



Head & Neck Anatomy

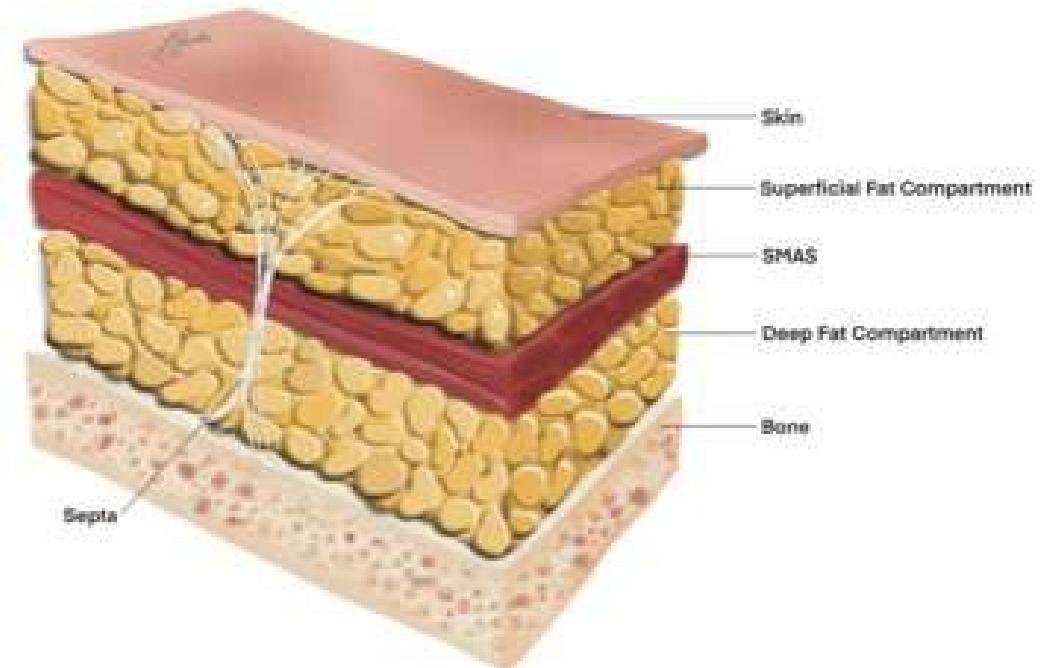
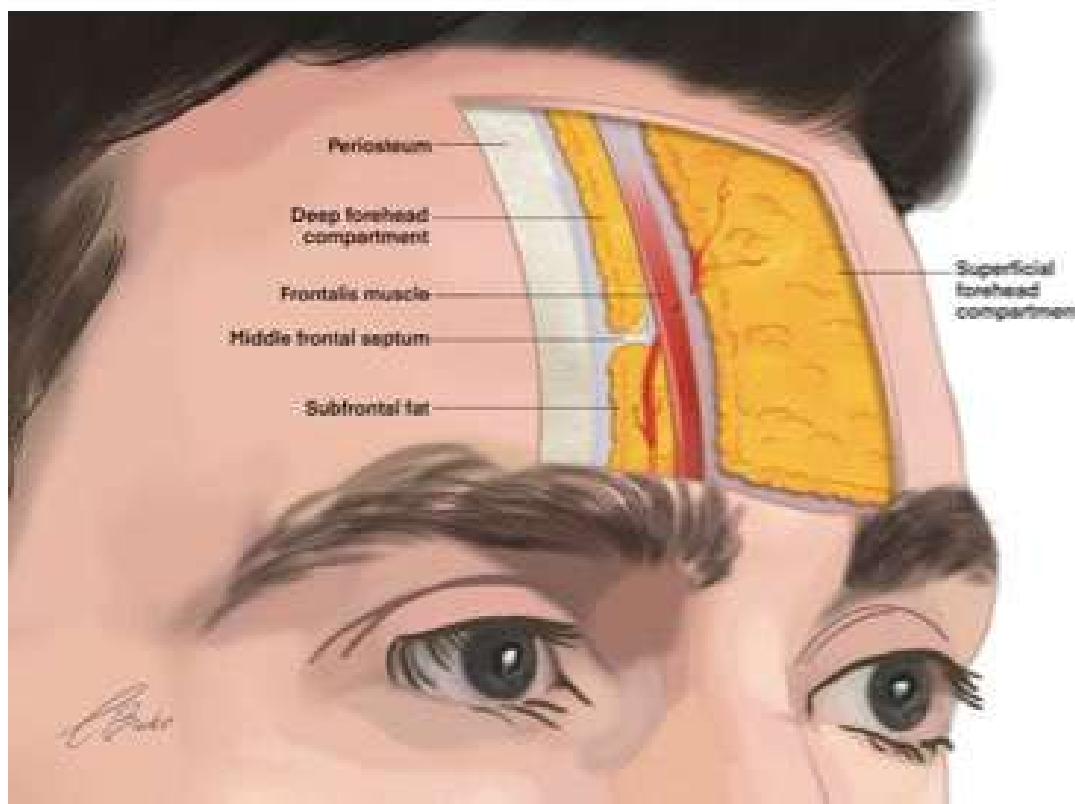
Face

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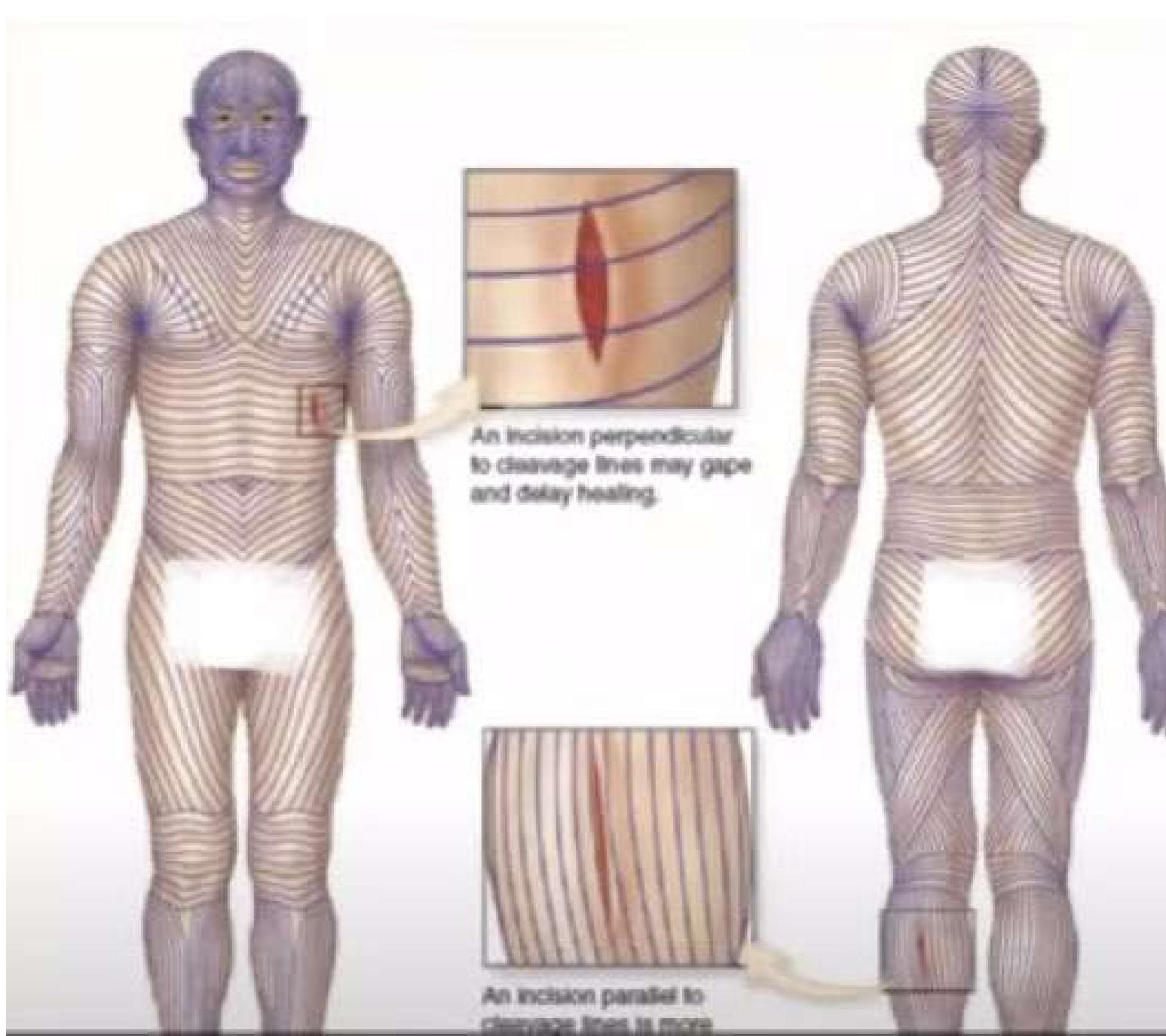
Skin of the Face

Characteristics: Thin, highly vascular, rich in glands.

Clinical: Wounds bleed profusely but heal quickly due to the excellent blood supply.

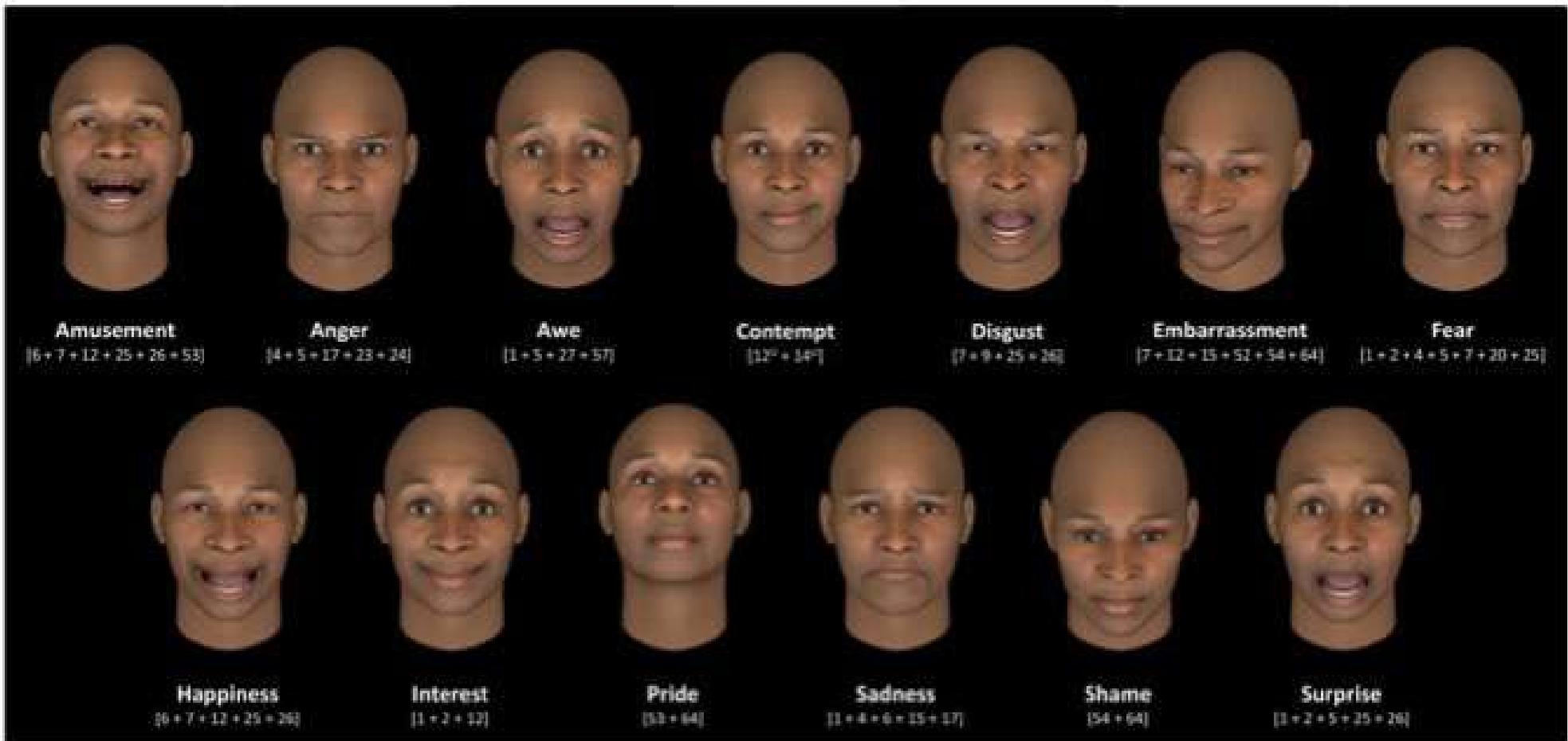


Incisions follow **Langer's lines** for minimal scarring.



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Facial expressions



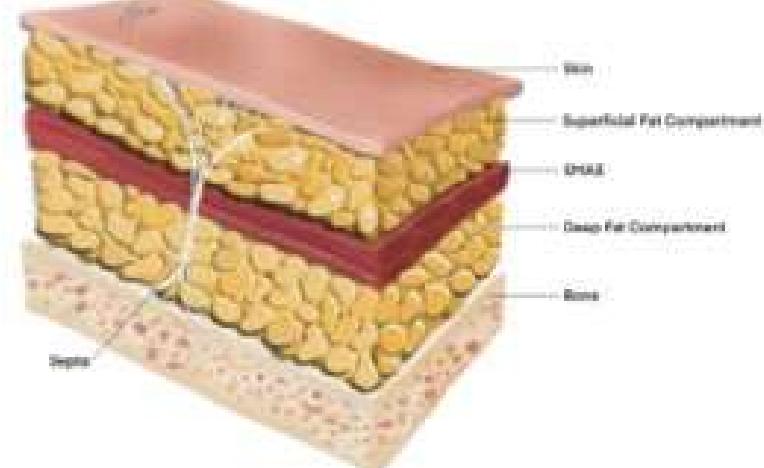
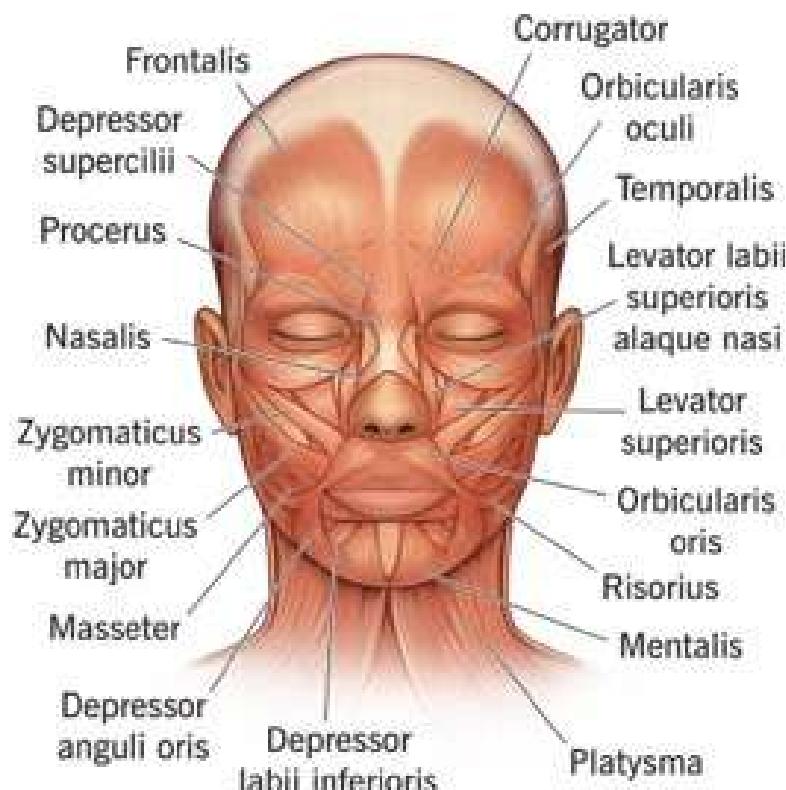
Muscles of Facial Expression

Unique Feature: Insert directly into the skin (no deep fascia).

Function: Control facial apertures and convey emotion.

Innervation: All muscles are supplied by the **Facial Nerve** (CN VII).

Example: Orbicularis Oculi (closes eye), Zygomaticus Major (smile), Buccinator (presses cheek to teeth).



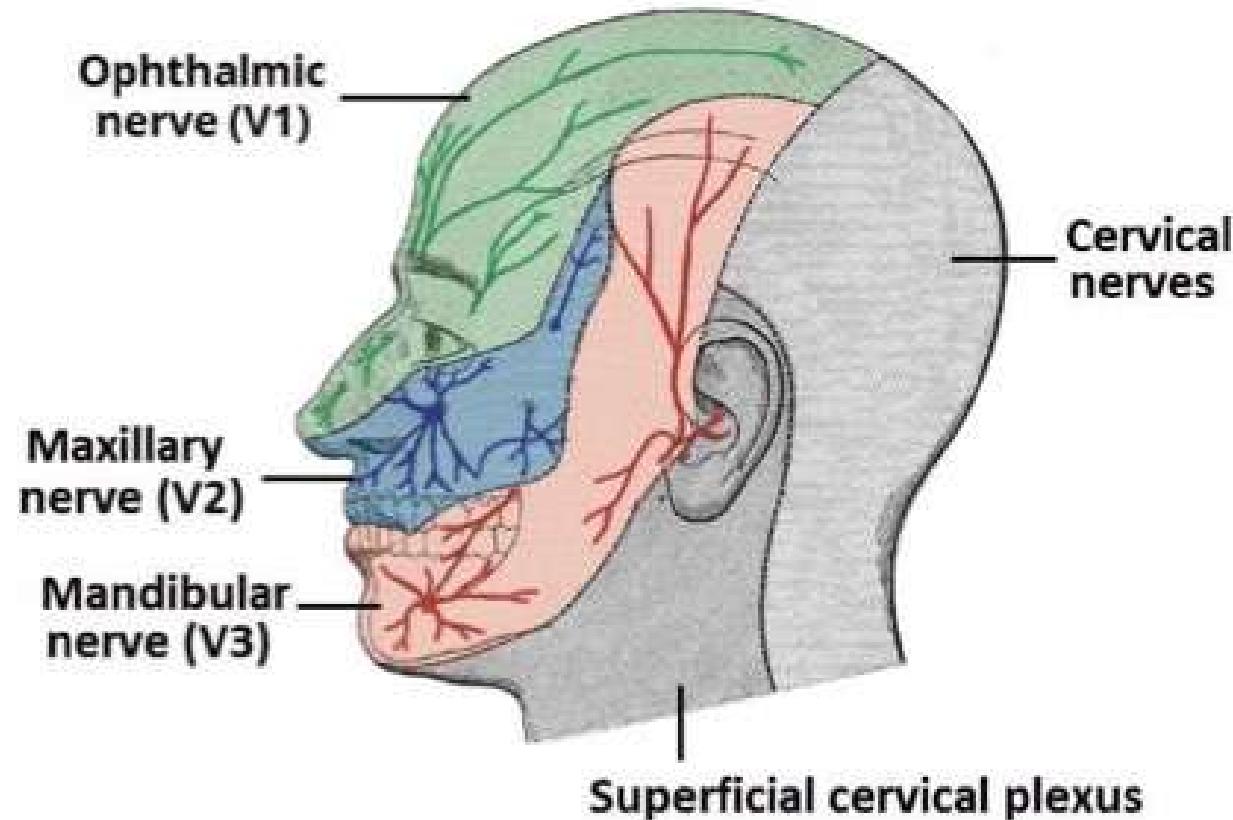
Sensory Nerves

Innervation: General sensation is supplied by the three divisions of the Trigeminal Nerve (CN V).

Ophthalmic (V1): Forehead, upper eyelid.

Maxillary (V2): Cheek, lower eyelid, upper lip.

Mandibular (V3): Lower lip, chin, temple.

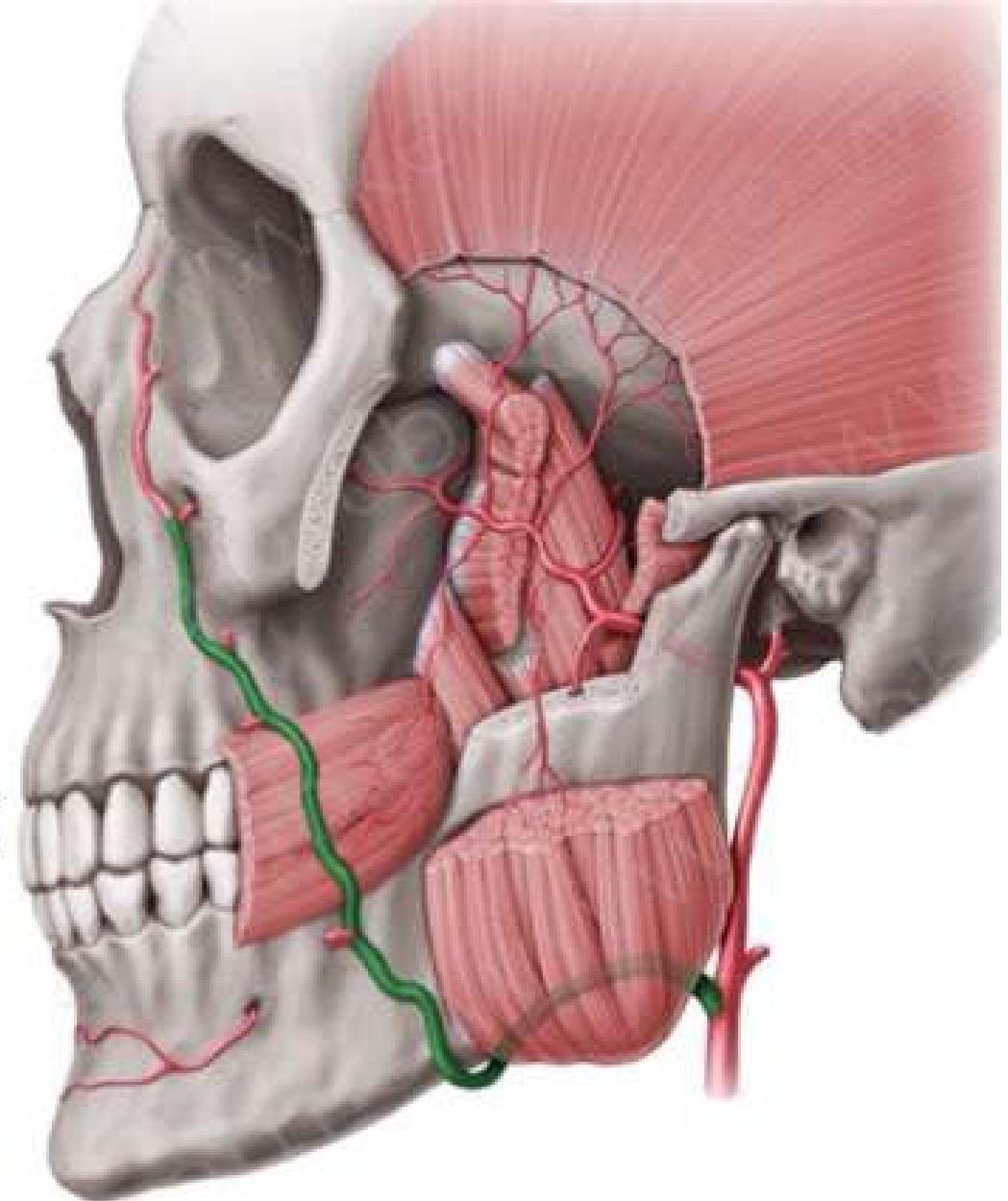
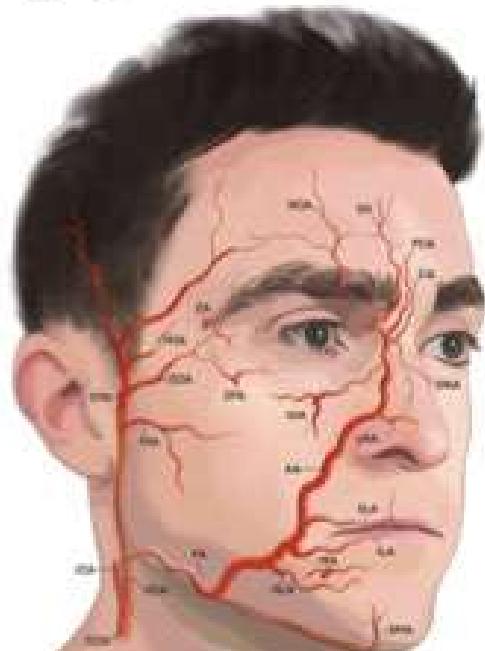


Arterial Supply

Main Artery: Facial Artery
(branch of External Carotid Artery).

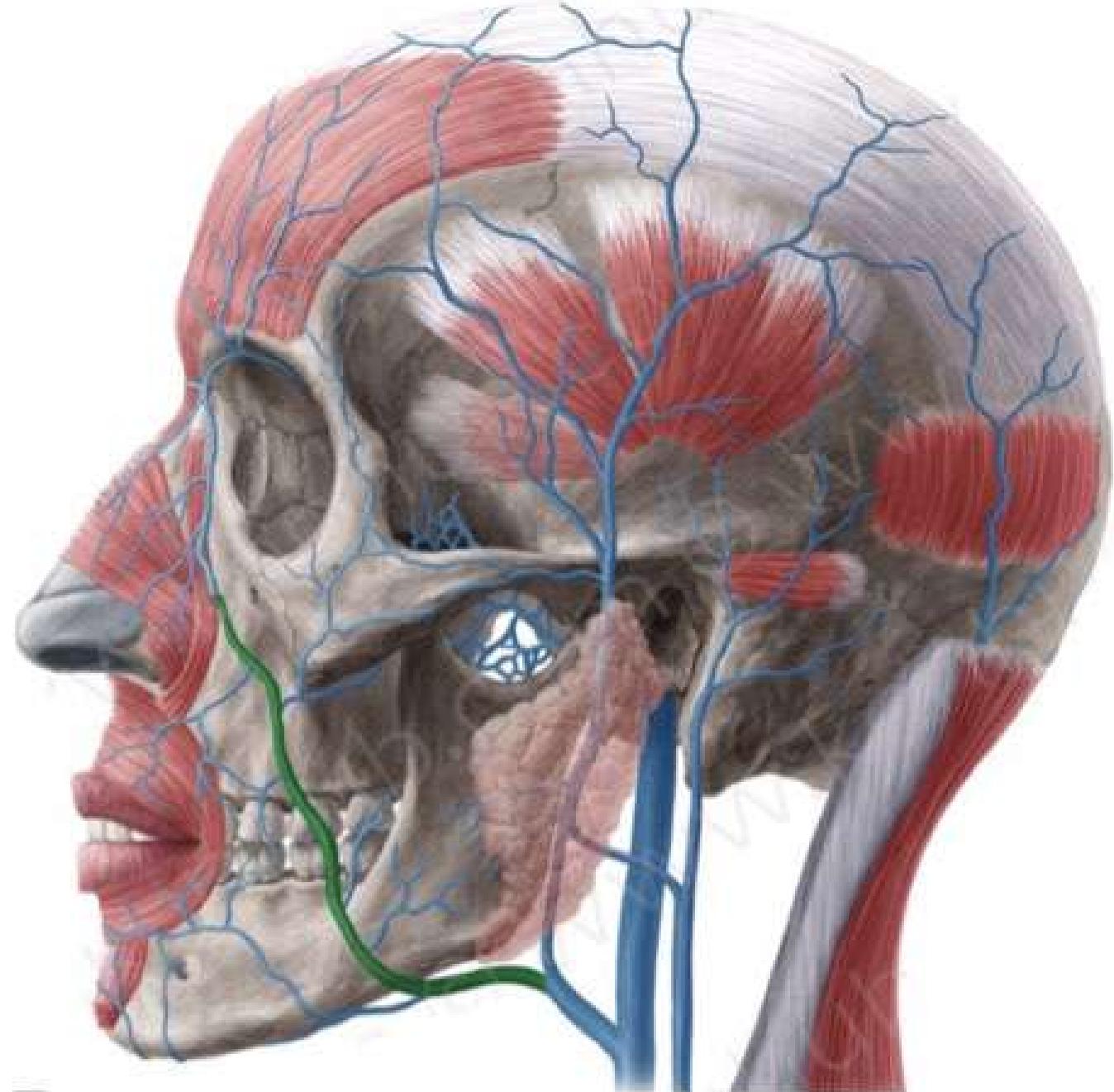
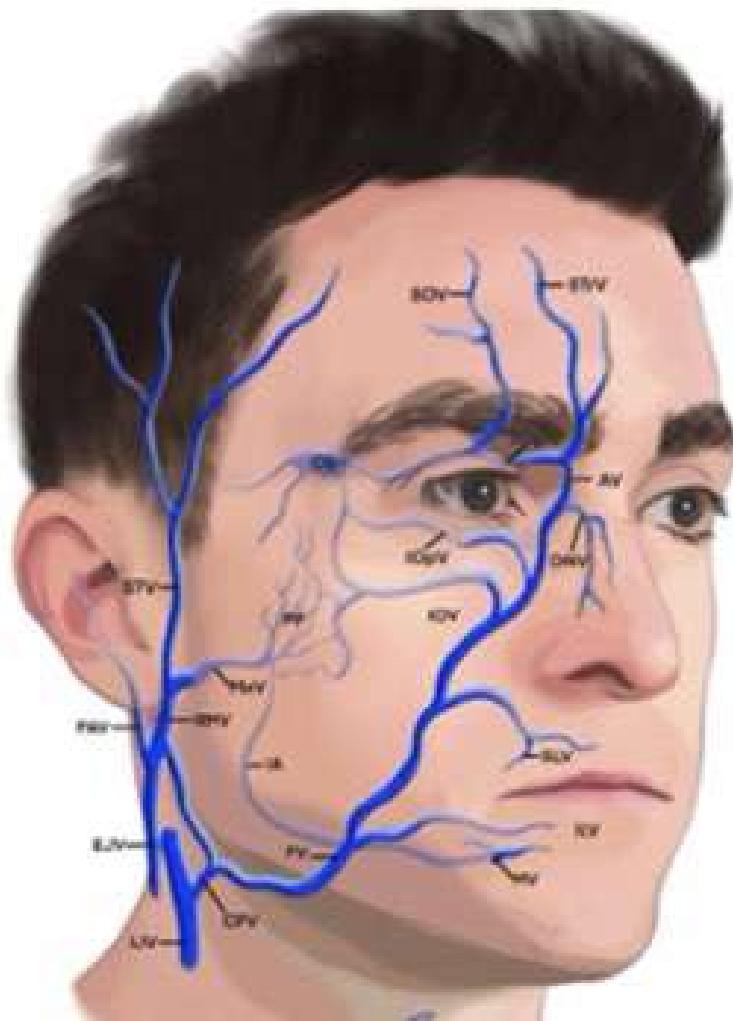
Course: Crosses the mandible, runs tortuously to the medial corner of the eye.

Terminal: Ends as the Angular Artery, anastomosing with the Ophthalmic Artery (from Internal Carotid).



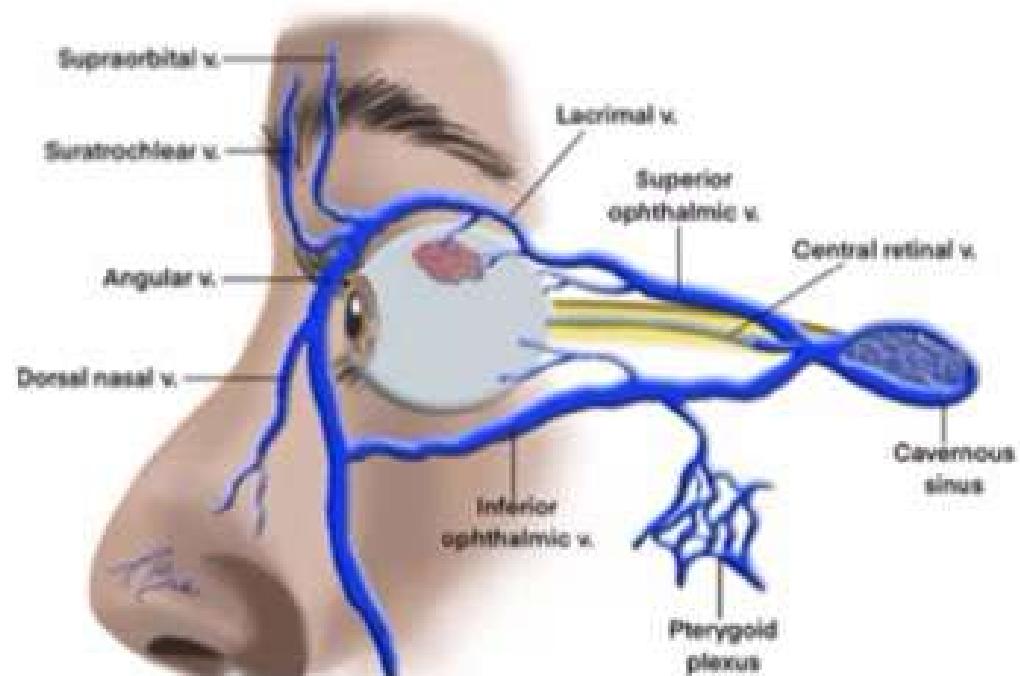
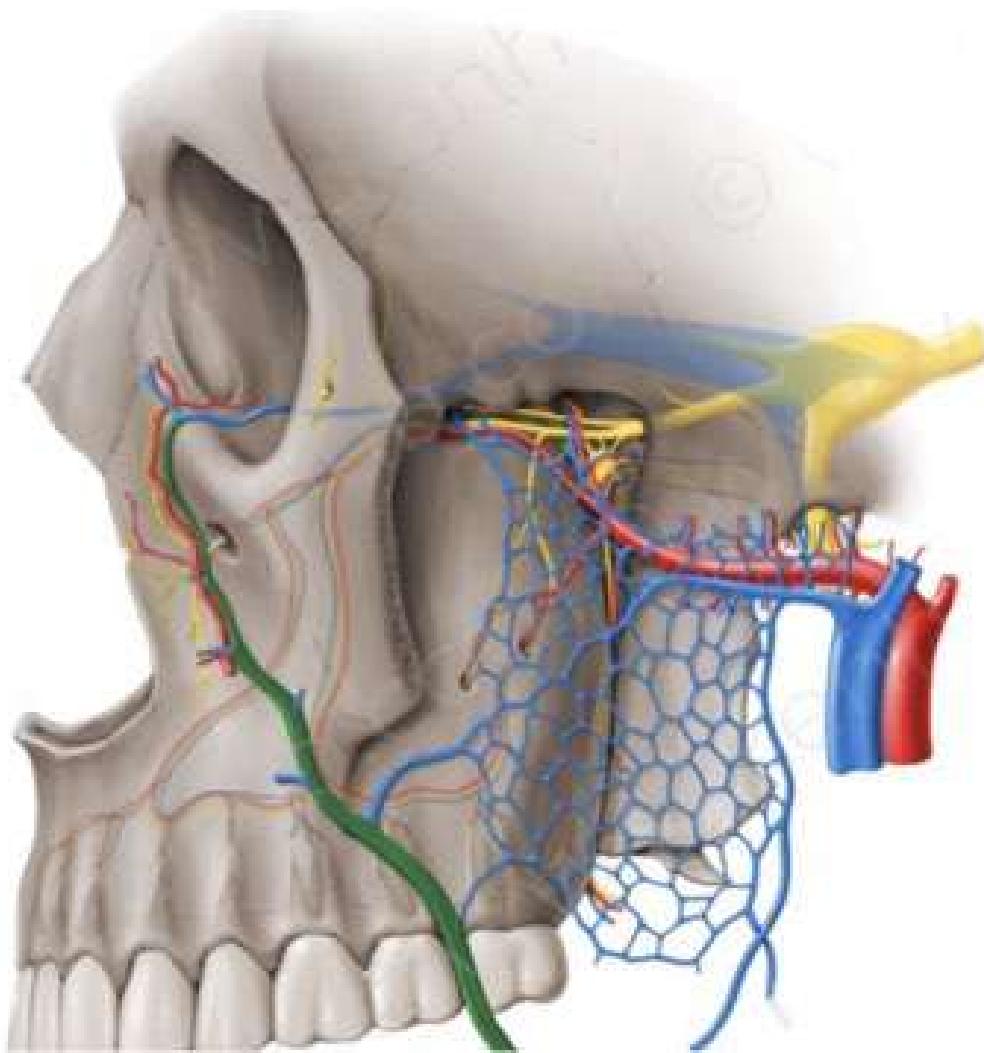
Venous Drainage

* **Main Vein:** Facial Vein, drains into the Internal Jugular Vein (IJV).



Clinical Significance: Danger Triangle of the Face (bridge of nose to corners of mouth).

Veins here connect to the Cavernous Sinus (via the Ophthalmic Vein). Infections can spread cranially, potentially causing **Cavernous Sinus Thrombosis.**



Lymphatic Drainage

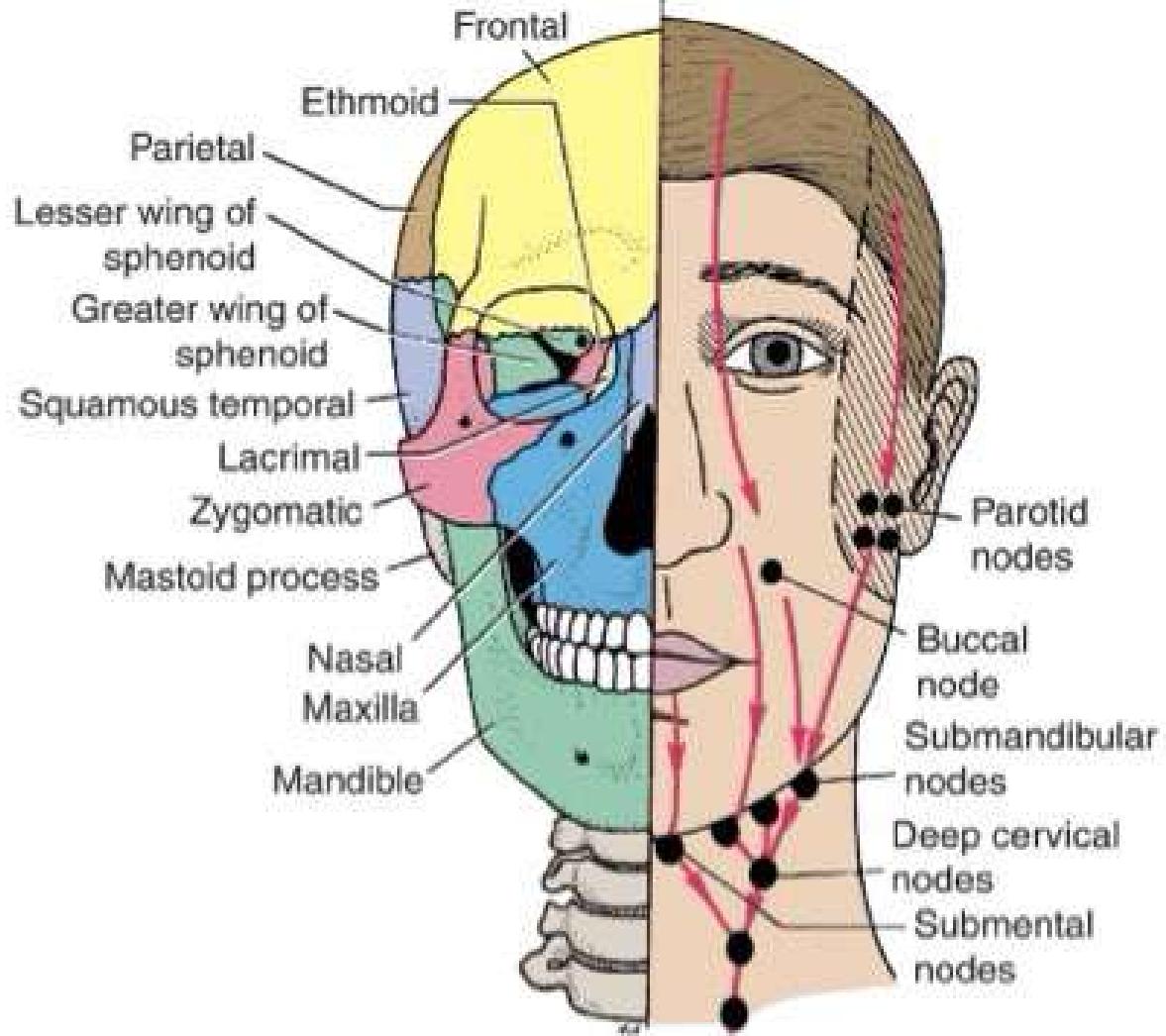
Drainage of the face goes to nodes at the head/neck border:

Submental Nodes: Chin, center of lower lip.

Submandibular Nodes: Upper lip, most of the cheek/nose.

Pre-Auricular (Parotid) Nodes: Lateral eyelids, temple.

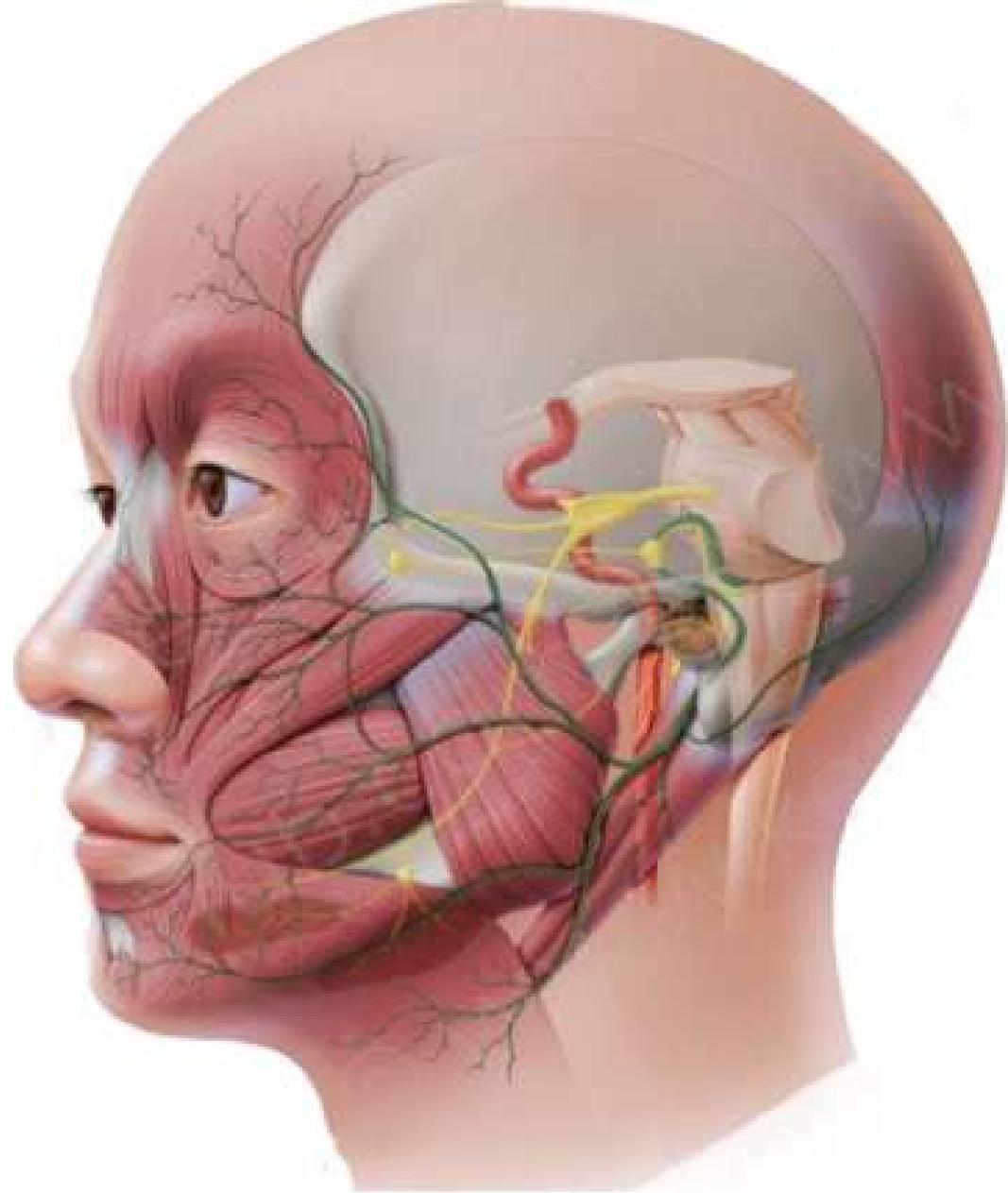
Final Destination: All drain into the Deep Cervical Nodes



Facial Nerve (CN VII)

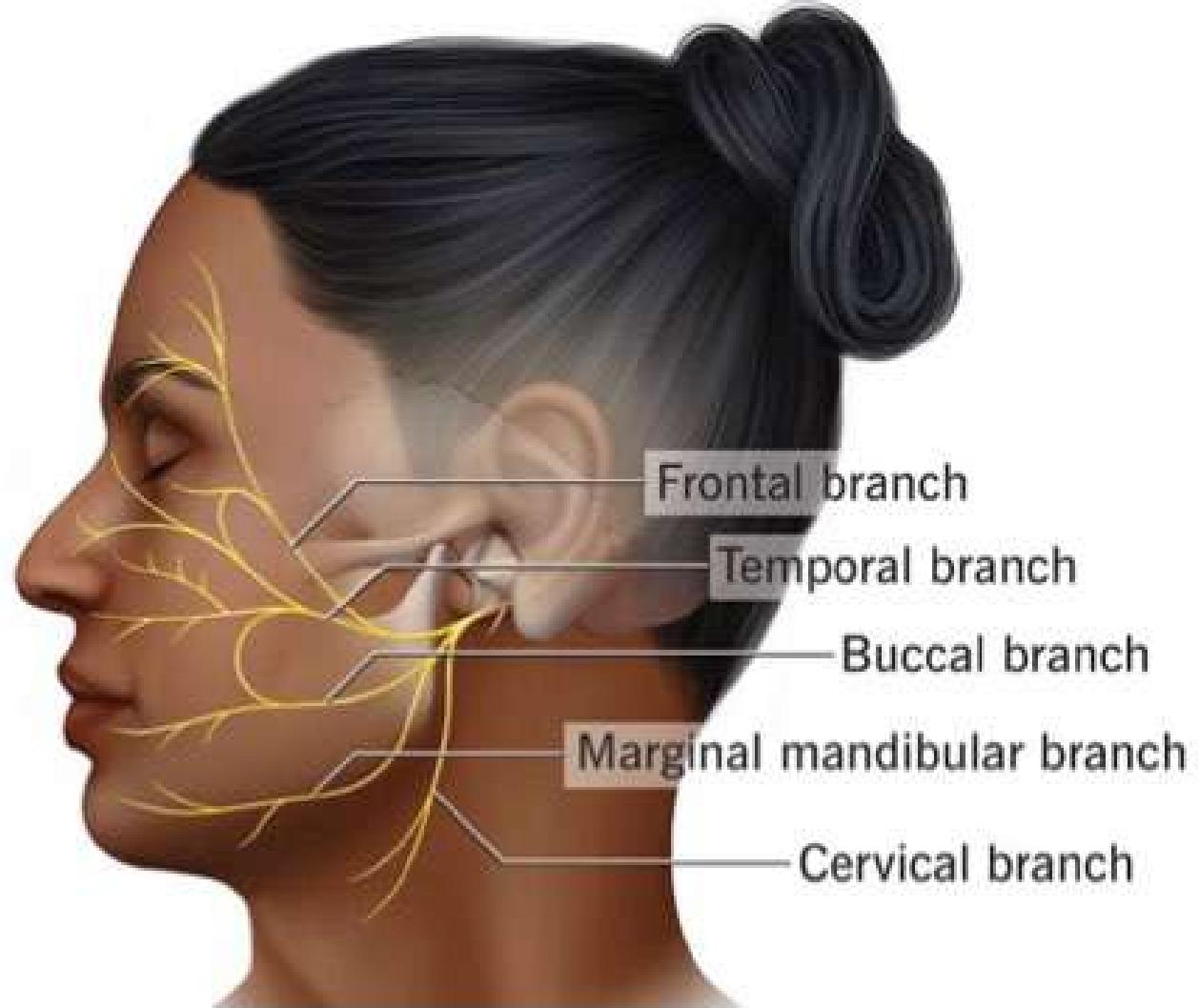
Type: Primarily Motor (facial expression), but also carries Taste (anterior 2/3 of tongue) and Parasympathetic (glands).

Course: Exits skull at the Stylomastoid Foramen



Facial nerve then runs through the **Parotid** gland, and divides into 5 terminal branches:

- Temporal
- Zygomatic
- Buccal
- Marginal Mandibular
- Cervical



Clinical: Bell's Palsy is acute, unilateral paralysis of these muscles, causing facial droop and inability to close the eye on the affected side.



Location of facial nerve



"Sagging" face

Summary

The face is characterized by **highly vascular** skin and muscles of facial expression. Motor control comes entirely from the **Facial Nerve**, damage causes **Bell's Palsy**. Sensation is supplied by the three divisions of the **Trigeminal Nerve**.

Arterial supply is primarily from the **Facial Artery**. Venous drainage via the **Facial Vein** poses a clinical risk in the Danger Triangle of the Face, due to connections with the **Cavernous Sinus**. Lymph drains to the Submental, Submandibular, and Pre-Auricular nodes.