

maxillary nerve

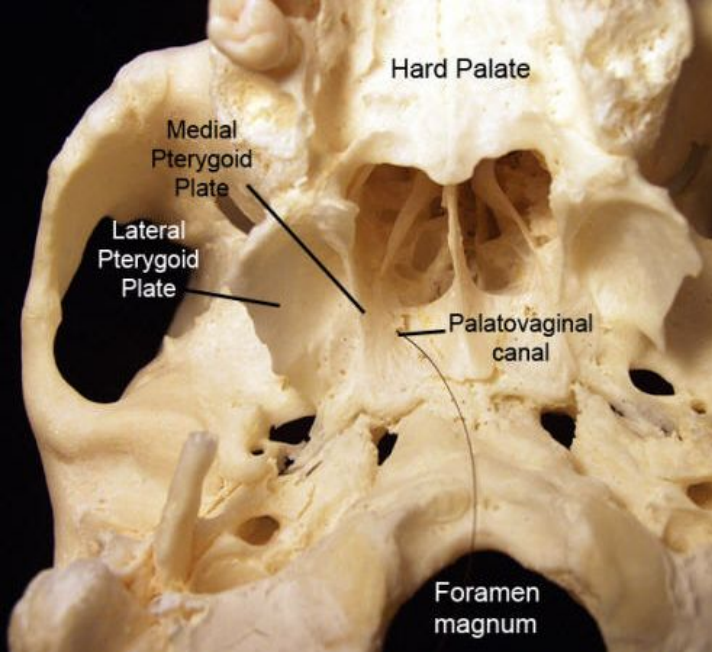
zygomatic nerve

infraorbital nerve

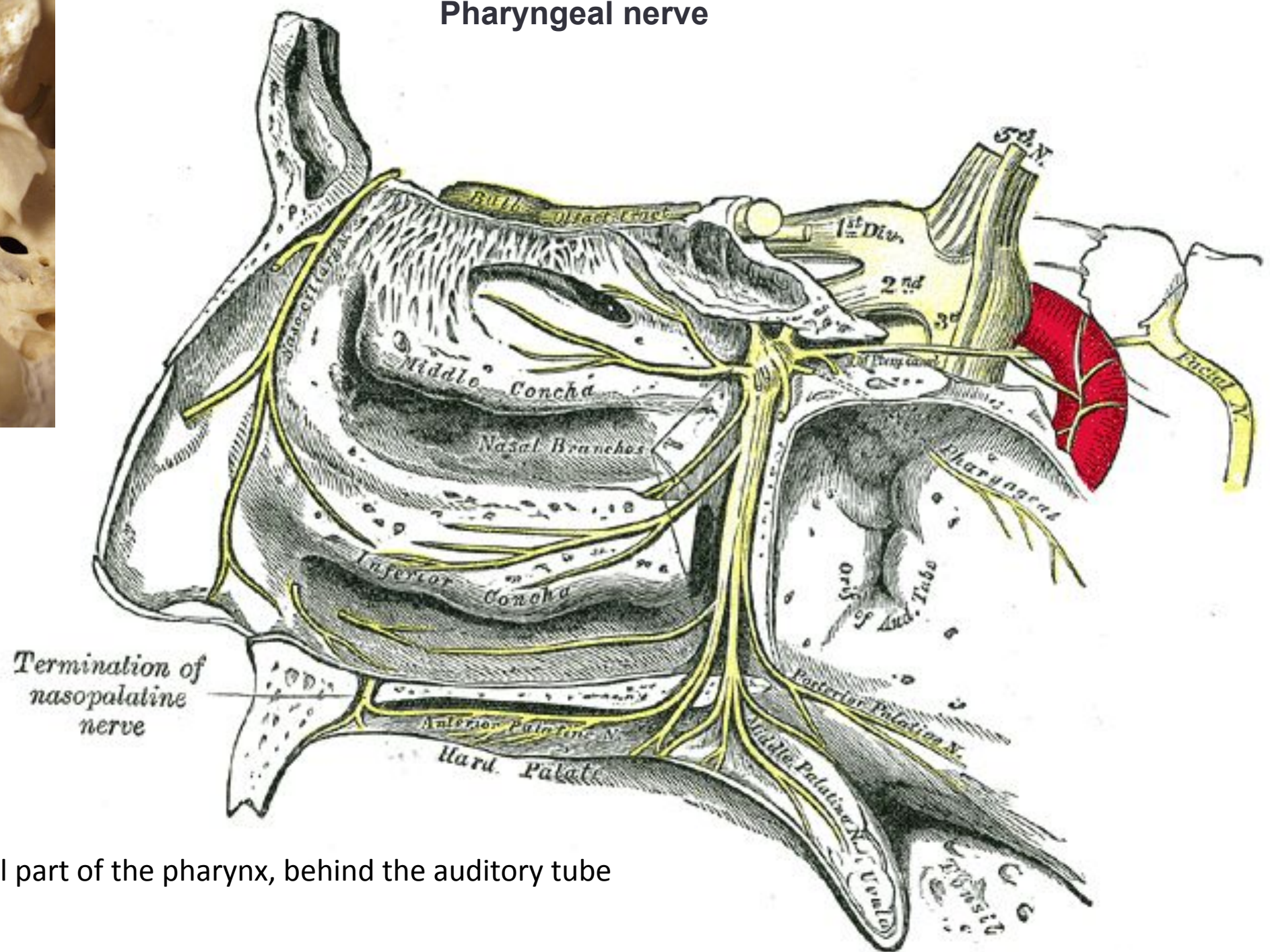
- Superior alveolar nerve (anterior, posterior and middle)
- Middle meningeal nerve
- Infraorbital nerve
- Zygomatic nerve
- Inferior palpebral nerve
- Superior labial nerve
- Pharyngeal nerve
- Greater and lesser palatine nerves
- Nasopalatine nerve

ganglion pterygopalatinum

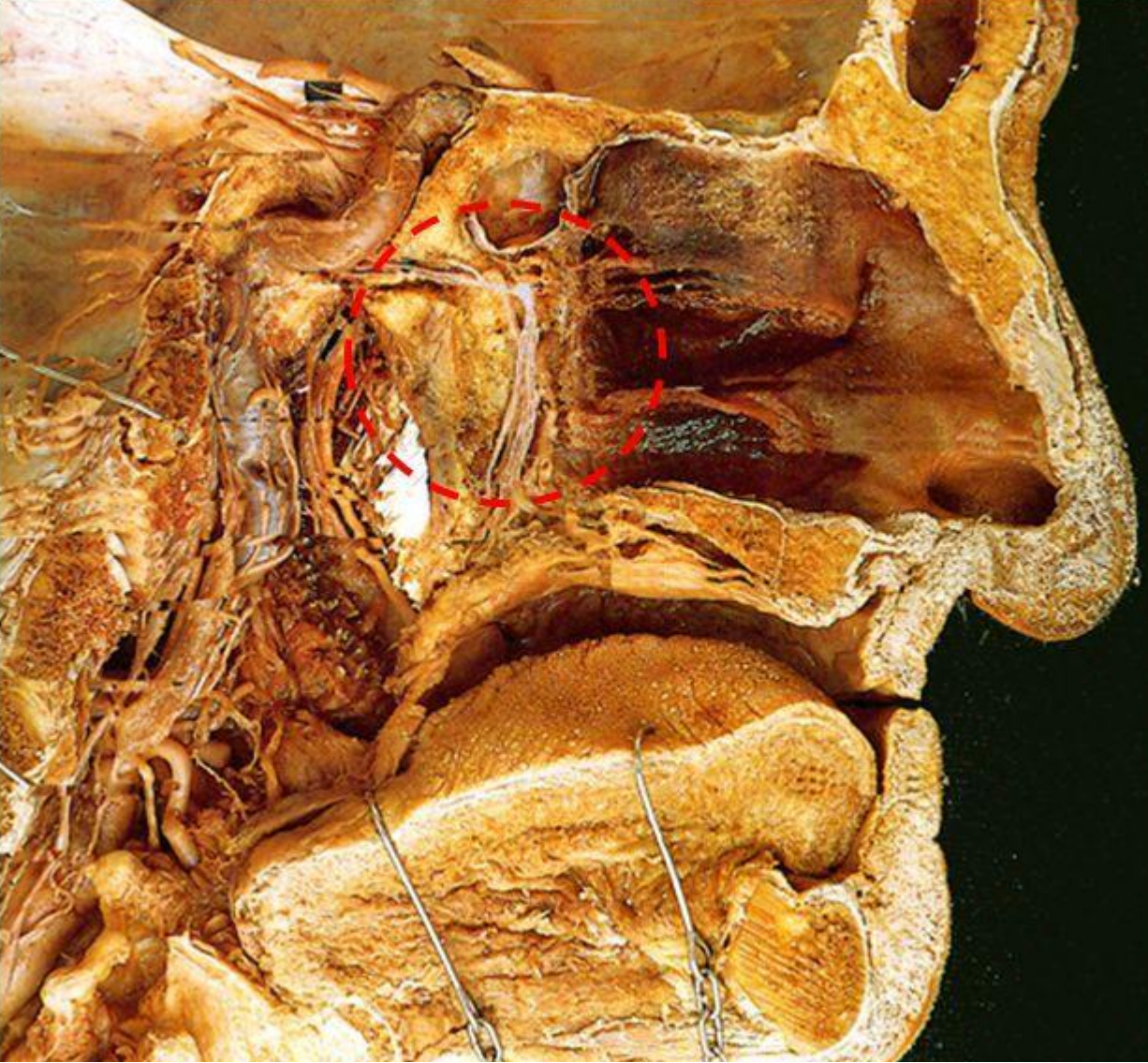
superior dental nerves



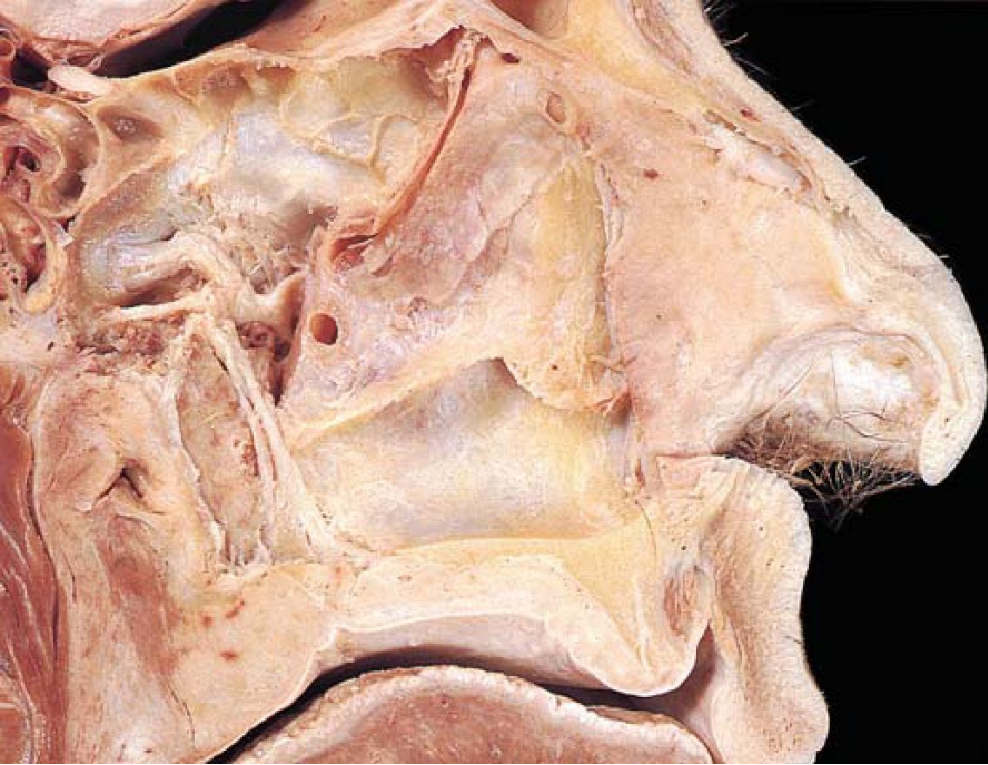
Pharyngeal nerve



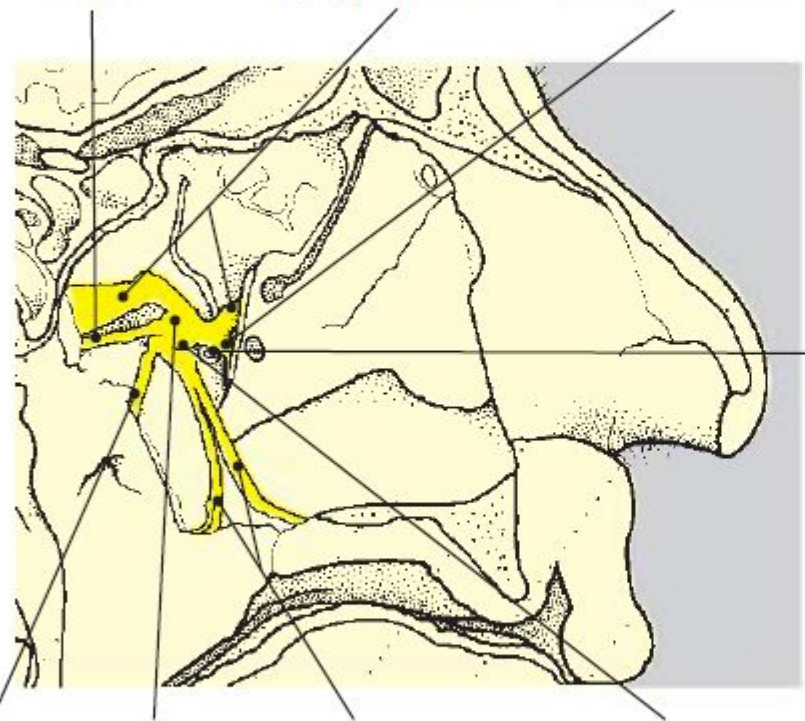
mucous membrane of the nasal part of the pharynx, behind the auditory tube



n. Intermedius - portio intermedia n. Facialis - n. petrosus major



Nerve of pterygoid canal
Maxillary (V₂) division
Posterior superior alveolar nerve

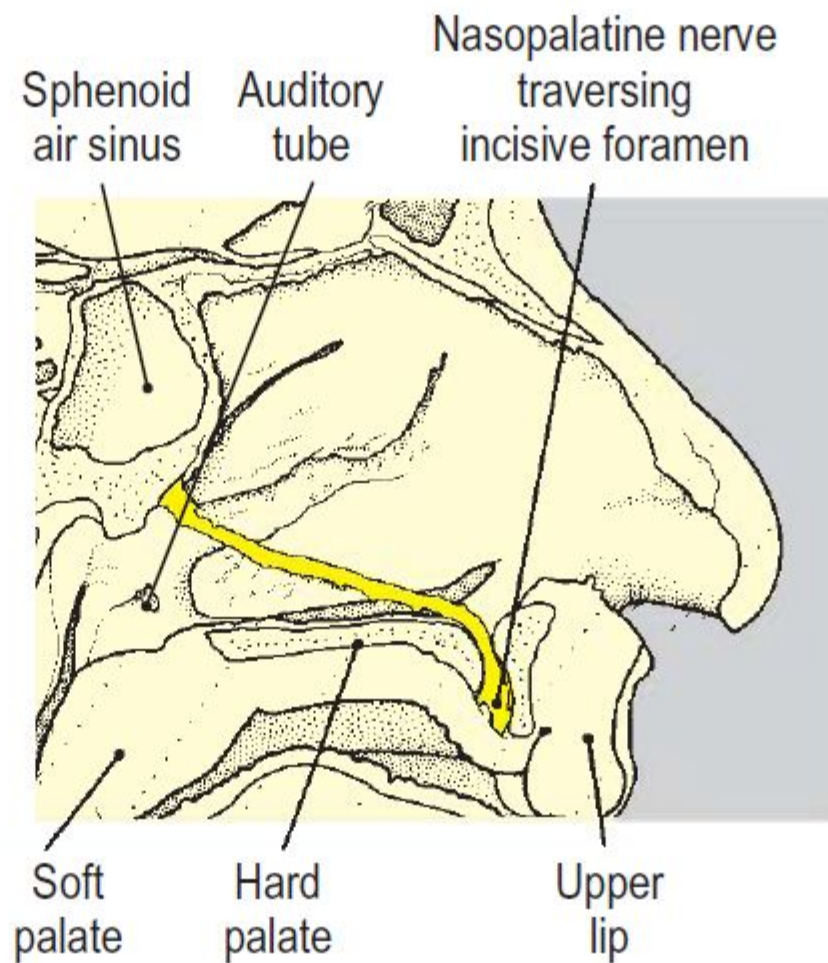


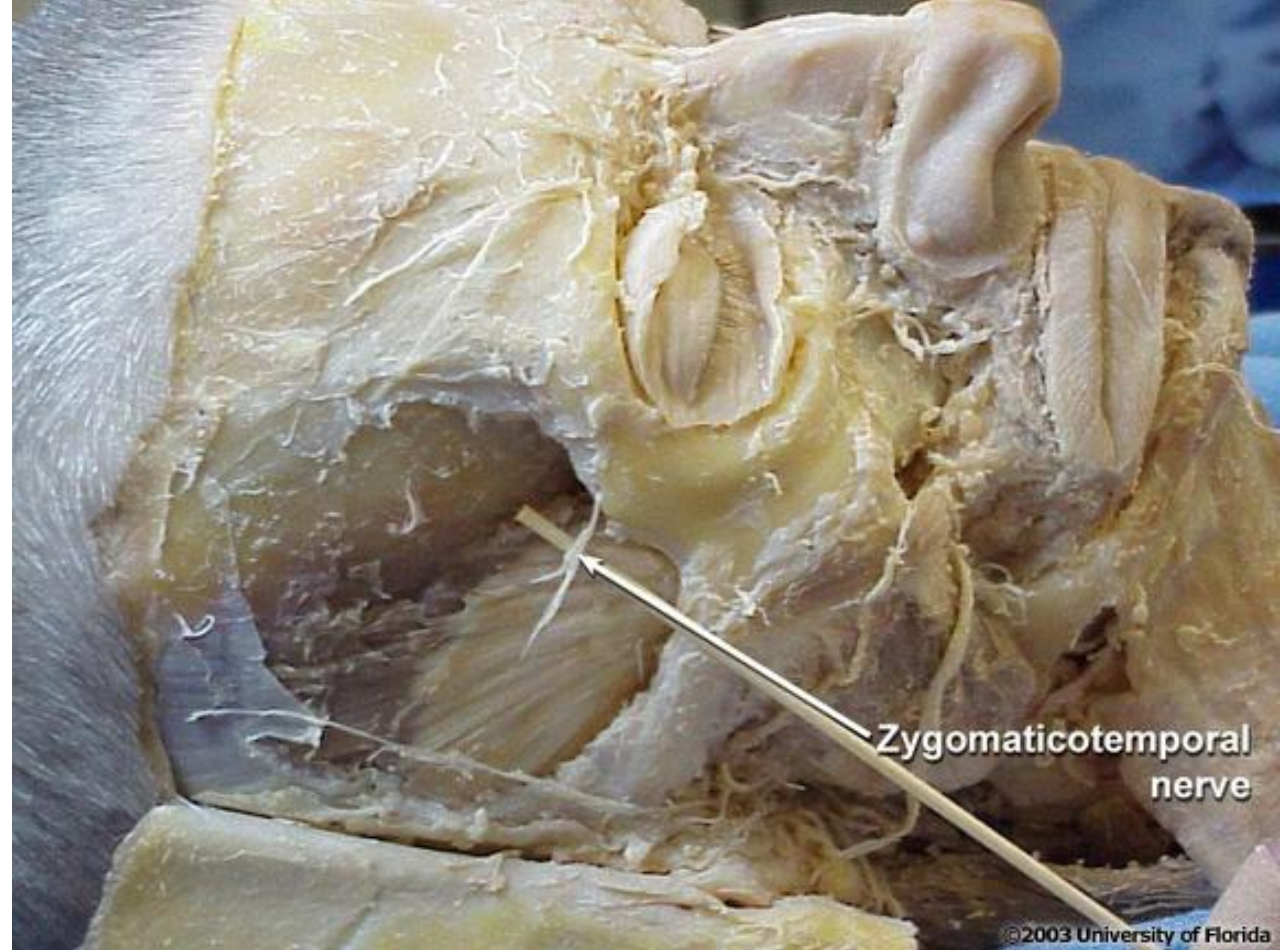
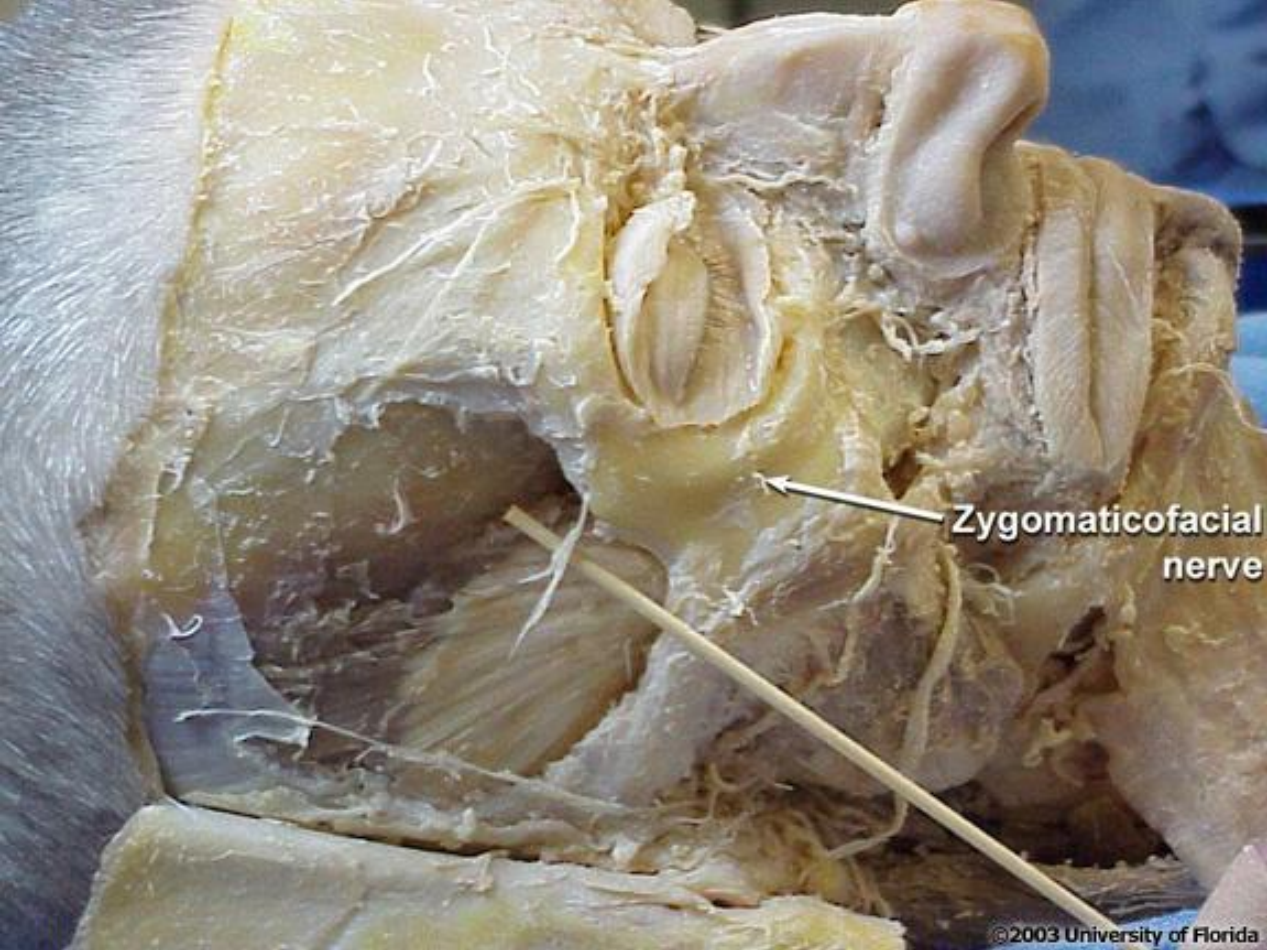
Pharyngeal branch
Pterygo-palatine ganglion
Lesser and greater palatine nerves
Posterior lateral nasal nerve

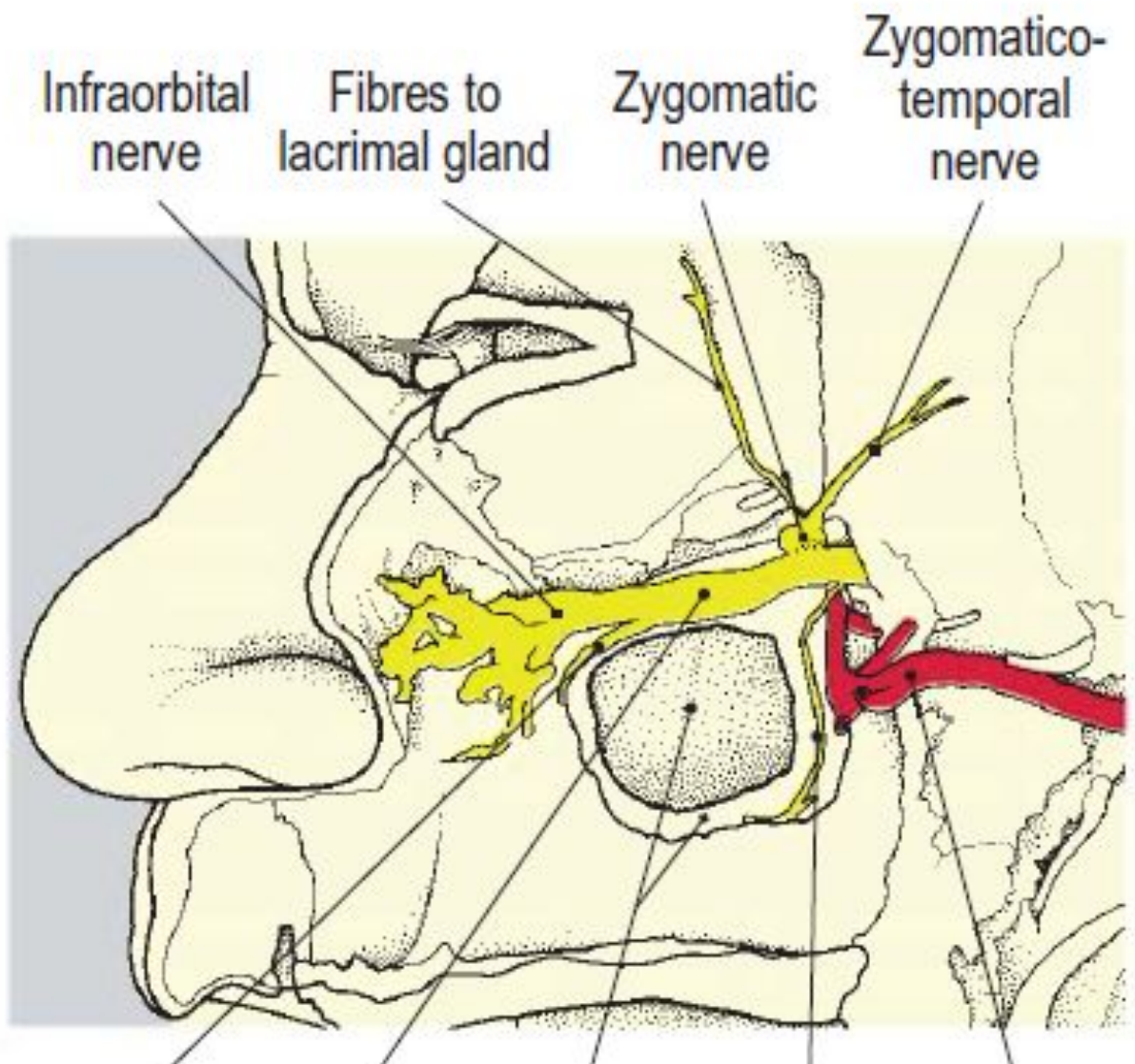
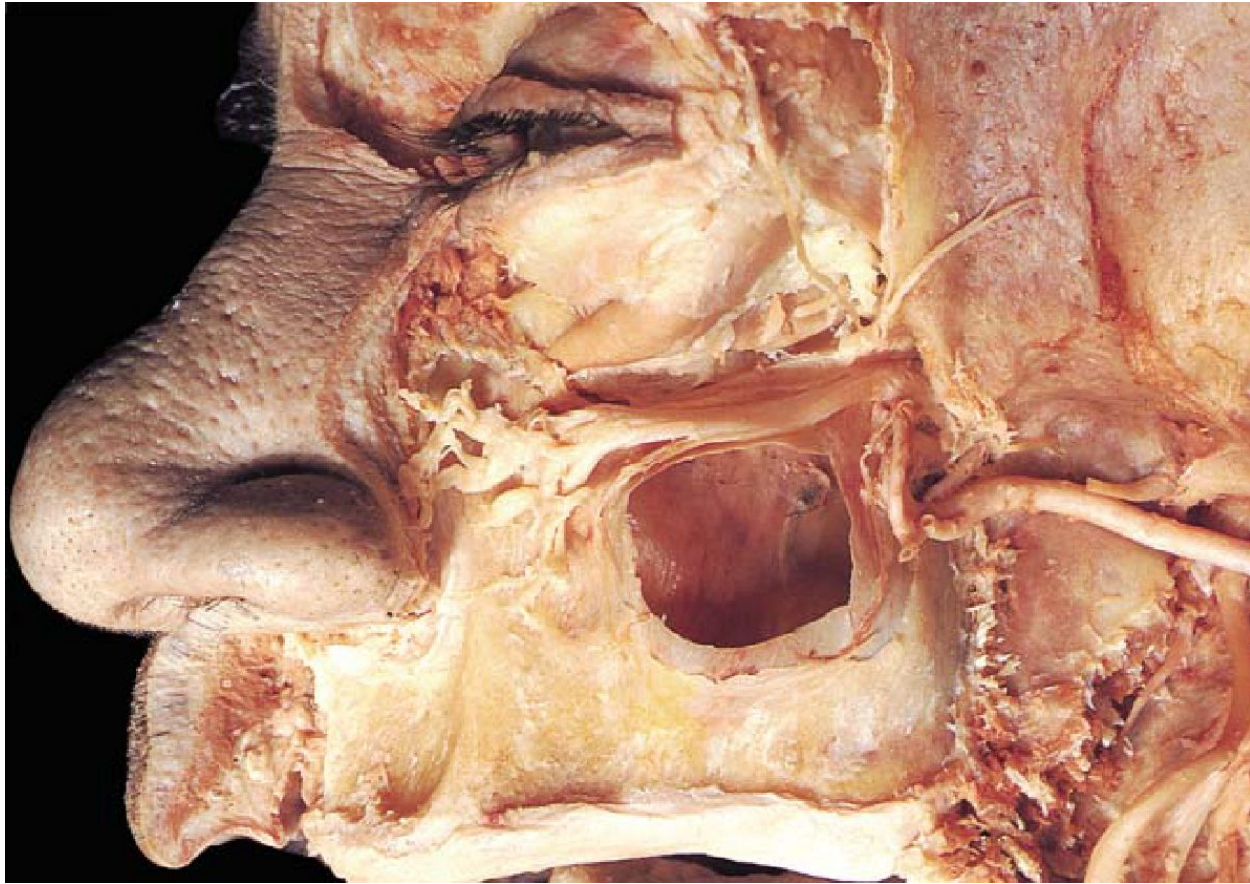
Medial view of the contents of the pterygopalatine fossa



nasopalatine nerve



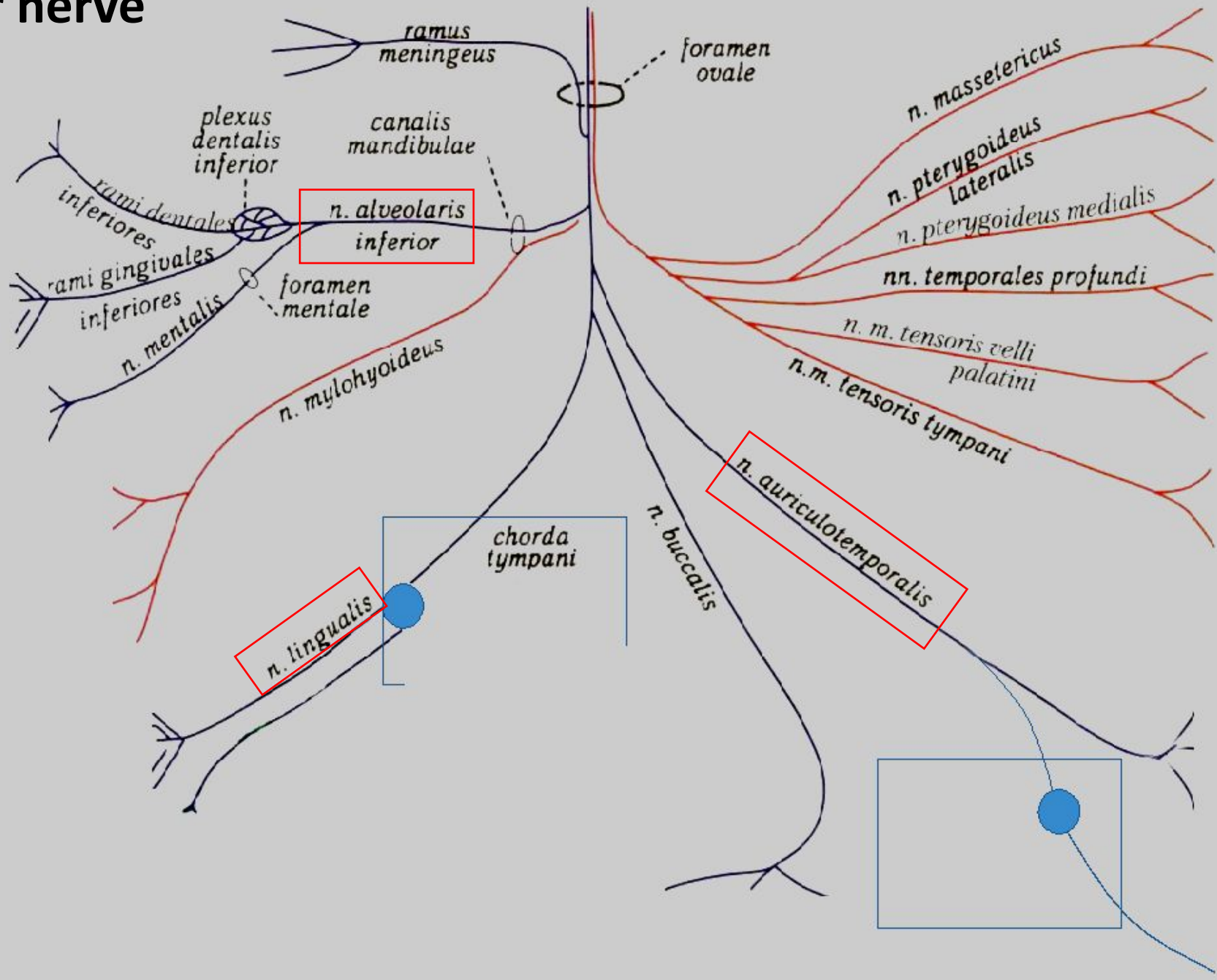


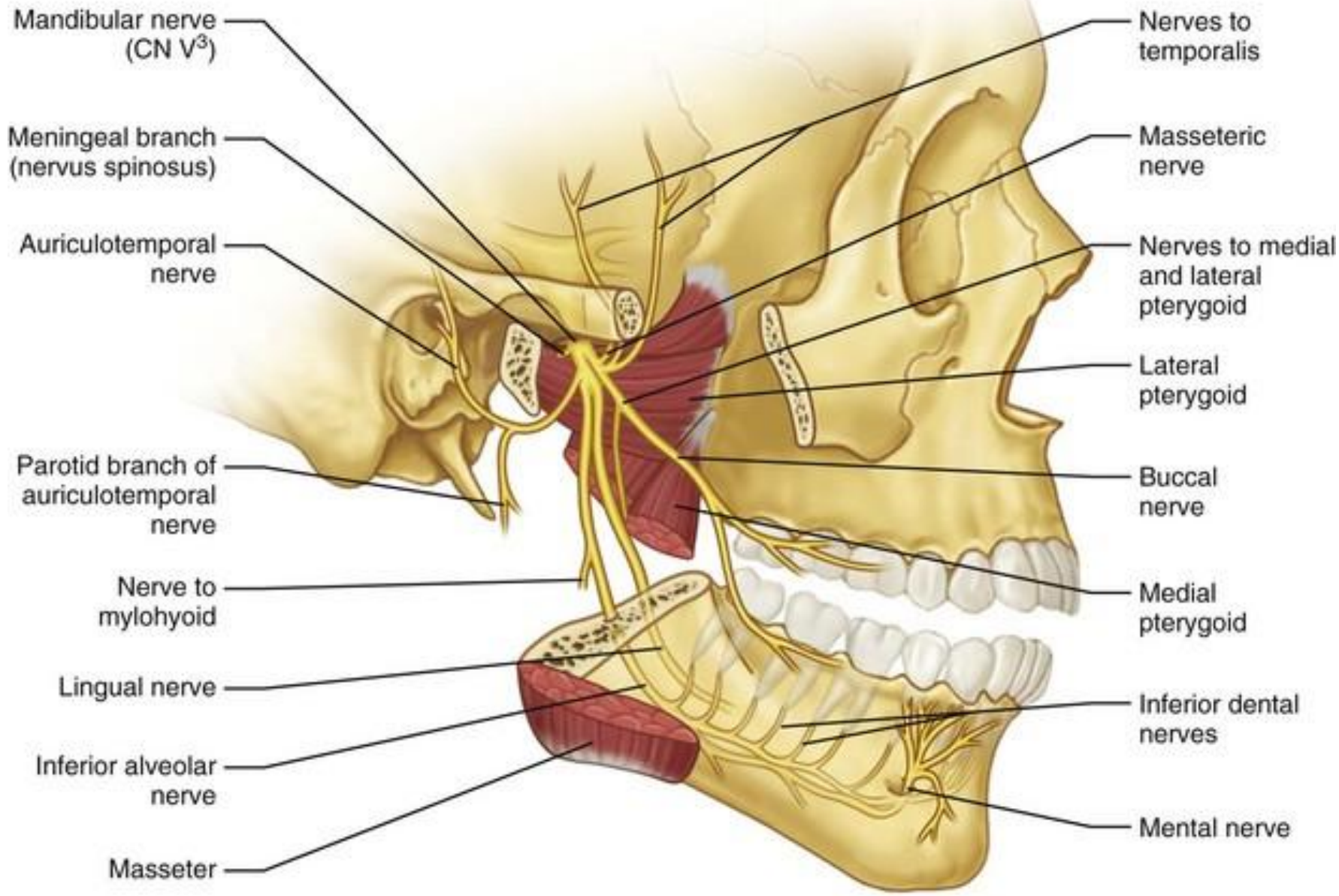


Infraorbital nerve Fibres to lacrimal gland Zygomatic nerve Zygomaticotemporal nerve

Anterior superior alveolar nerve Maxillary (V₂) division Maxillary air sinus and its mucosa Posterior superior alveolar nerve Maxillary artery

mandibulär nerve





1. The buccal nerve (n. buccalis)
2. The lingual nerve (n. lingualis)
3. The inferior dental nerve (n. alveolaris inferior)
4. The auriculotemporal nerve (n. auriculotemporalis)

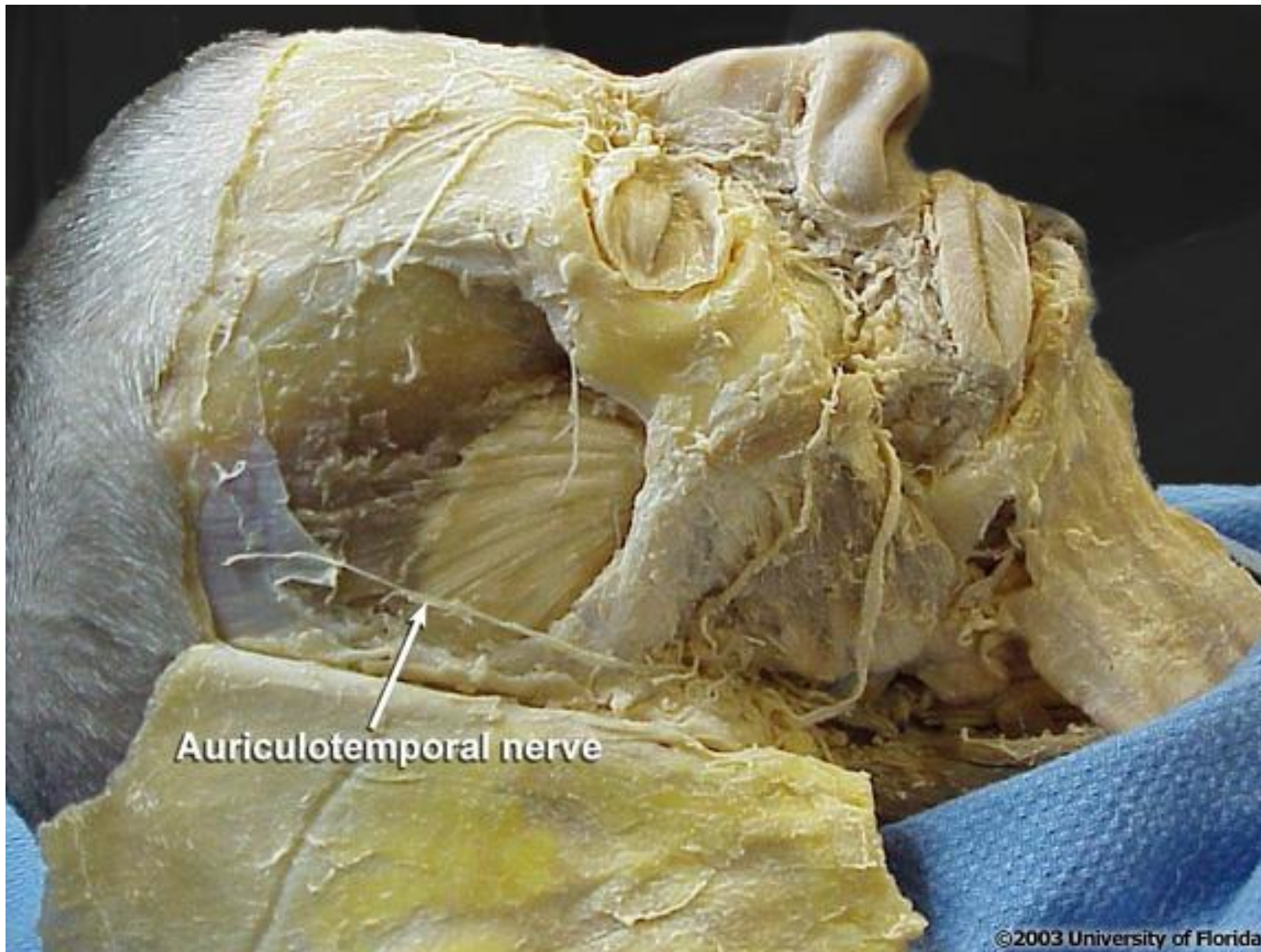
Muscle branches for innervation chewing muscles .

Buccal Nerve

- contains sensory fibres
the buccal membranes of the mouth (i.e. the cheek)
second and third molar teeth

Inferior Alveolar Nerve

- carries both sensory and motor axons: mylohyoid nerve - mylohyoid and anterior digastric muscles.
- sensory axons enter the mandibular canal - mandibular teeth.
- mental nerve - lower lip and chin



Auriculotemporal Nerve

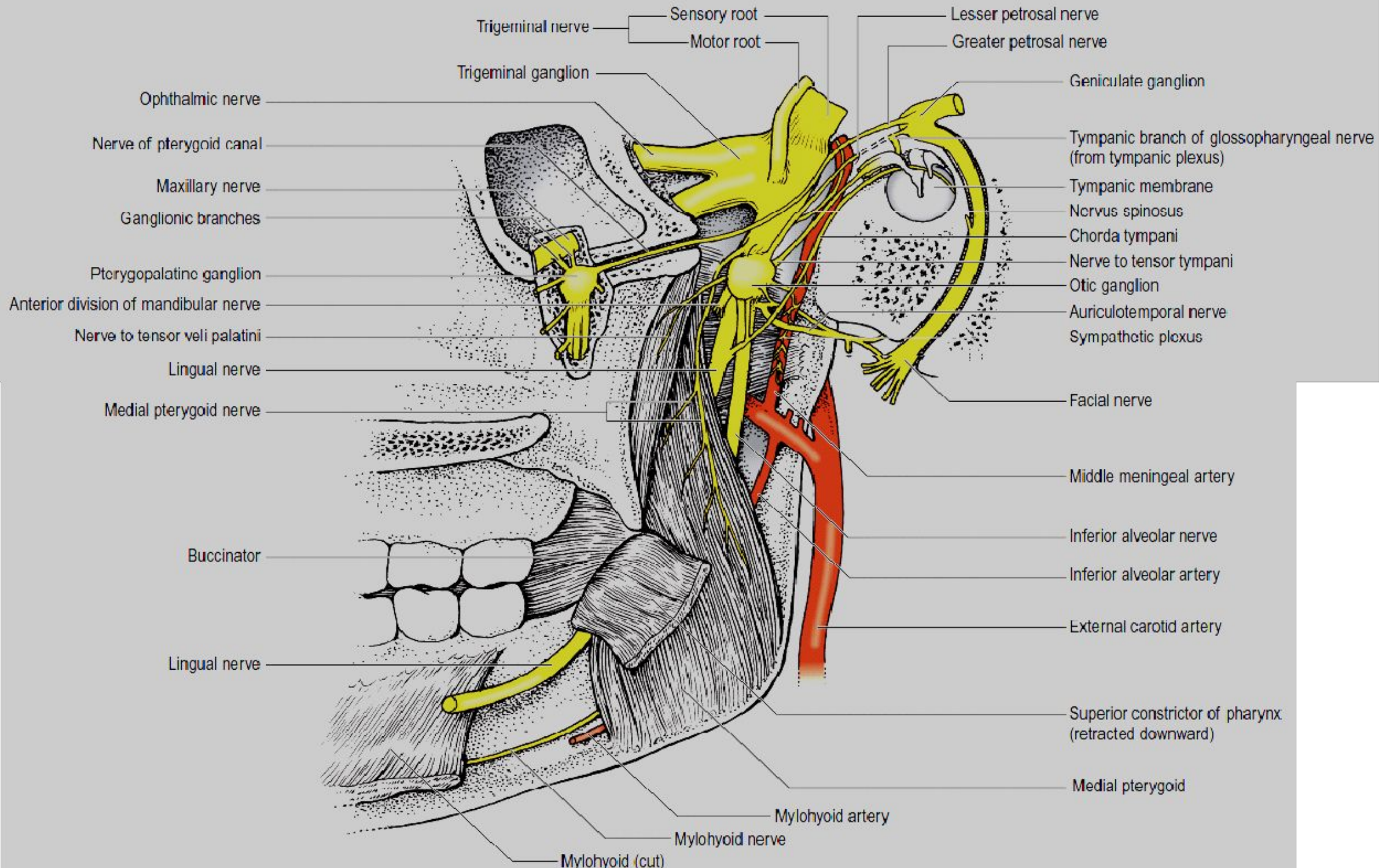
- Superior root – comprises sensory fibers.
- Inferior root – carries secretory-motor parasympathetic fibers, originating from CN IX, to the parotid gland.

Anterior part of the auricle

Lateral part of the temple

Anterior external meatus

Anterior tympanic membrane



Trigeminal nerve — Sensory root
 — Motor root

Lesser petrosal nerve
 Greater petrosal nerve

Trigeminal ganglion

Geniculate ganglion

Ophthalmic nerve

Tympanic branch of glossopharyngeal nerve (from tympanic plexus)

Nerve of pterygoid canal

Tympanic membrane

Maxillary nerve

Nervus spinosus

Ganglionic branches

Chorda tympani

Pterygopalatine ganglion

Nerve to tensor tympani

Anterior division of mandibular nerve

Otic ganglion

Nerve to tensor veli palatini

Auriculotemporal nerve
 Sympathetic plexus

Lingual nerve

Facial nerve

Medial pterygoid nerve

Middle meningeal artery

Buccinator

Inferior alveolar nerve

Inferior alveolar artery

Lingual nerve

External carotid artery

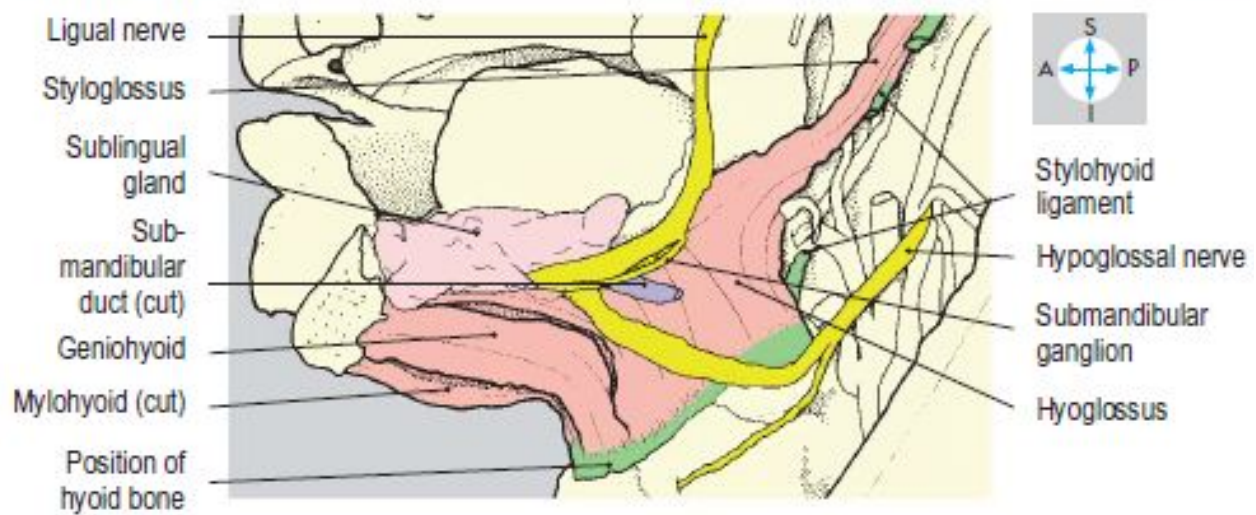
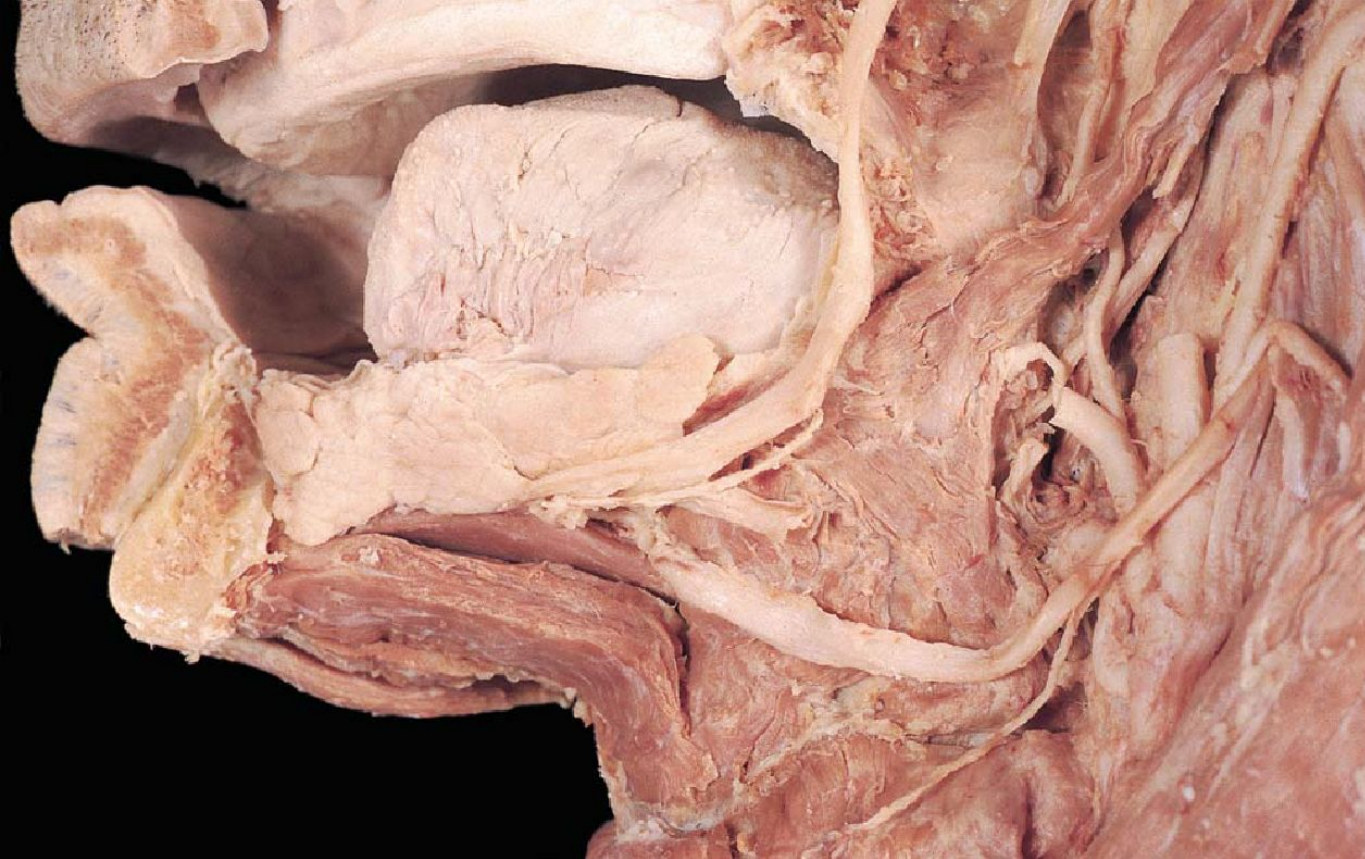
Superior constrictor of pharynx (retracted downward)

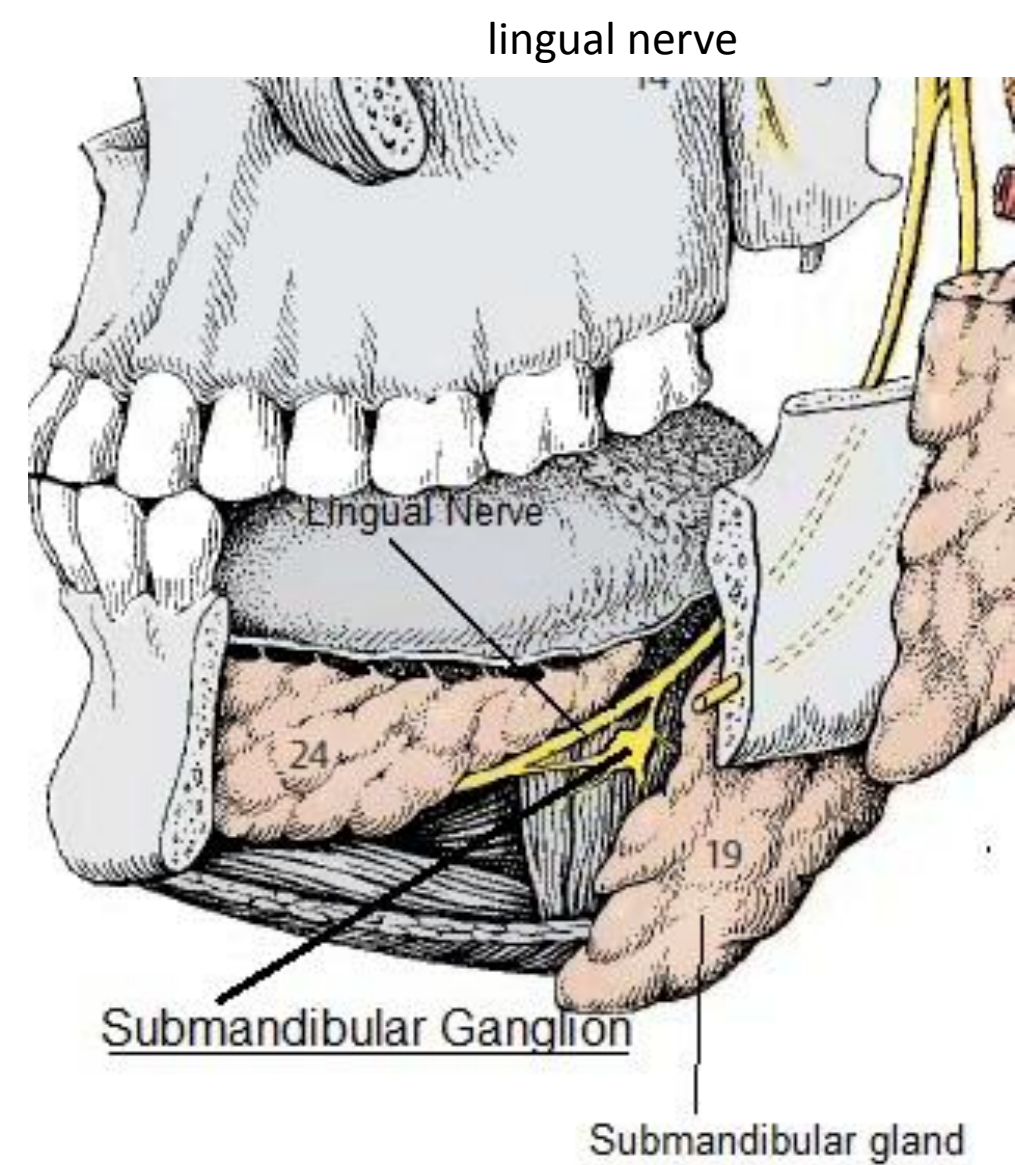
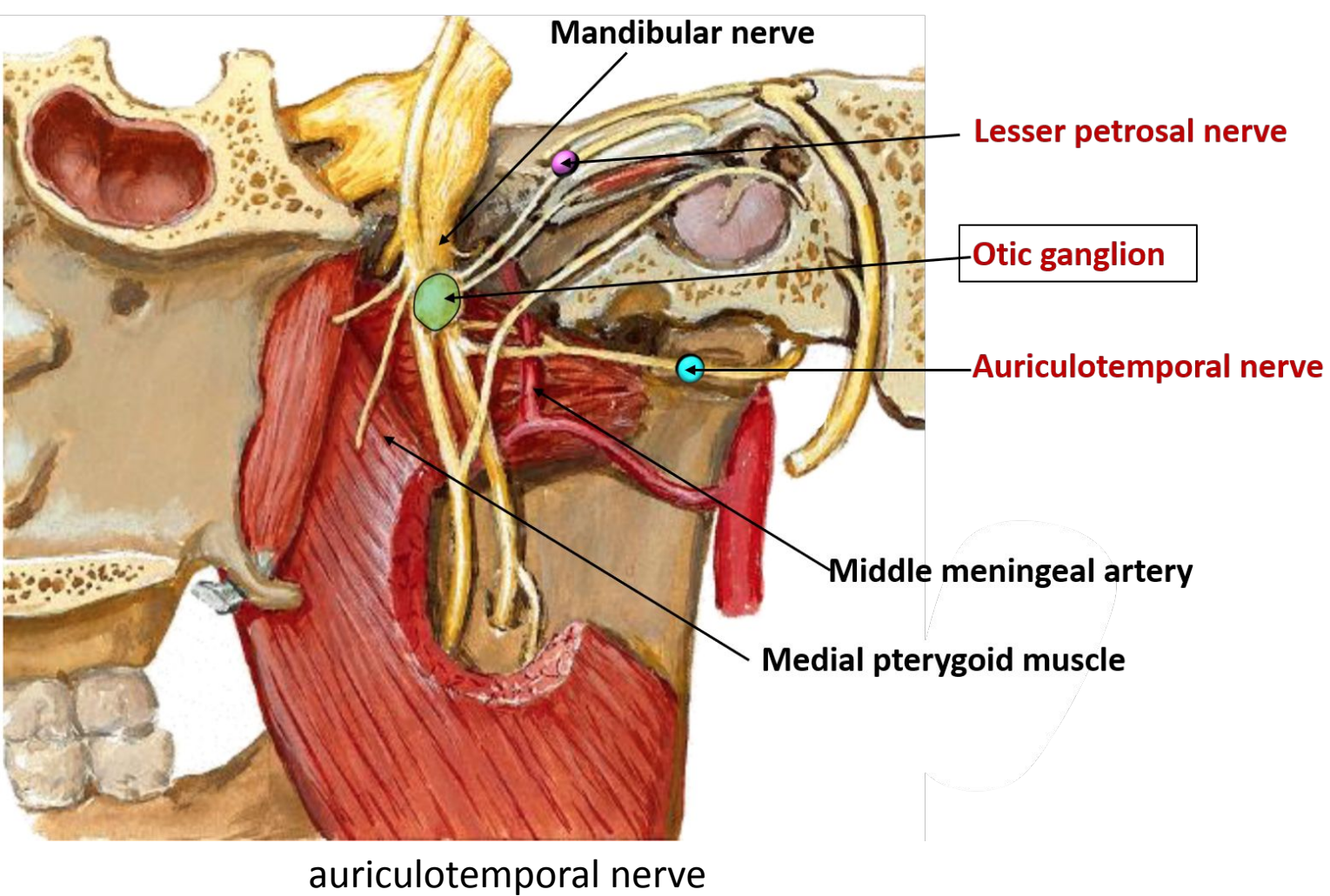
Medial pterygoid

Mylohyoid artery

Mylohyoid nerve

Mylohyoid (cut)





Lingual Nerve

- carries general sensory axons + special sensory and autonomic fibers (chorda tympani (CN VII)) – tactile, pain and temperature of tongue + 2/3 anterior taste and mucus membrane lining its undersides.
- autonomic fibers branch - submandibular ganglion (submandibular and sublingual glands).

**MIDDLE
EAR**

**OTIC
GANGLION**



**RAMUS COMMUNICANS OF
OTIC GANGLION
FOR CHORDA TYMPANI
NERVE**

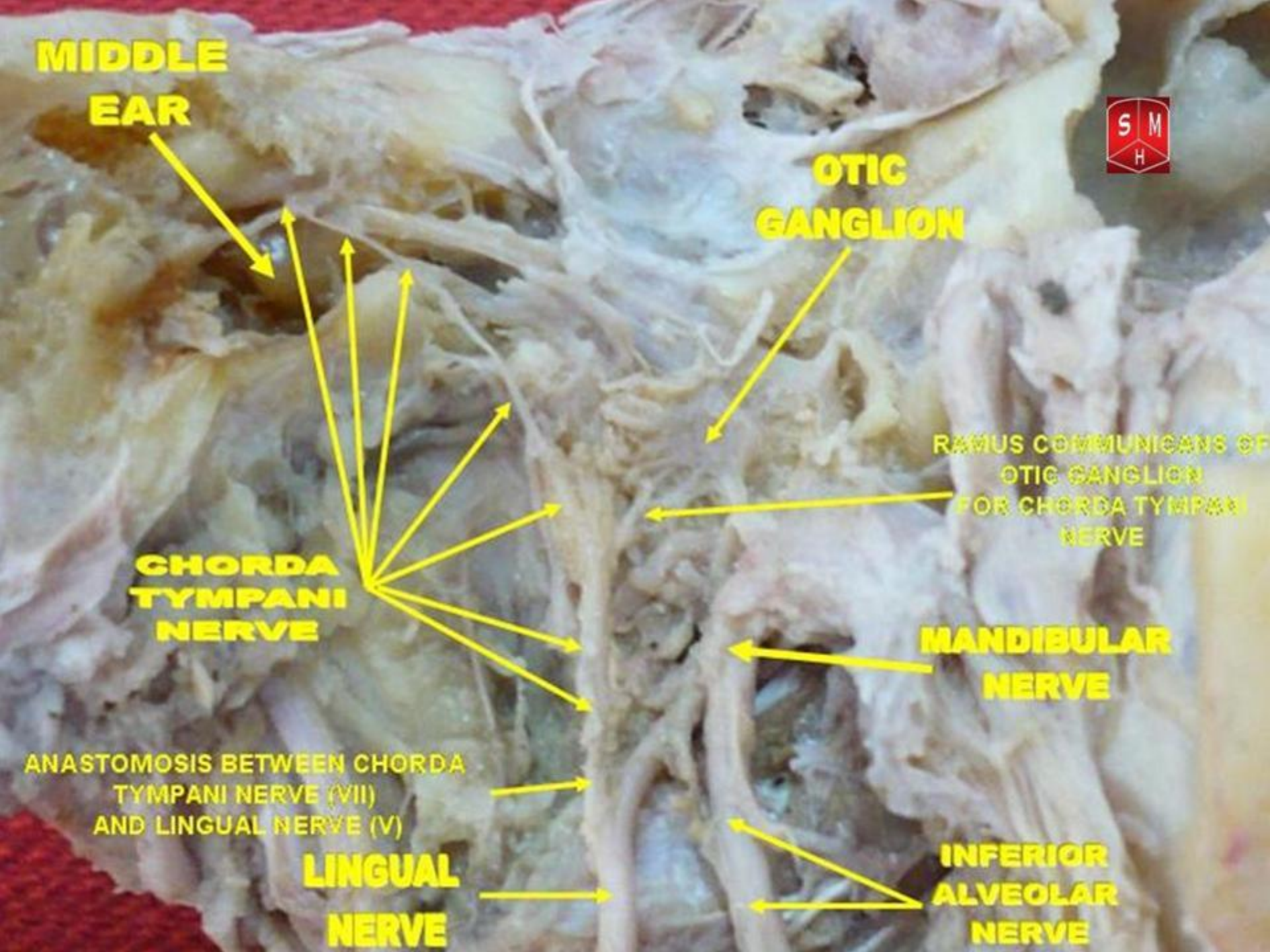
**CHORDA
TYMPANI
NERVE**

**MANDIBULAR
NERVE**

**ANASTOMOSIS BETWEEN CHORDA
TYMPANI NERVE (VII)
AND LINGUAL NERVE (V)**

**LINGUAL
NERVE**

**INFERIOR
ALVEOLAR
NERVE**



**SUPERFICIAL
TEMPORAL
ARTERY**

**LATERAL
PTERYGOID
MUSCLE**

**MAXILLARY
ARTERY**

**ALVEOLAR
INFERIOR
ARTERY**

**ALVEOLAR
INFERIOR
NERVE**

MANDIBLE

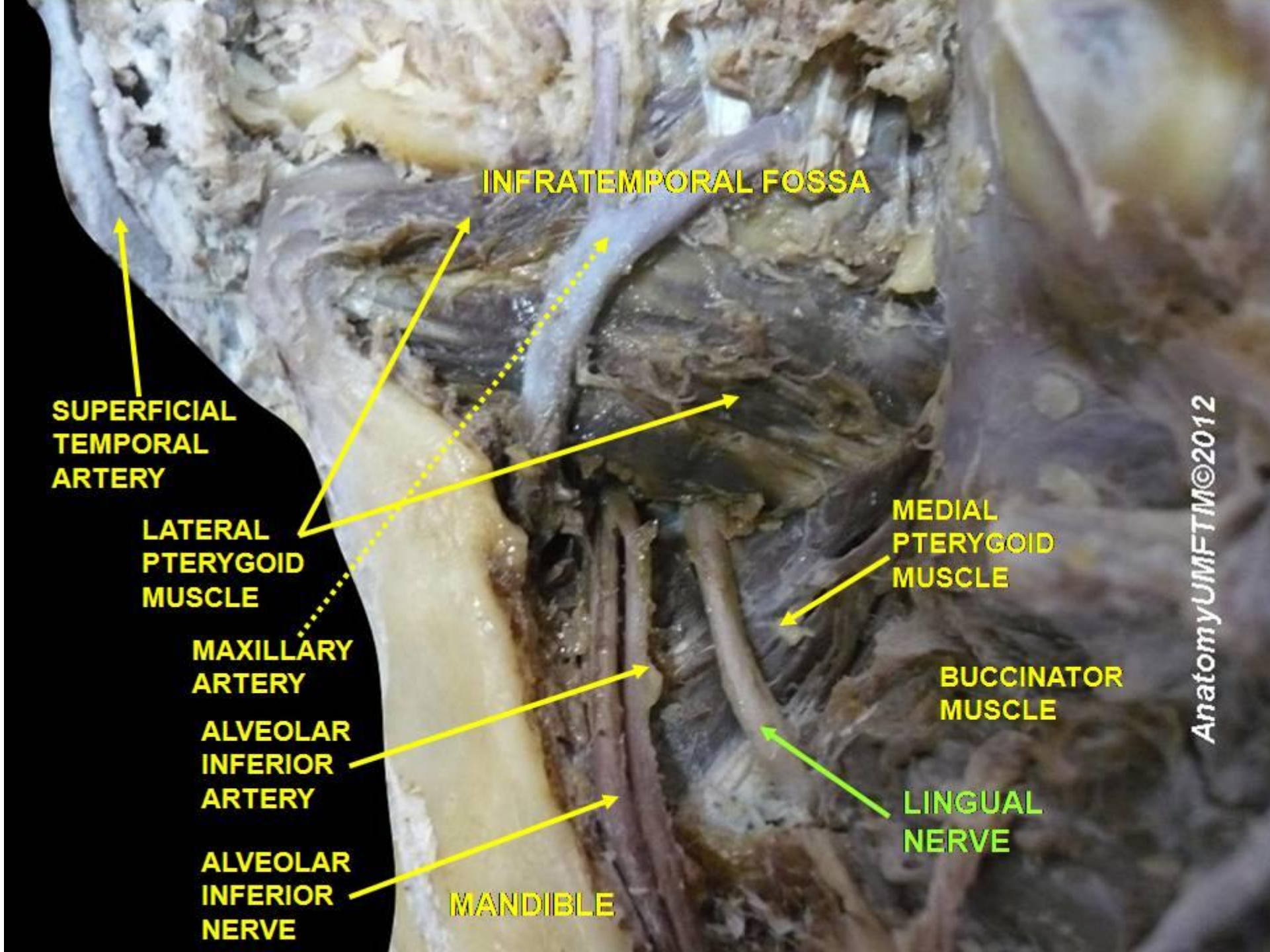
INFRATEMPORAL FOSSA

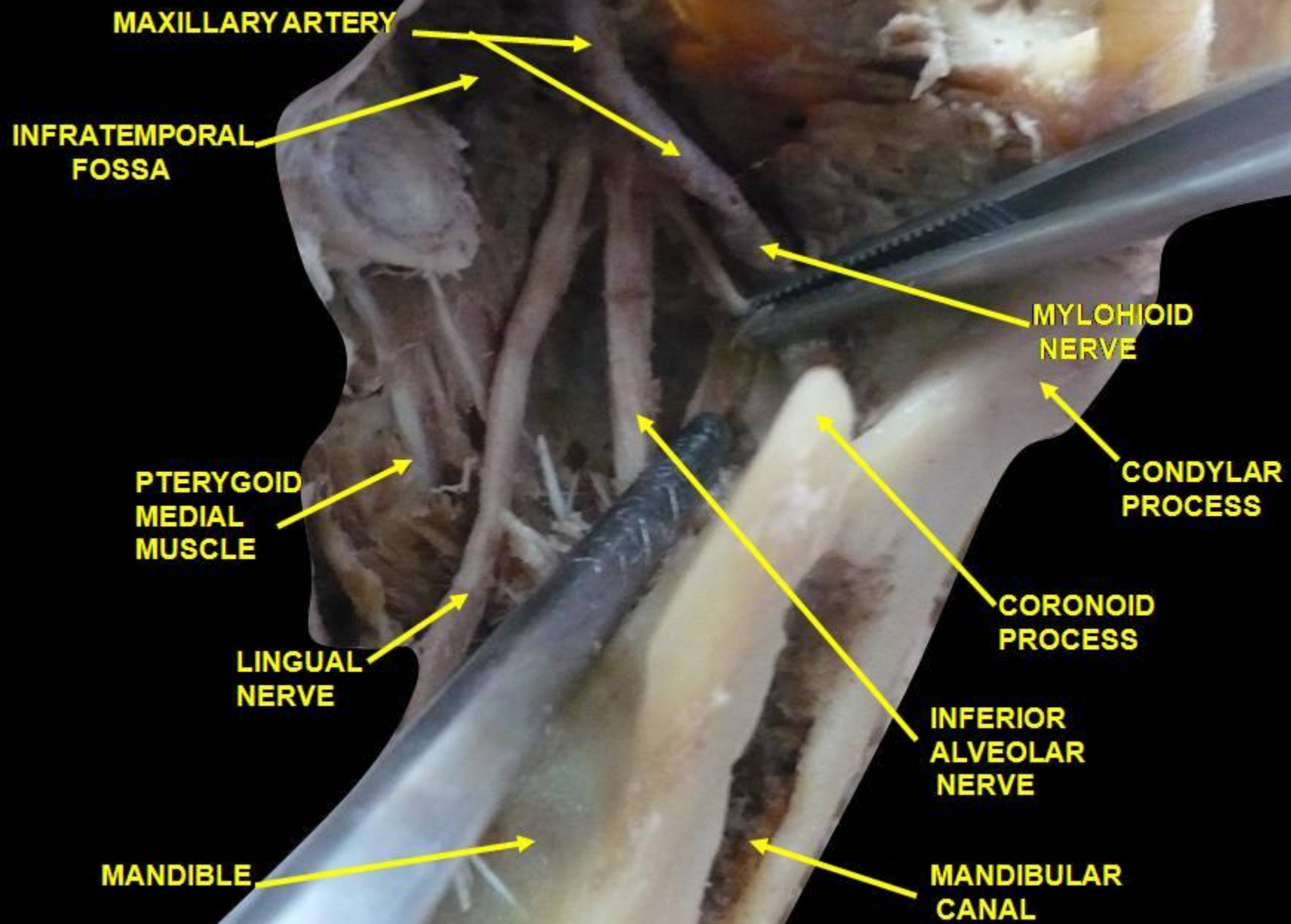
**MEDIAL
PTERYGOID
MUSCLE**

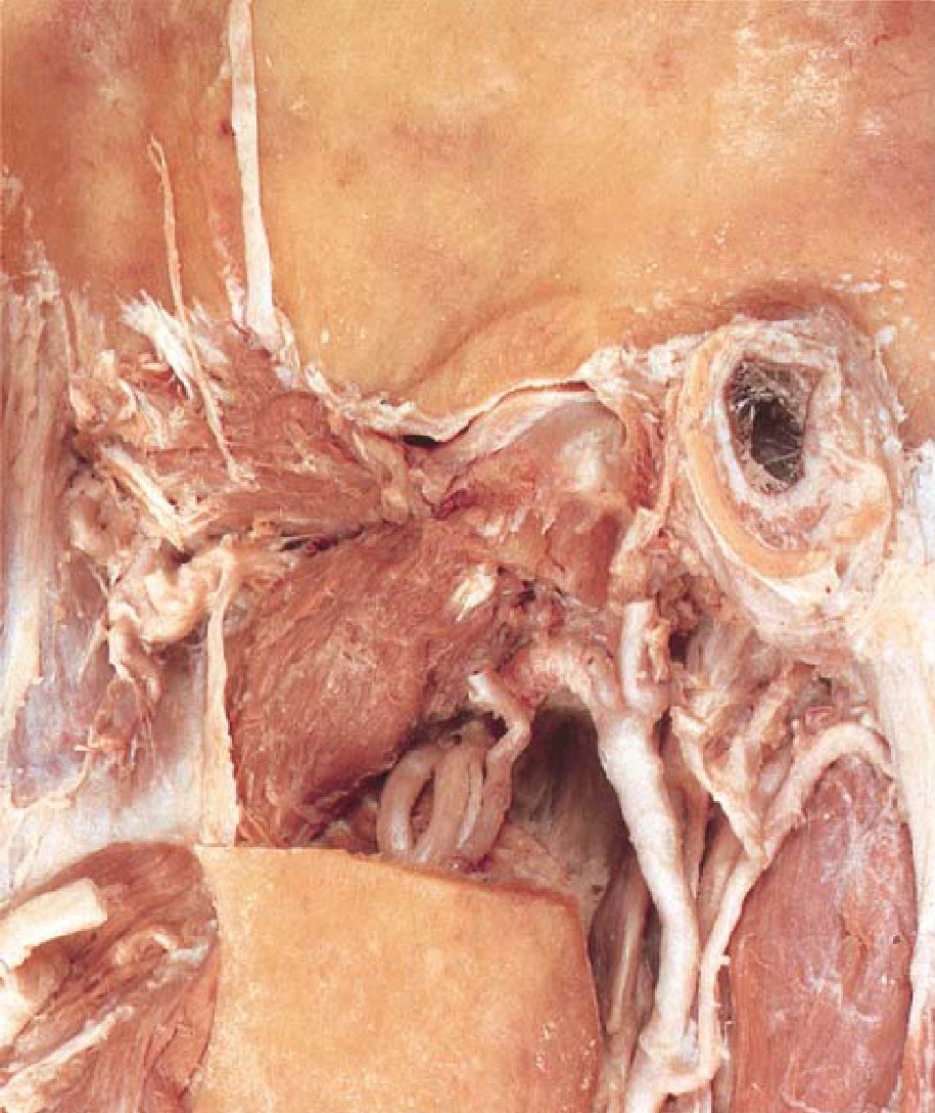
**BUCCINATOR
MUSCLE**

**LINGUAL
NERVE**

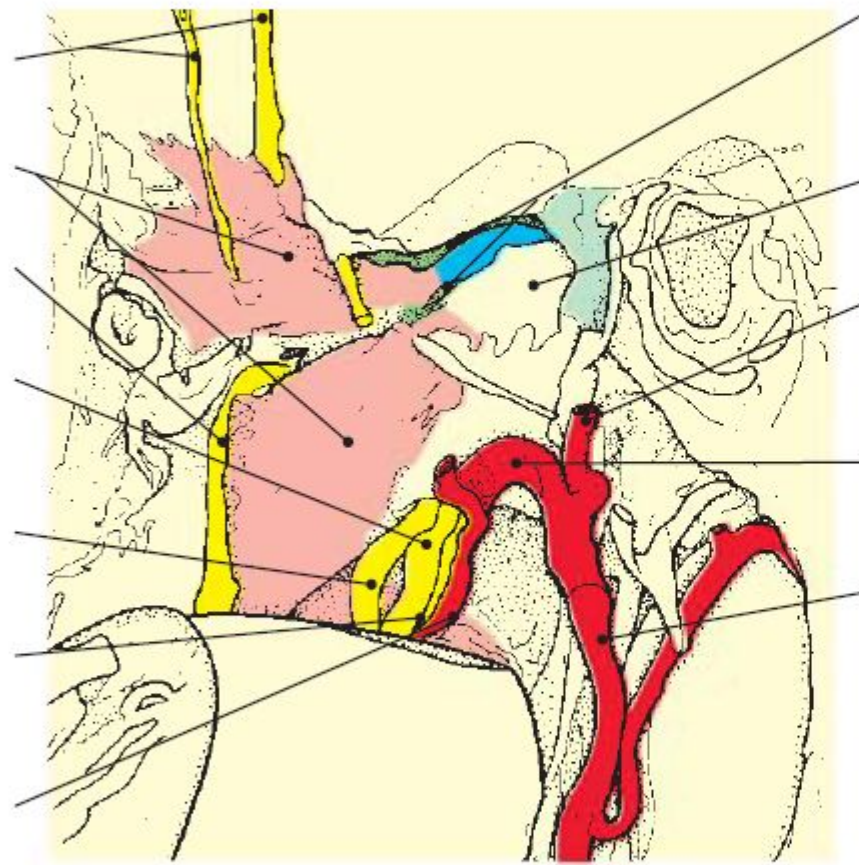
AnatomyUMFTM©2012



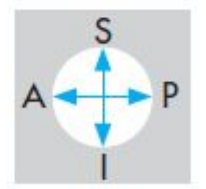


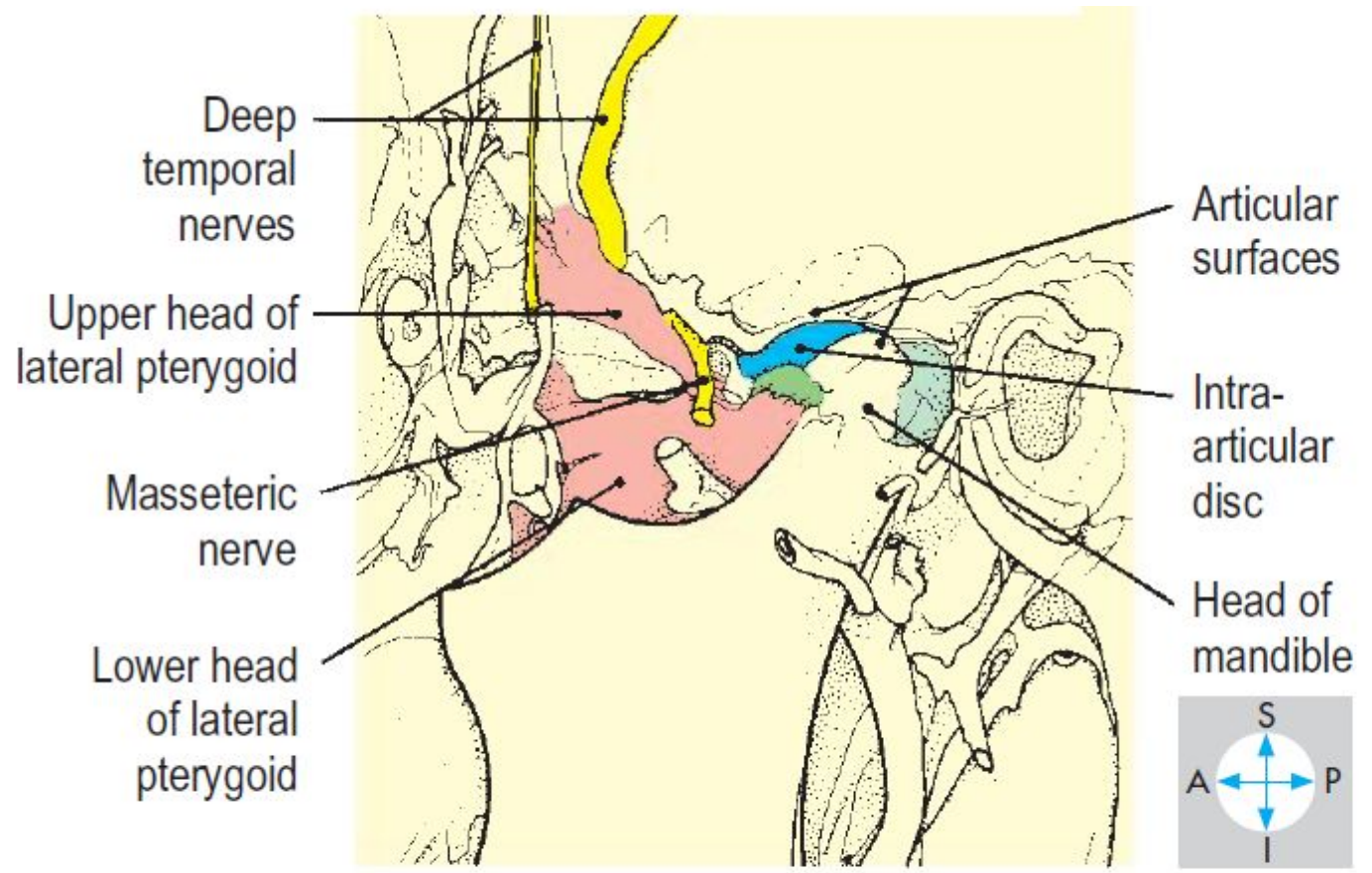
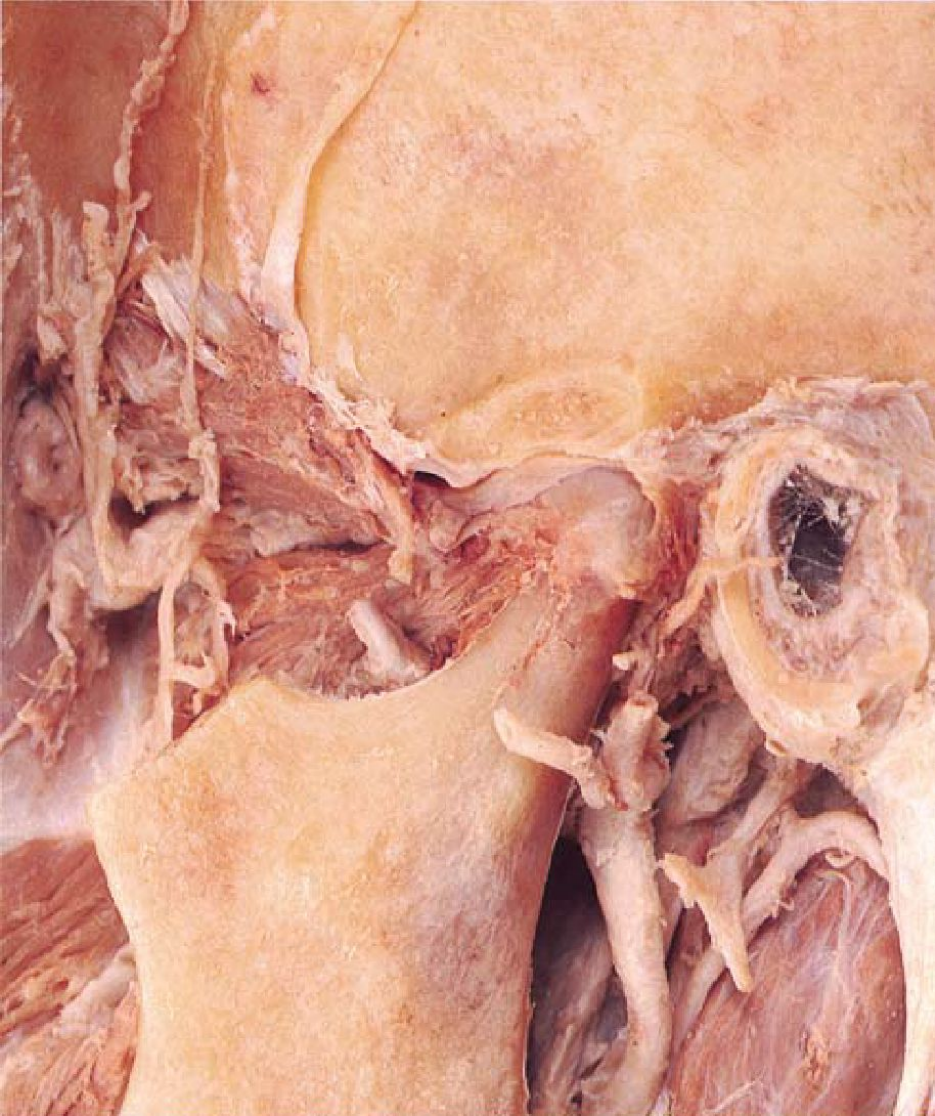


- Deep temporal nerves
- Lateral pterygoid
- Buccal nerve
- Inferior alveolar nerve
- Lingual nerve
- Nerve to mylohyoid
- Inferior alveolar artery

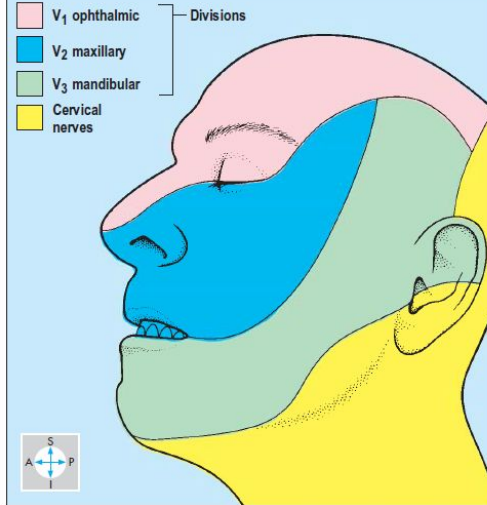
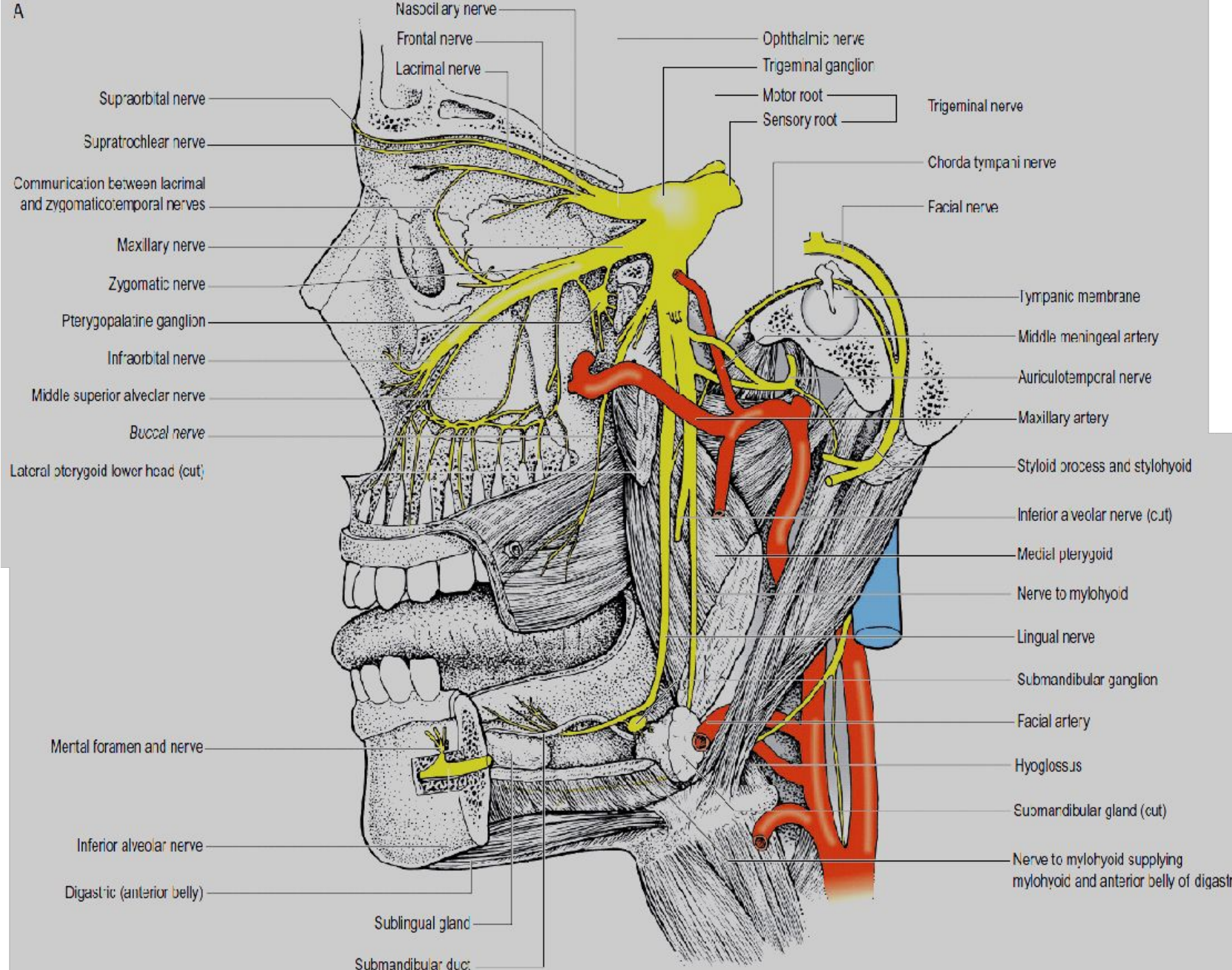


- Upper and lower joint cavities
- Head of mandible
- Superficial temporal artery (cut)
- Maxillary artery
- External carotid artery

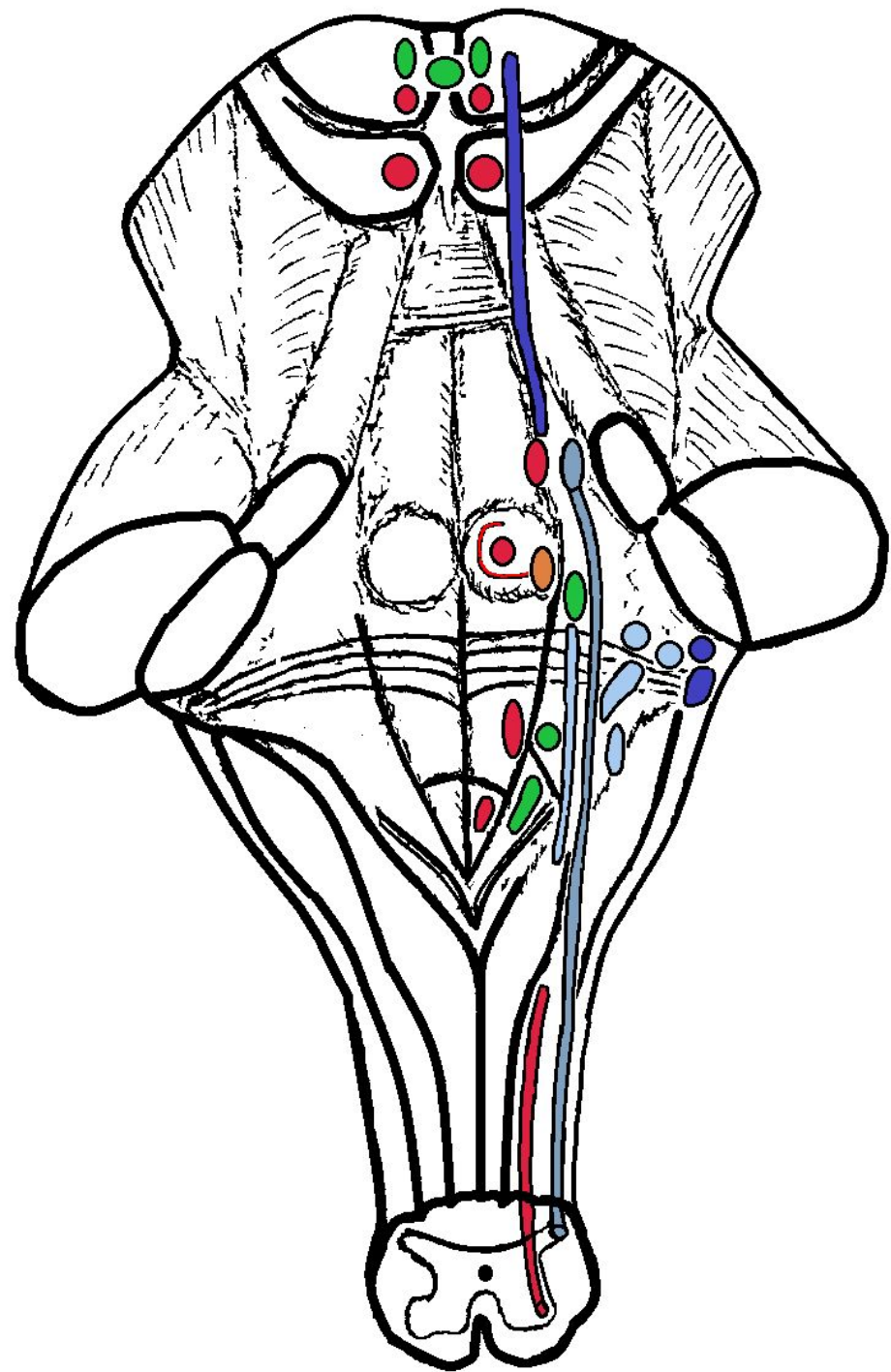




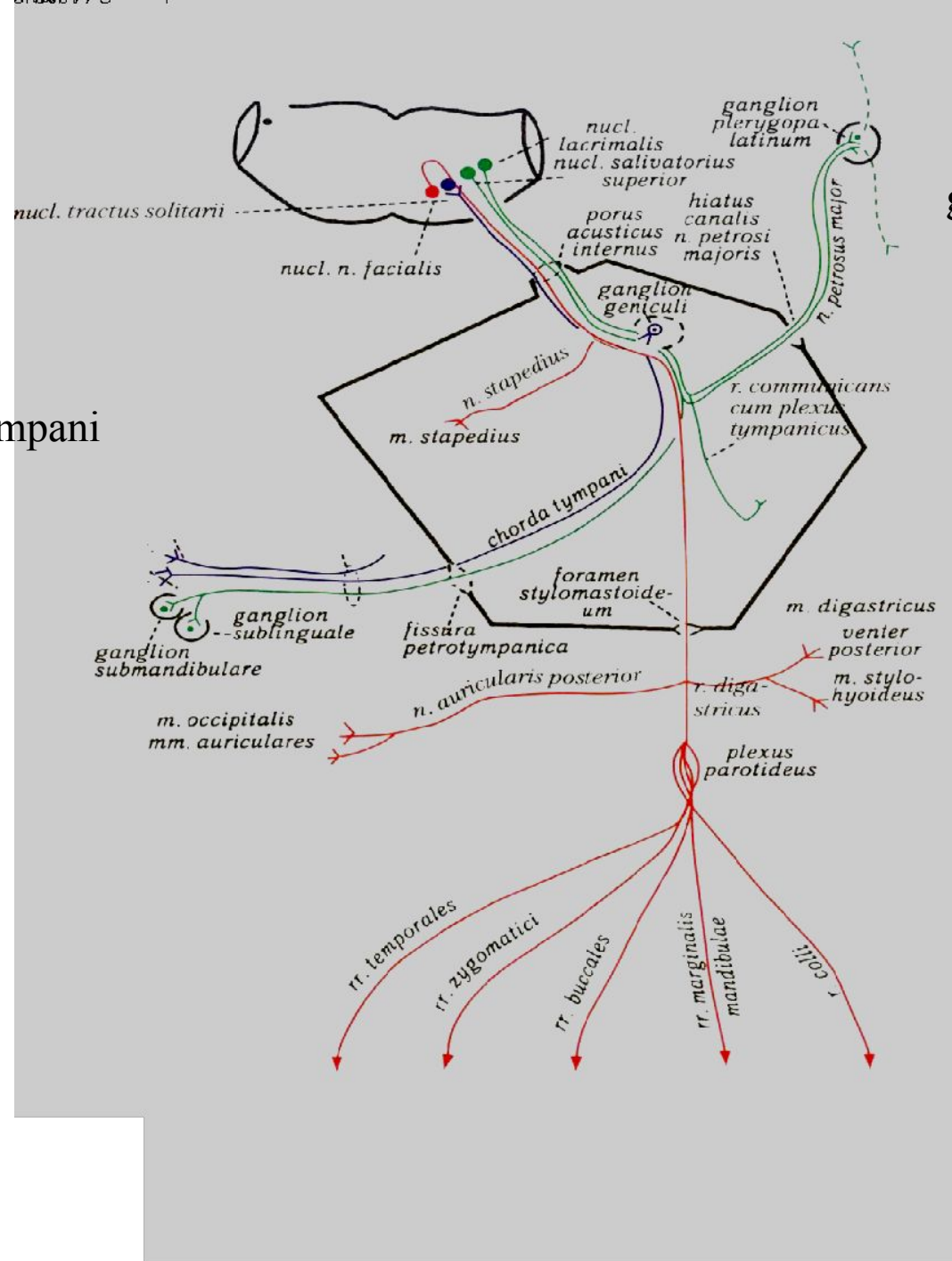
A



- V₁ ophthalmic
 - V₂ maxillary
 - V₃ mandibular
 - Cervical nerves
- Divisions

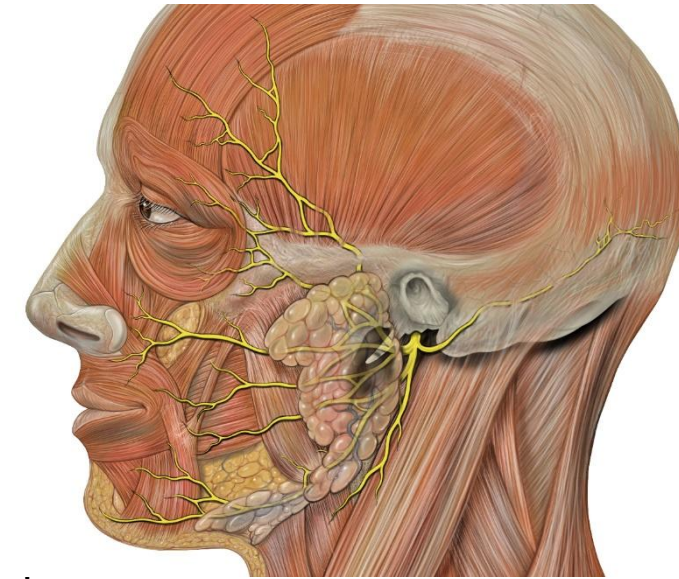


facial nerve

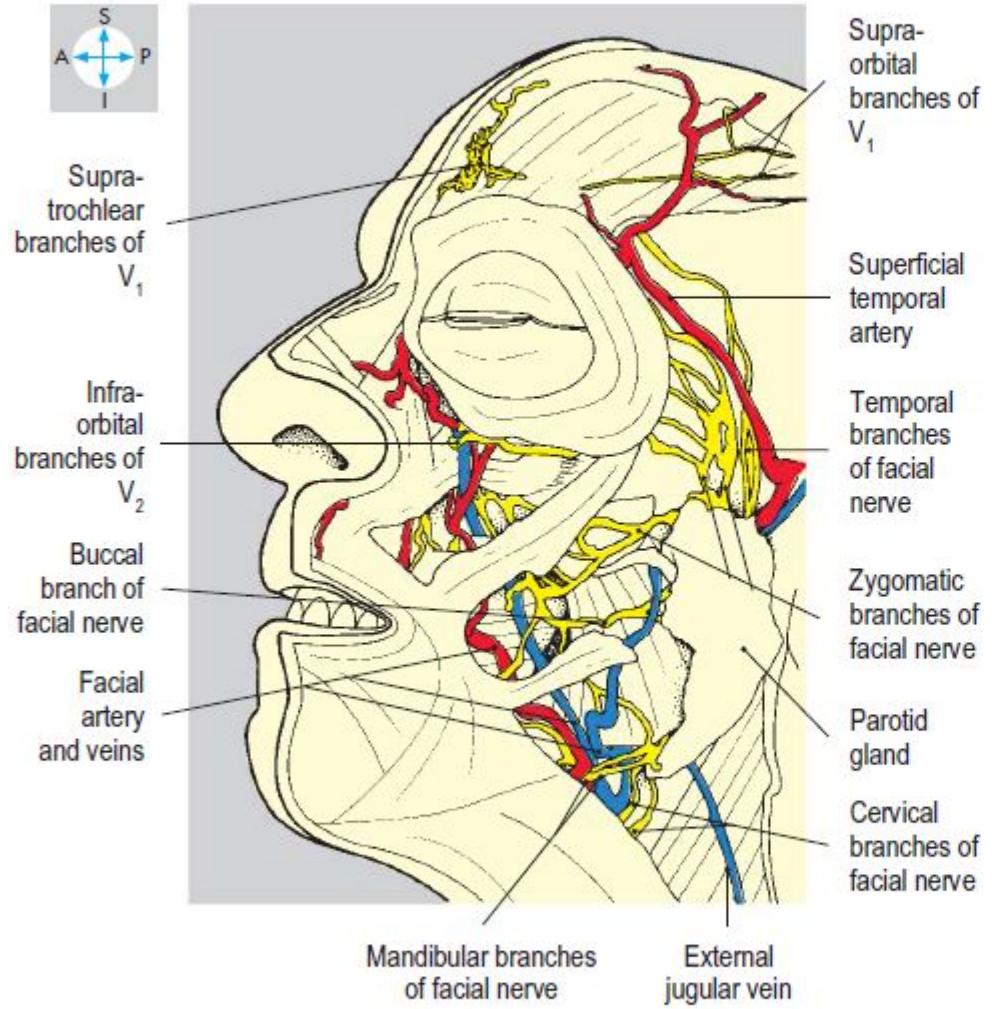
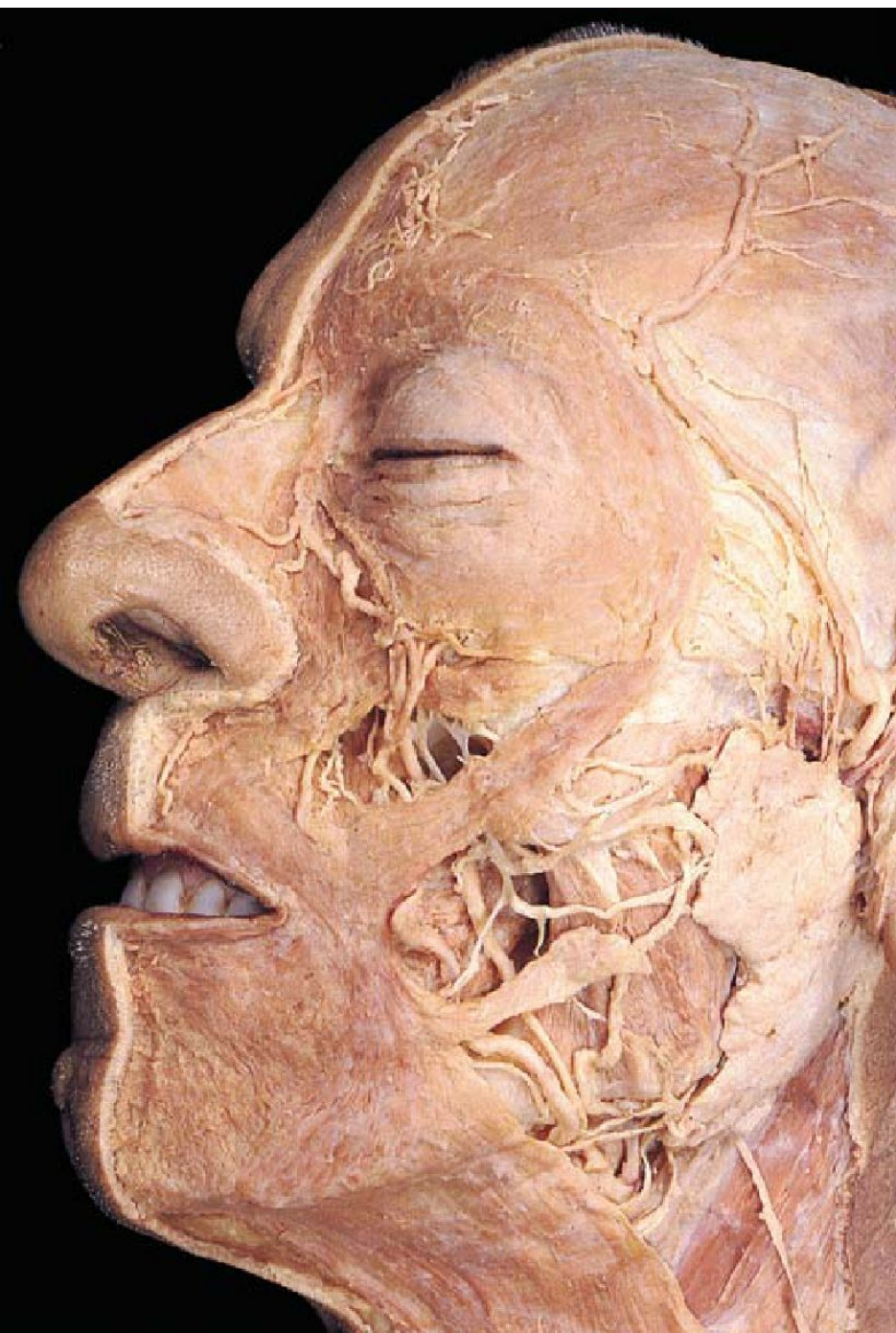


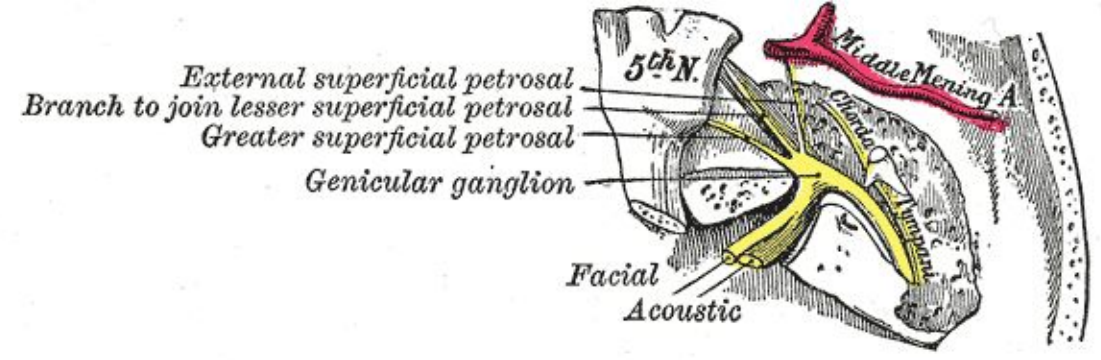
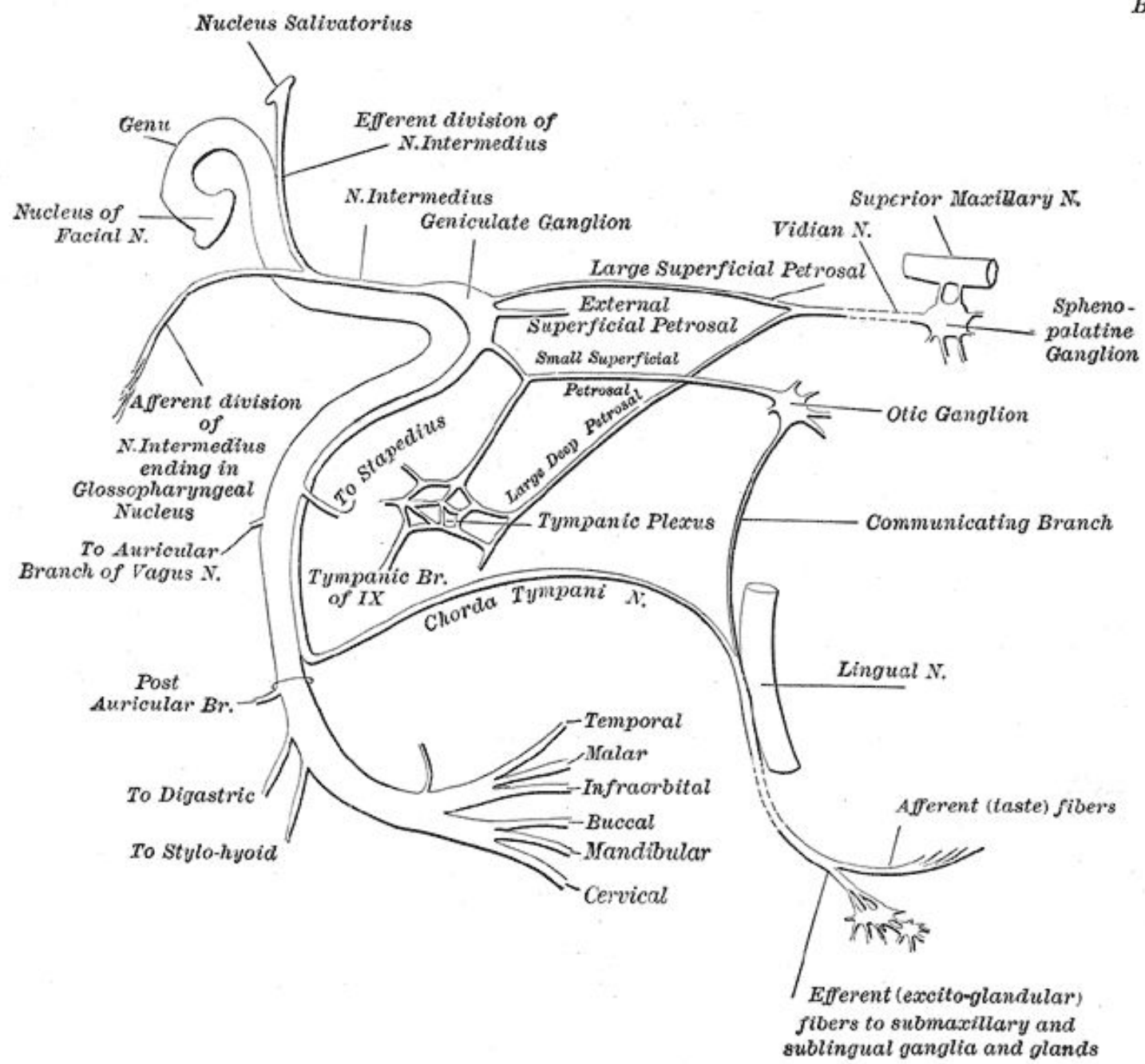
chorda tympani

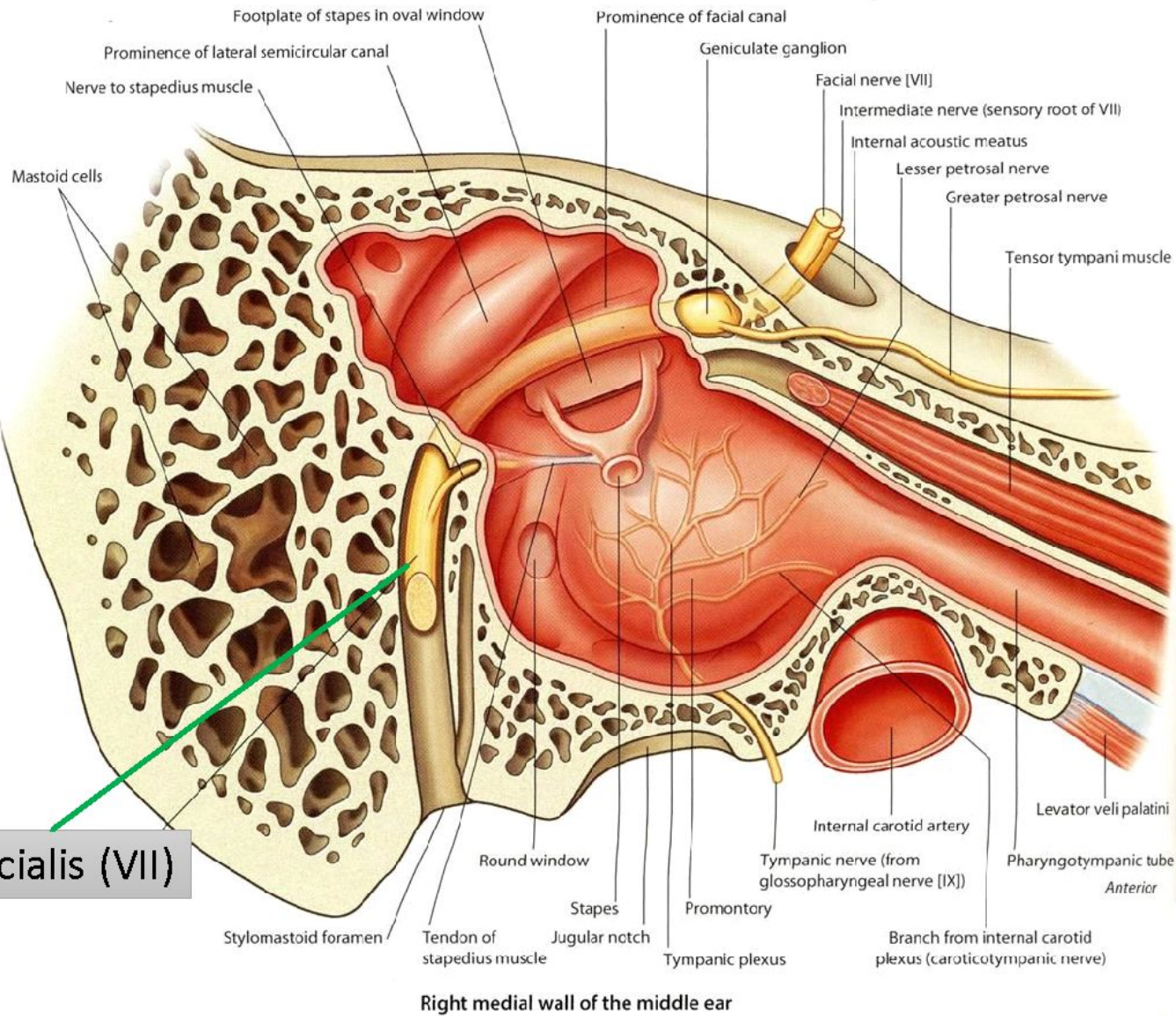
greater petrosal nerve



- n. stapedius
- n. posterior auricular
- digastric branch
- temporal branches
- zygomatic branches
- buccal branches
- mandibular branch
- cervical branch

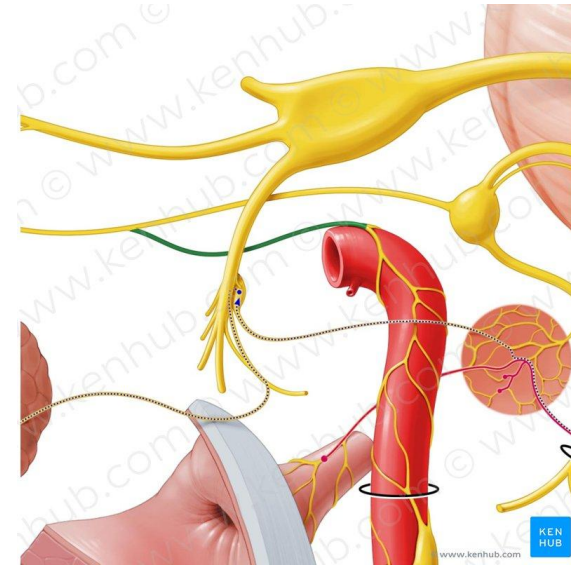
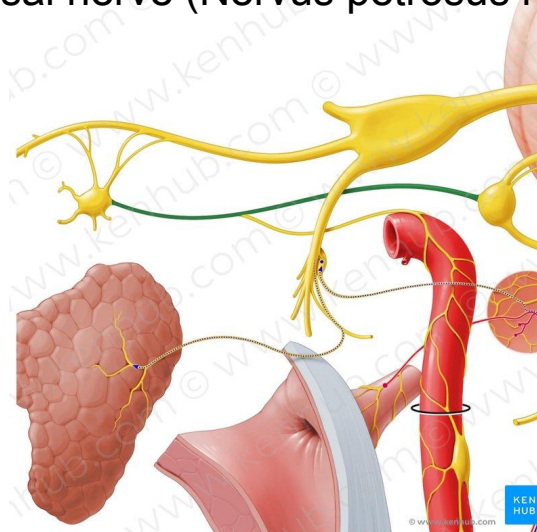
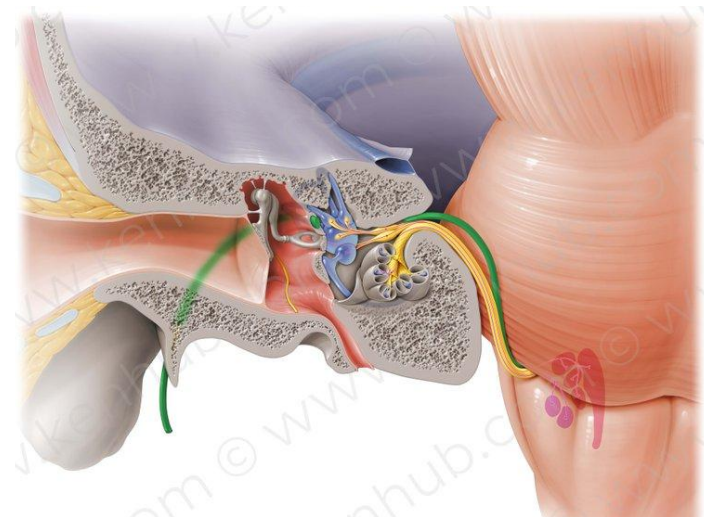




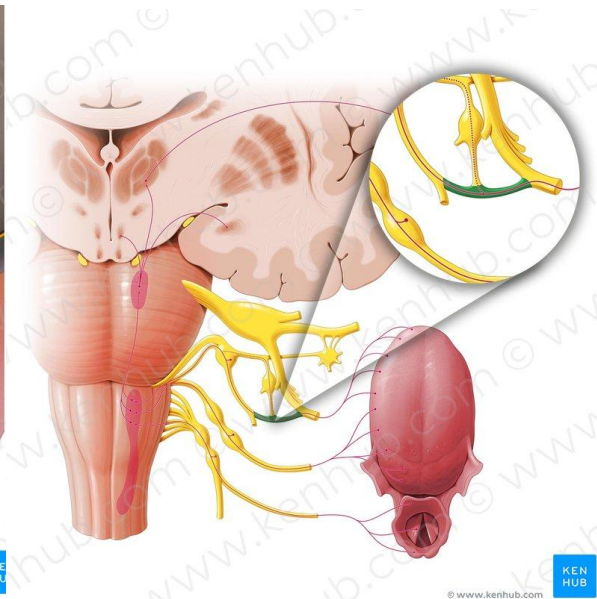
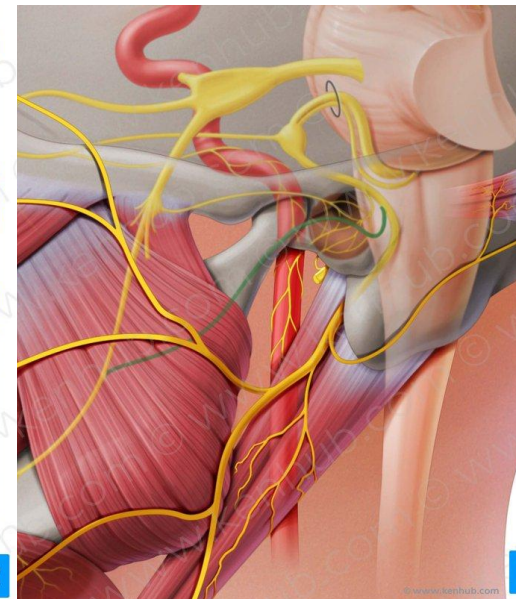
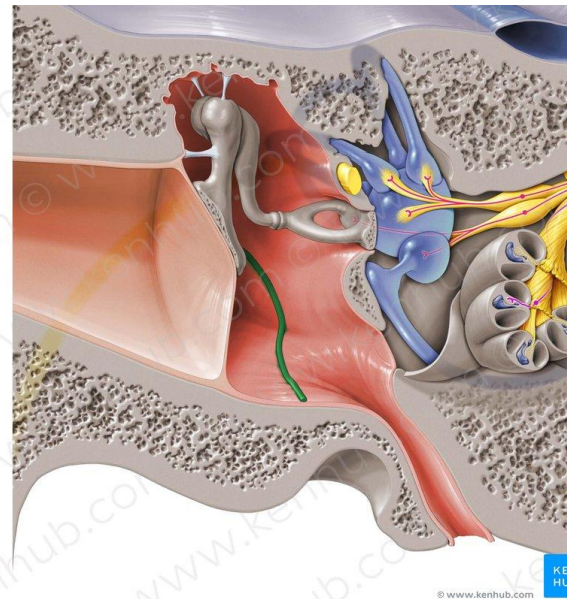
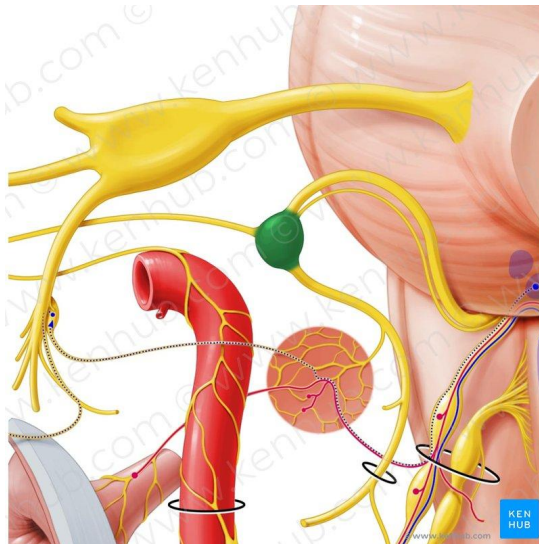


- Intracranial branches
- Greater petrosal nerve
- Communicating branch to the otic ganglion
- Nerve to stapedius
- Chorda tympani
 - Parasympathetic innervation to submandibular gland
 - Parasympathetic innervation to sublingual gland
 - Special sensory taste fibers for the anterior 2/3 of the tongue

Greater petrosal nerve (Nervus petrosus major)



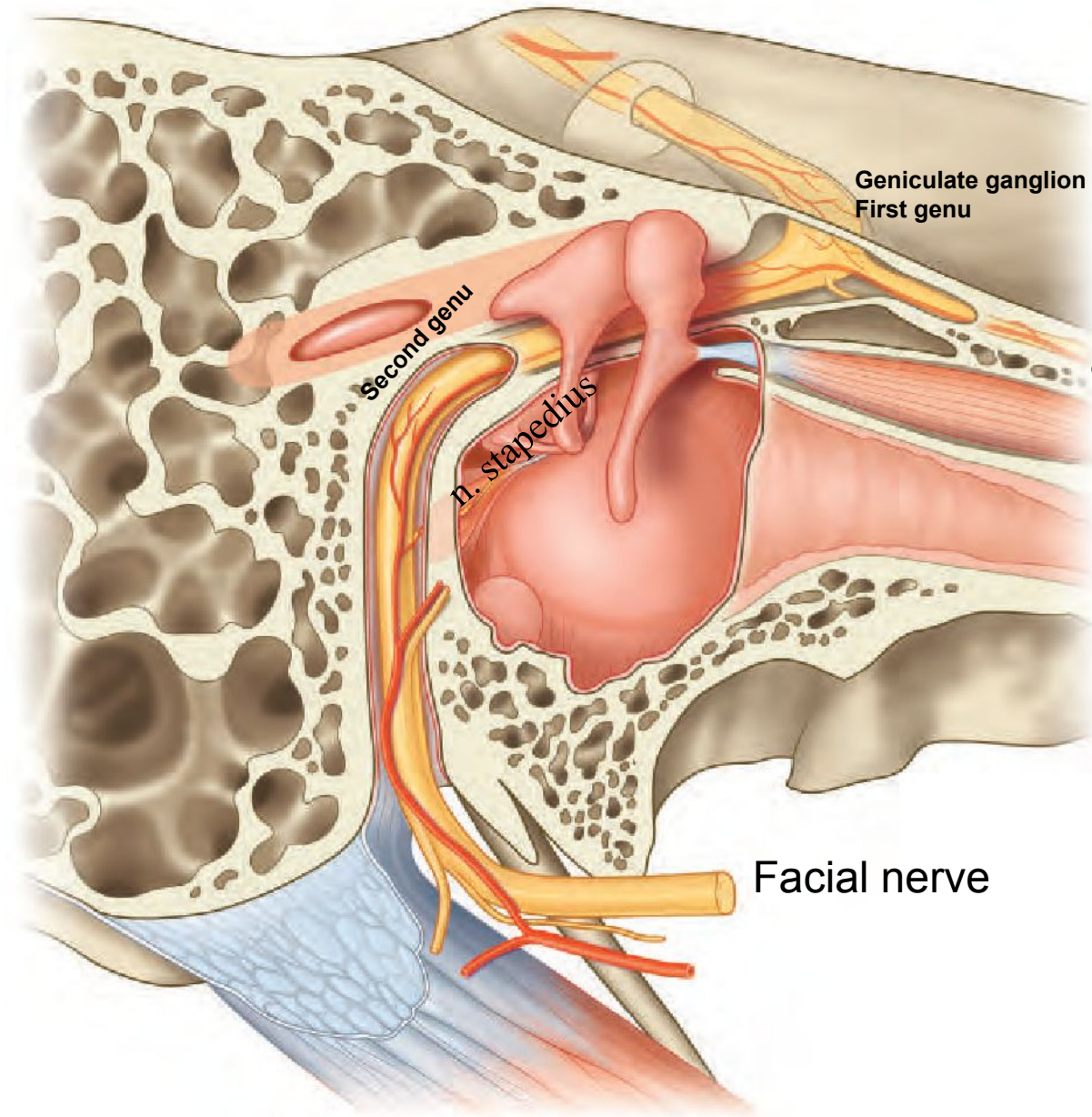
Deep petrosal nerve (Nervus petrosus profundus)



Chorda tympani

Geniculate ganglion (Ganglion geniculi)

Facial nerve



Geniculate ganglion
First genu

Second genu

n. stapedius

Greater petrosal nerve

Facial nerve