Anatomy of the Face

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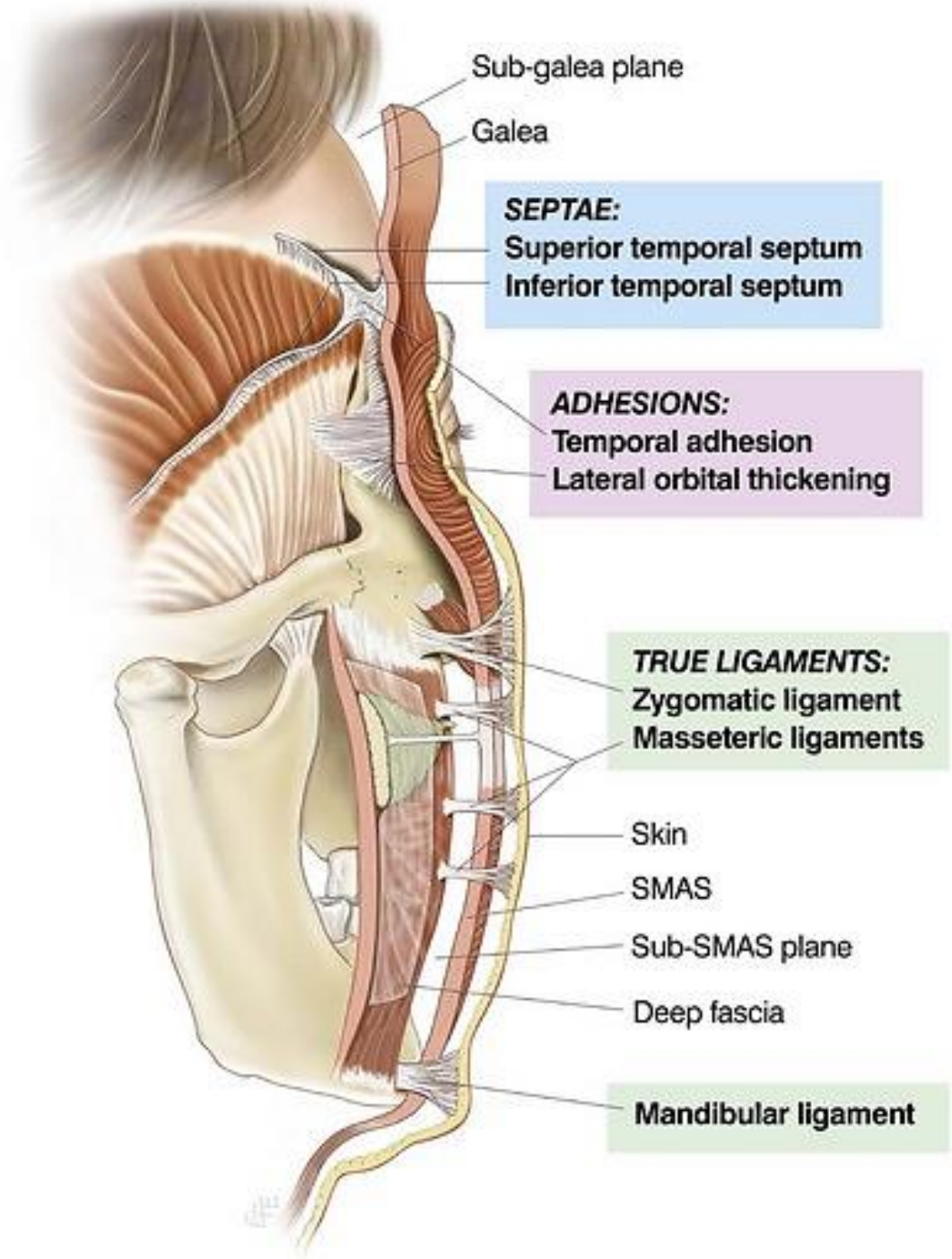
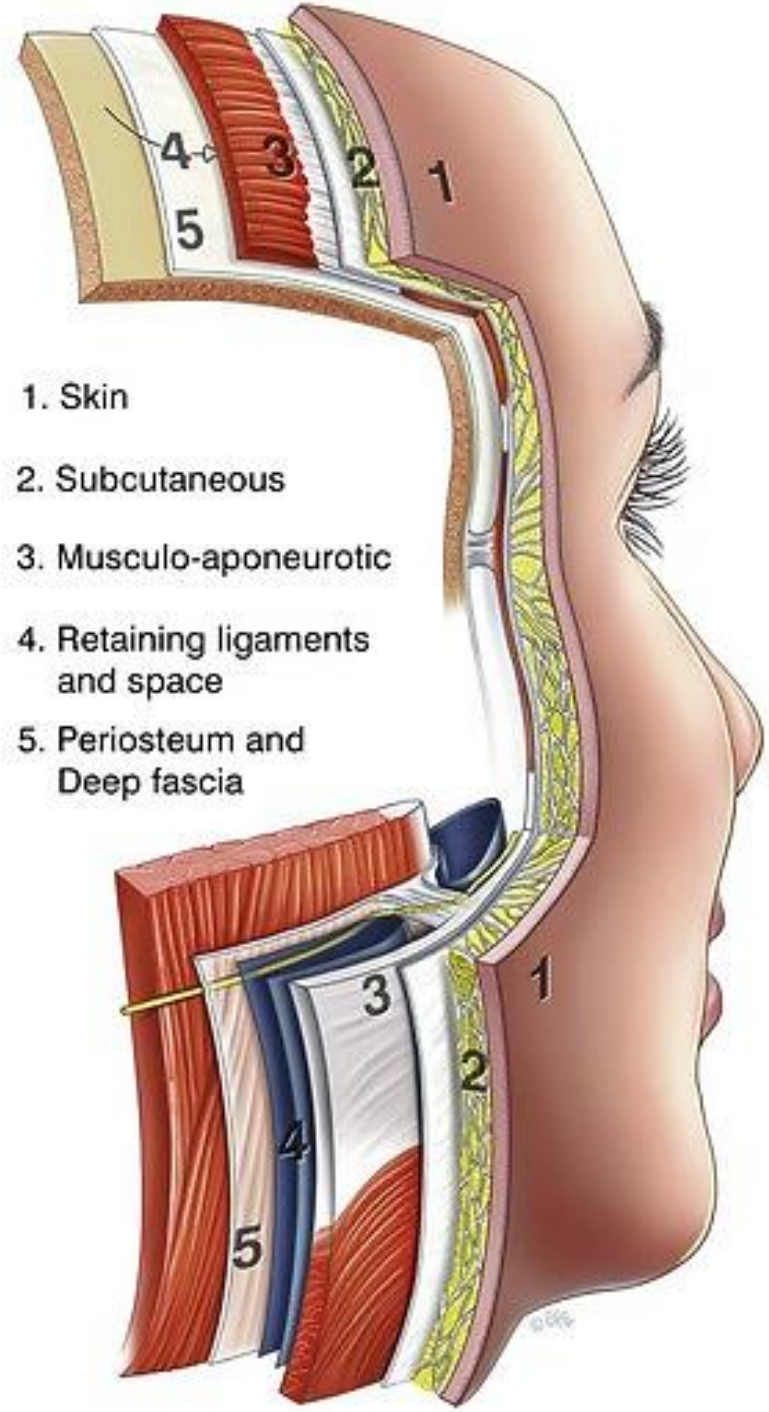
PhD (UK)

MBChB

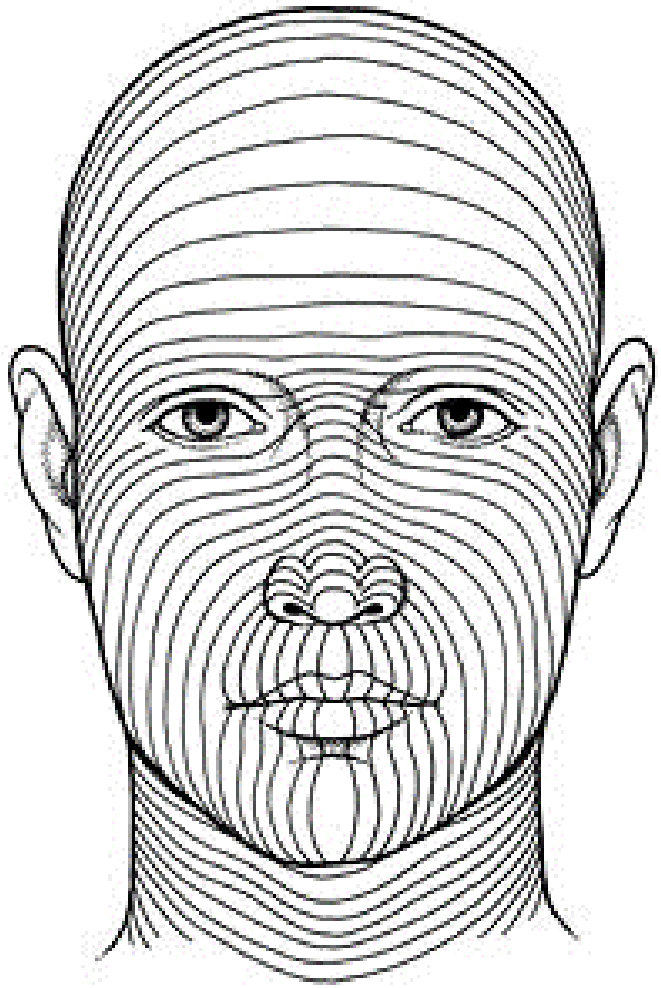
Learning Objectives

- Identify layers of the face
- Understand the different nerve supplies of the face (sensory and motor)
- Recognize the clinical importance of face venous drainage and lymphatics
- Identify the muscles of facial expression

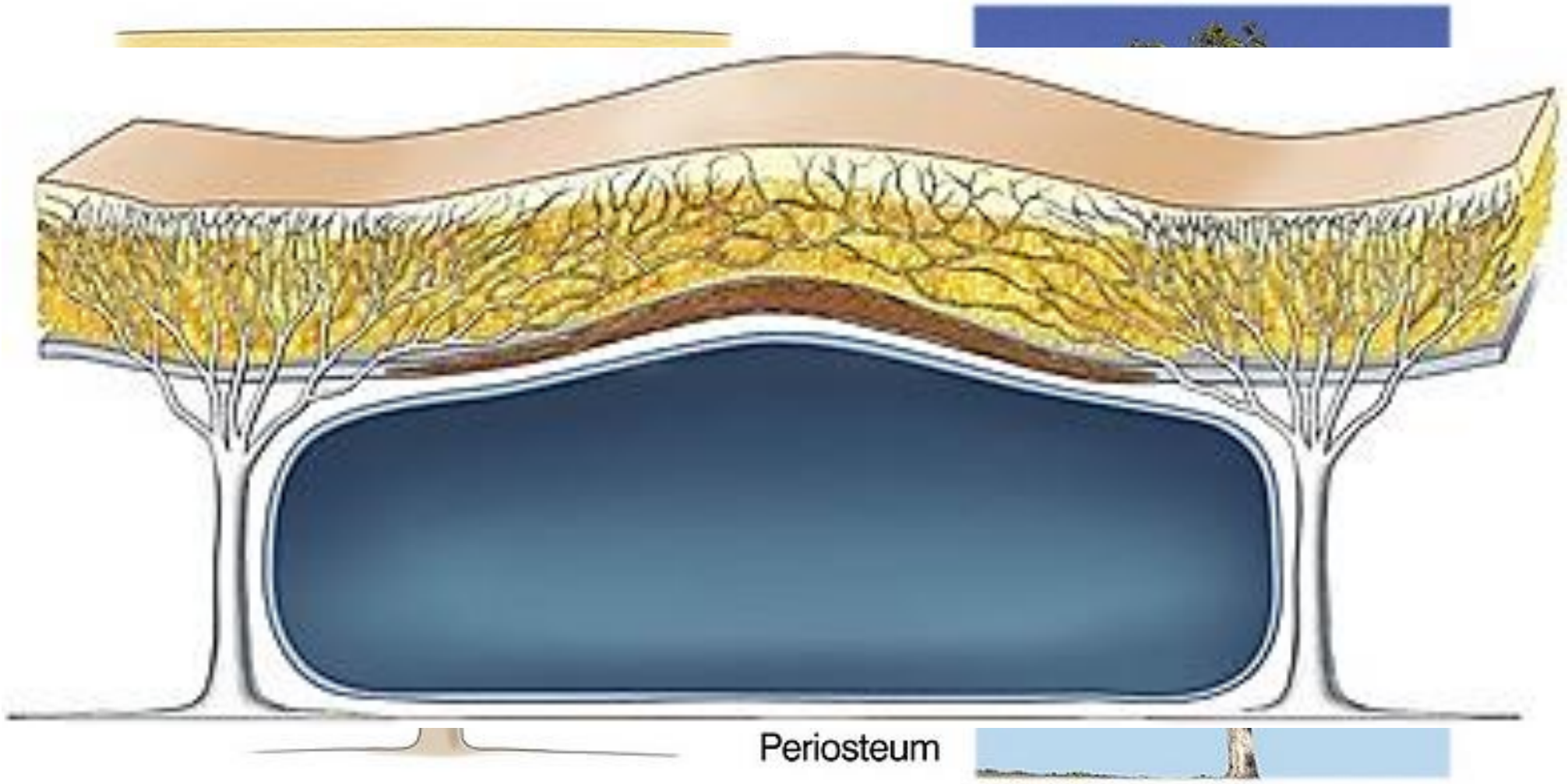

Sub-galea plane
Galea
SEPTAE:
Superior temporal septum
Inferior temporal septum
ADHESIONS:
Temporal adhesion
Lateral orbital thickening
TRUE LIGAMENTS:
Zygomatic ligament
Masseteric ligaments
Skin
SMAS
Sub-SMAS plane
Deep fascia
Mandibular ligament


1. Skin
2. Subcutaneous
3. Musculo-aponeurotic
4. Retaining ligaments and space
5. Periosteum and Deep fascia

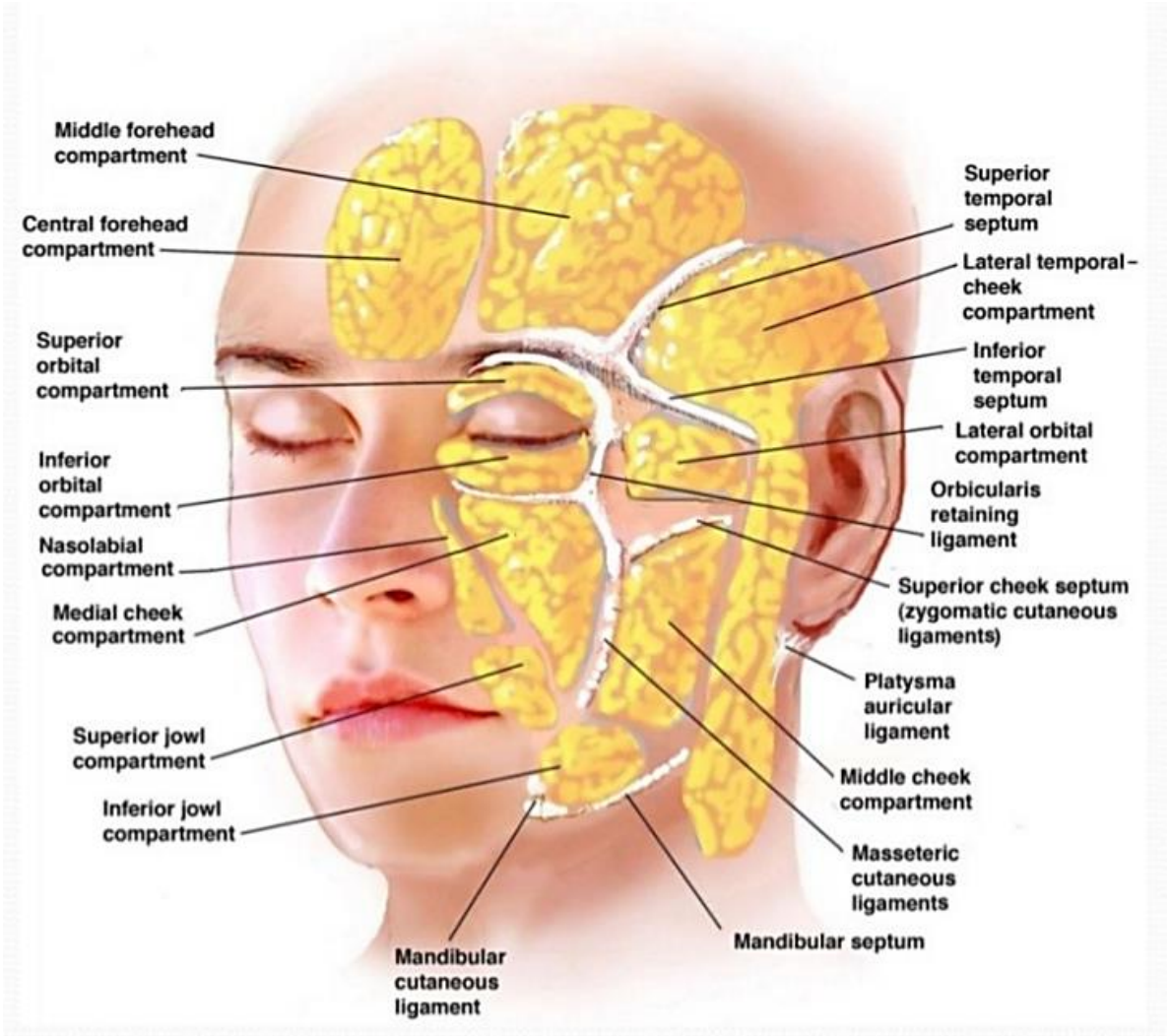
Skin Langers Lines



SMAS – superficial musculo aponeurotic system



Superficial fat compartments

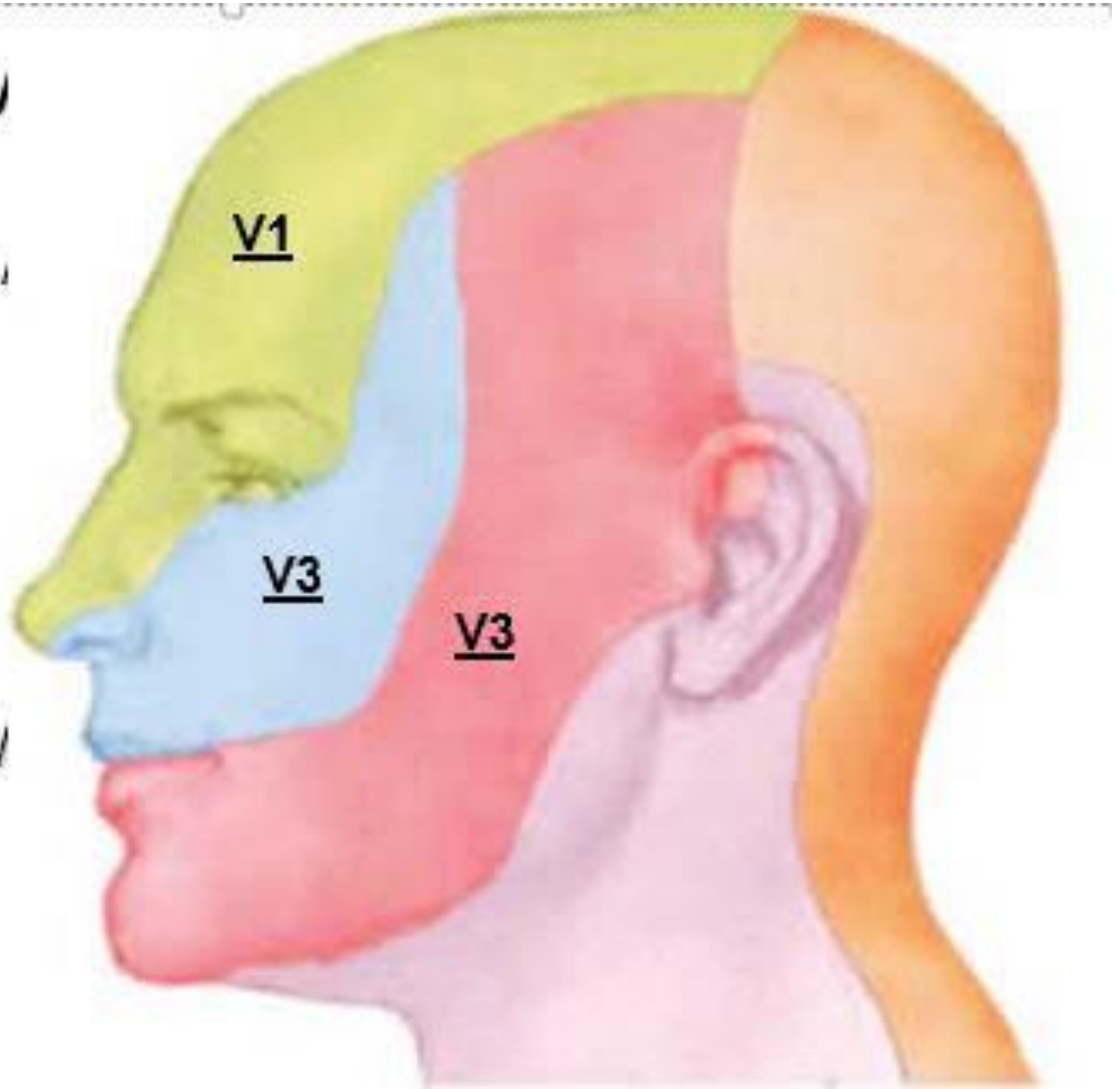


Sensory nerves of the face

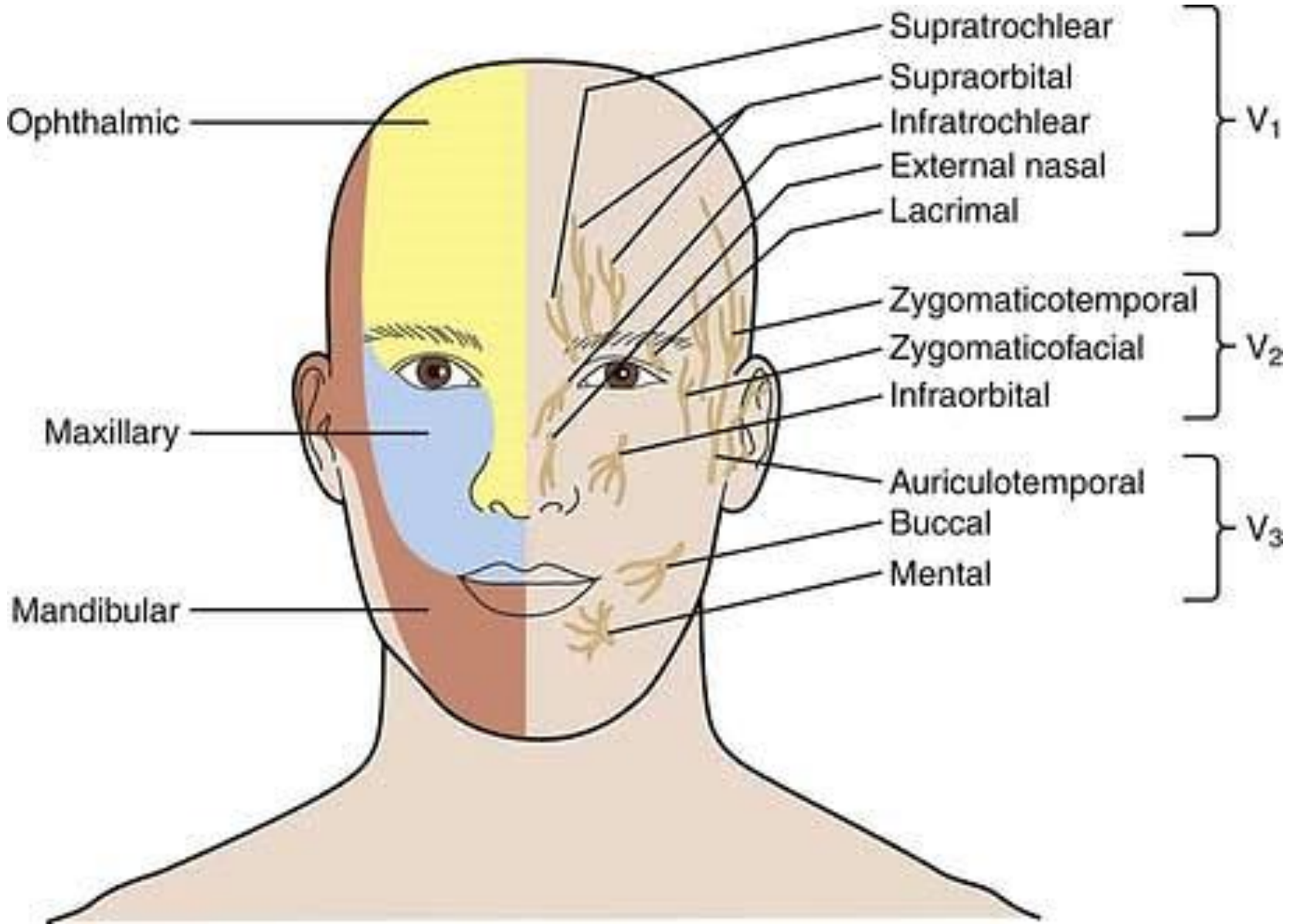
Trigeminal Nerve /CN V

Branches:

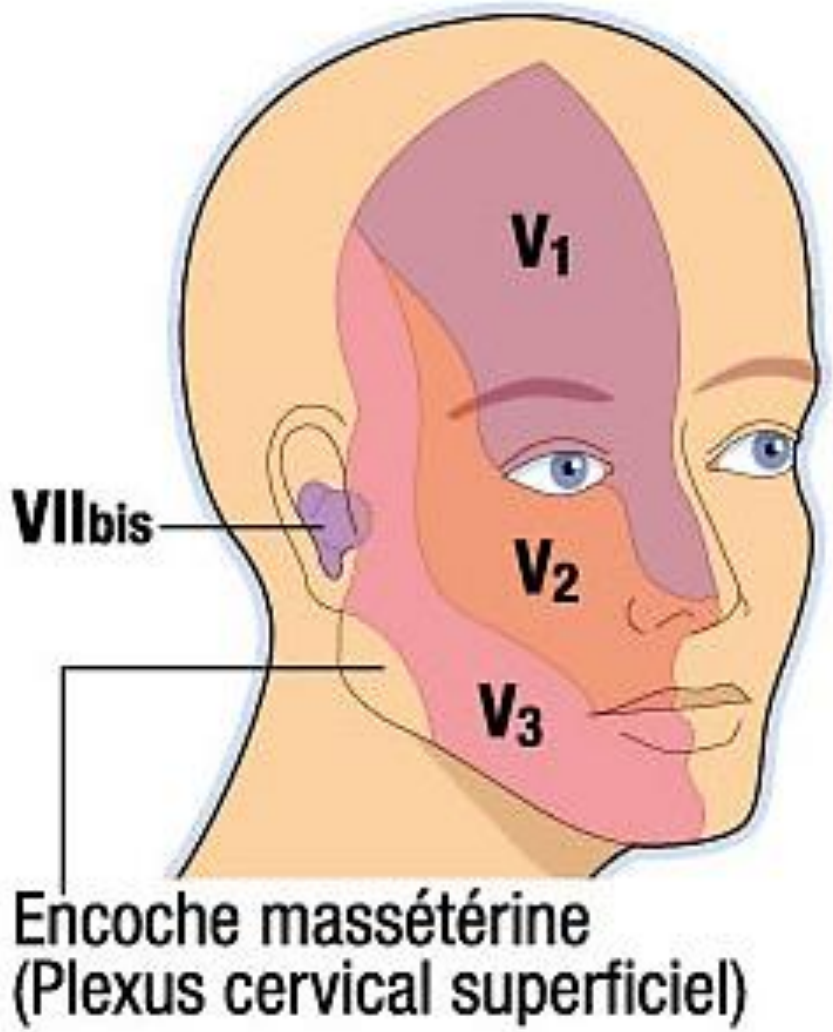
1. Ophthalmic Division / Nerve (V1)
2. Maxillary Division / Nerve(V2)
2. Mandibular Division / Nerve(V3)

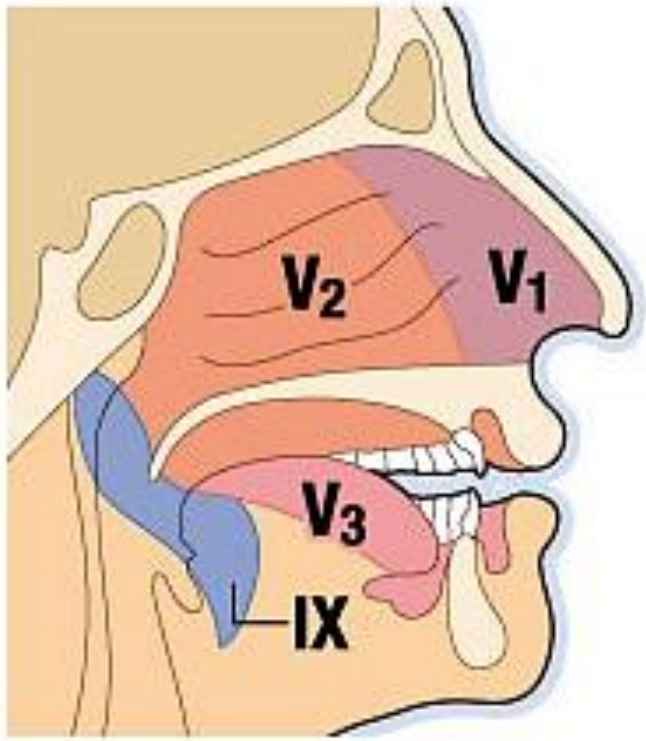


Sensory nerves of the face

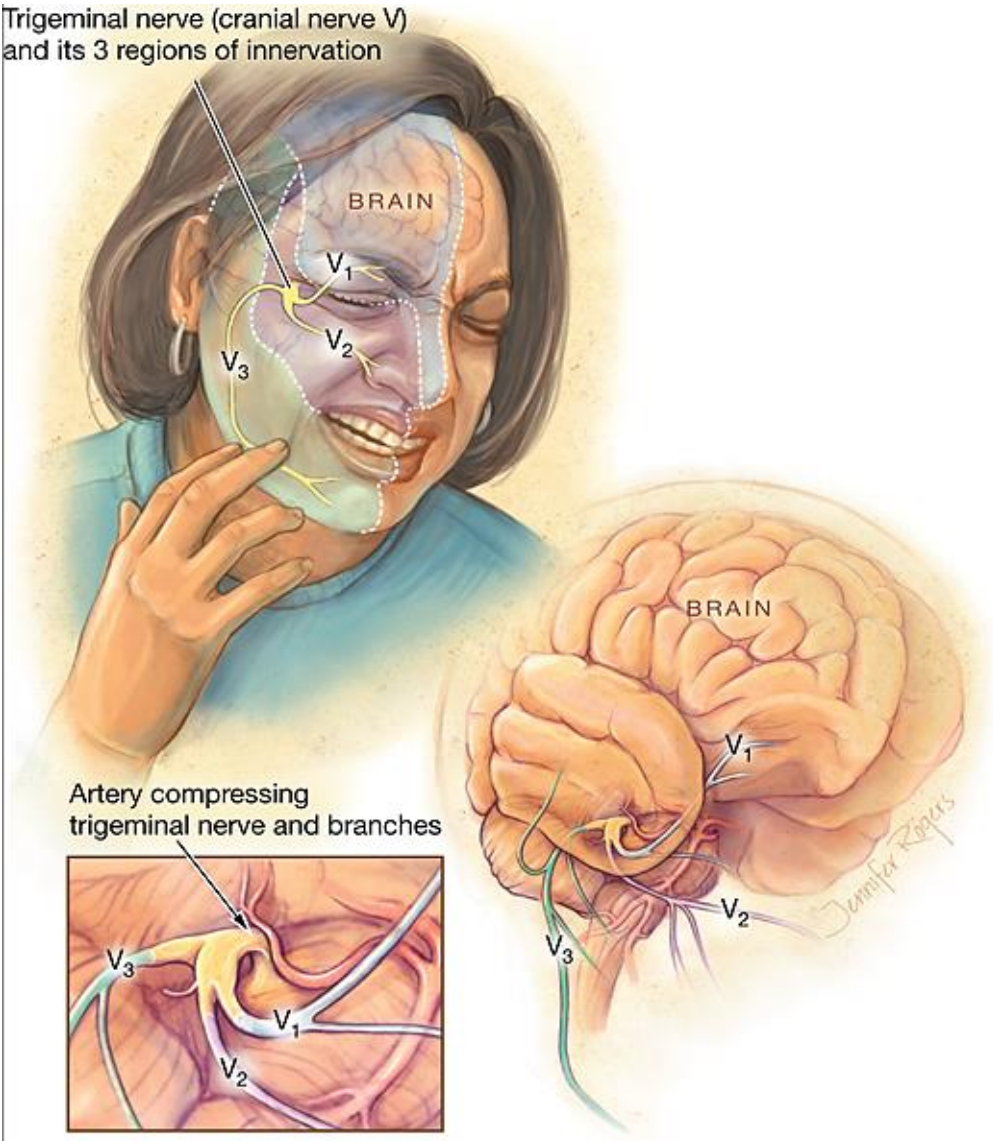


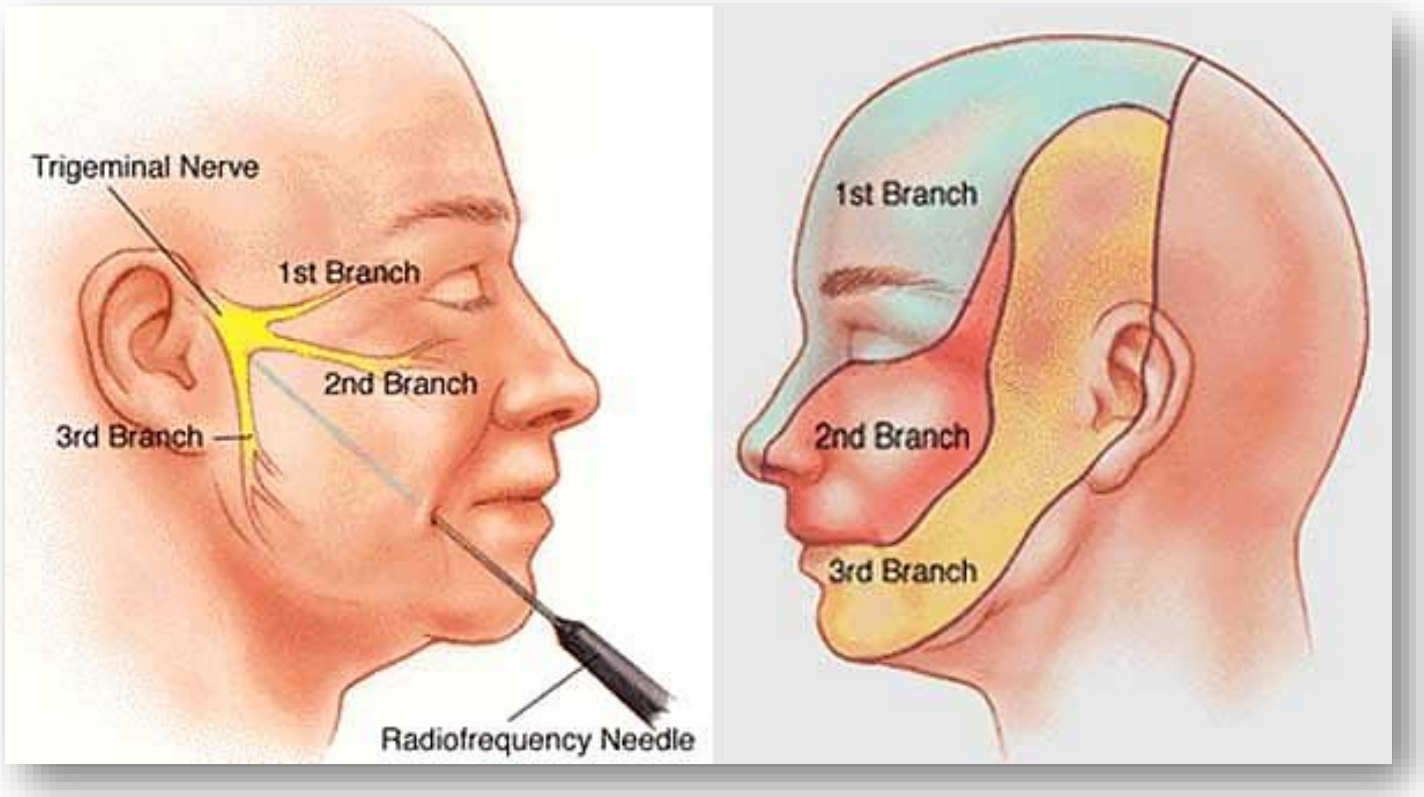
Sensory nerves of the face – Referred Pain!



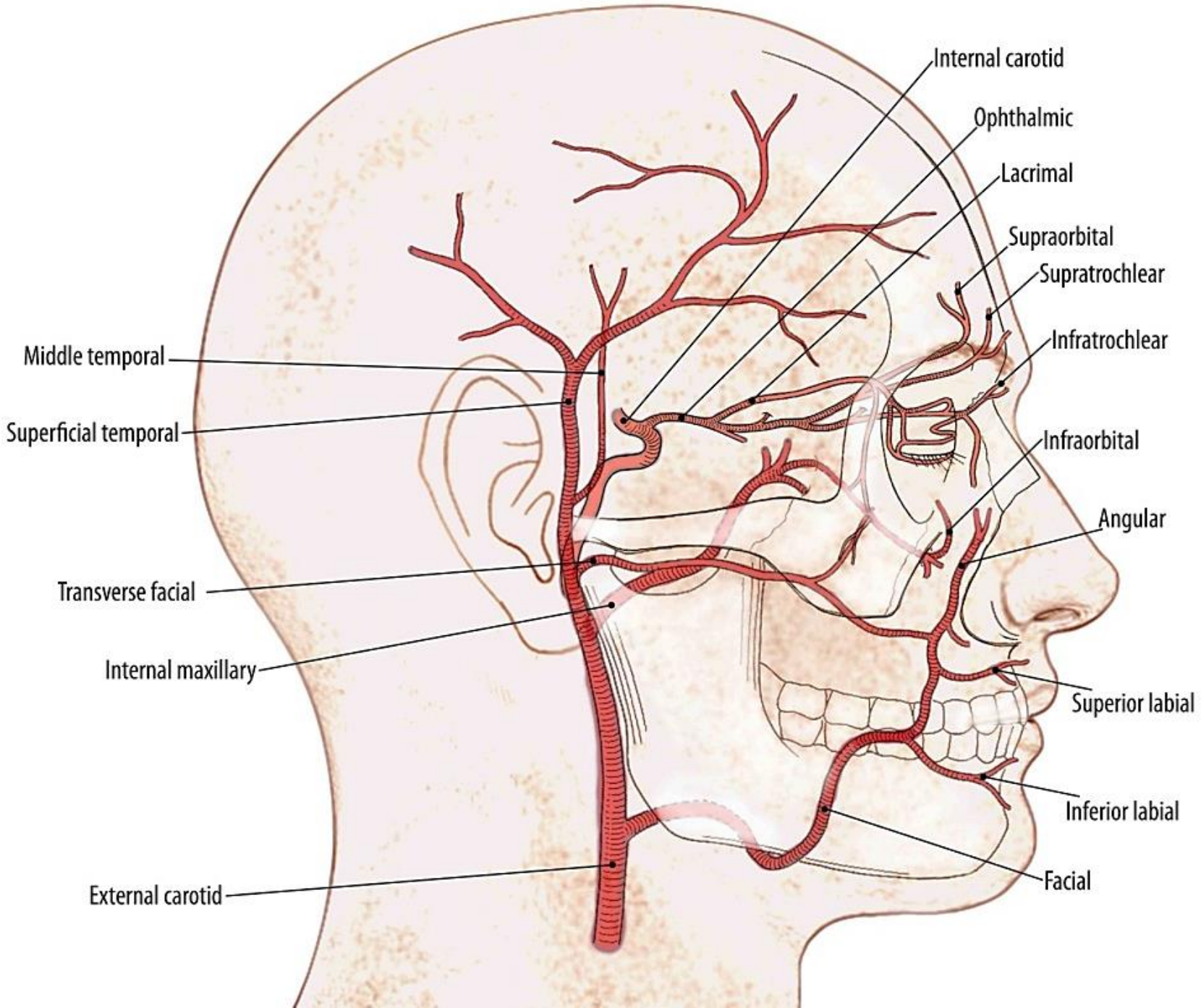


Trigeminal neuralgia – Pain in the area of CNV

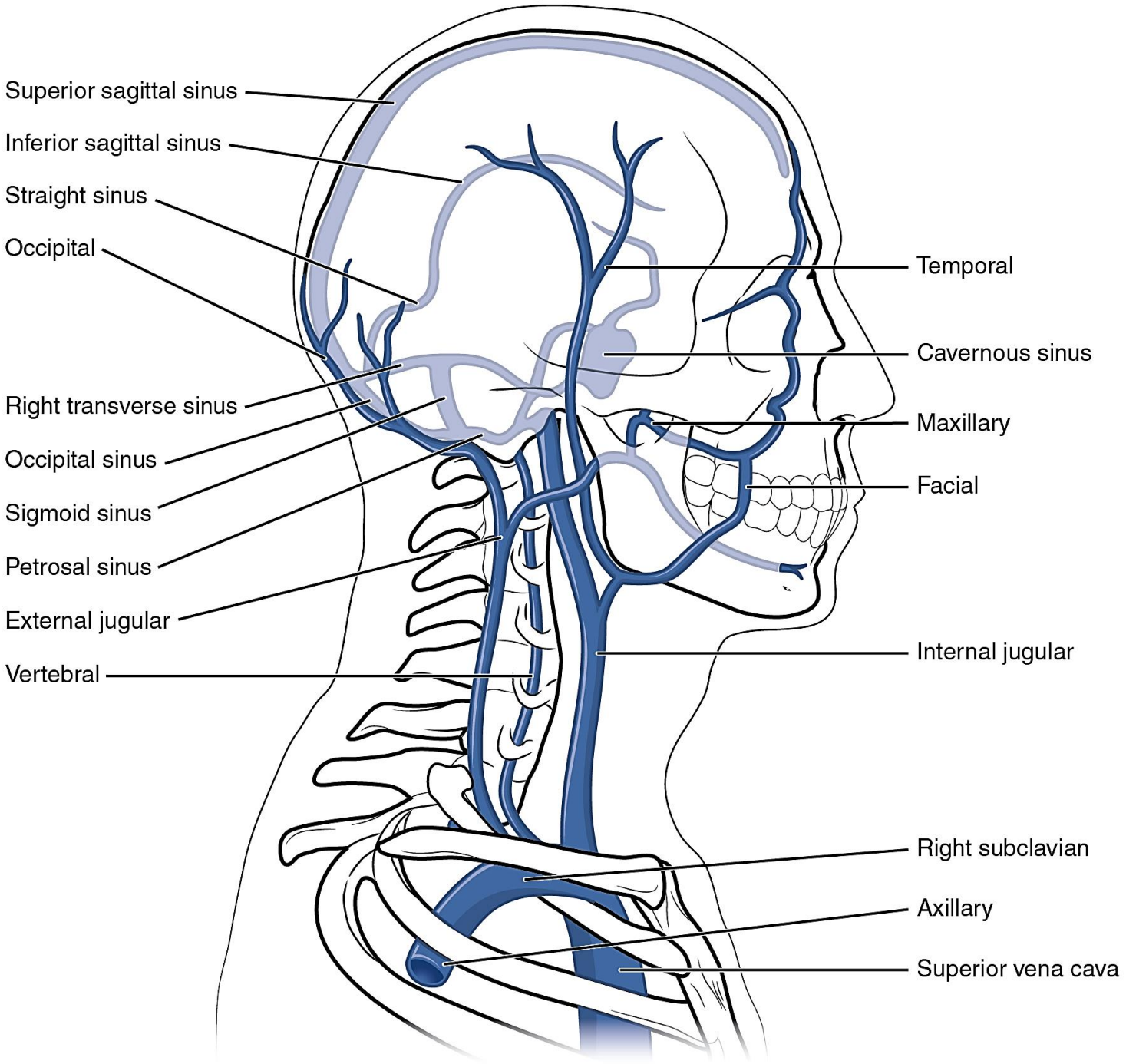




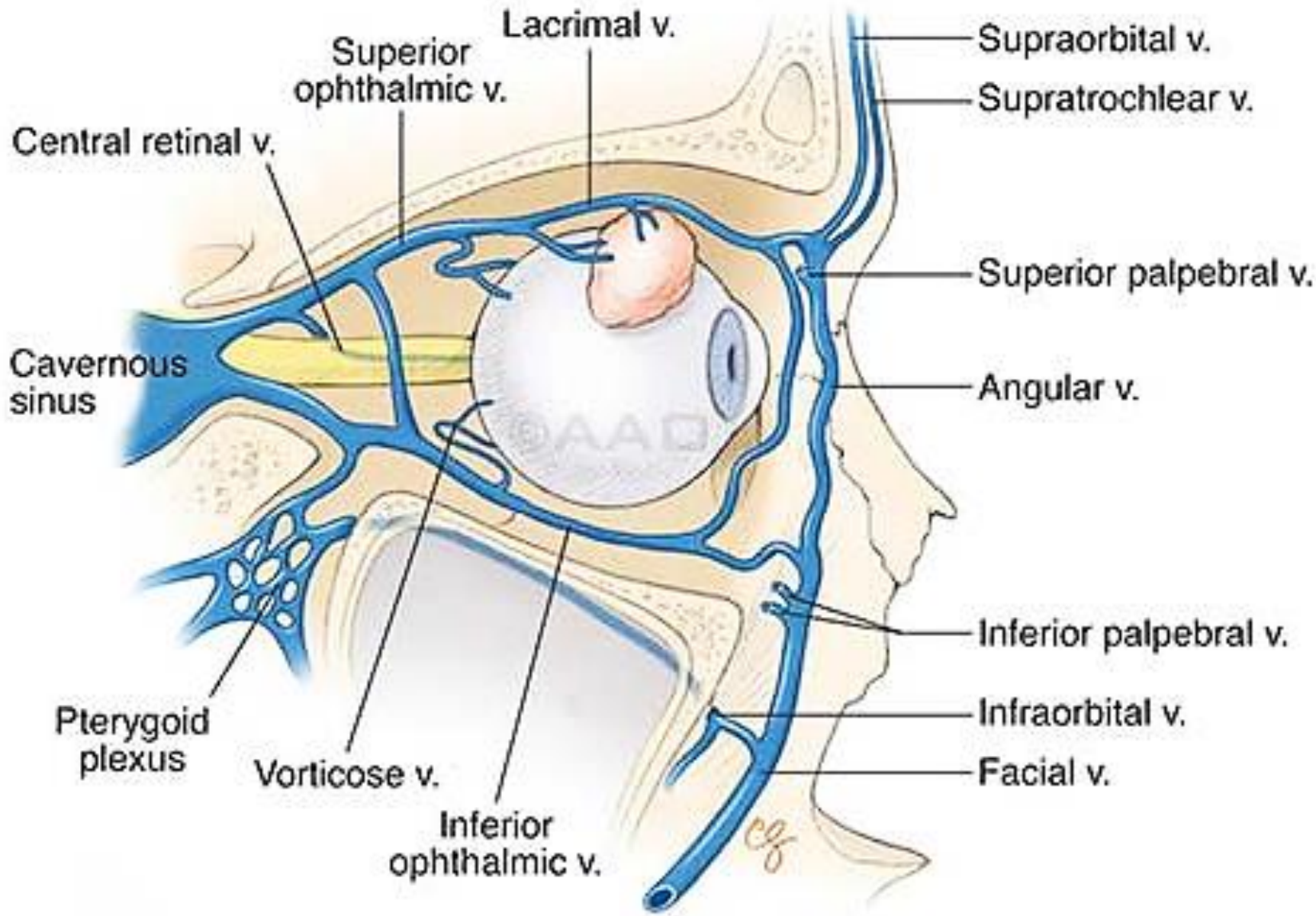
Arterial supply of the face

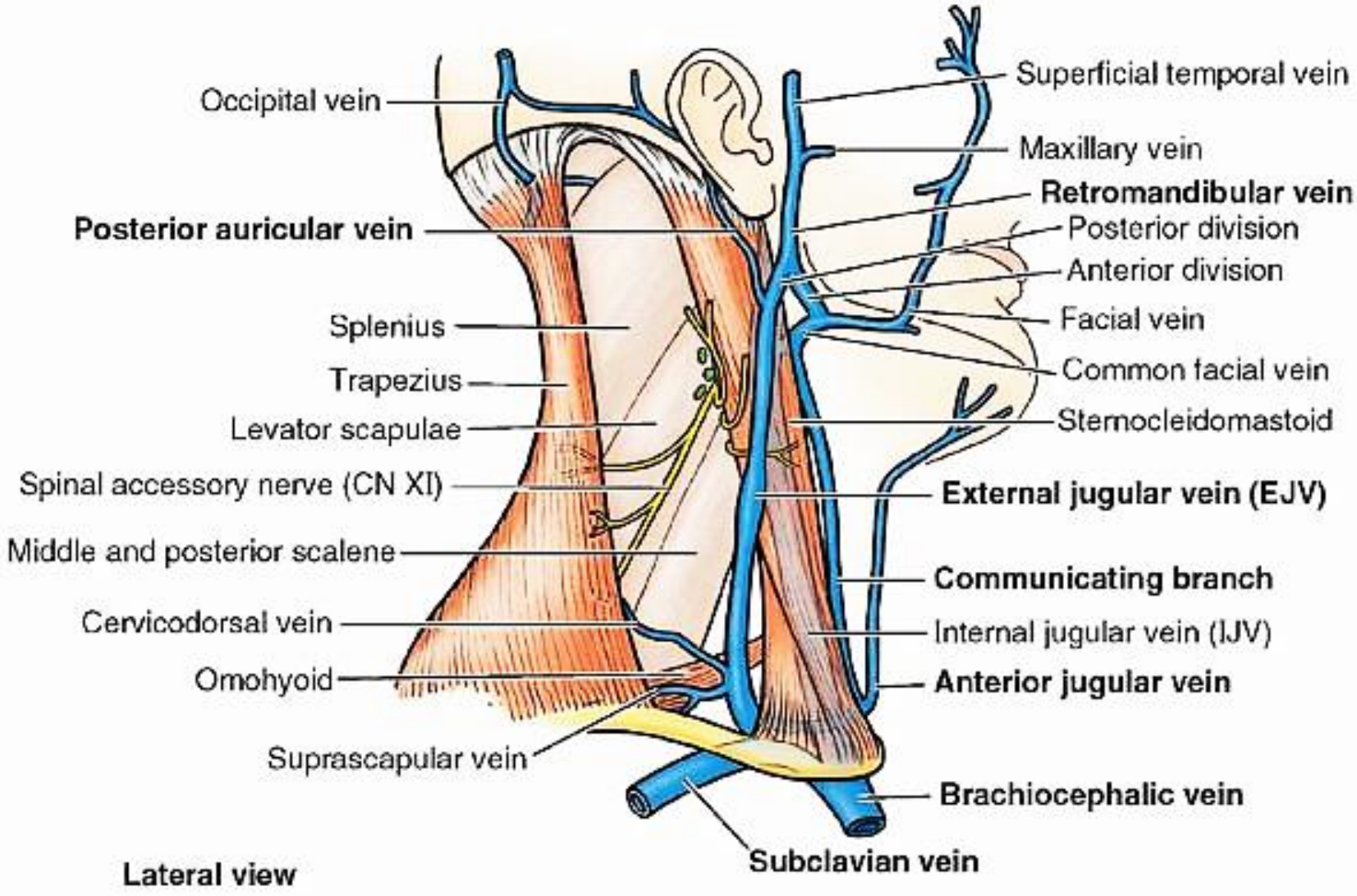


Venous drainage of the face



Venous Connection





Superficial temporal vein

Maxillary vein

Retromandibular vein

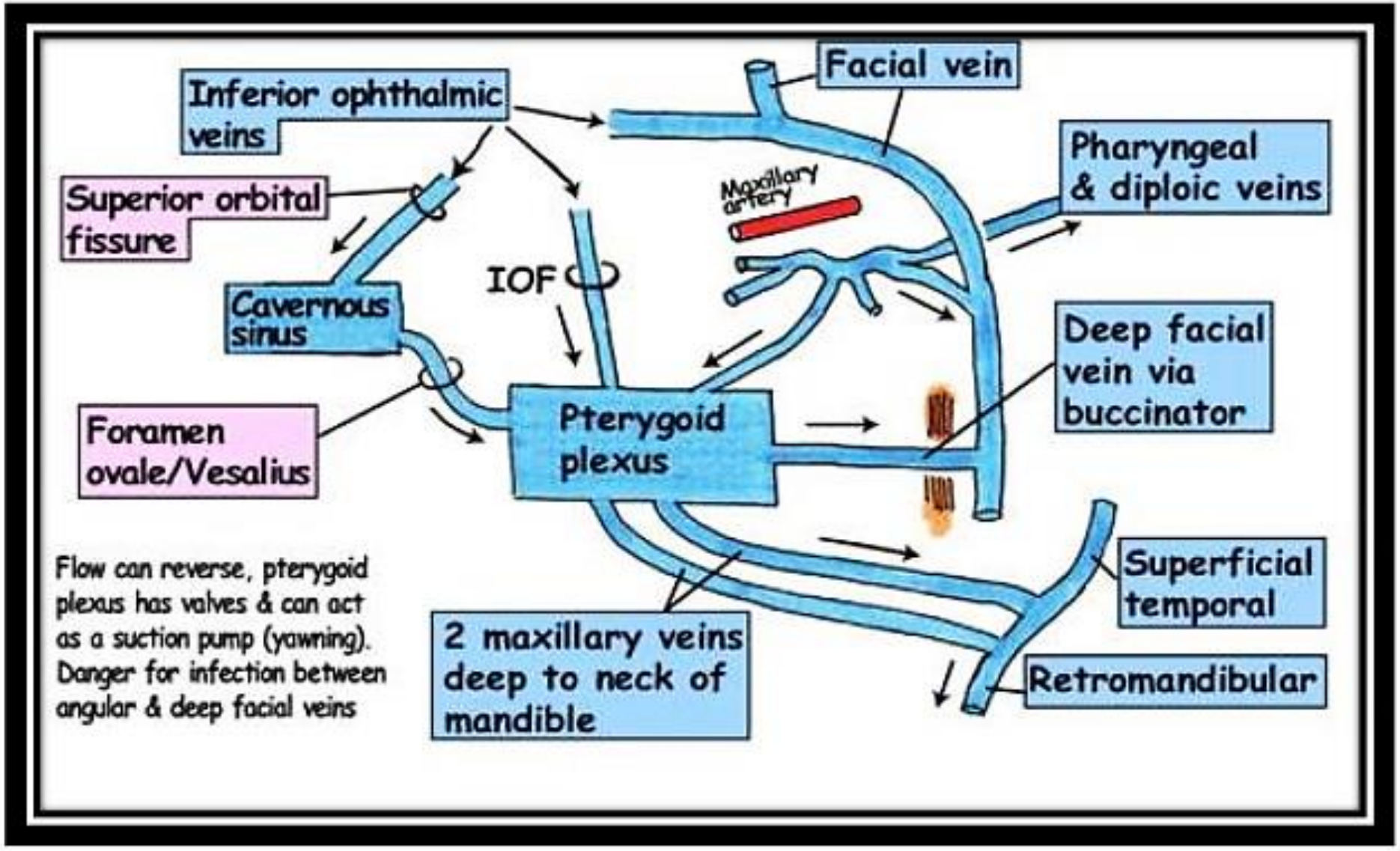
Posterior division

Anterior division

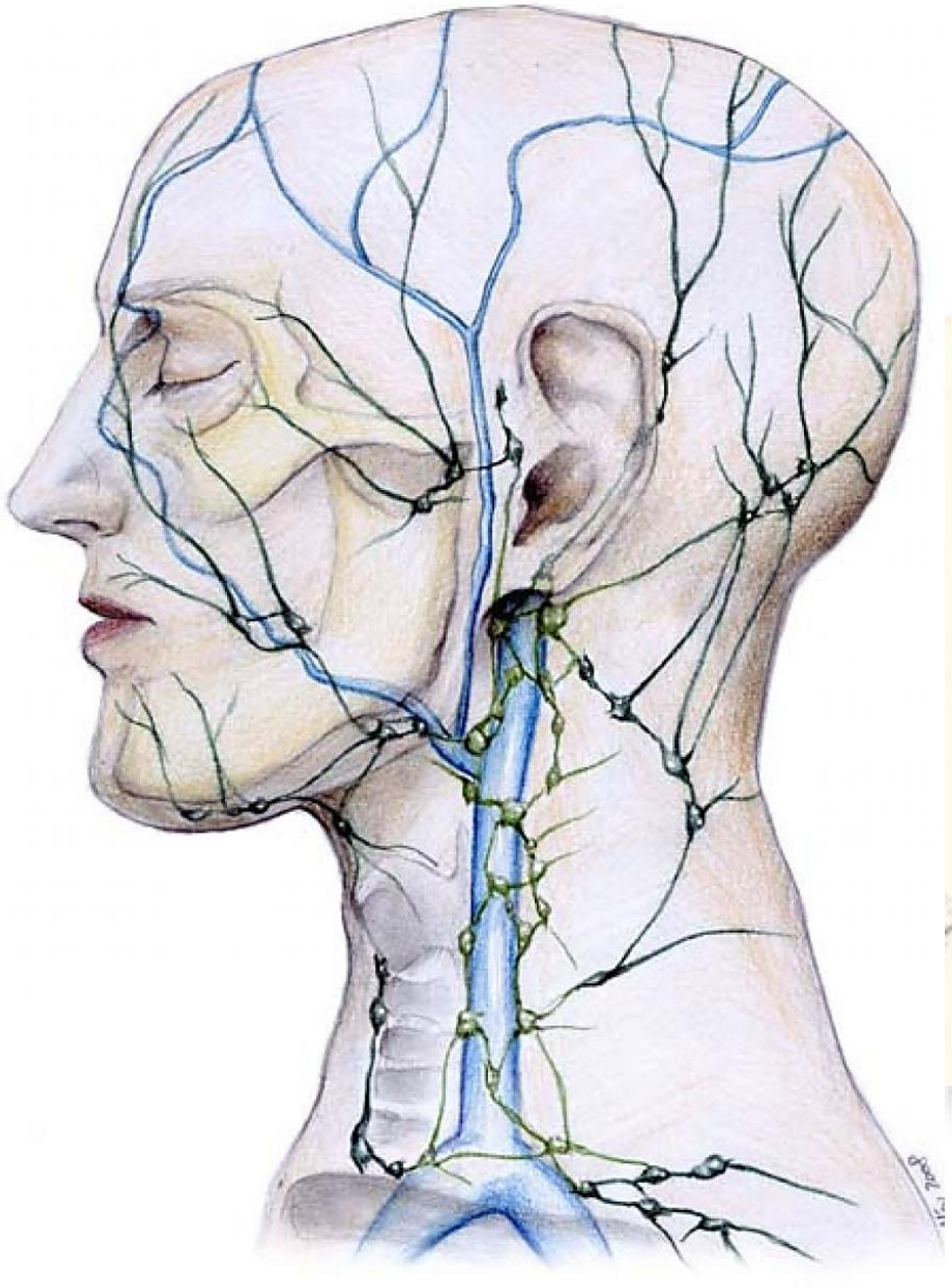
Joins posterior auricular v. to form external jugular v.

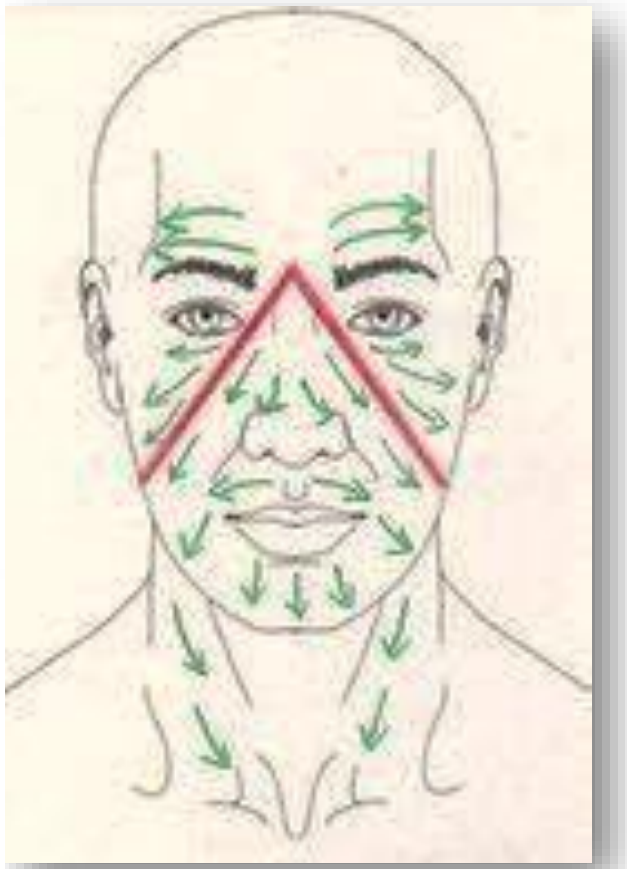
Joins facial v. to form common facial v. → A tributary of the internal jugular v.

Venous connections of cavernous sinus



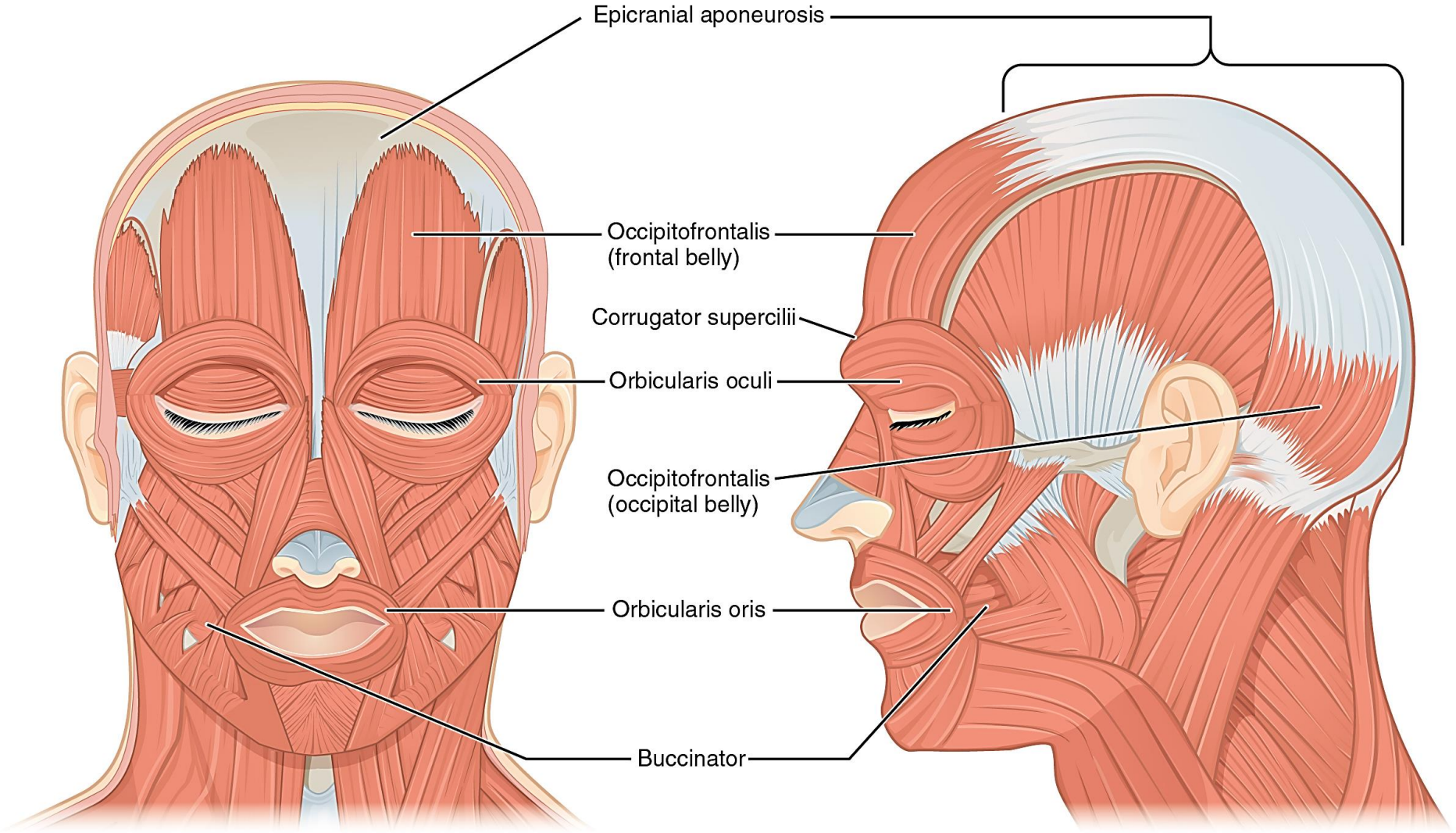
Lymphatic Drainage of the Face





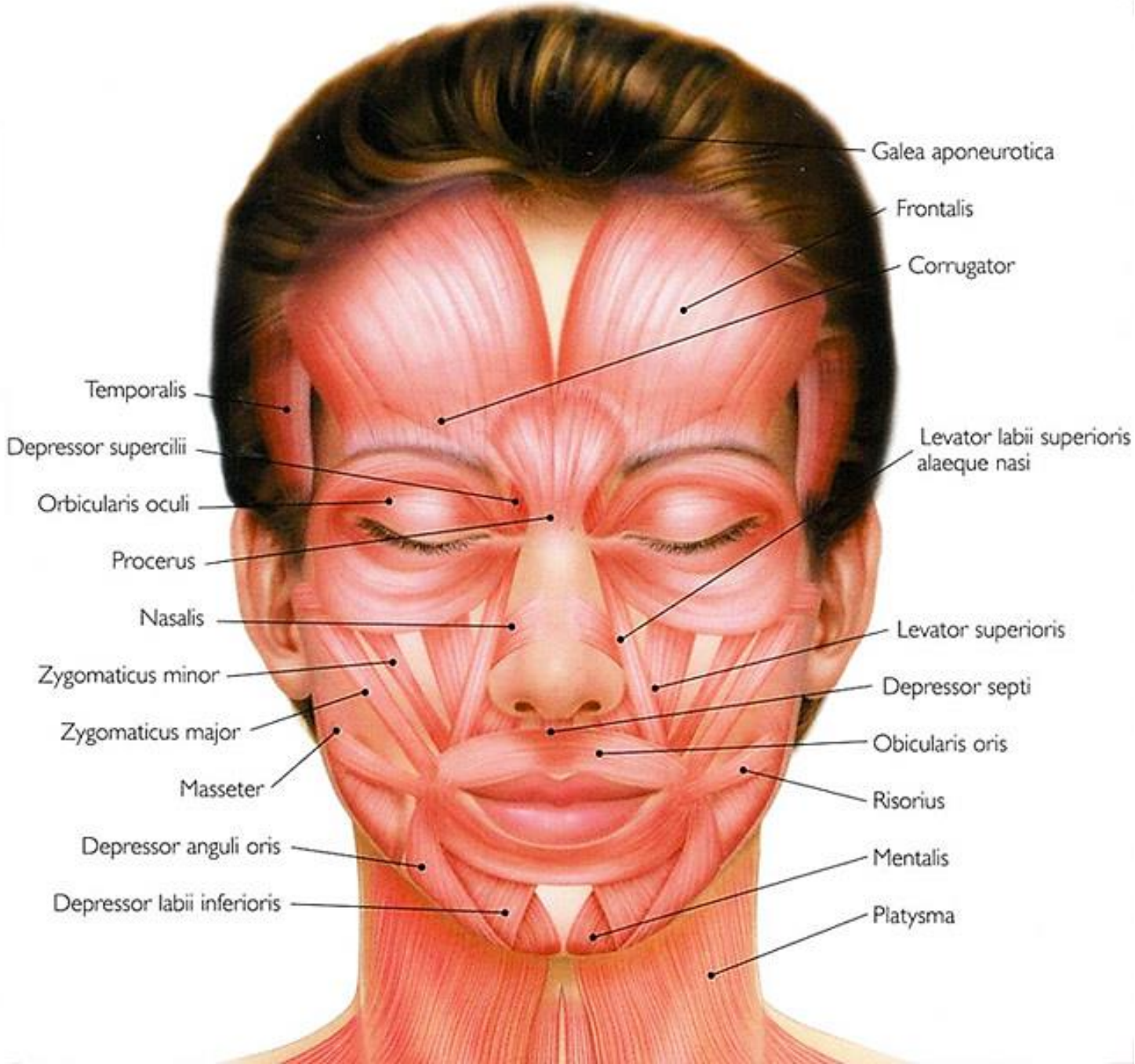

Danger Triangle of Face
http://medchrome.com

Muscles of the Face

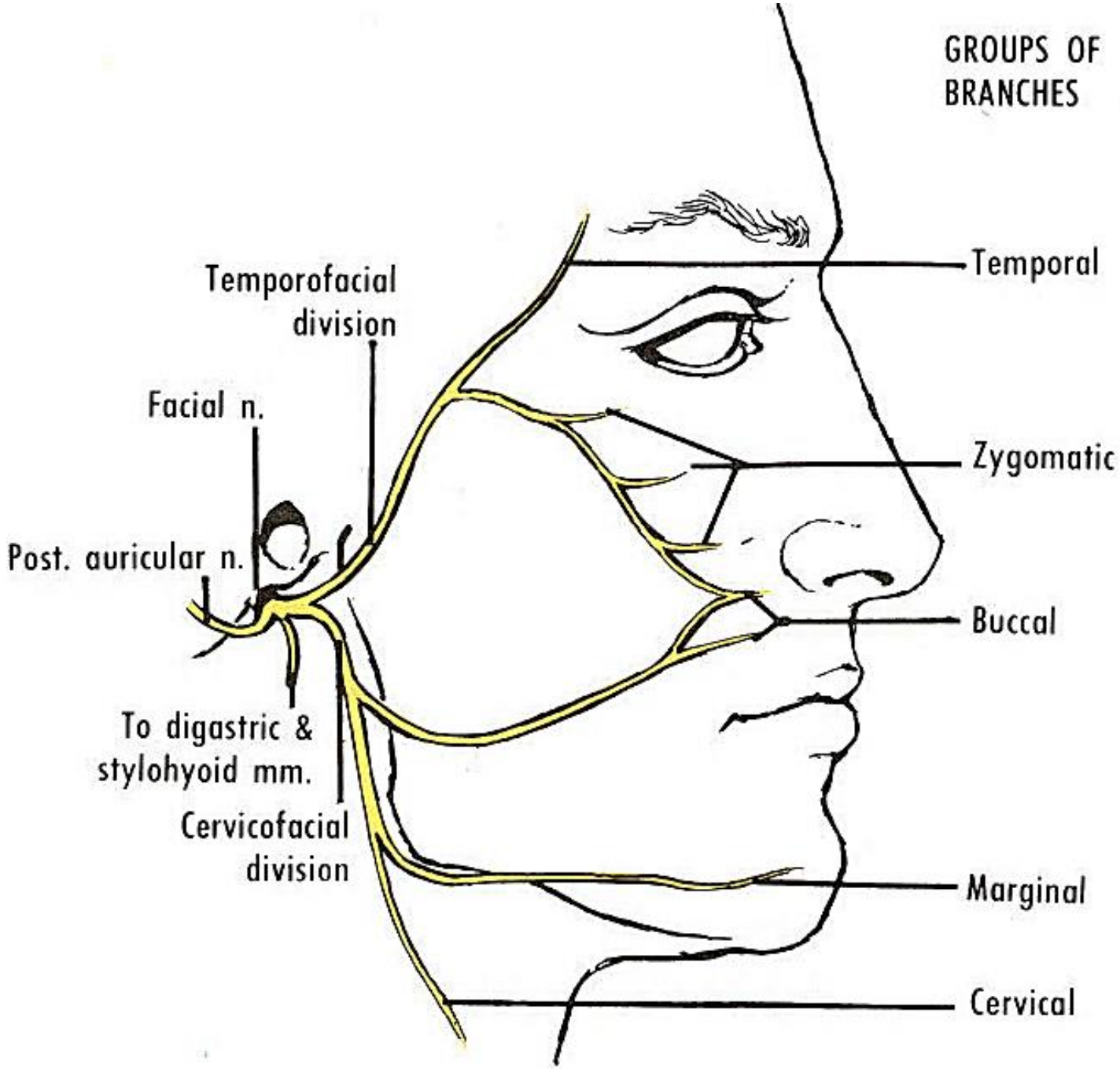


Facial muscles (anterior view)

Facial muscles (lateral view)

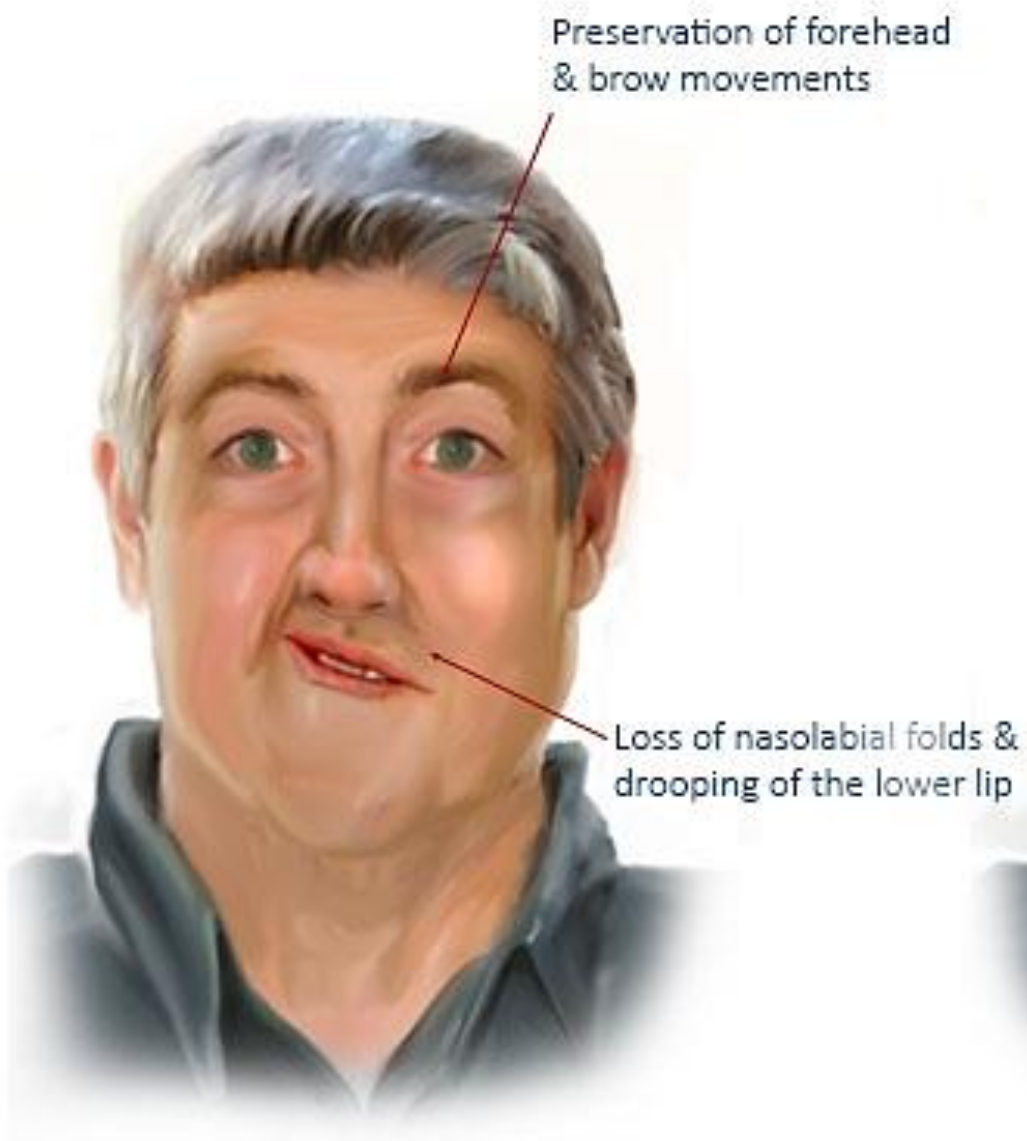

Galea aponeurotica
Frontalis
Corrugator
Temporalis
Depressor supercilii
Orbicularis oculi
Procerus
Nasalis
Zygomaticus minor
Zygomaticus major
Masseter
Depressor anguli oris
Depressor labii inferioris
Levator labii superioris alaeque nasi
Levator superioris
Depressor septi
Obicularis oris
Risorius
Mentalis
Platysma

Facial Nerve



Upper motor neuron lesion

Central facial palsy



Lowe motor neuron lesion

Peripheral facial palsy