

Module 9 LO2

Axial Musculature: Head and Neck Muscles

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[Link to video recording](#)

2. Axial Musculature: Head and Neck

Head:

- A. Muscles of facial expression
- B. Muscles of mastication
- C. Extra-ocular muscles

Neck:

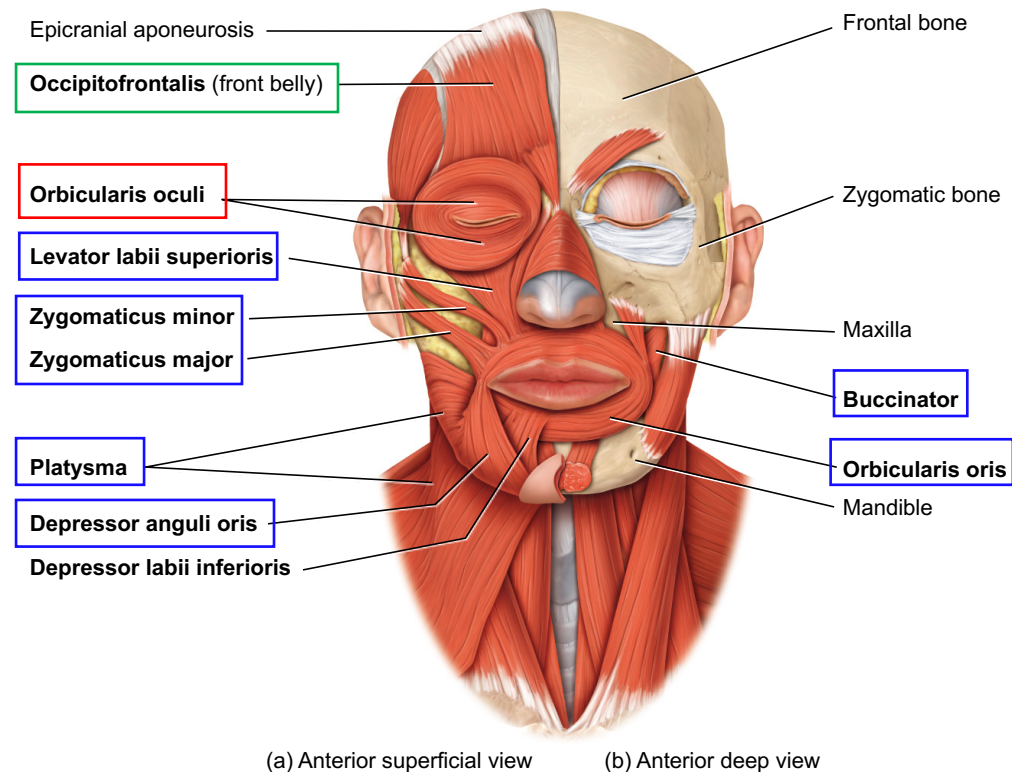
- D. Muscles for swallowing and speaking
- E. Muscles that move the head

A. Head: Muscles of Facial Expressions

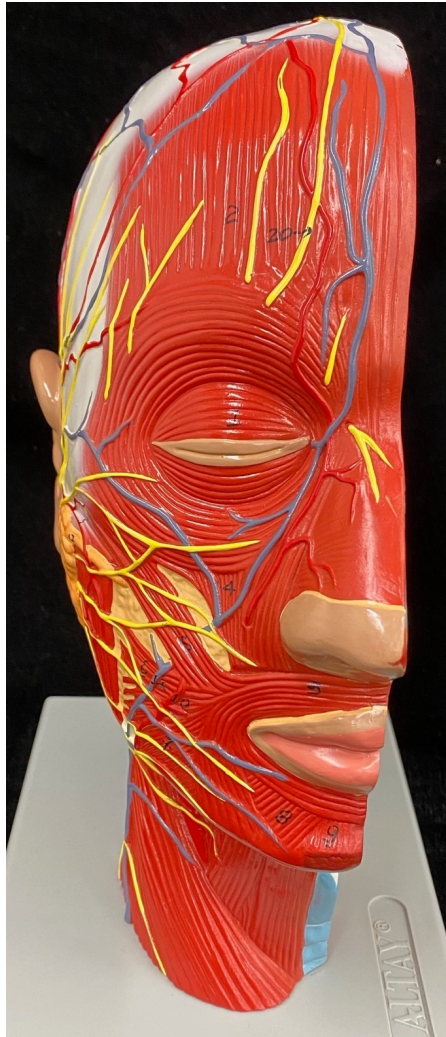
- Originate from the fascia or bones of the skull
- Insert into skin
 - Because of their insertions, the muscles involved in facial expression move the skin rather than a joint when they contract

Frontal View of Head Muscles

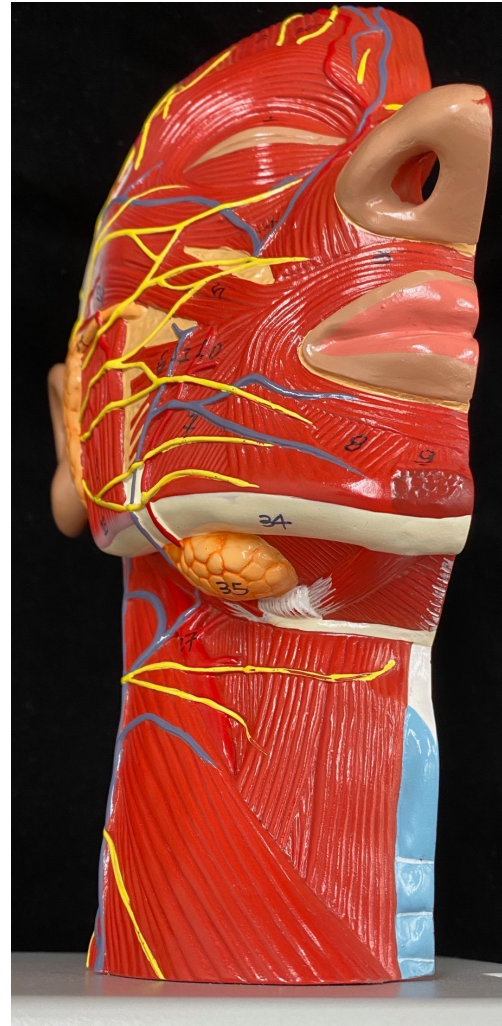
- Scalp Muscle
- Mouth Muscles
- Eye Region Muscles
- Muscles that function as sphincters and dilators:
 - Eyes and mouth



Frontal View of Head Muscles

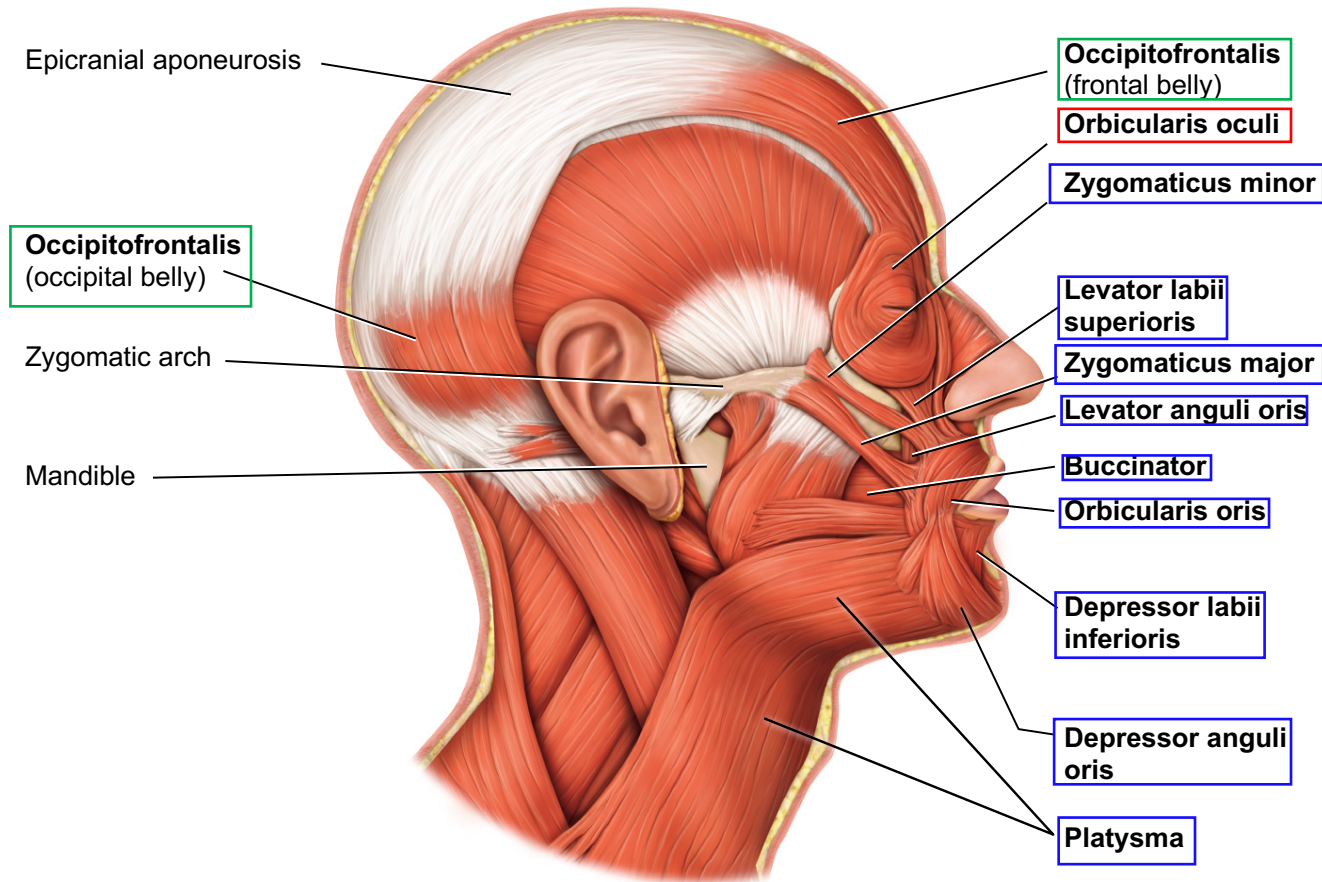


ANTERIOR



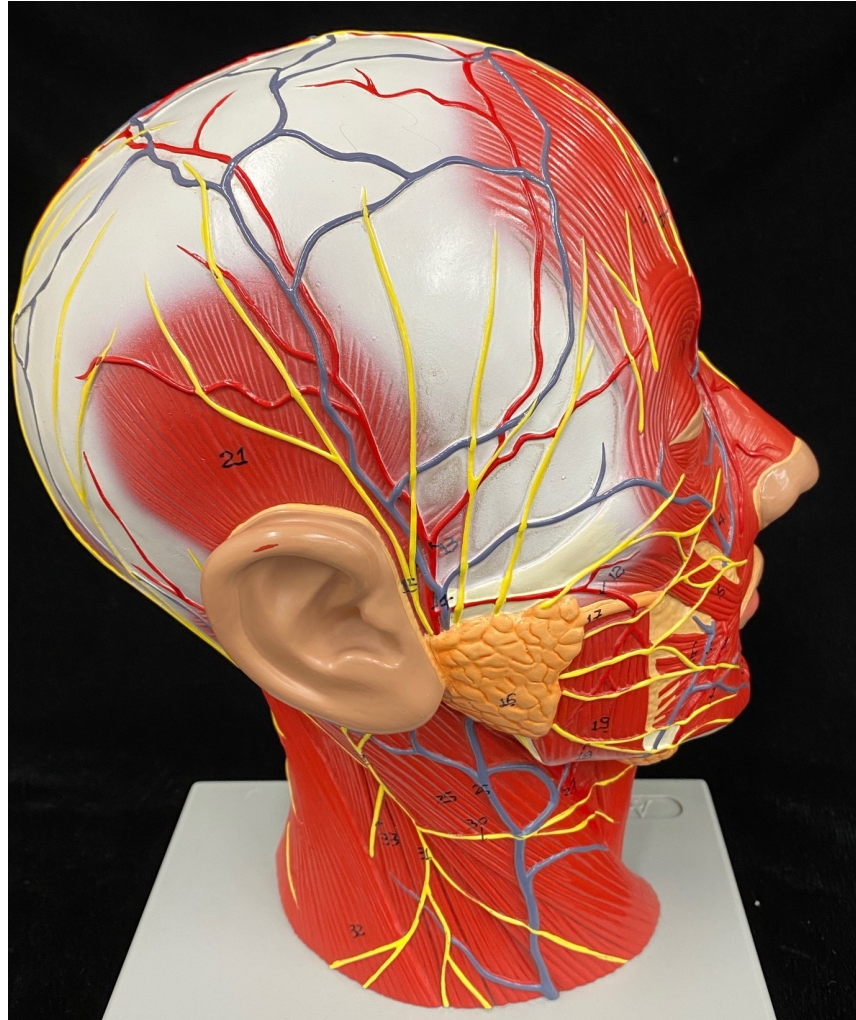
ANTEROINFERIOR

Lateral View of Head Muscles



(c) Right lateral superficial view

Lateral View of Head Muscles



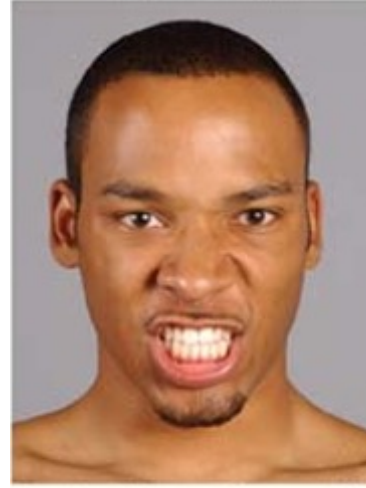
Muscles of Facial Expression: Actions



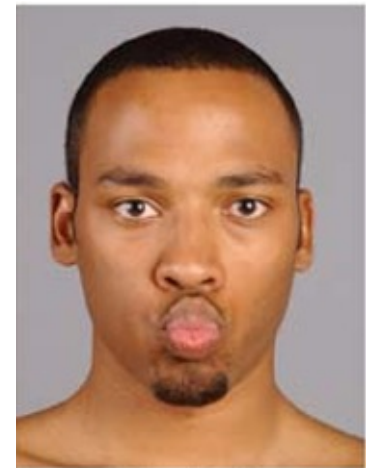
Occipitofrontalis



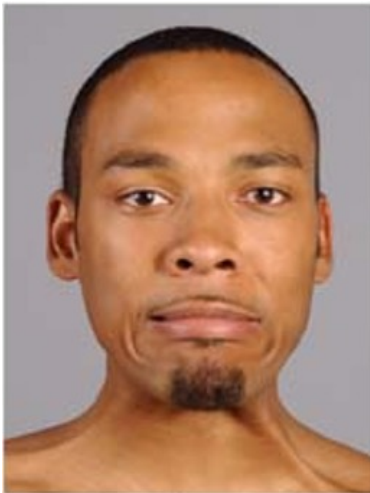
Buccinator + orbicularis oris



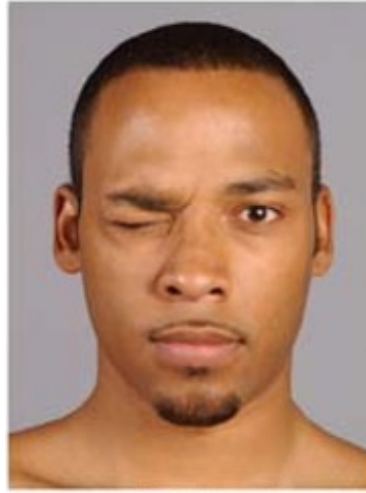
Levator labii sup. + depressor labii



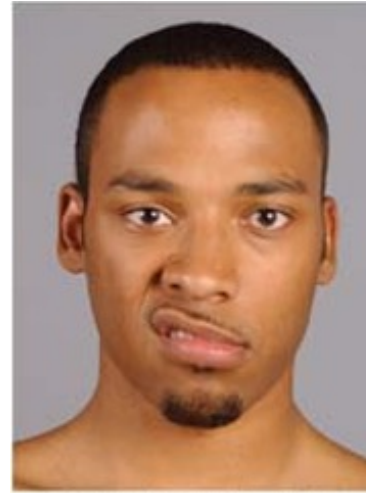
Orbicularis oris



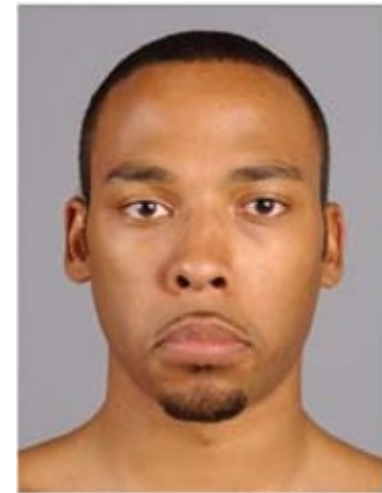
Platysma



Orbicularis oculi



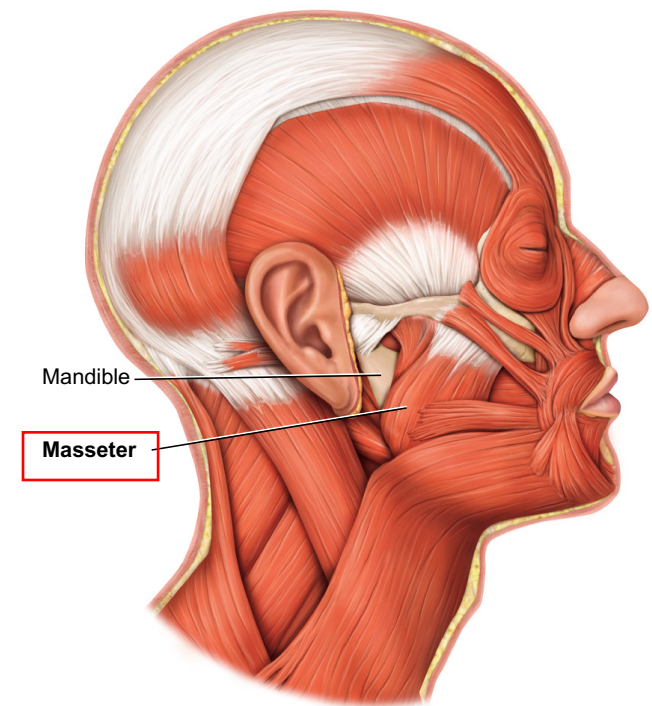
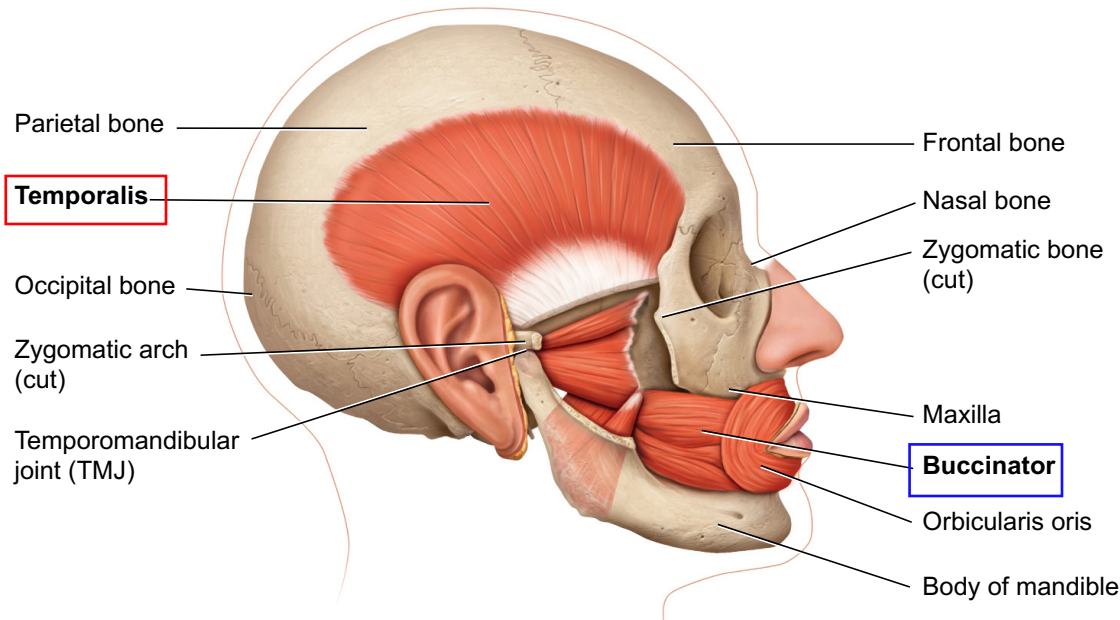
Zygomaticus major + minor



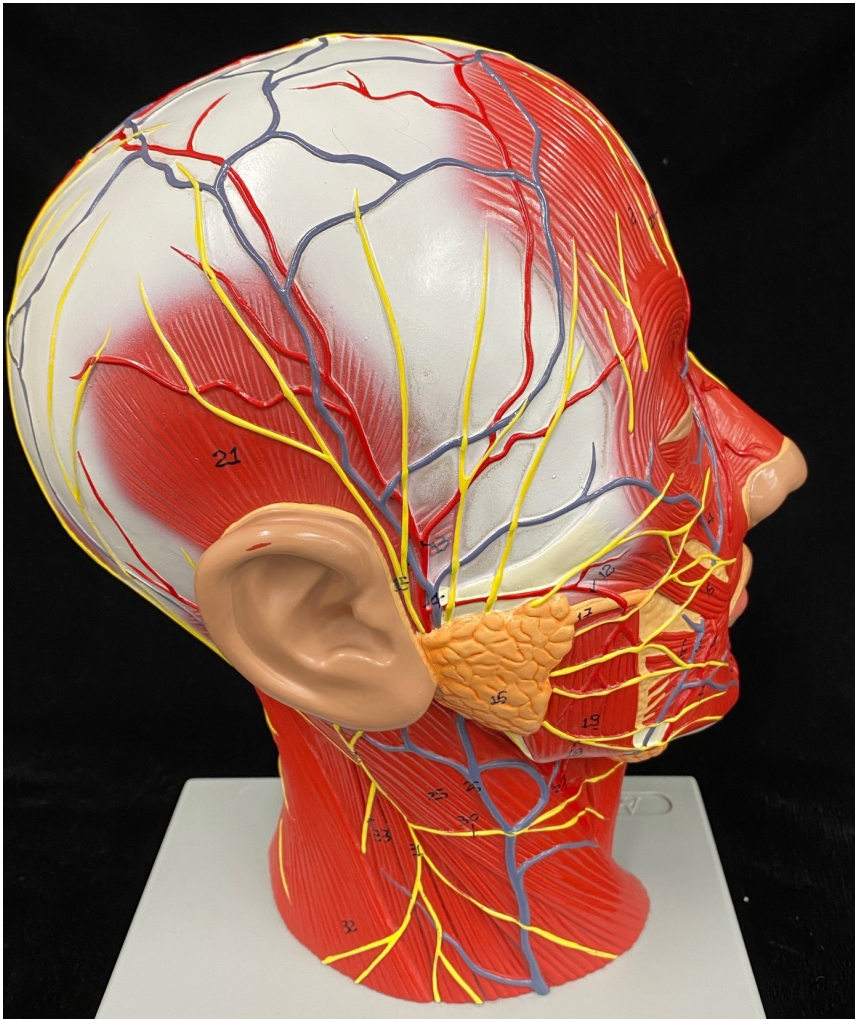
Depressor anguli oris

B. Head: Muscles of Mastication

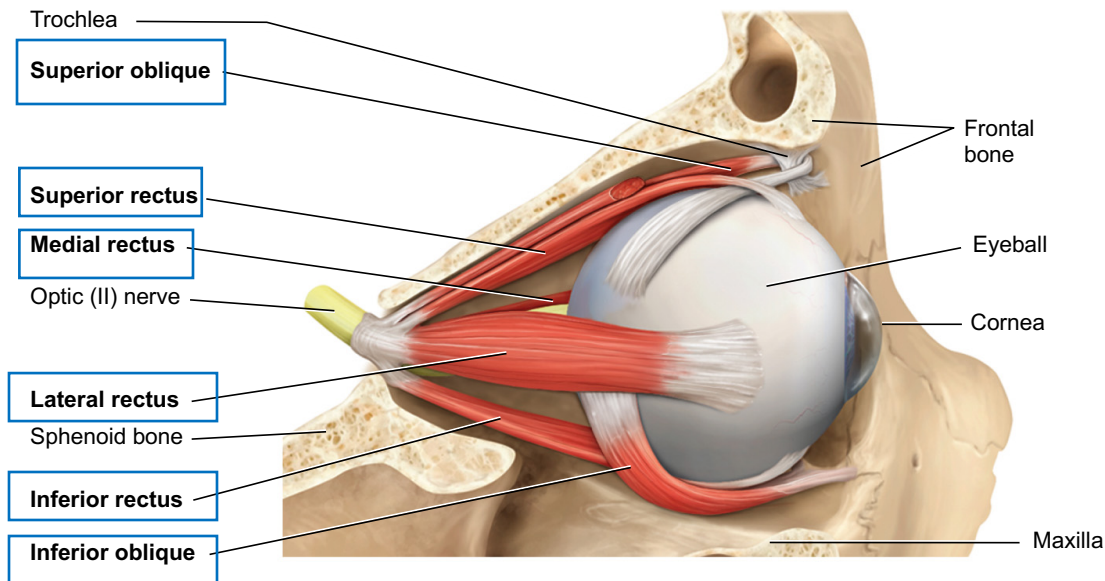
- Powerful closers: masseter, temporalis
- Presses cheeks against teeth and lips: Buccinator



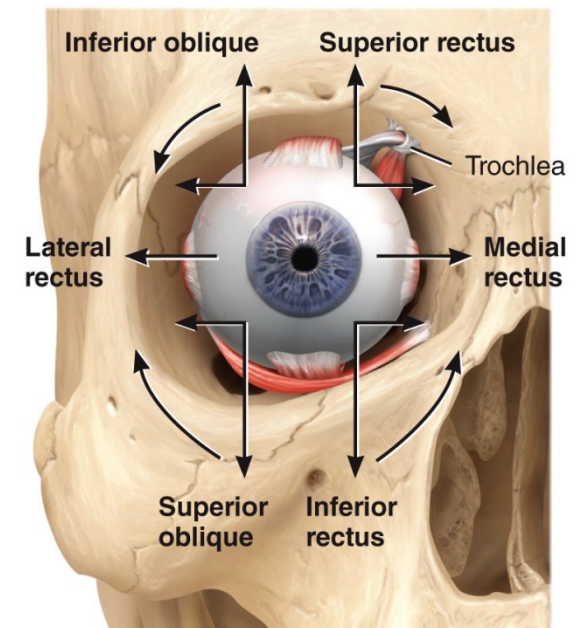
Mastication Lab Model



C. Head: Extrinsic Eye Muscles

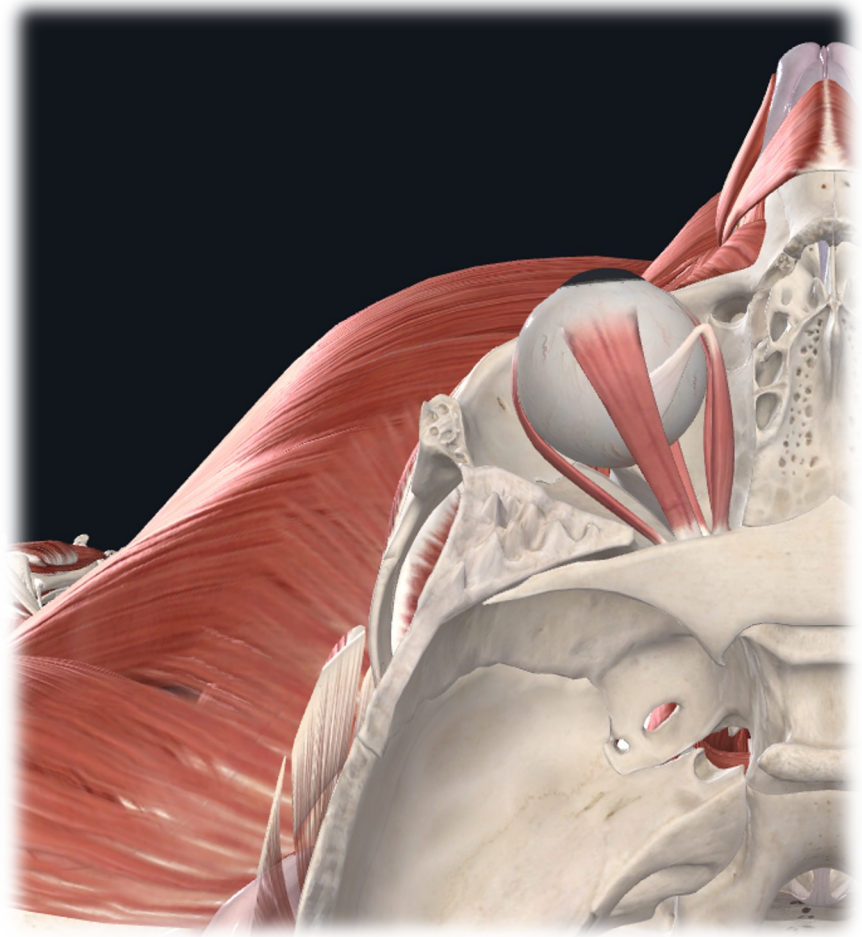
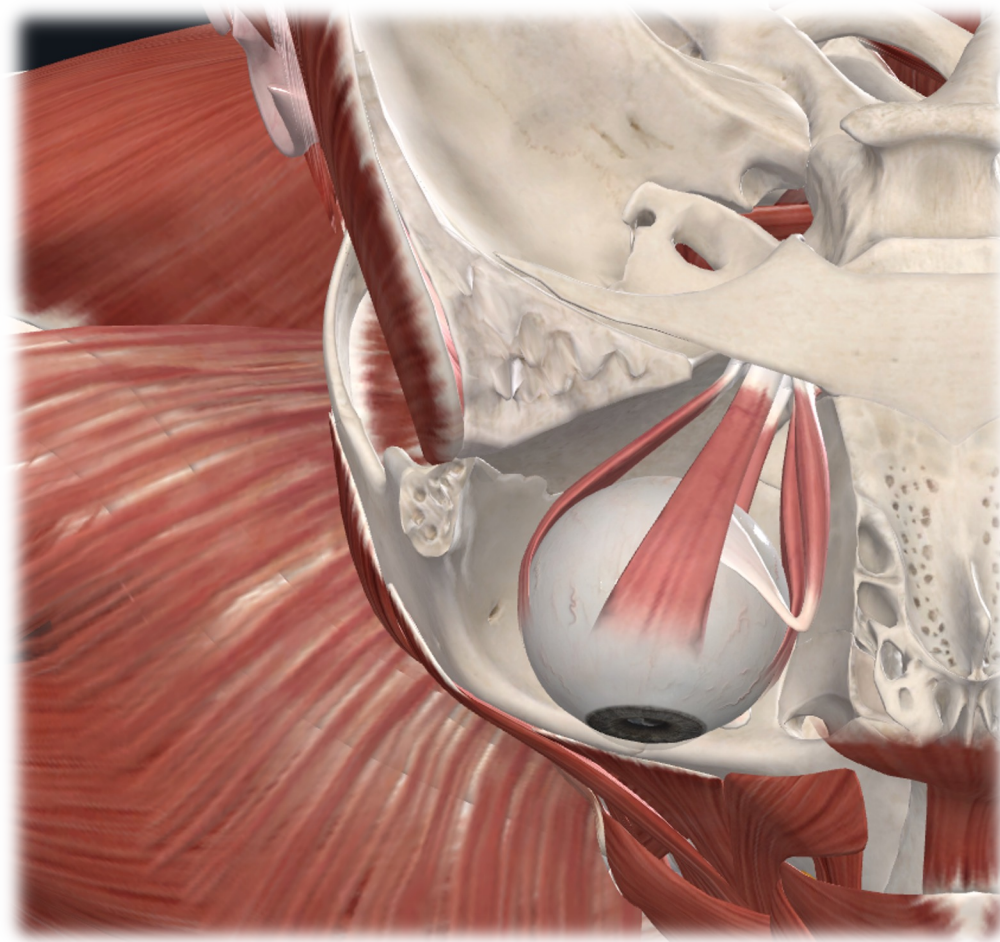


(a) Lateral view of right eyeball



(b) Movements of right eyeball in response to contraction of extrinsic muscles

Extrinsic Eye Muscles

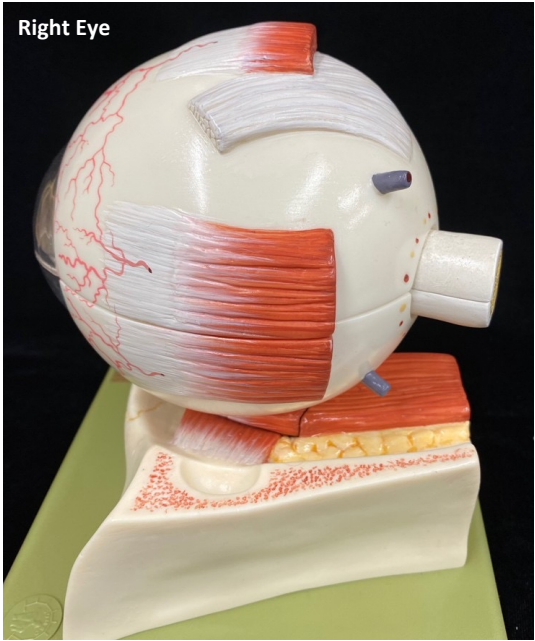


MEDIAL

POSTERIOR

SUPERIOR

Extrinsic Eye Muscles Lab Models



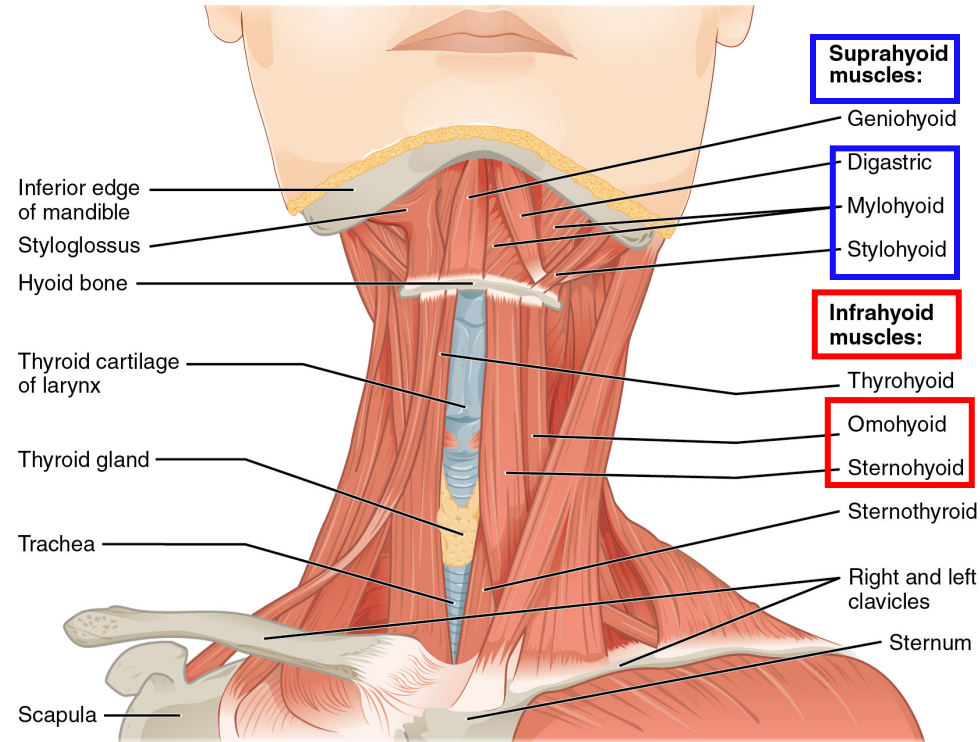
D. Neck: Muscles for Deglutition & Speech

a) Suprahyoid muscles

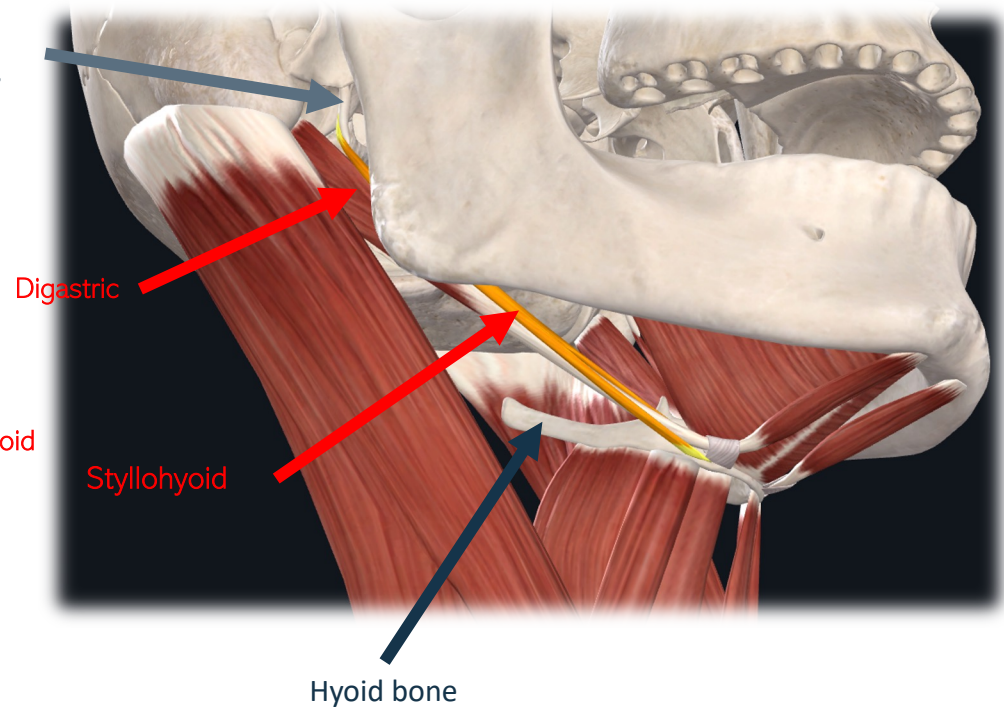
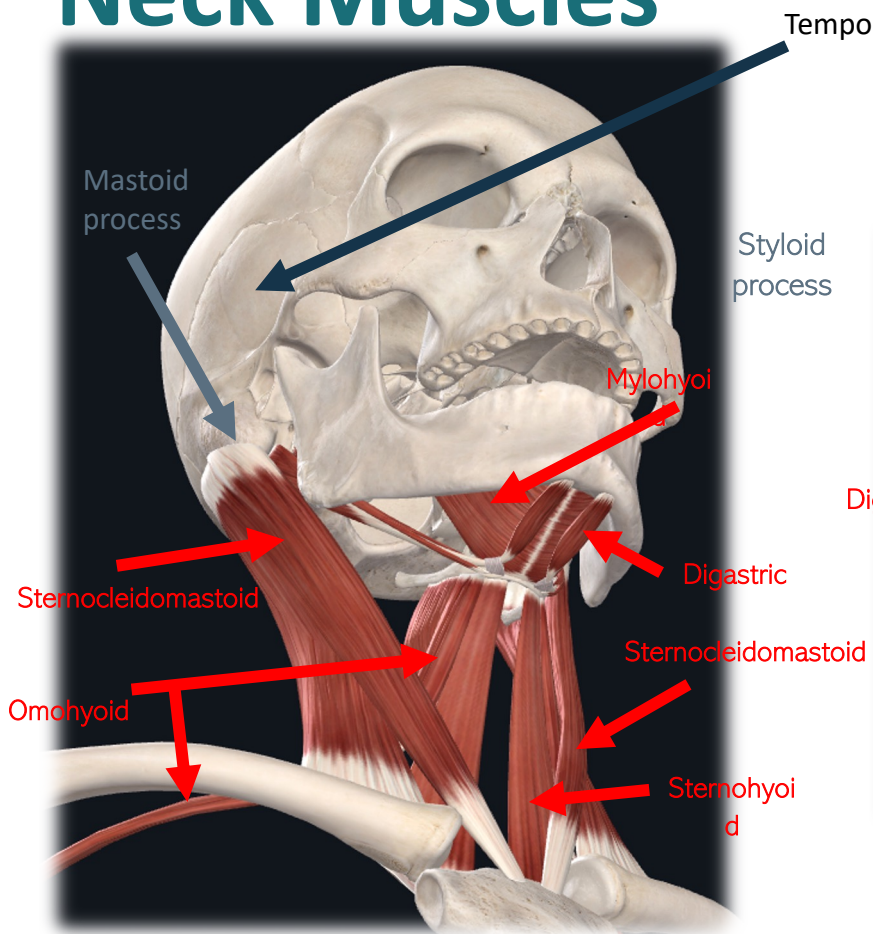
- **Digastric** - Elevate hyoid bone and larynx; depresses mandible
- **Stylohyoid** - Elevate and draws hyoid bone posteriorly
- **Mylohyoid** – elevates hyoid bone; helps elevate tongue during deglutition

b) Infrahyoid muscles

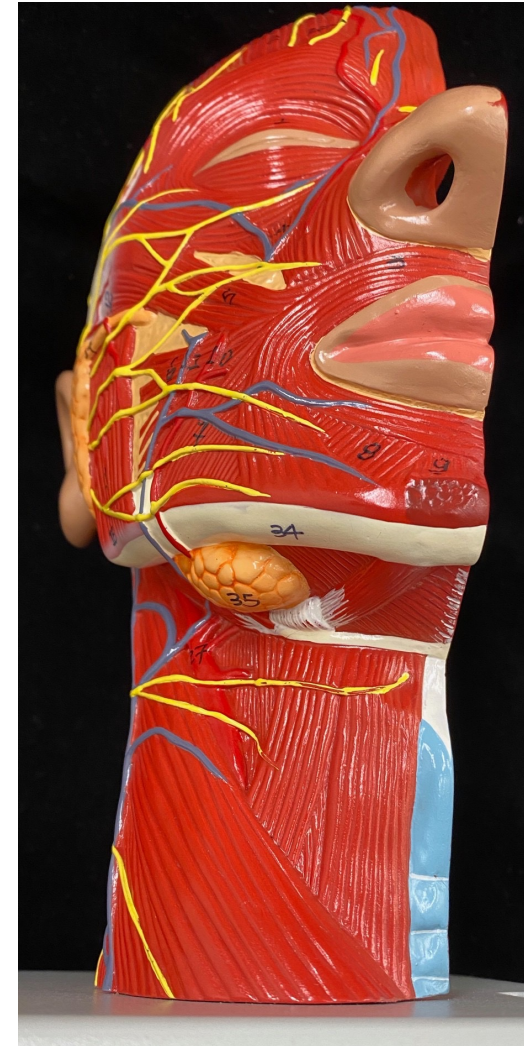
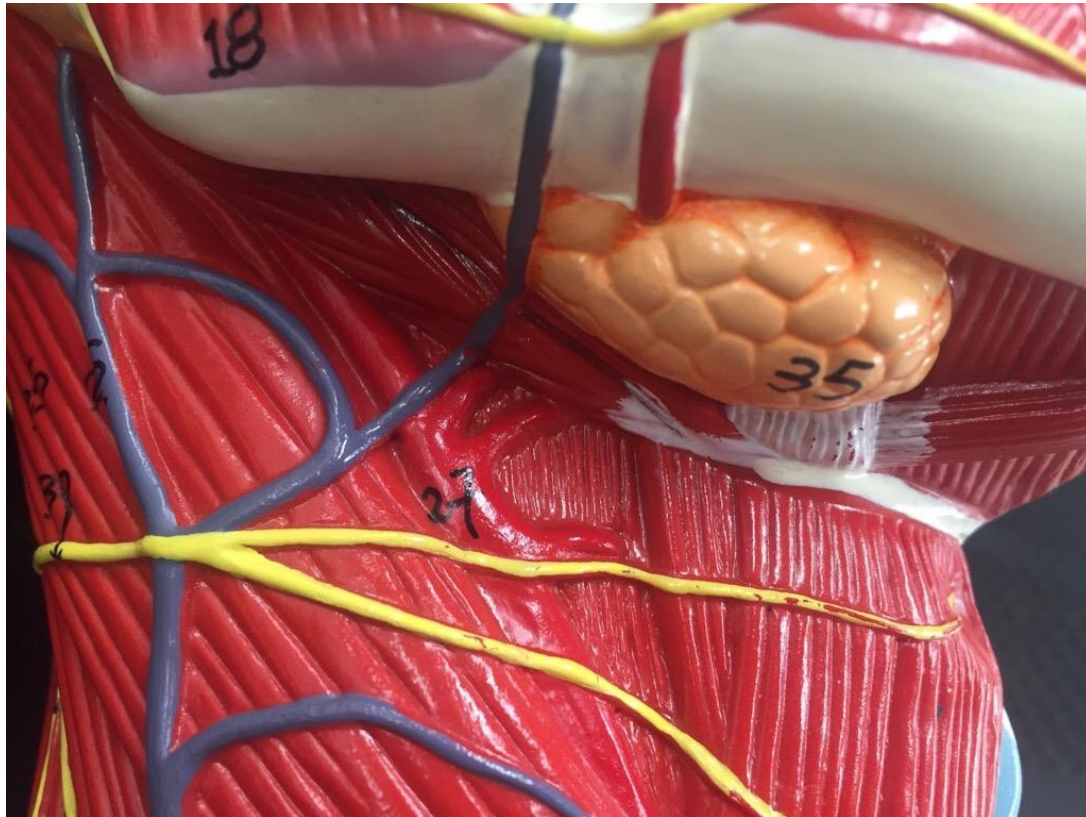
- **Omohyoid** – depress hyoid bone
- **Sternohyoid** – depresses hyoid bone and thyroid cartilage



Neck Muscles

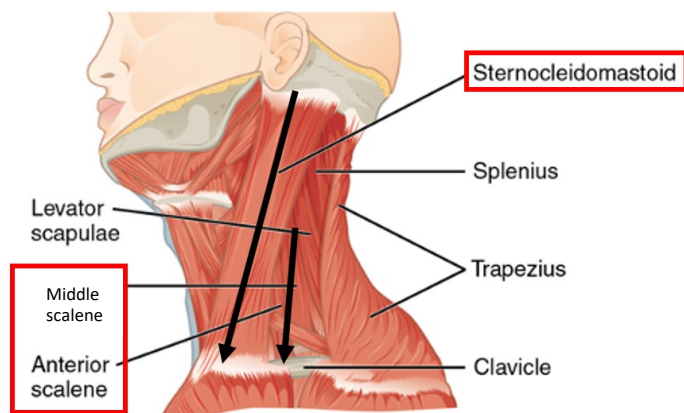


Neck Muscles Lab Models

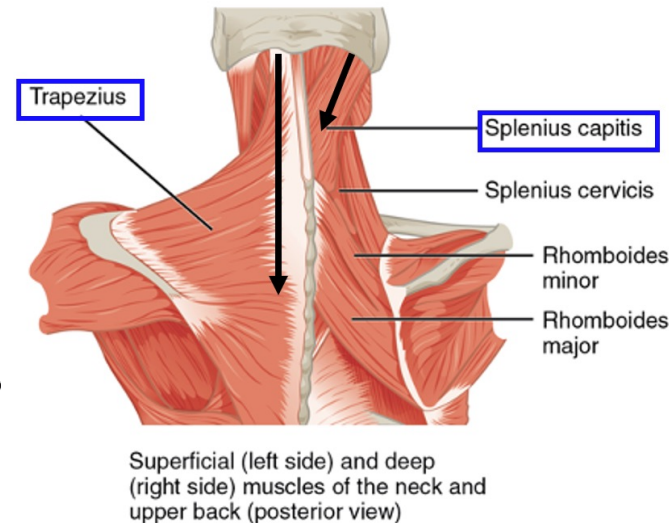
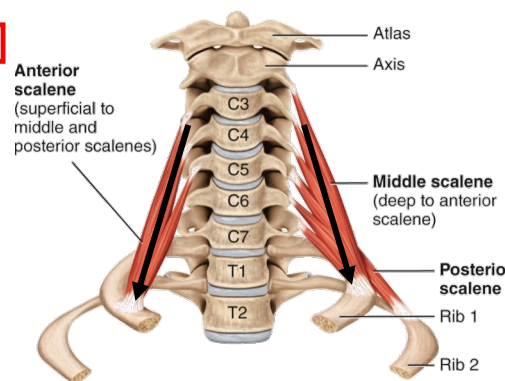


E) Neck: Muscles That Move Head

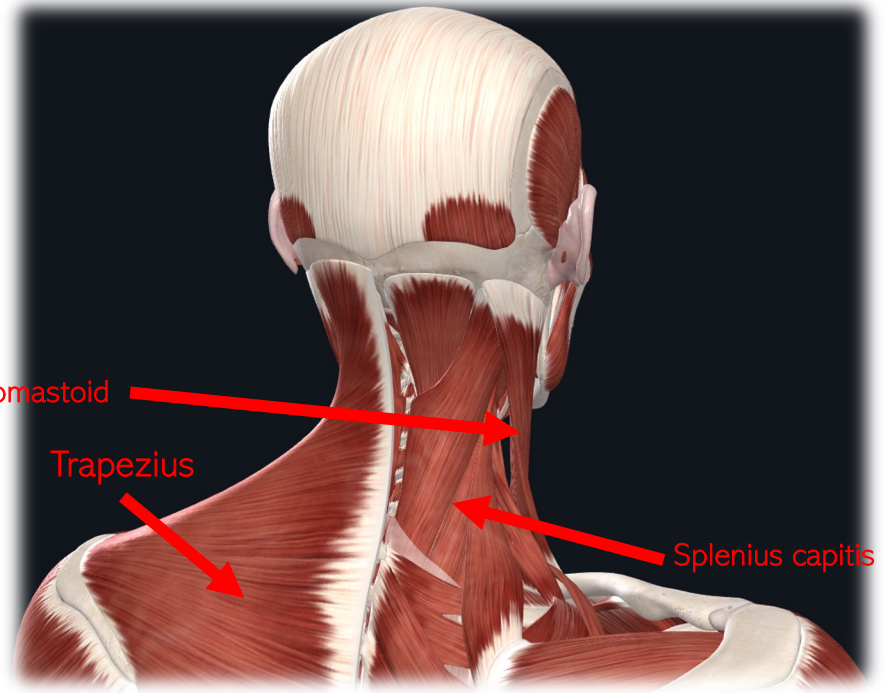
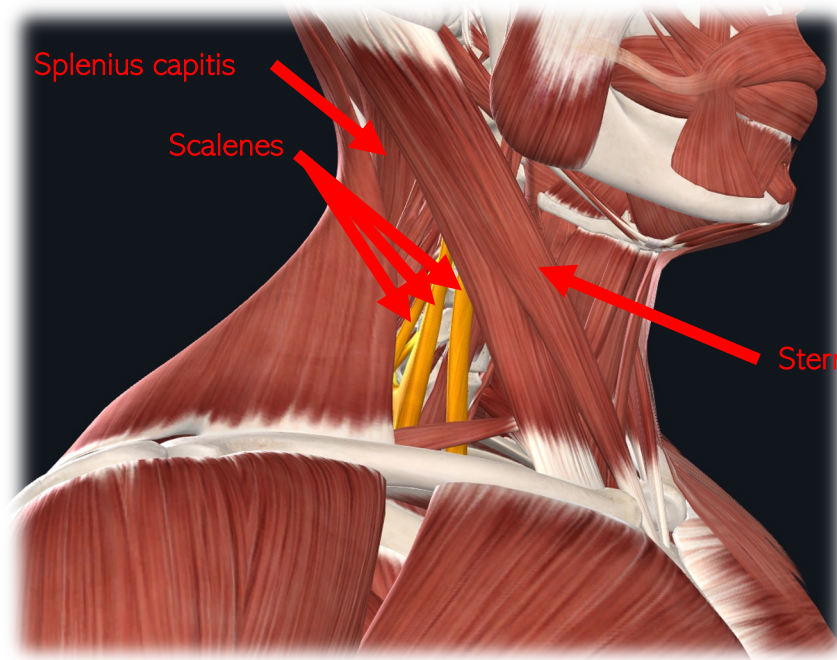
- Head attaches to vertebral column at atlanto-occipital joint
- a) **Lateral** – flex the neck
- b) **Posterior** – extend/hyperextend the neck



Muscles of the neck (left lateral view)



Neck Muscles



Neck Muscles Lab Models

