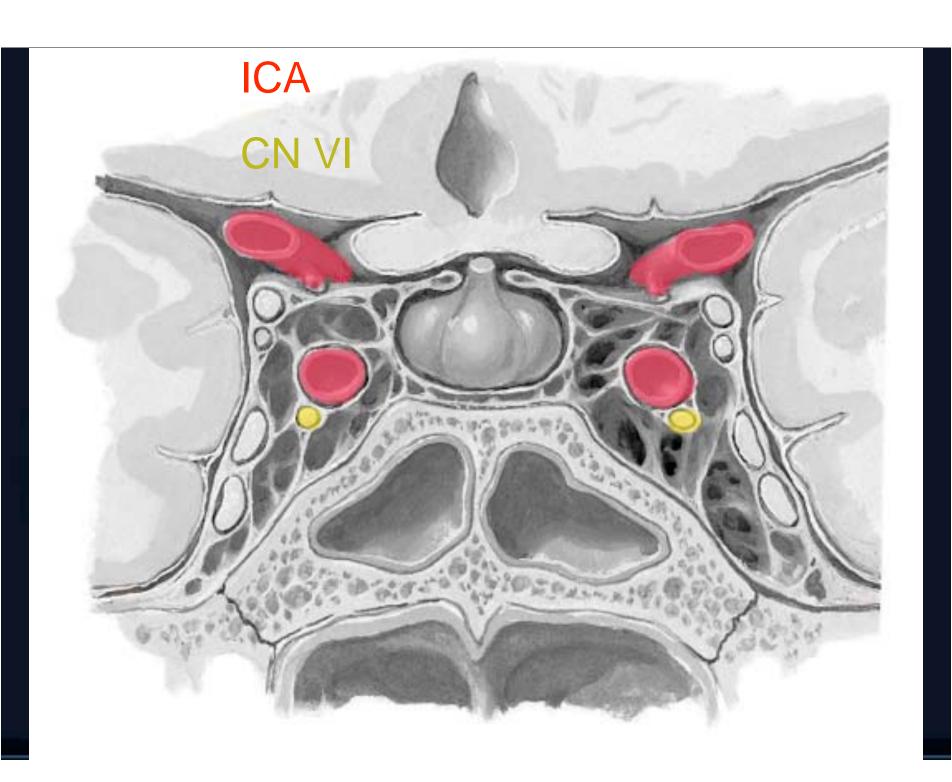




Dural Venous Sinuses Cavernous Sinus

Cavernous carotid artery aneurism (CCAA)

- Carotid-cavernous fistula
 - Causes-ruptured CCAA or trauma
 - Presents with HA, cavernous sinus syndrome
 - Pupil?



Hydrocephalus

- Two types: communicating and obstructive
 - Communicating-inadequate resorption of CSF, usually at arachnoid villi
 - Causes: subarachnoid hemorrhage, meningitis

Hydrocephalus-obstructive

 As the name implies, this is caused by an obstruction of CSF flow



Hydrocephalus-obstructive

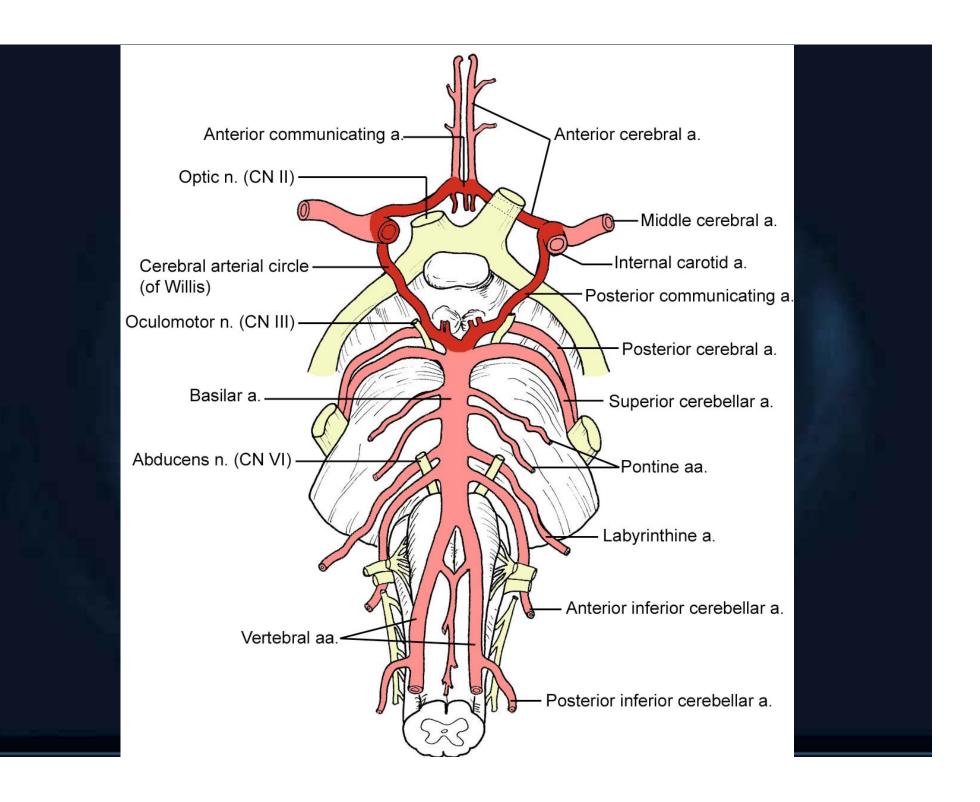
- Sites of obstruction
 - Interventricular foramen
 - The cerebral aqueduct
 - Fourth ventricle obstruction
 - The medial and lateral apertures
- Causes?

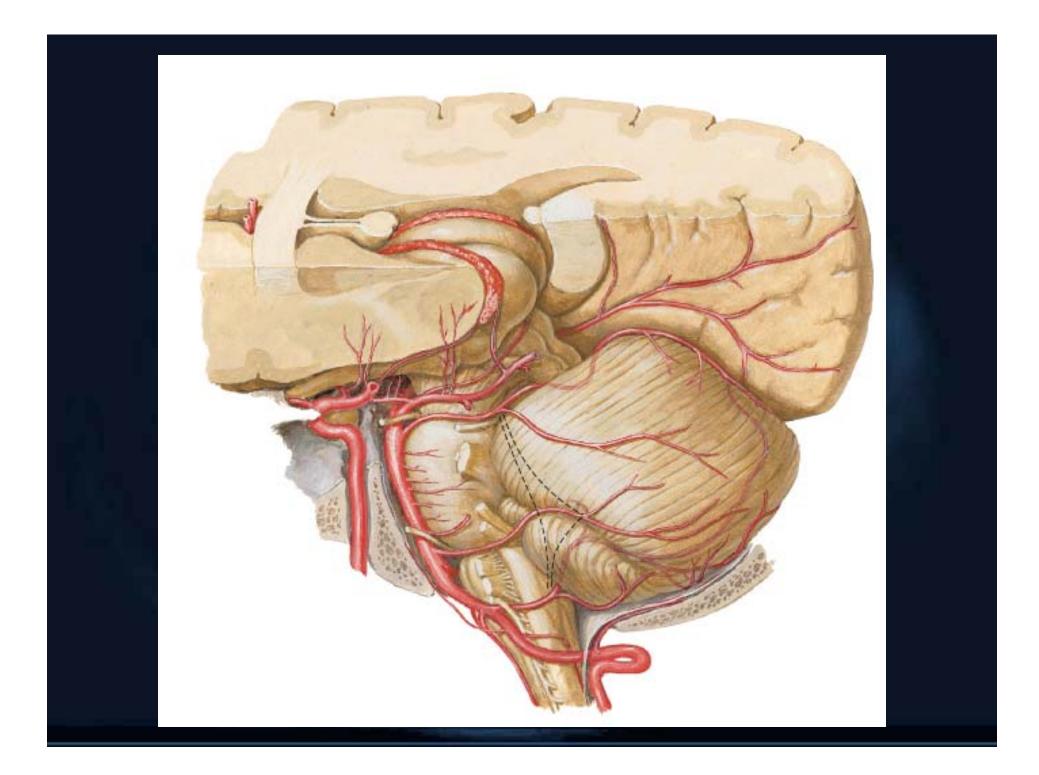
Hemifacial Spasm

- Involuntary facial contractions caused by compression of facial nerve by a vessel
- Which one?

Hemifacial Spasm

- Involuntary facial contractions caused by compression of facial nerve by a vessel
- Which one?
 - Usually AICA





Horner's Syndrome

- Symptoms-know the affected nerves
 - Ptosis
 - Miosis
 - Anhydrosis
- Causes?
 - Pancoast tumor at apex of lung
 - Lateral medullary syndrome
 - Cluster headache

Primary Amoebic Meningoencephalitis

- Caused by Naegleria fowleri
- Symptoms: Severe HA, fever, stiff neck, nausea, vomiting, seizures, hallucinations, death
- Very specific conditions required
 - Must be present in water
 - Water must be >80° F
 - Amoeba must get up the nose

Cranial Nerve Review

Neurologic Exam