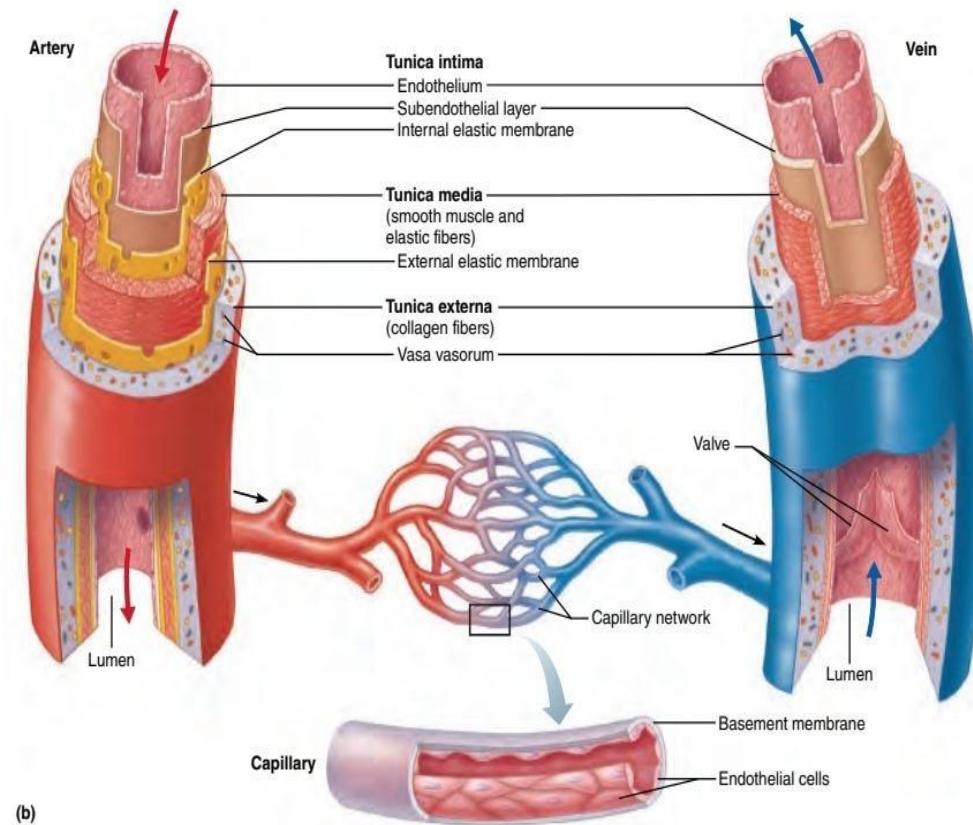


Arterial supply of head and neck

Lec. 2

Dr.Farqad Salih

الغلاة الداخلية

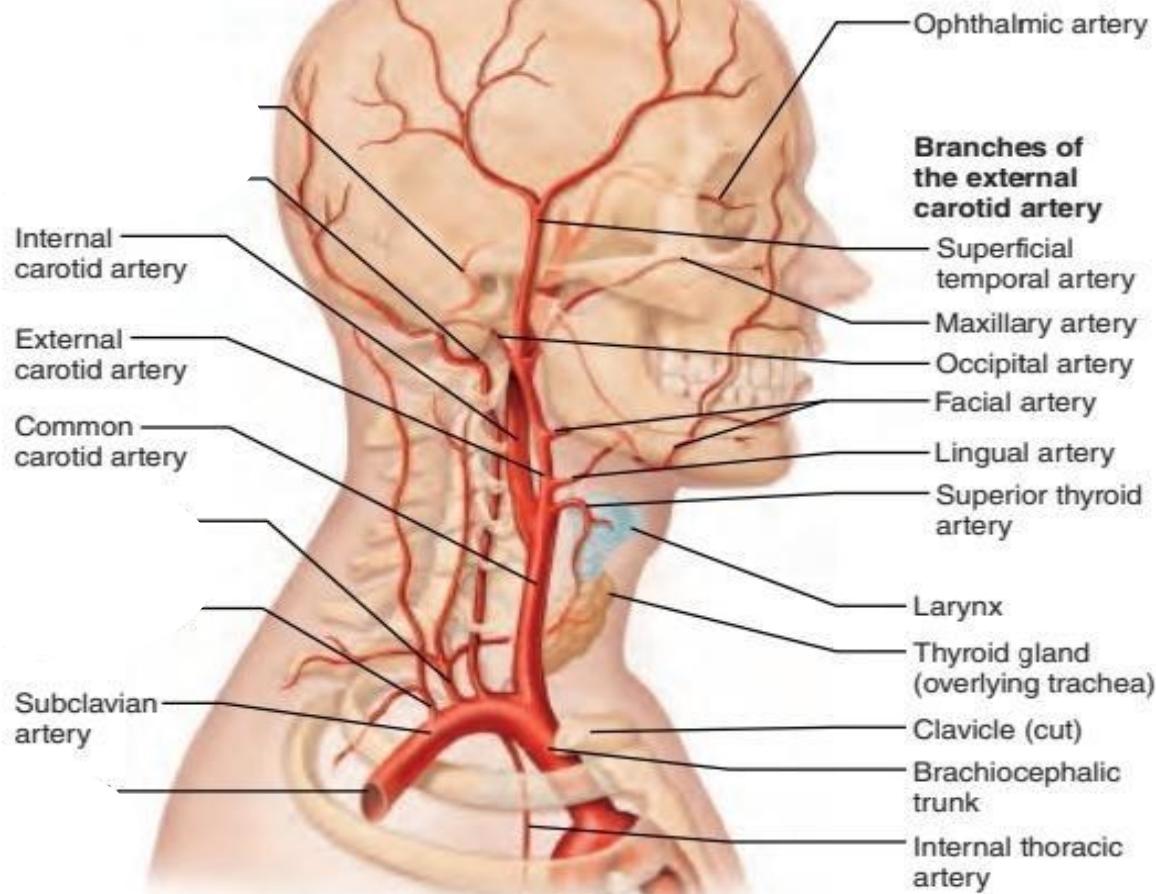


Arterial supply

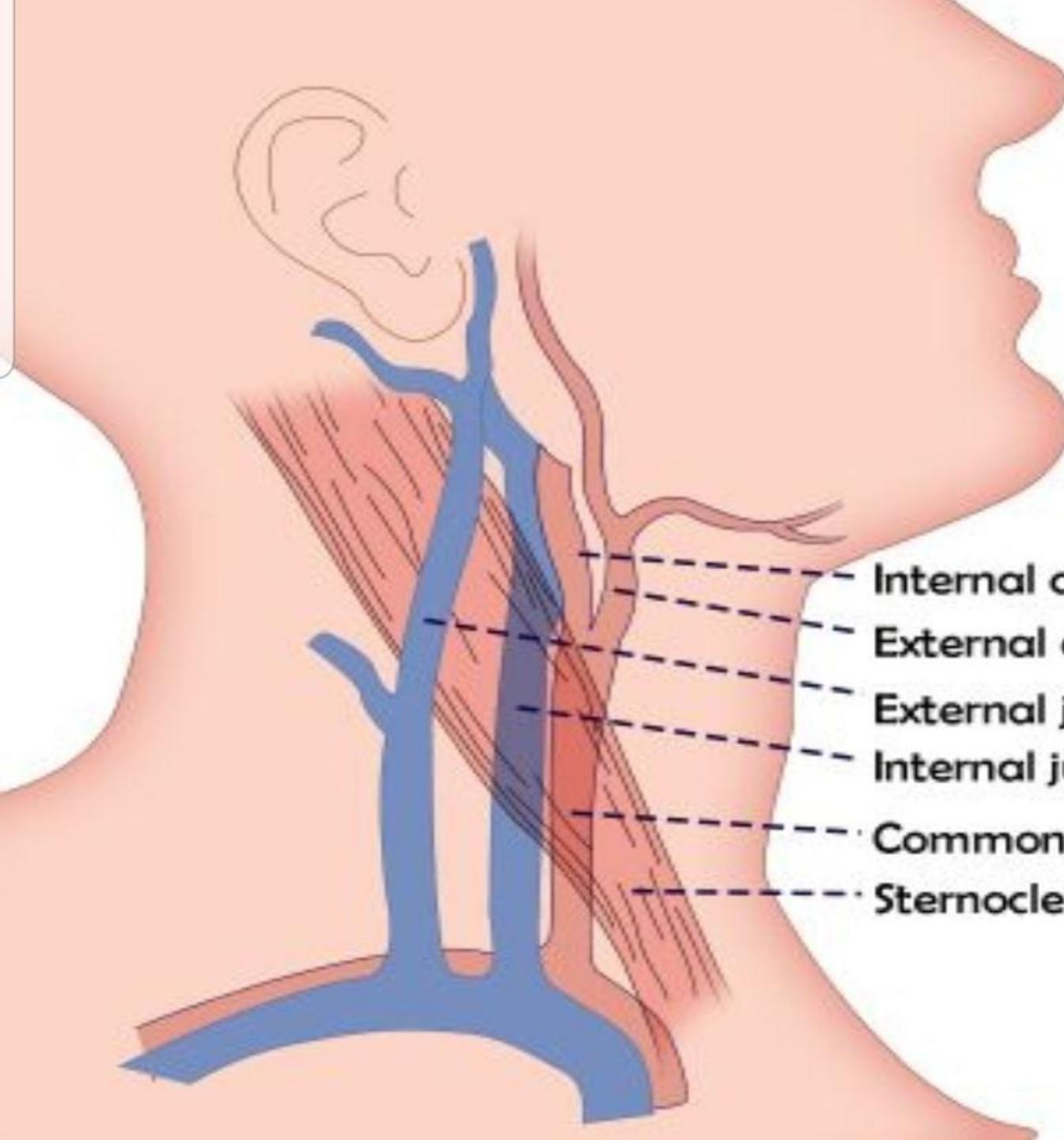
- The head and neck receive most of their vascular supply from branches of the
 1. external carotid arteries
 2. internal carotid arteries
 3. as well as from certain branches of the subclavian artery .

Most of the blood within the internal carotid artery and the vertebral branch of the subclavian artery is destined for the brain, whereas all of the blood carried by the external carotid artery and some branches of the subclavian artery supplies the remainder of the region.

Drainage of this area is accomplished by the tributaries of the internal and external jugular veins, as well as those of the vertebral vein.



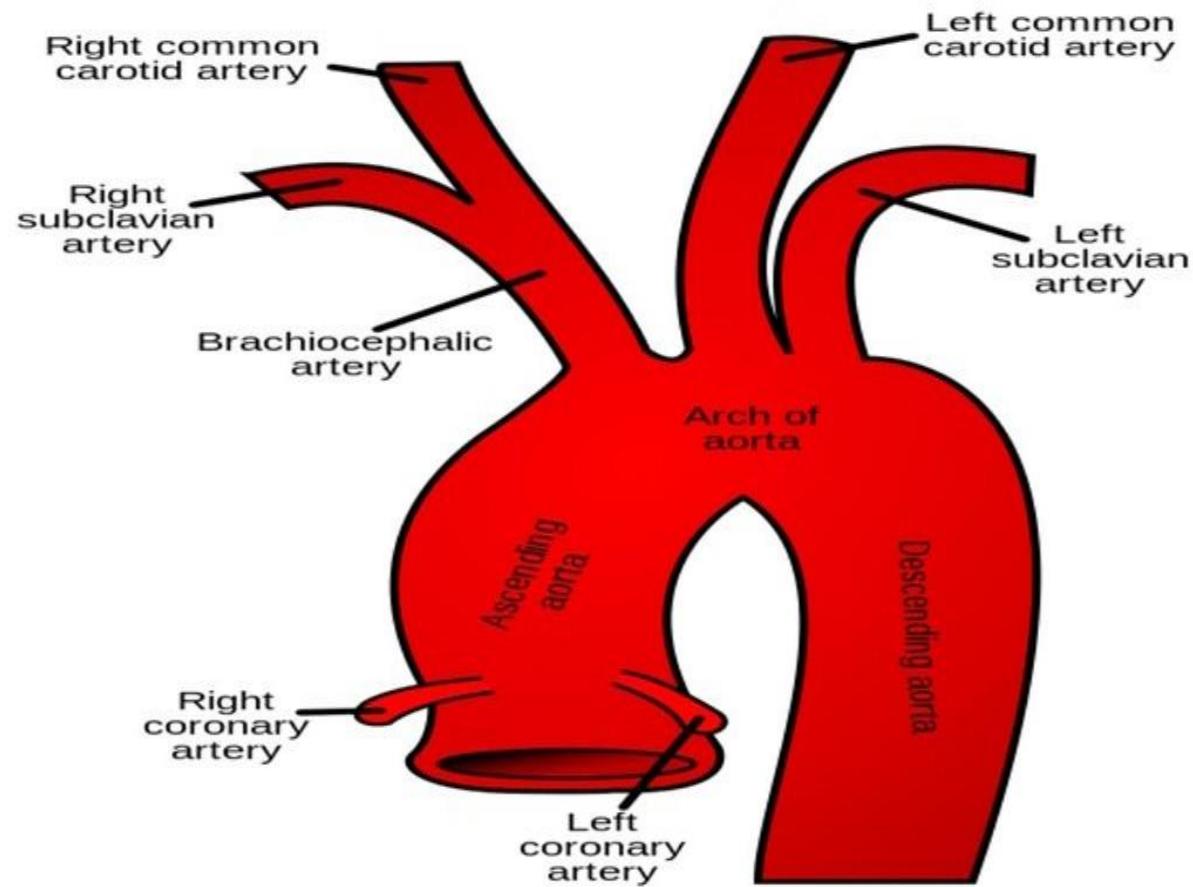
(a) Arteries of the head and neck, right aspect

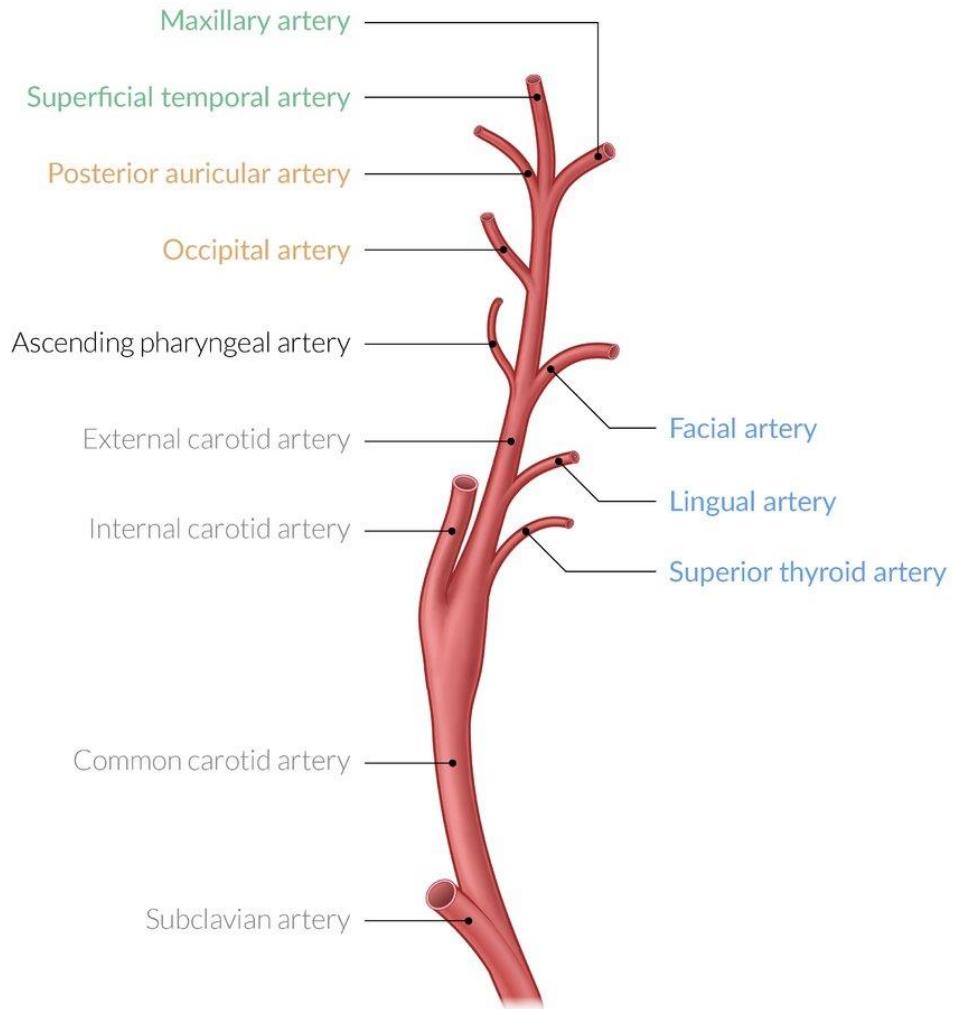


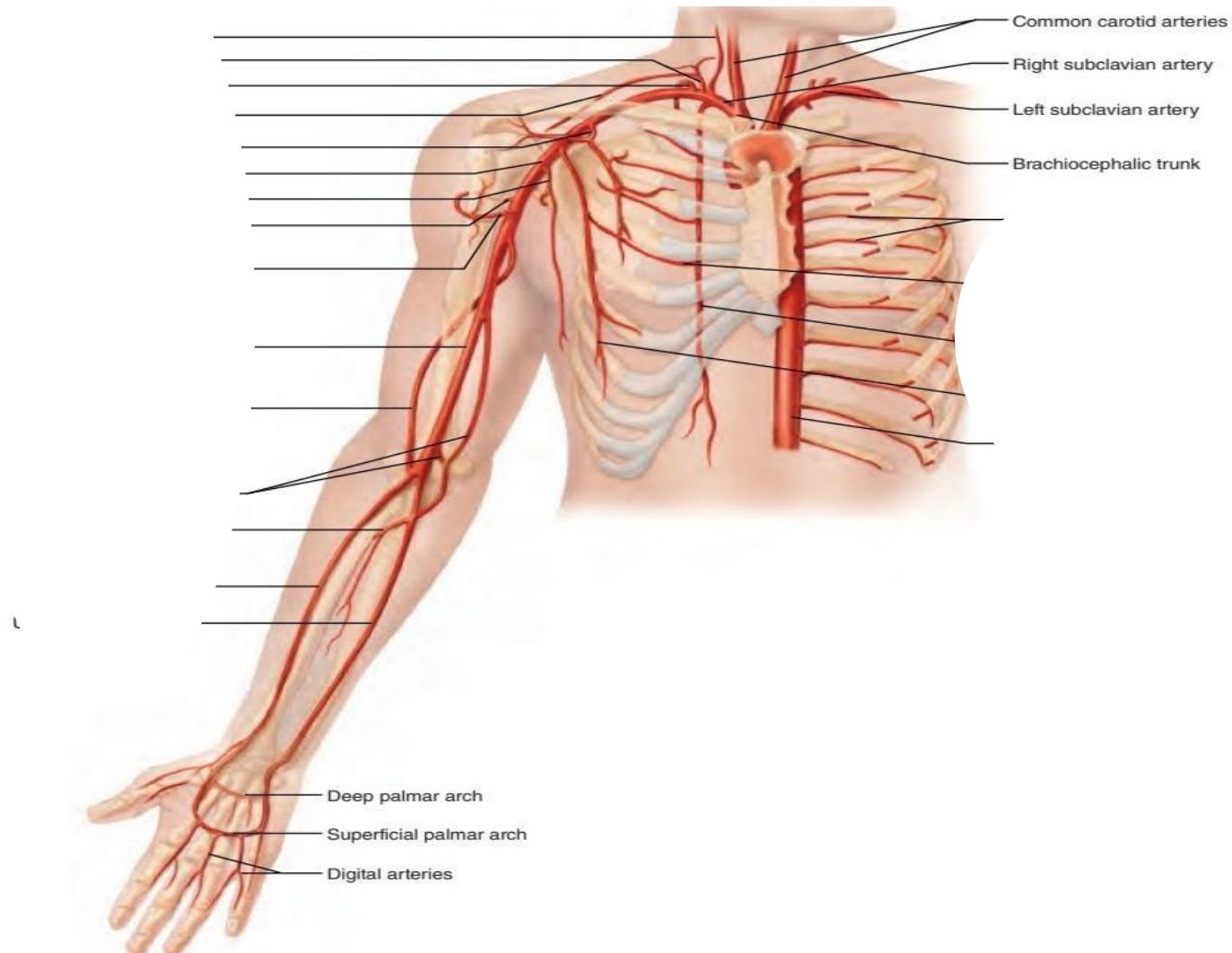
- Internal carotid artery
- External carotid artery
- External jugular vein
- Internal jugular vein
- Common carotid artery
- Sternocleidomastoid muscle

Common Carotid Artery & subclavian artery

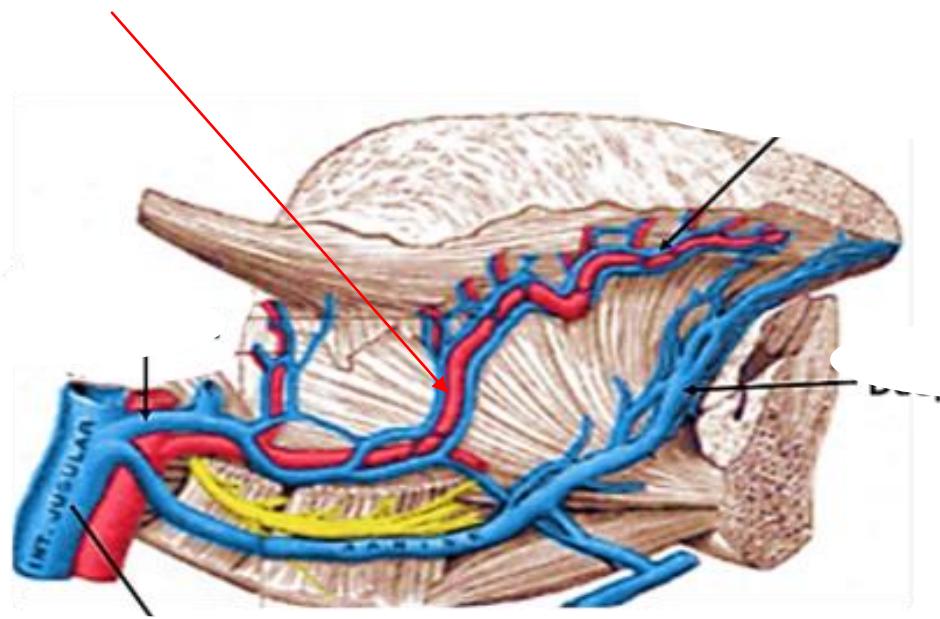
Common Carotid Artery, similar to the subclavian artery origins, differs between the left and right sides. The right common carotid artery originates from the brachiocephalic trunk, whereas the left common carotid artery originates from the arch of the aorta. The common carotid arteries possess no branches in the neck, each common carotid artery bifurcates at the level of the thyroid cartilage into the internal and external carotid arteries.

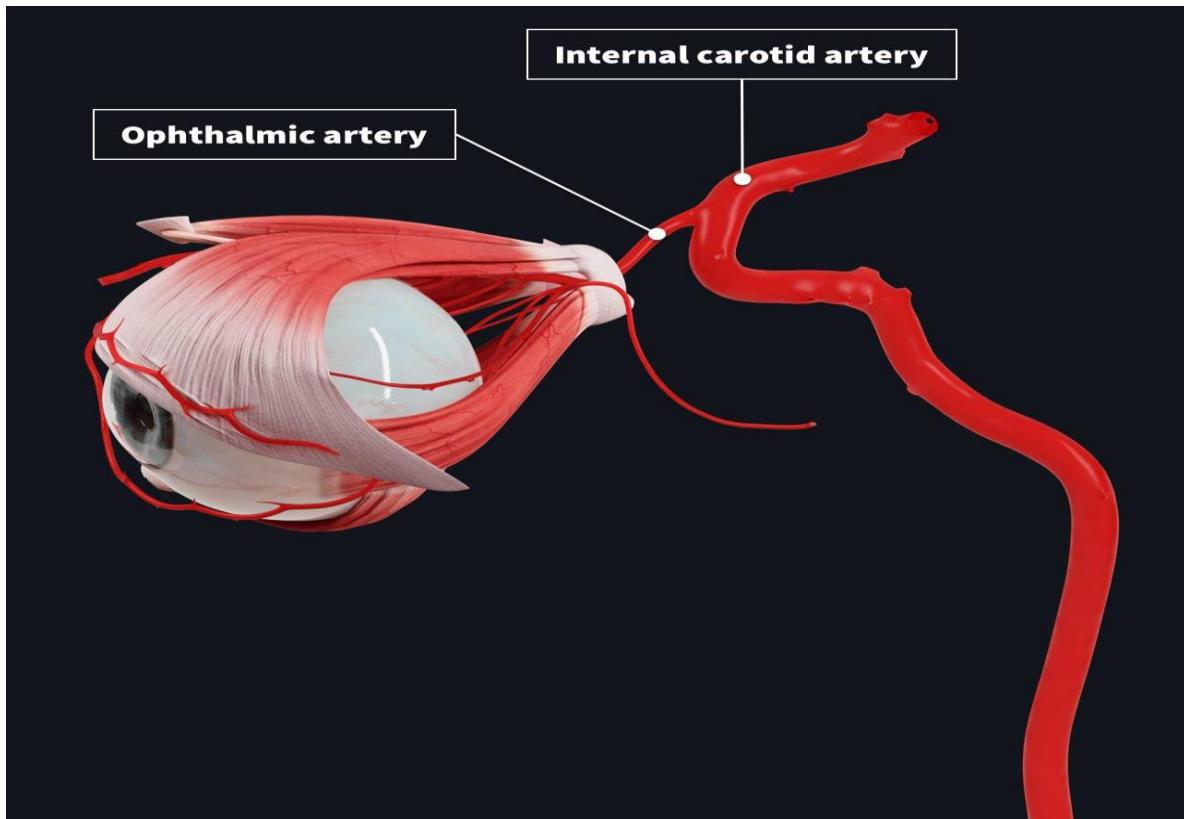






Lingual artery





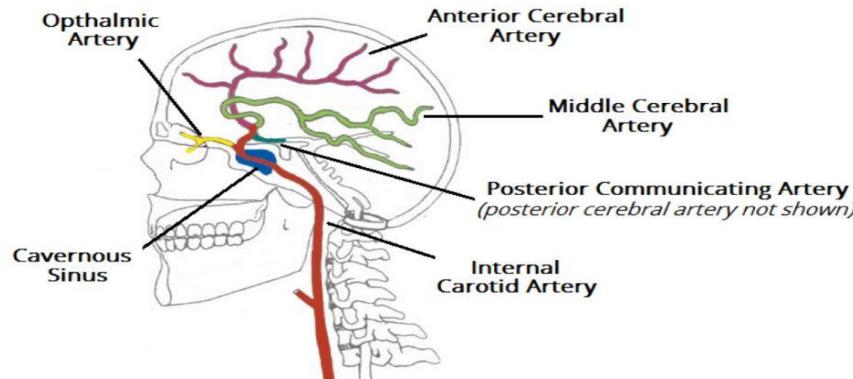
External Carotid Artery

External Carotid Artery is the other terminal of the common carotid artery arising at the bifurcation of the common carotid artery. The external carotid artery has six collateral and two terminal branches. The branches serve structures in the neck and the head, including the face, oral cavity, and nasal cavity. The two terminal arteries serve the oral cavity, deep face and the structures about it, and the side of the head.

Internal carotid Artery

Possesses no branches in the neck.
Instead, it enters into the cranial vault
via the carotid canal to serve the
structures within the cranium.

Internal Carotid Branches



A useful **mnemonic** to remember the **branches of the internal carotid artery** is:

- **A VIP'S COMMA**

Mnemonic

- **A:** anterior choroidal artery (C7)
- **V:** Vidian artery (C2)
- **I:** inferolateral trunk (C4)
- **P:** posterior communicating artery (C7)
- **S:** superior hypophyseal artery (C6)
- **C:** caroticotympanic artery (C2)
- **O:** ophthalmic artery (C6)
- **M:** meningohypophyseal trunk (C4)
- **M:** middle cerebral artery (C7)
- **A:** anterior cerebral artery (C7)

Thyroid artery

The superior thyroid artery descends in the neck, accompanied by the same named vein and the external laryngeal nerve, reaches the superior pole of the thyroid gland, and divides into its terminal branches, some of which anastomose with their counterparts of the other side and with branches of the inferior thyroid artery.

