

Relevant Anatomy in Treating Benign Essential Blepharospasm

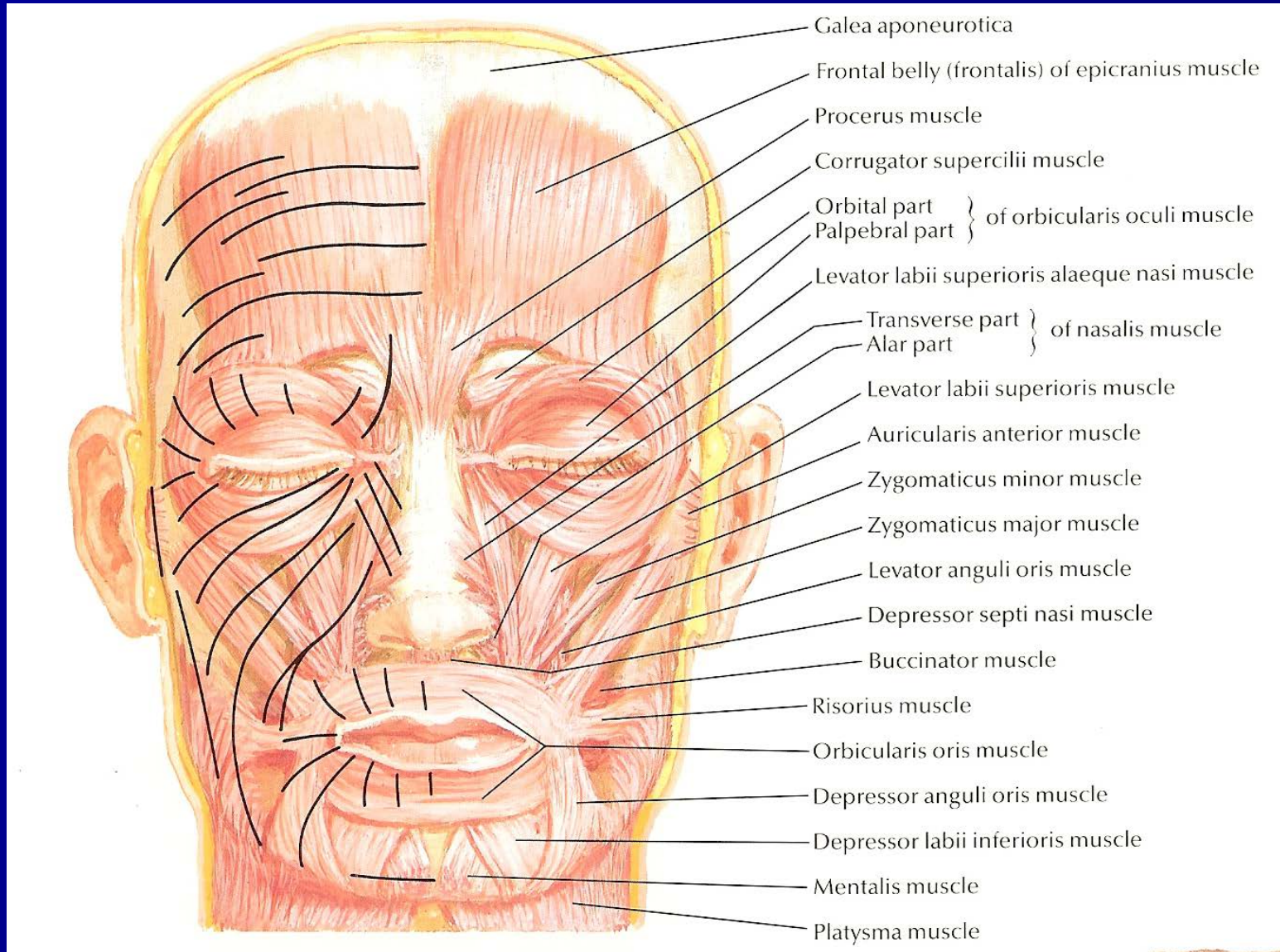
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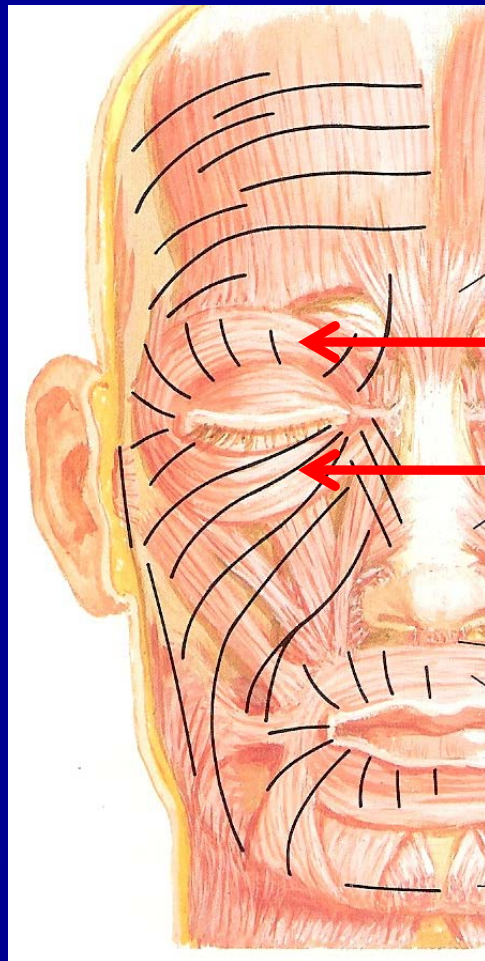
Goals for Today

- Understand location and function of facial muscles
- Appreciate the role of these muscles in facial expression
- Be better able to correlate anatomy with treatments for benign essential blepharospasm, hemifacial spasm, and Meige's syndrome.

Muscles of Facial Expression



Orbicularis Oculi Muscle

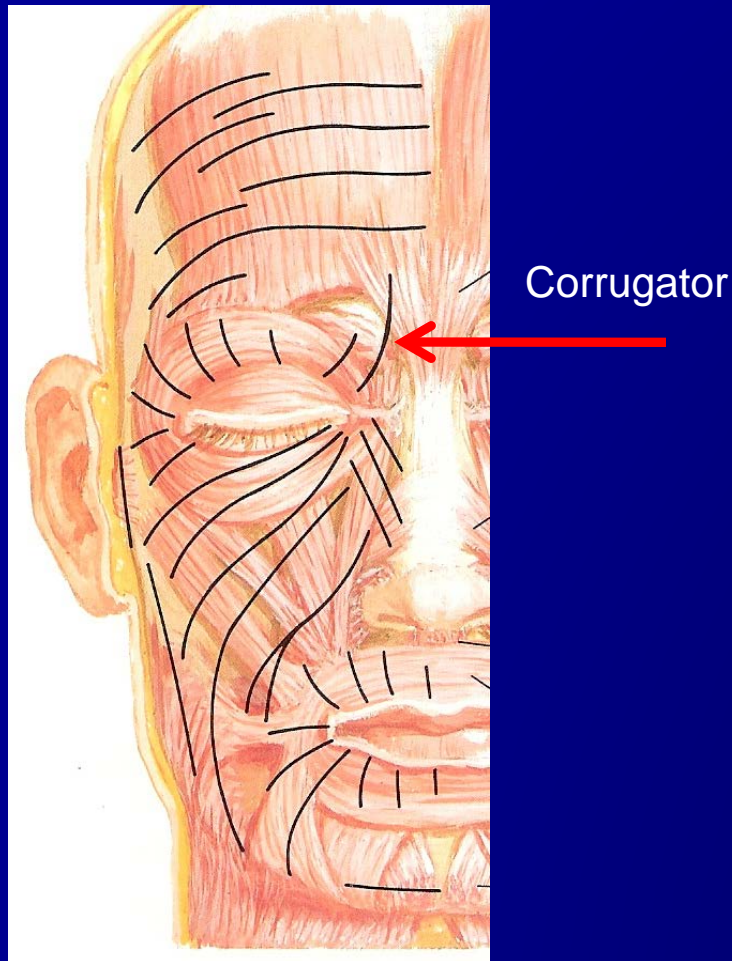


Orbicularis oculi

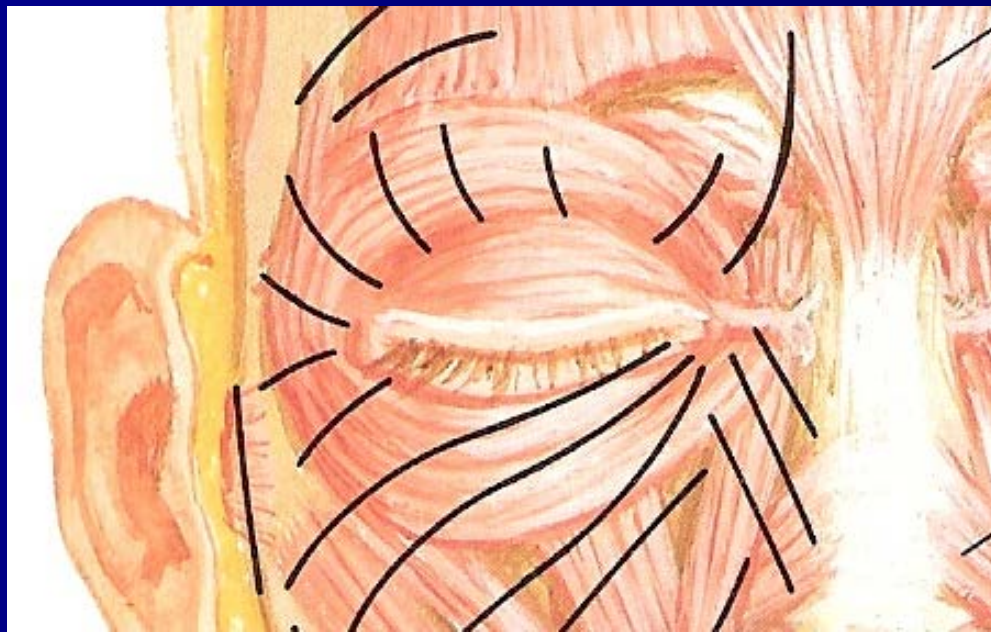
- Closes the eyelids
- Blinks
- Lowers the lateral aspect of the brow
- Immediately below the skin surface



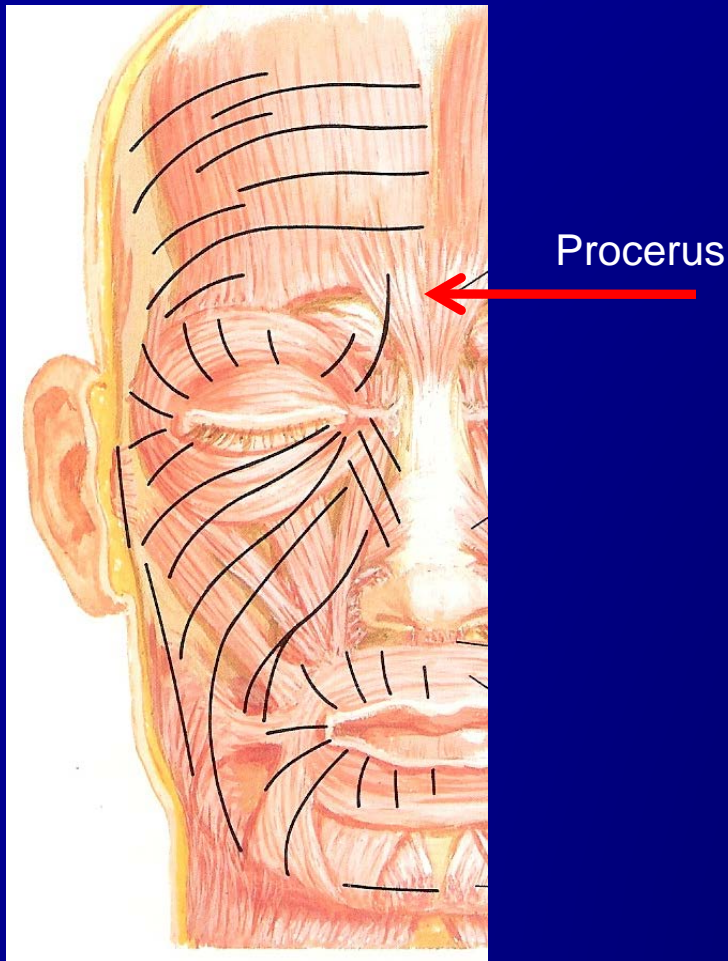
Corrugator Supercilii Muscle



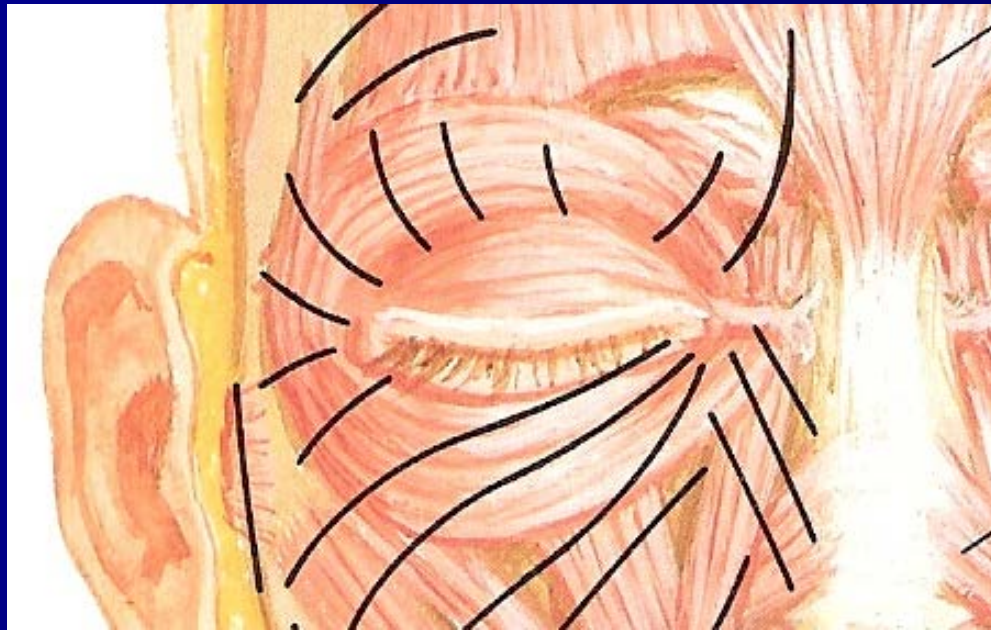
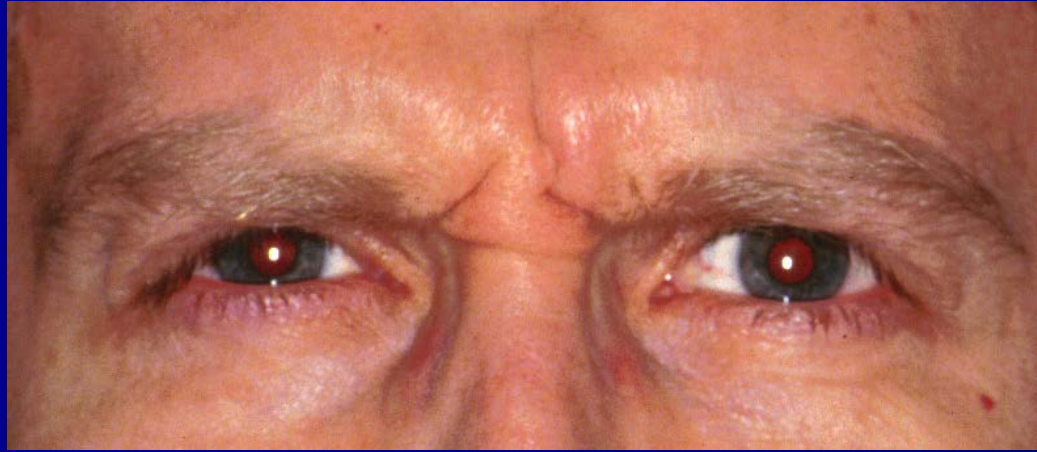
- Draws the eyebrow downward and medially
- Produces vertical wrinkles in the glabellar region
- Covered by thicker skin and subcutaneous tissue



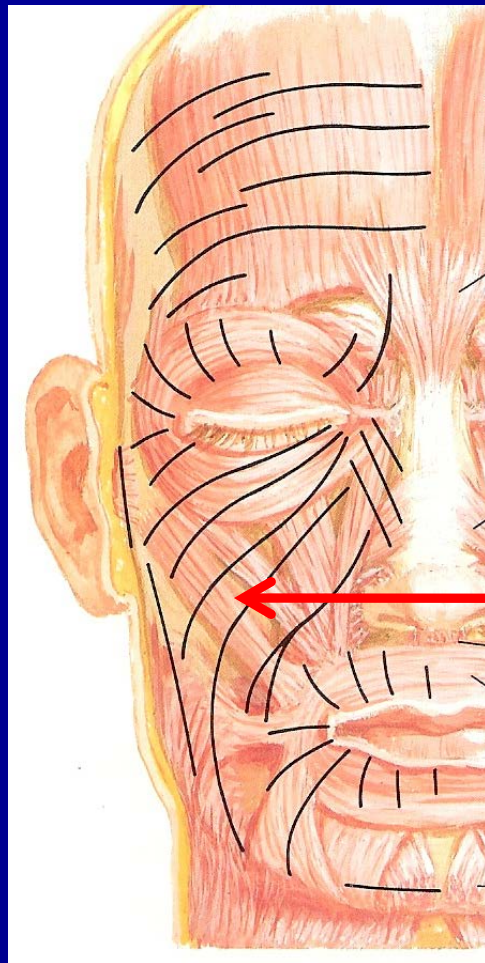
Procerus Muscle



- Pulls down the skin between the eyebrows
- Produces horizontal wrinkles over the bridge of the nose
- Covered by thicker skin and subcutaneous tissue

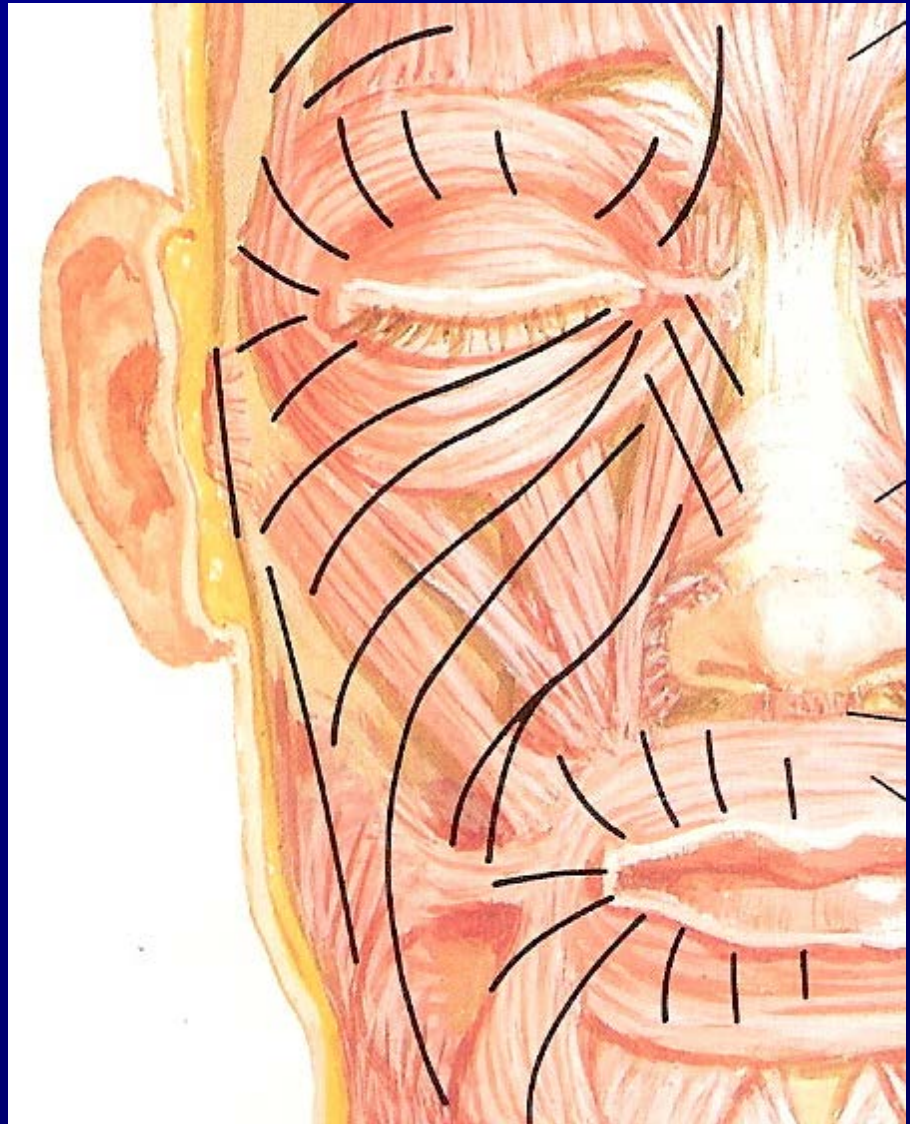


Zygomaticus Major Muscle

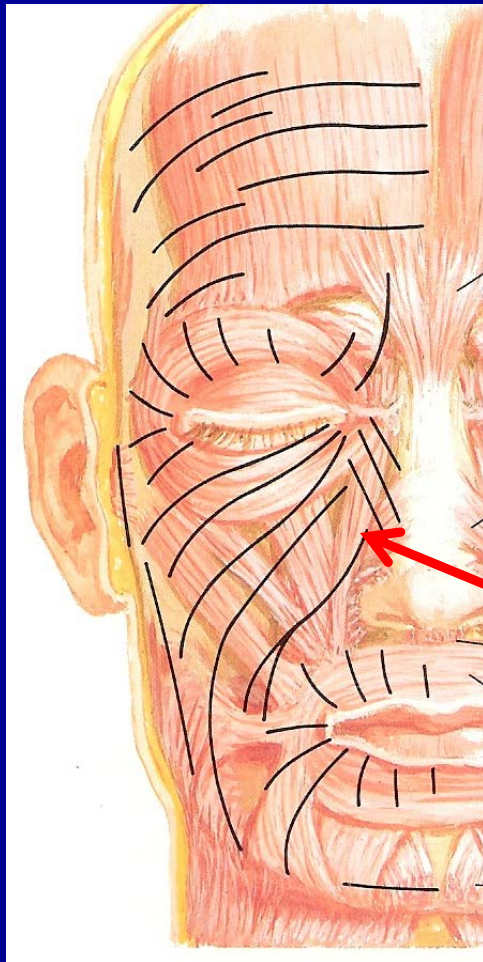


Zygomaticus Major

- Raises the angle of the mouth in a smile
- Creates dimples
- Covered by skin and cheek fat

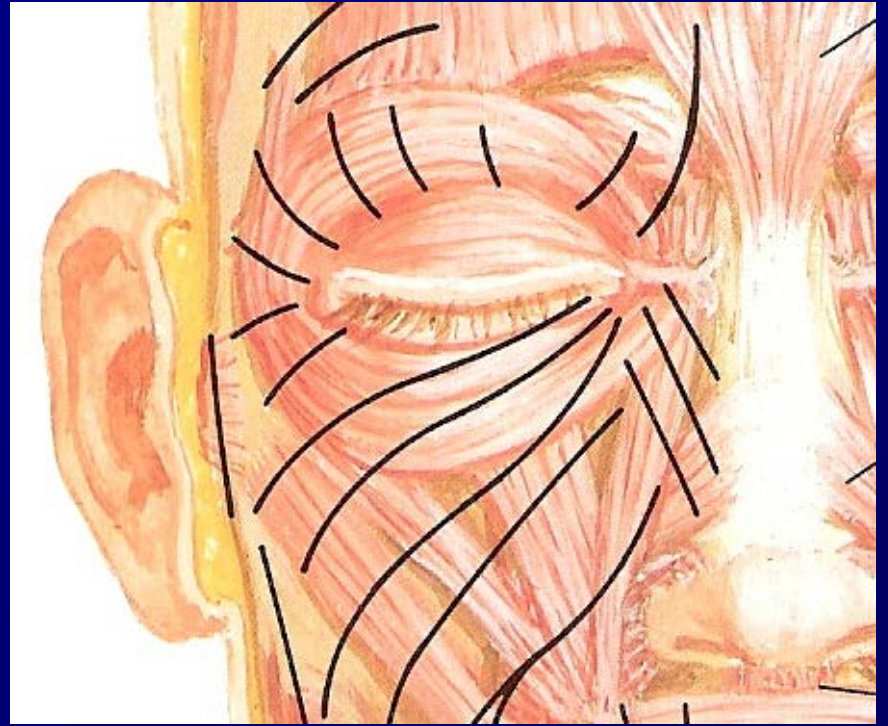


Levator Labii Superioris Alaeque Nasi Muscle

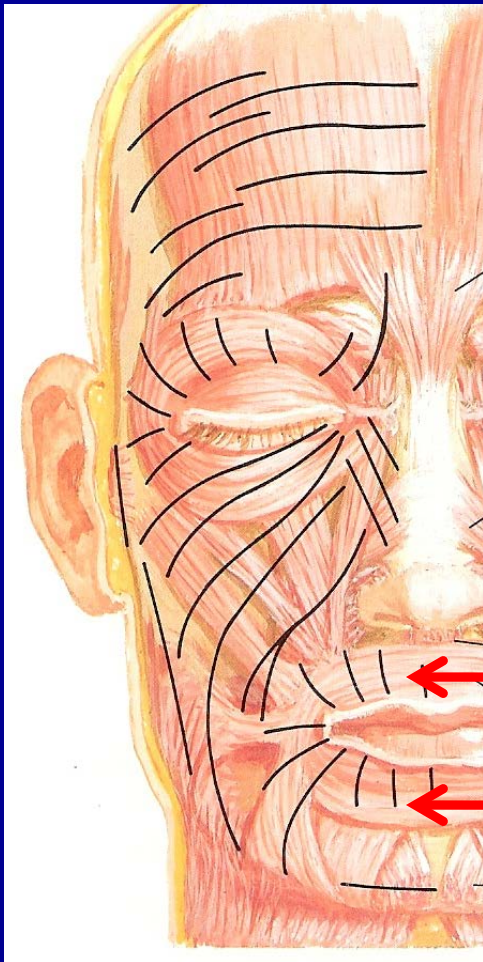


Levator labii superioris

- Lifts the upper lip
- Dilates the nostril
- Under the skin transitioning between the nose and cheek
- Close proximity to the angular artery



Orbicularis Oris Muscle

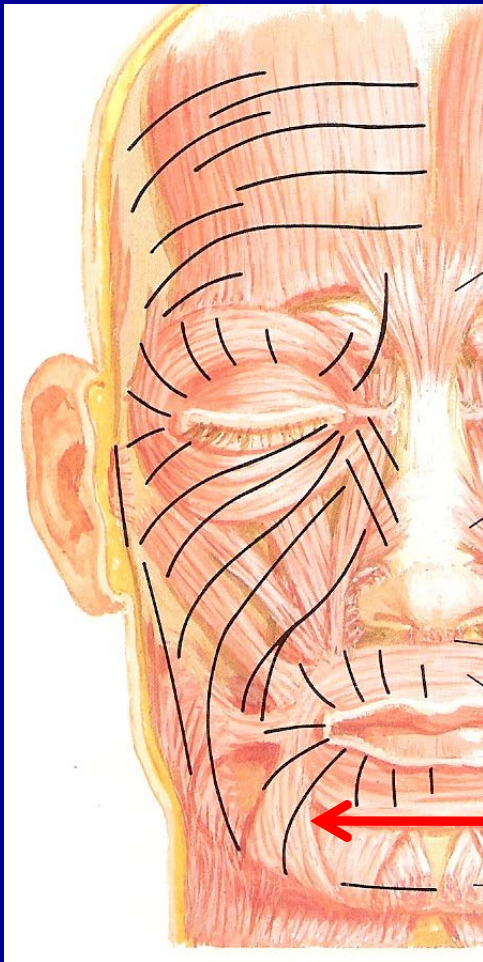


Orbicularis oris

- Closes the mouth
- Puckers the lips
- Needed for sucking on a straw or whistling
- Close to the surface

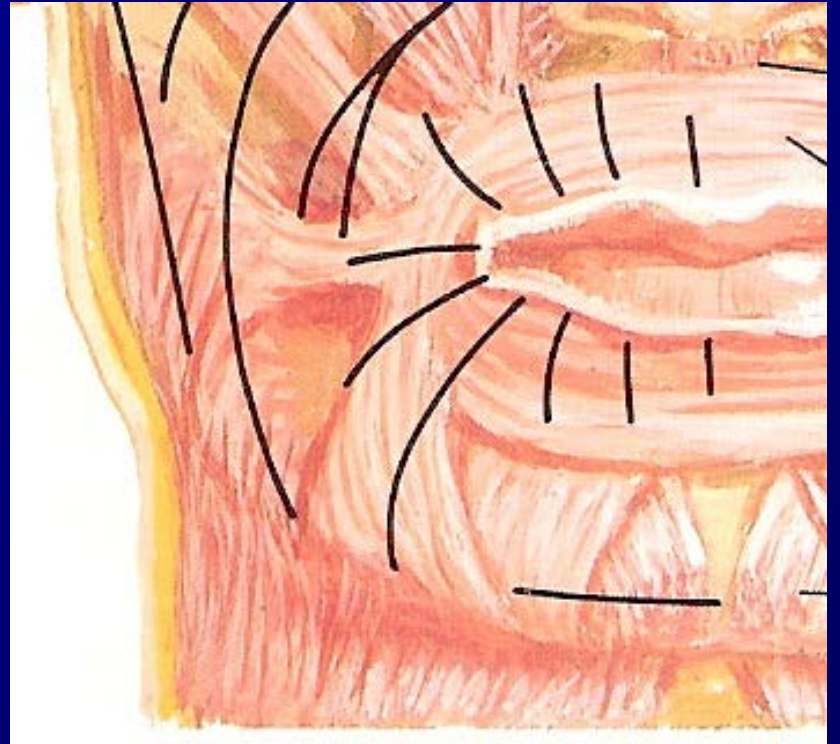


Depressor Anguli Oris Muscle

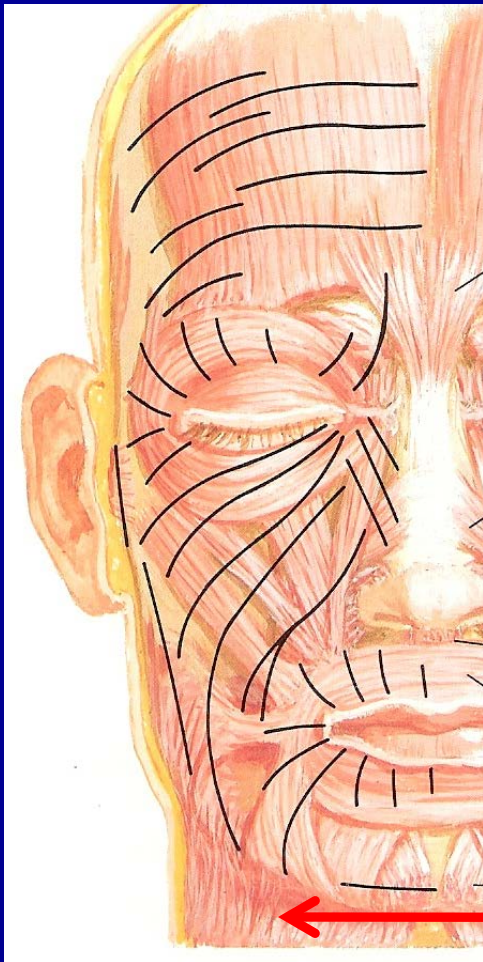


- Draws the corner of the mouth downward
- Deep to skin and subcutaneous fat

Depressor anguli oris



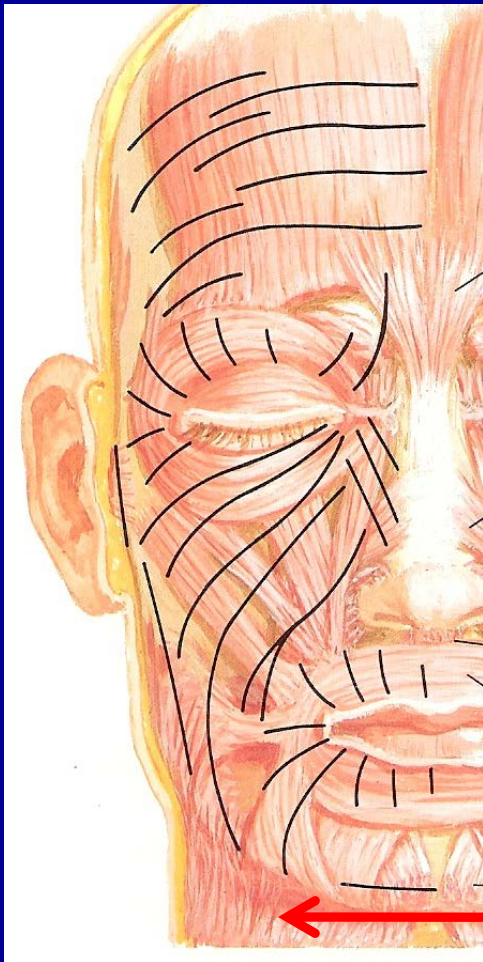
Platysma Muscle



Platysma

- Grimacing
- Drawing down the lower lip and angle of the mouth
- Seen as bands in the neck with aging

Platysma Muscle



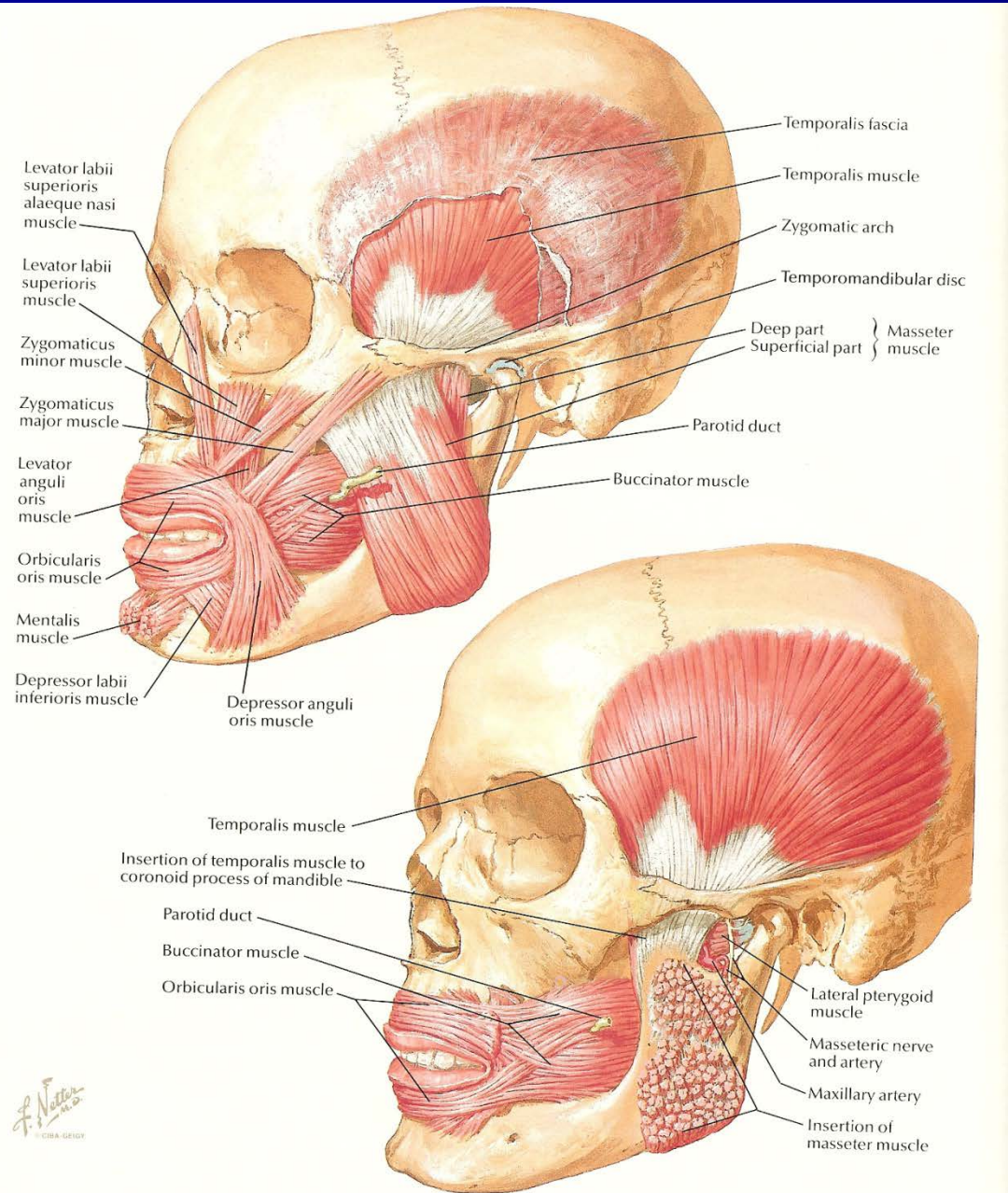
Platysma



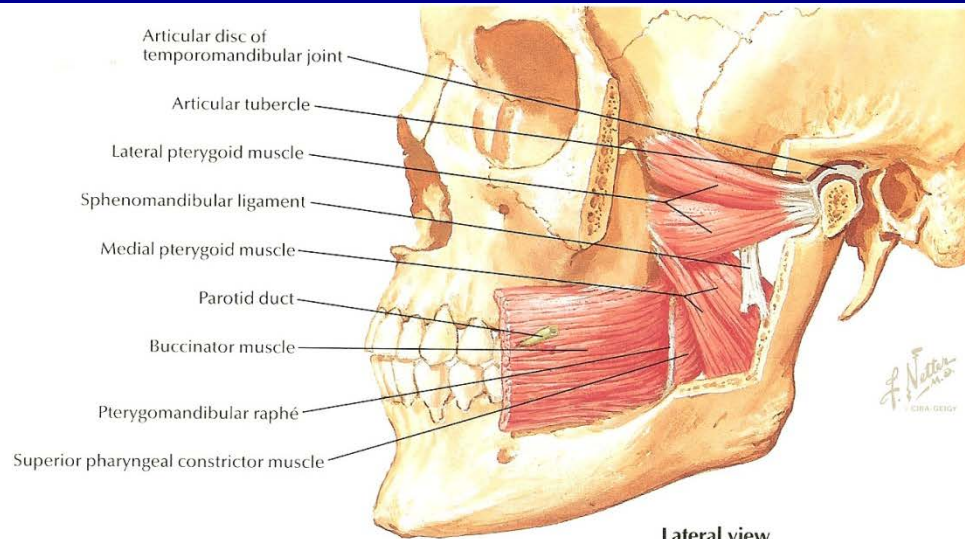
Meige's Syndrome

- Blepharospasm
 - Abnormal twitching of the muscles of facial expression, predominantly featuring the orbicularis oculi muscle
- Oromandibular dystonia
 - Focal dystonia that affects the head and neck, including the lower face, jaw, tongue and larynx
 - Involuntary contractions involve the muscles of mastication

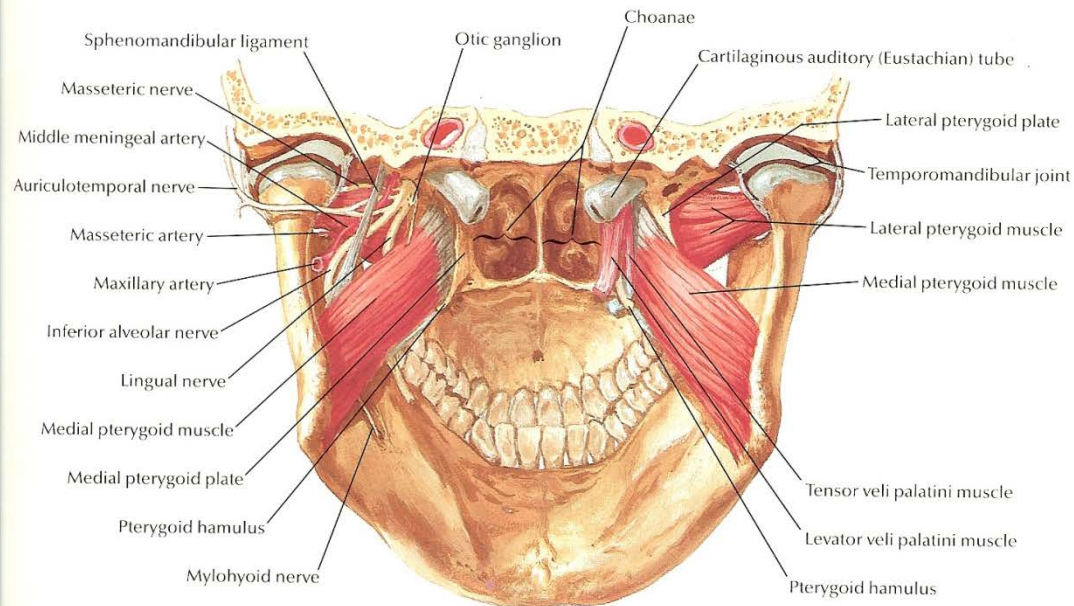
Muscles of Mastication



Muscles of Mastication



Lateral view



Posterior view

References

- Netter, F.H. (1995). *Atlas of Human Anatomy*. New Jersey: Ciba-Geigy Corporation.
 - *Anatomical drawings are all from Netter's book.*