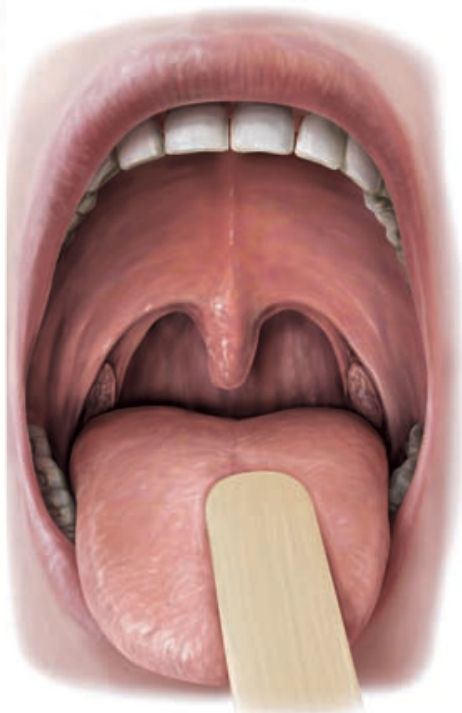
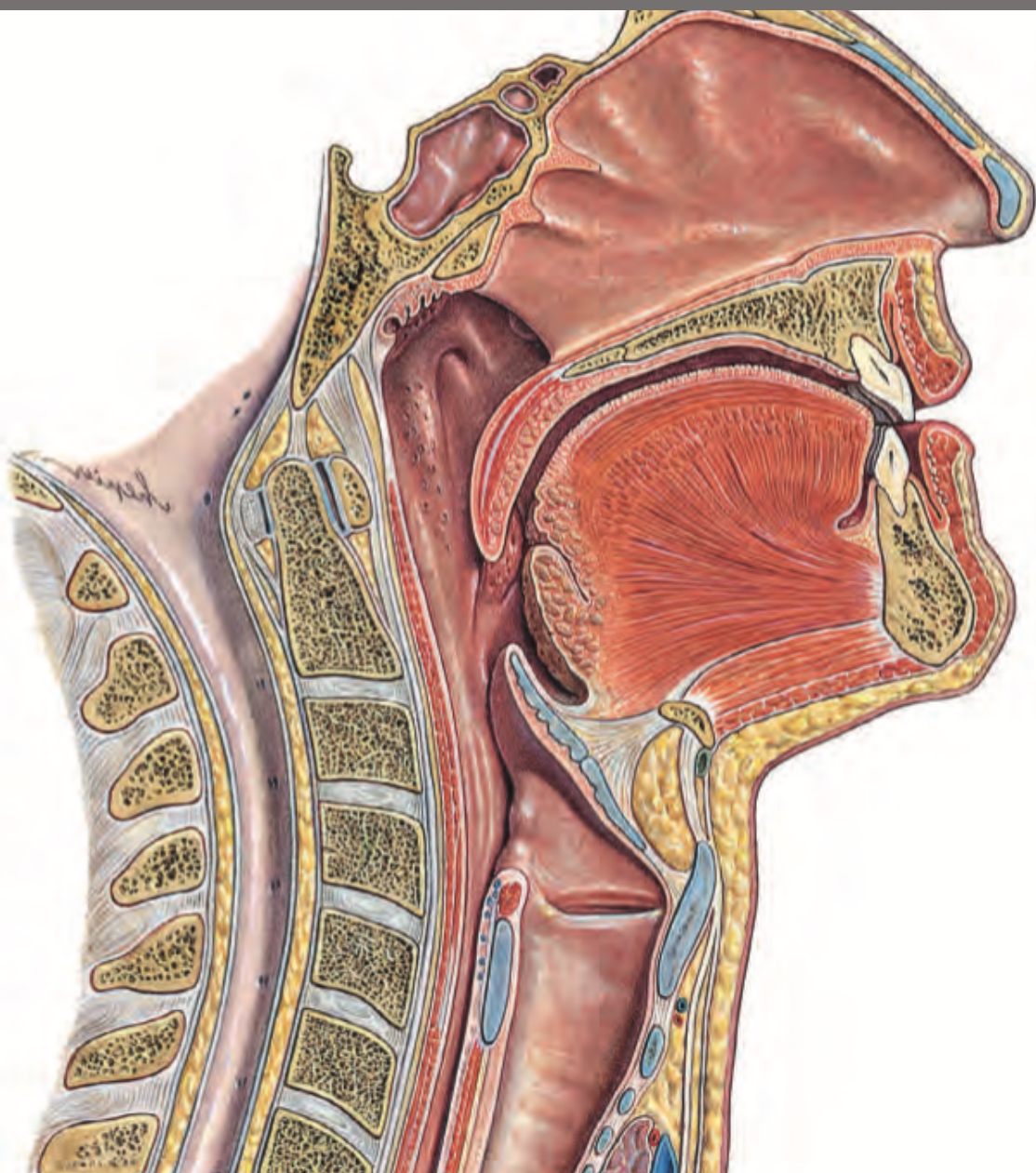


pharynx

Prof. MUDr. Jiří Ferda, Ph.D.

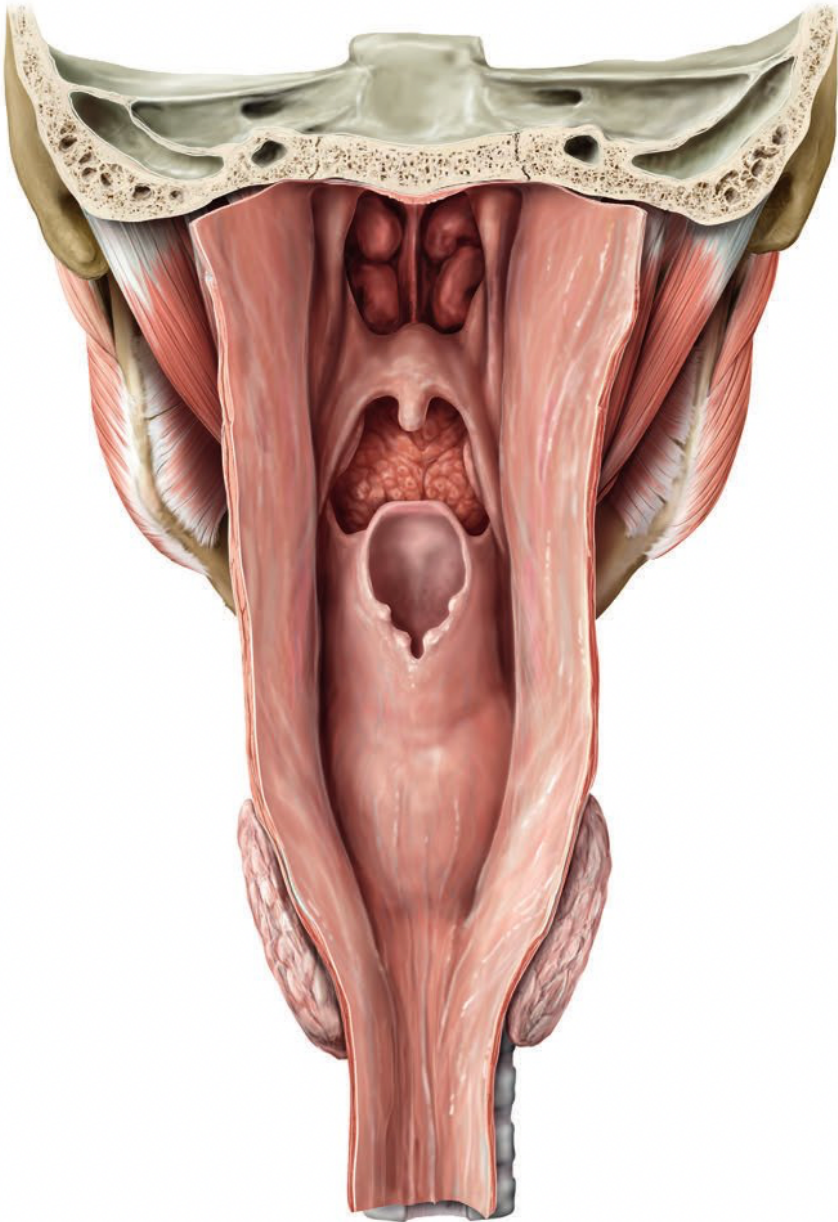
pharynx



- ◆ Epipharynx = nasopharynx
- ◆ Mesopharynx = oropharynx
- ◆ Hypopharynx = laryngopharynx

- ◆ Cavitas nasi
- ◆ Cavitas oris
- ◆ Cavum tympani
- ◆ Larynx
- ◆ Oesophagus

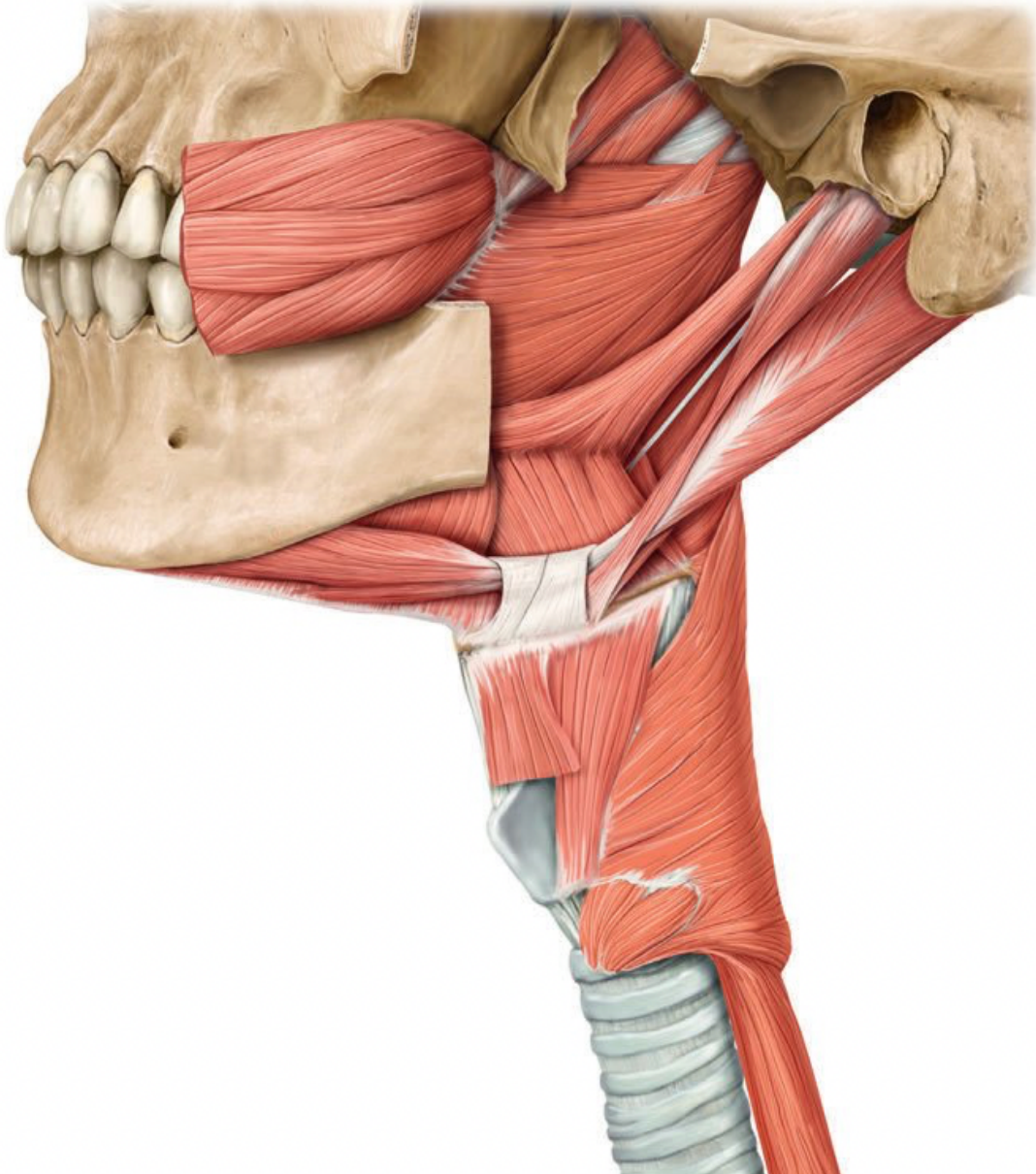
pharynx



- ♦ Epipharynx = nasopharynx
- ♦ Mesopharynx = oropharynx
- ♦ Hypopharynx = laryngopharynx

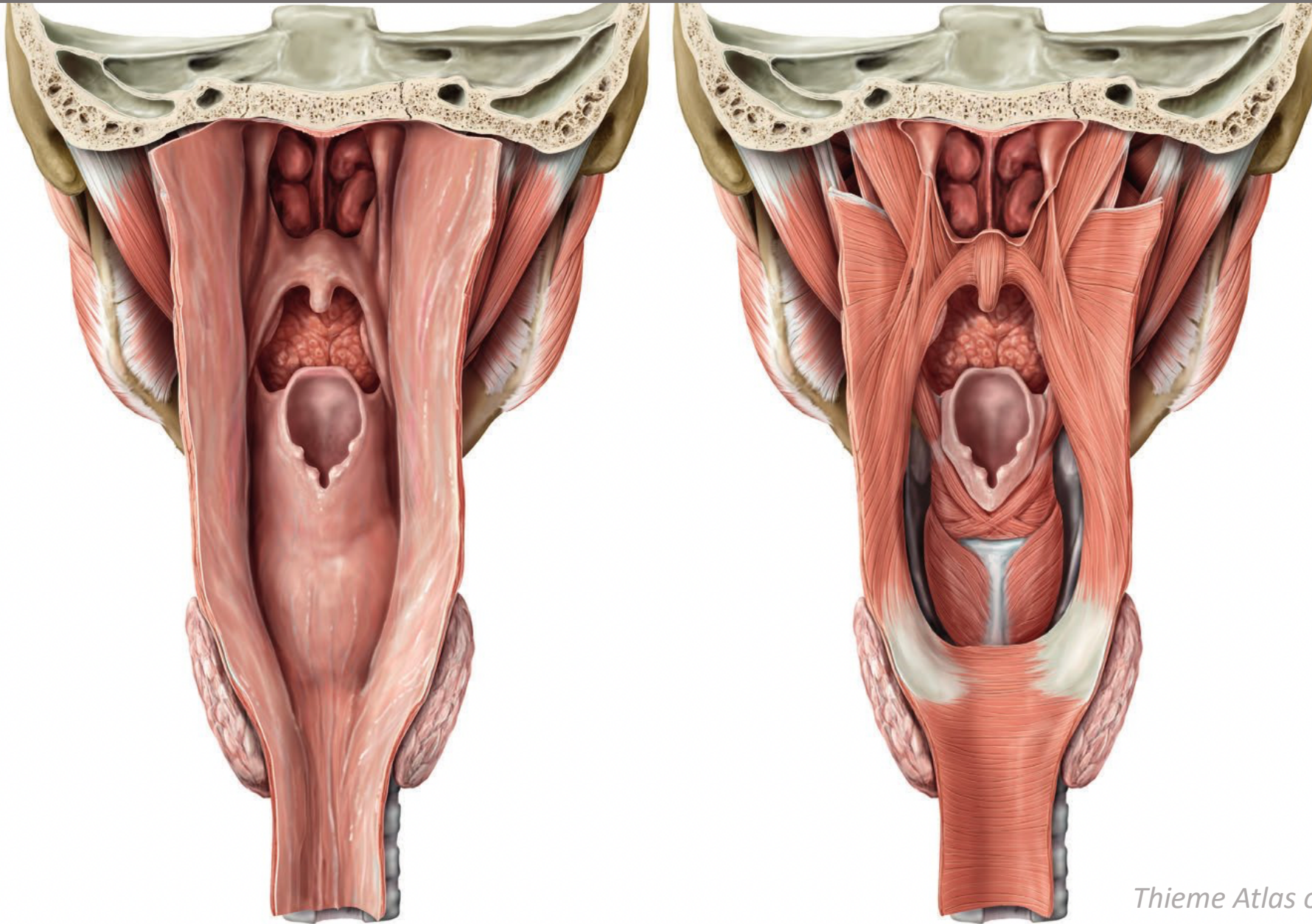
- ♦ **Cavitas nasi**
- ♦ **Cavitas oris**
- ♦ **Cavum tympani**
- ♦ **Larynx**
- ♦ **Oesophagus**

Musculi pharyngis

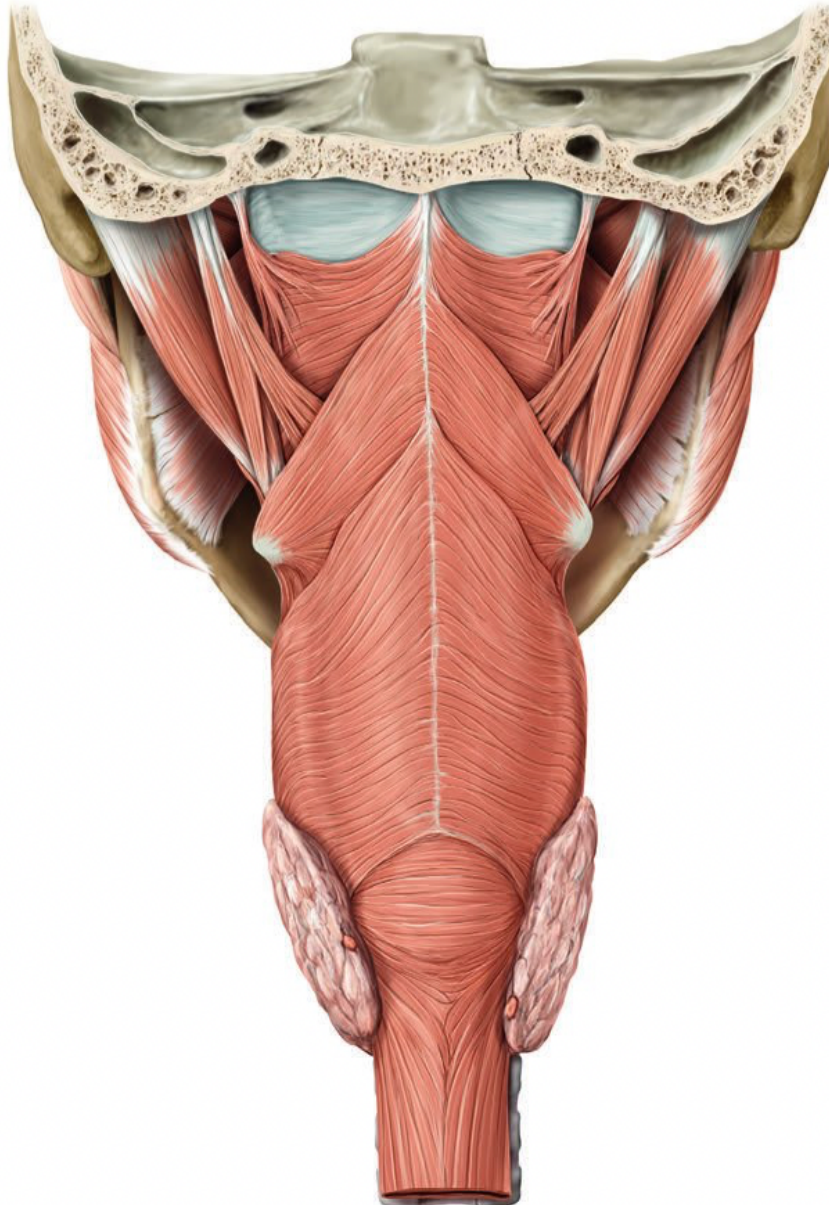


- ♦ **Fascia pharyngobasilaris**
- ♦ **Fascia buccopharyngealis**
- ♦ **Musculi constrictores**
 - ♦ M. constrictor pharyngis superior (N. X)
 - ♦ Sphincter palatopharyngeus
 - ♦ M. constrictor pharyngis medius (N. X)
 - ♦ M. constrictor pharyngis inferior (N. X)
- ♦ **Musculi longitudinales**
 - ♦ M. salpingopharyngeus (N. X)
 - ♦ M. palatopharyngeus (N. X)
 - ♦ M. stylopharyngeus (N. IX)

Pharynx and its relations

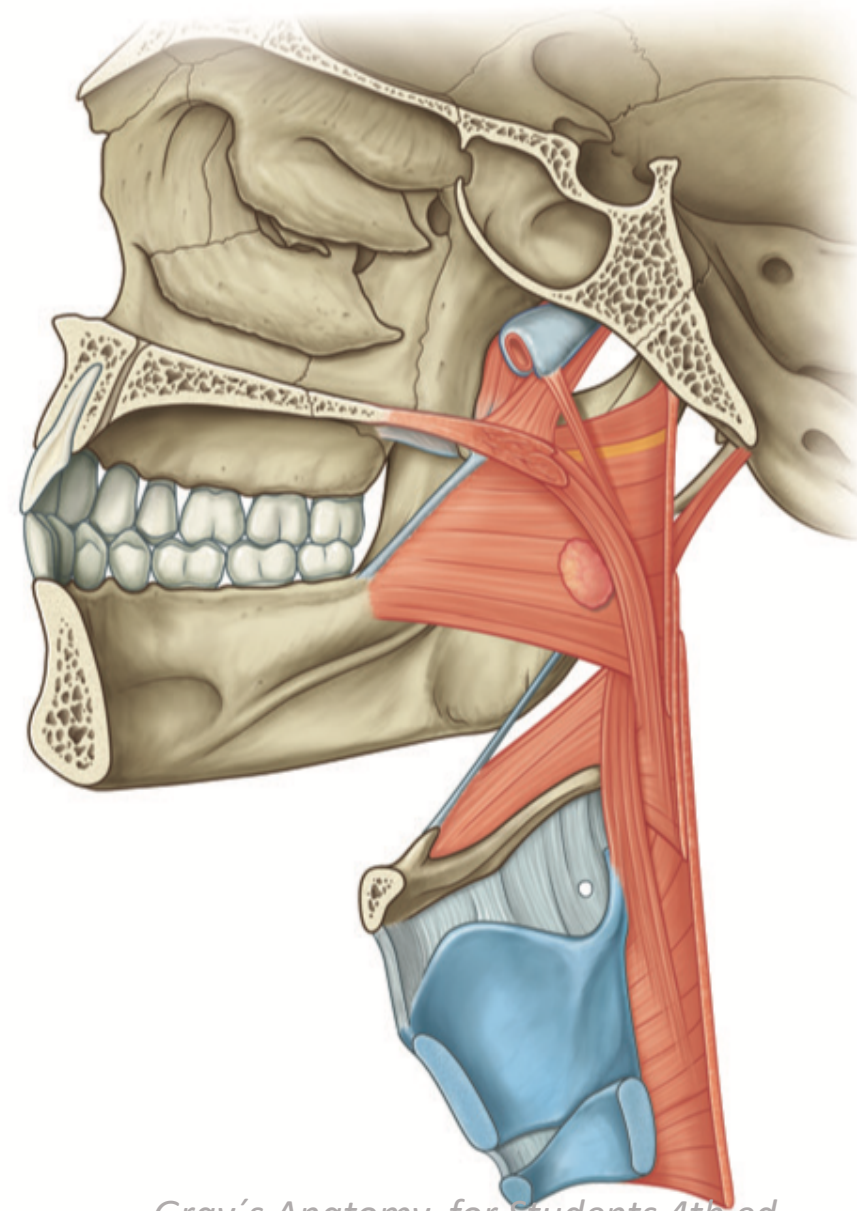
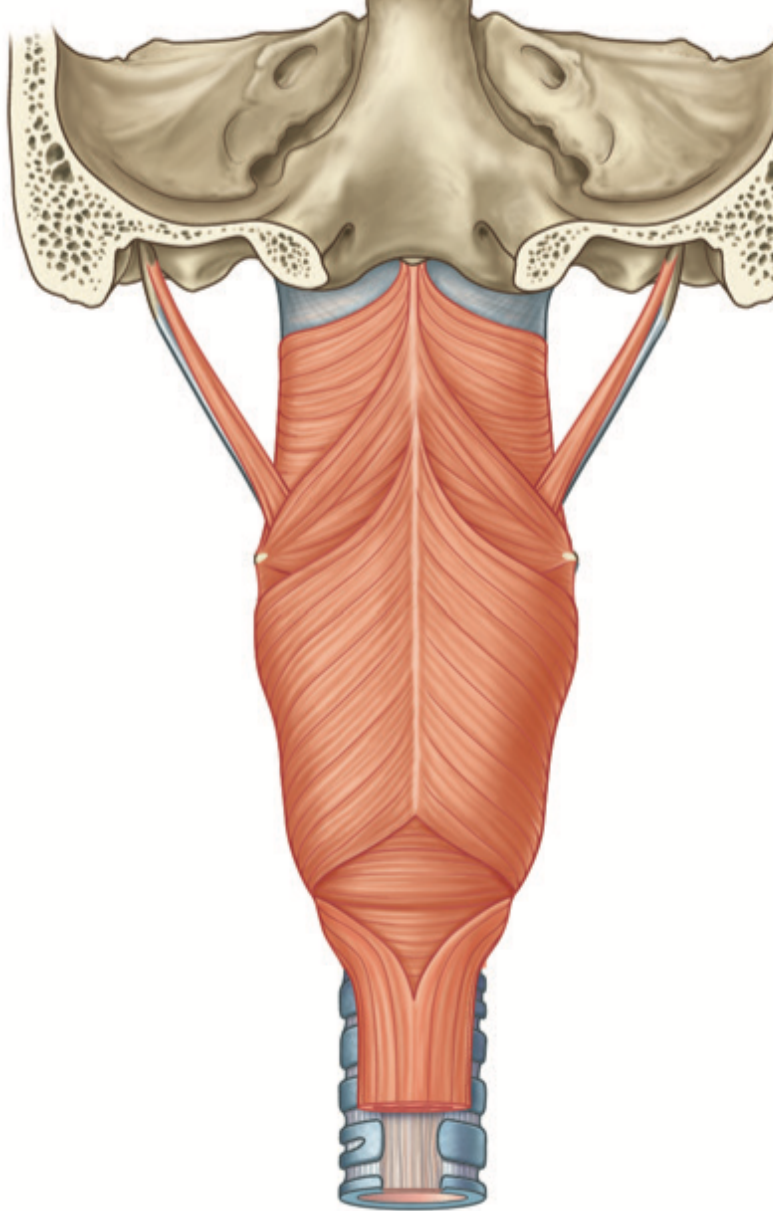
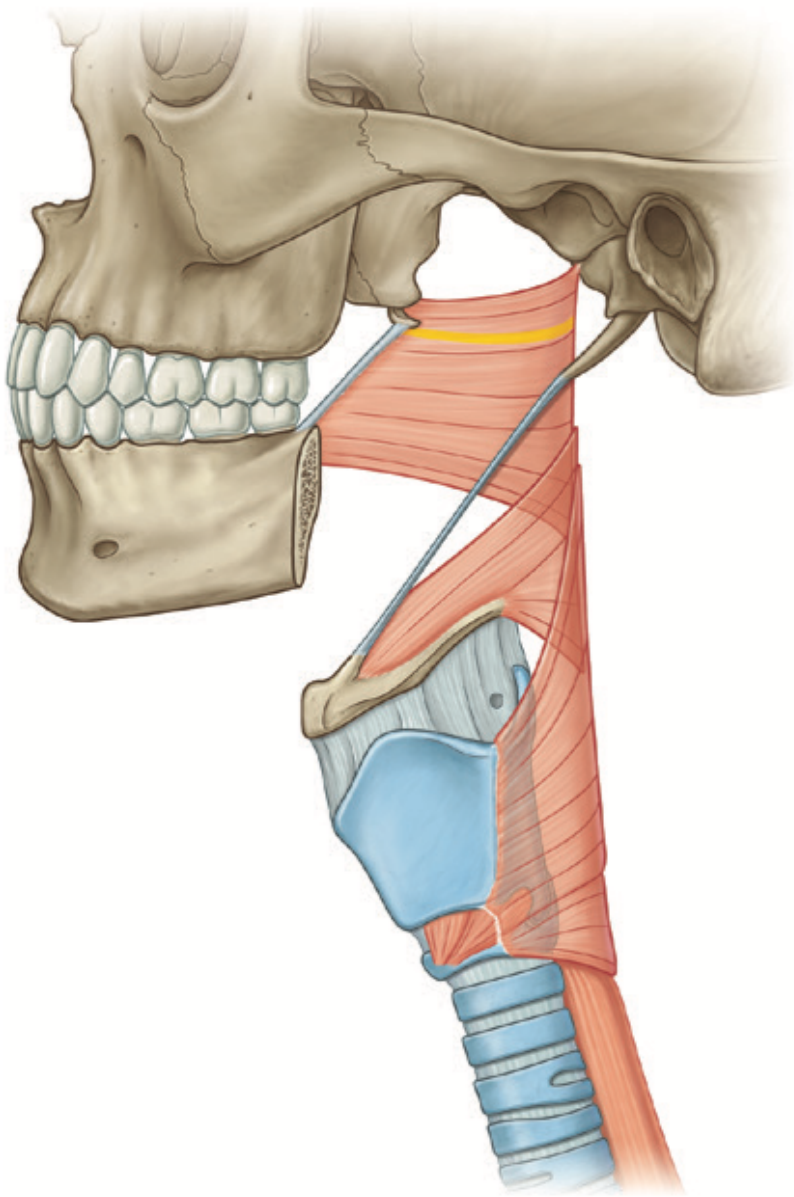


mm. constrictores

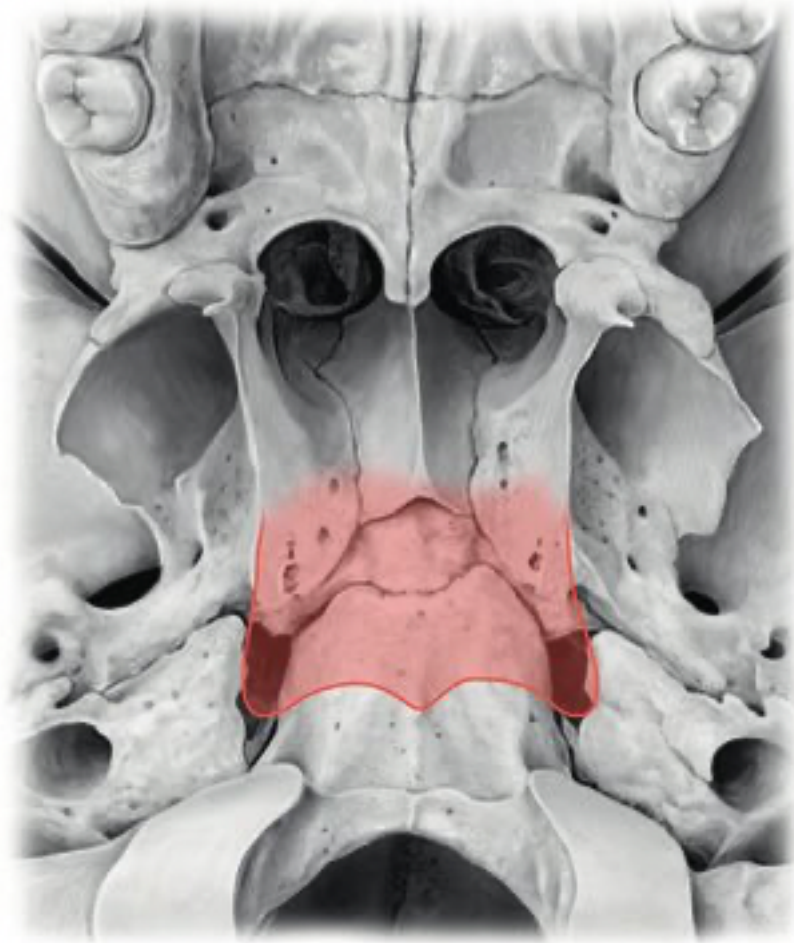


- ♦ **M. constrictor superior**
 - ♦ Raphe pterygomandibulare
- ♦ **M. constrictor superior**
 - ♦ Os hyoideum
- ♦ **M. constrictor superior**
 - ♦ Cartilago cricoidea
 - ♦ Linea obliqua cart. thyroideae
- ♦ **Dorsal insertion**
 - ♦ raphe pharyngeum

mm. constrictores



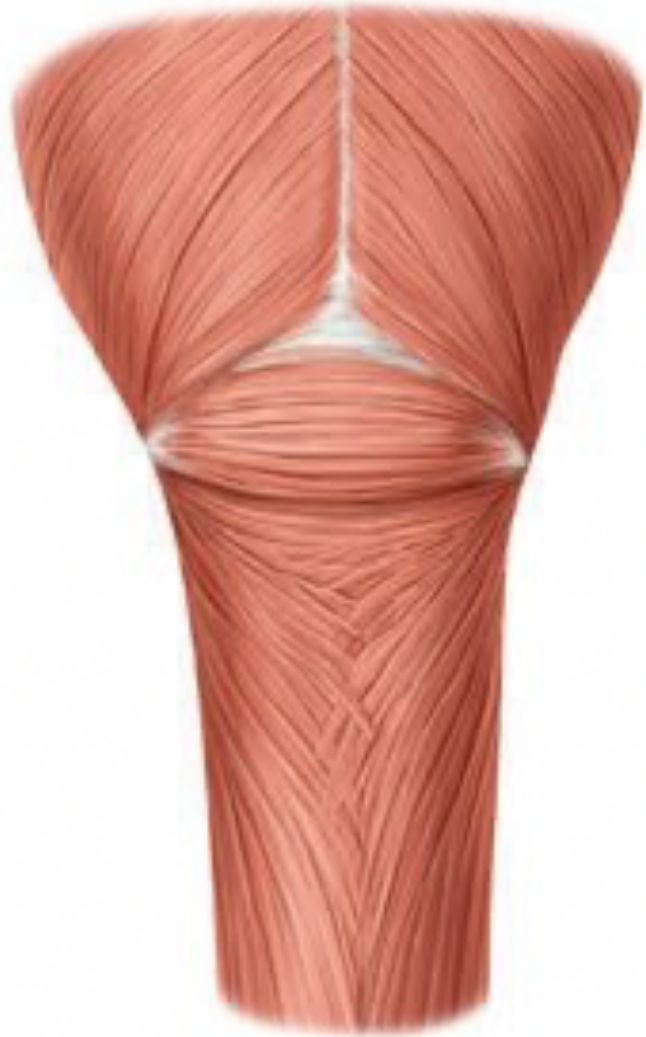
Pharyngobasilar fascia



♦ **Bone vault of pharynx**

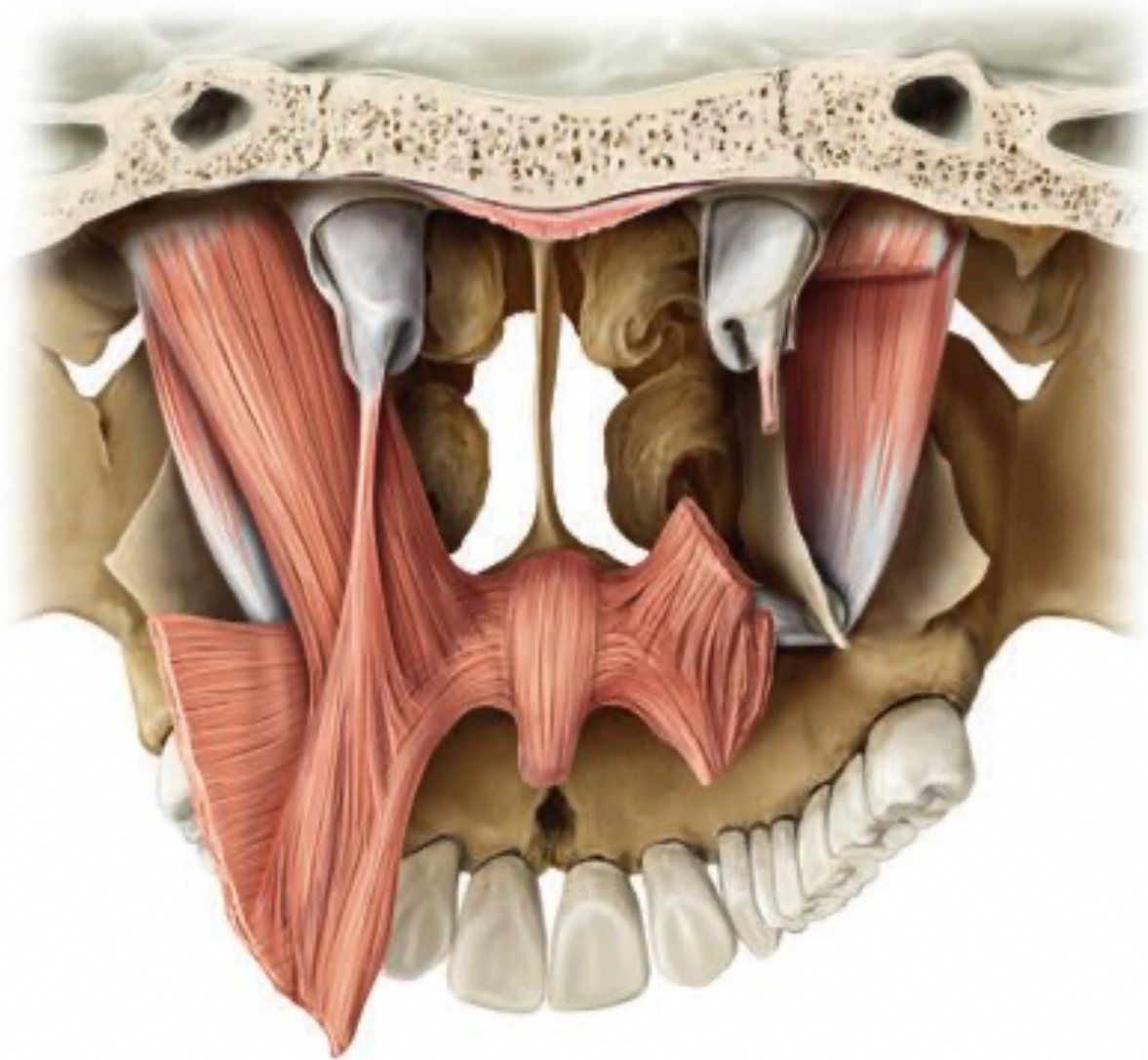
♦ **Pharyngobasilar fascia**

Pharyngoesophageal junction



- ♦ **M. constrictor inferior**
- ♦ **Pars thyropharyngea**
- ♦ **Pars cricopharyngea**
 - ♦ *M. cricopharyngeus*
 - ♦ Pars obliqua
 - ♦ Pars fundiformis
- ♦ **Trigonum Kiliani**
- ♦ **Trigonum Laimer**
- ♦ **Diverticulum Zenkeri**

mm. longitudinales

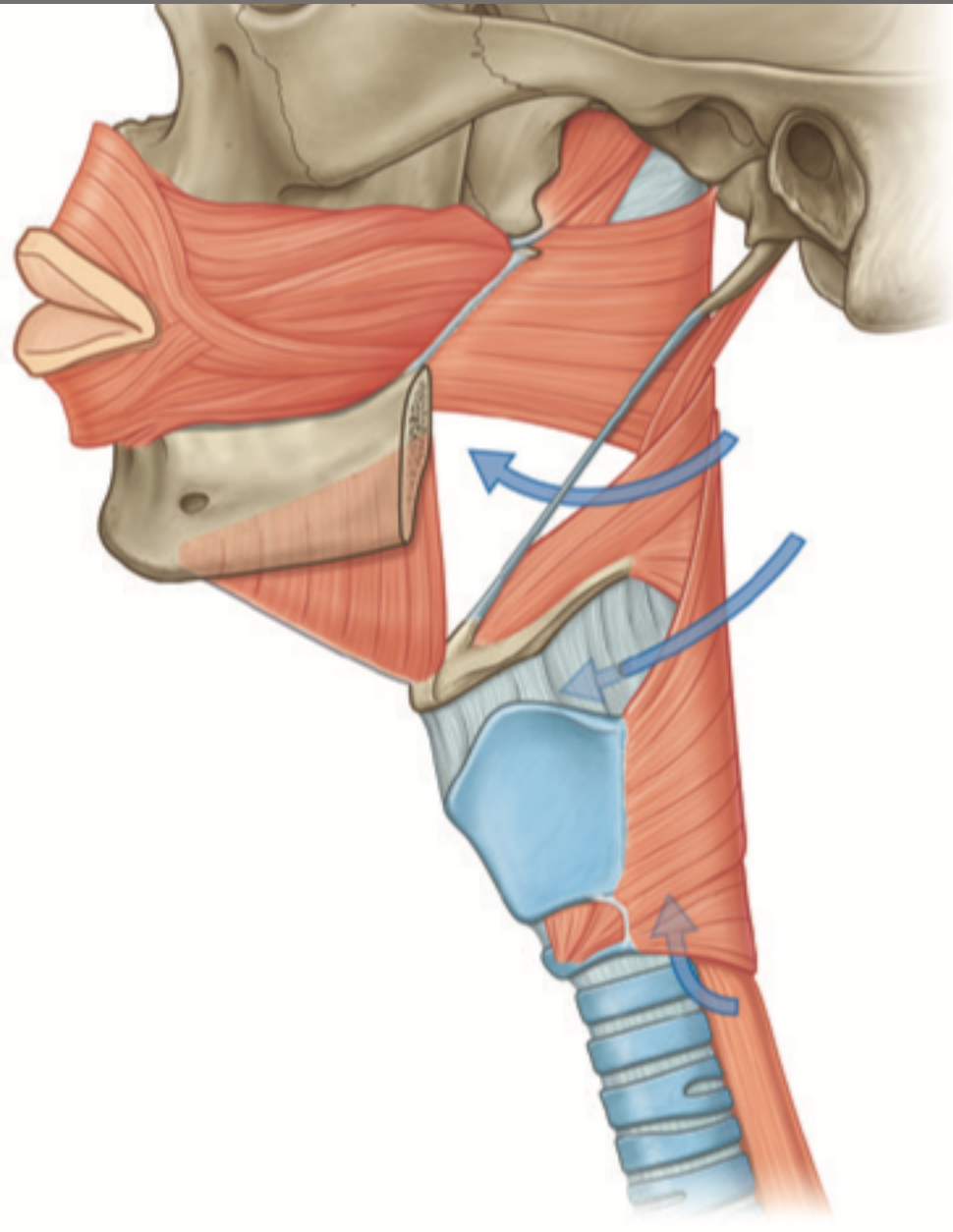


M. salpingopharyngeus - n. X

M. palatopharyngeus – n. X

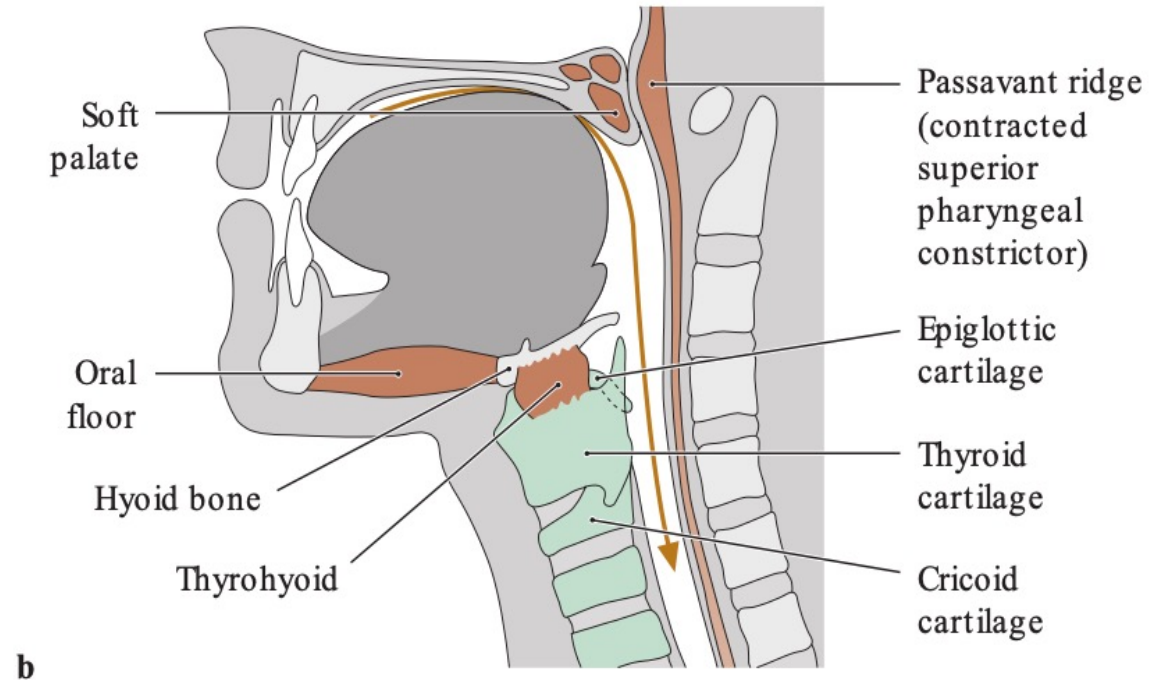
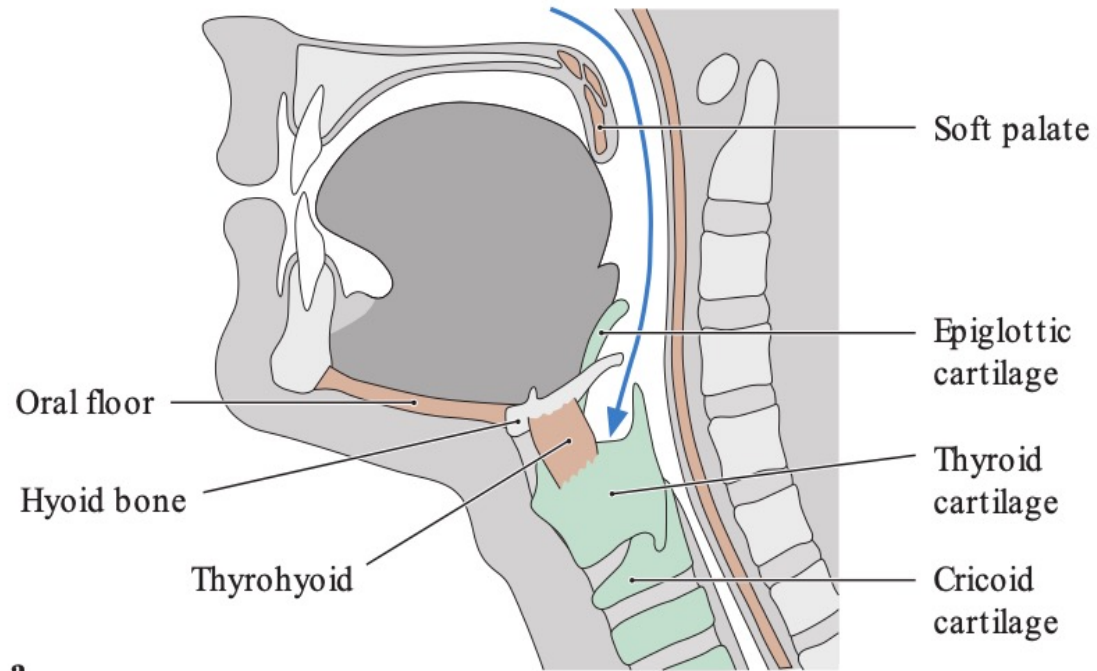
M. stylopharyngeus – n. IX

Pharyngeal wall gaps

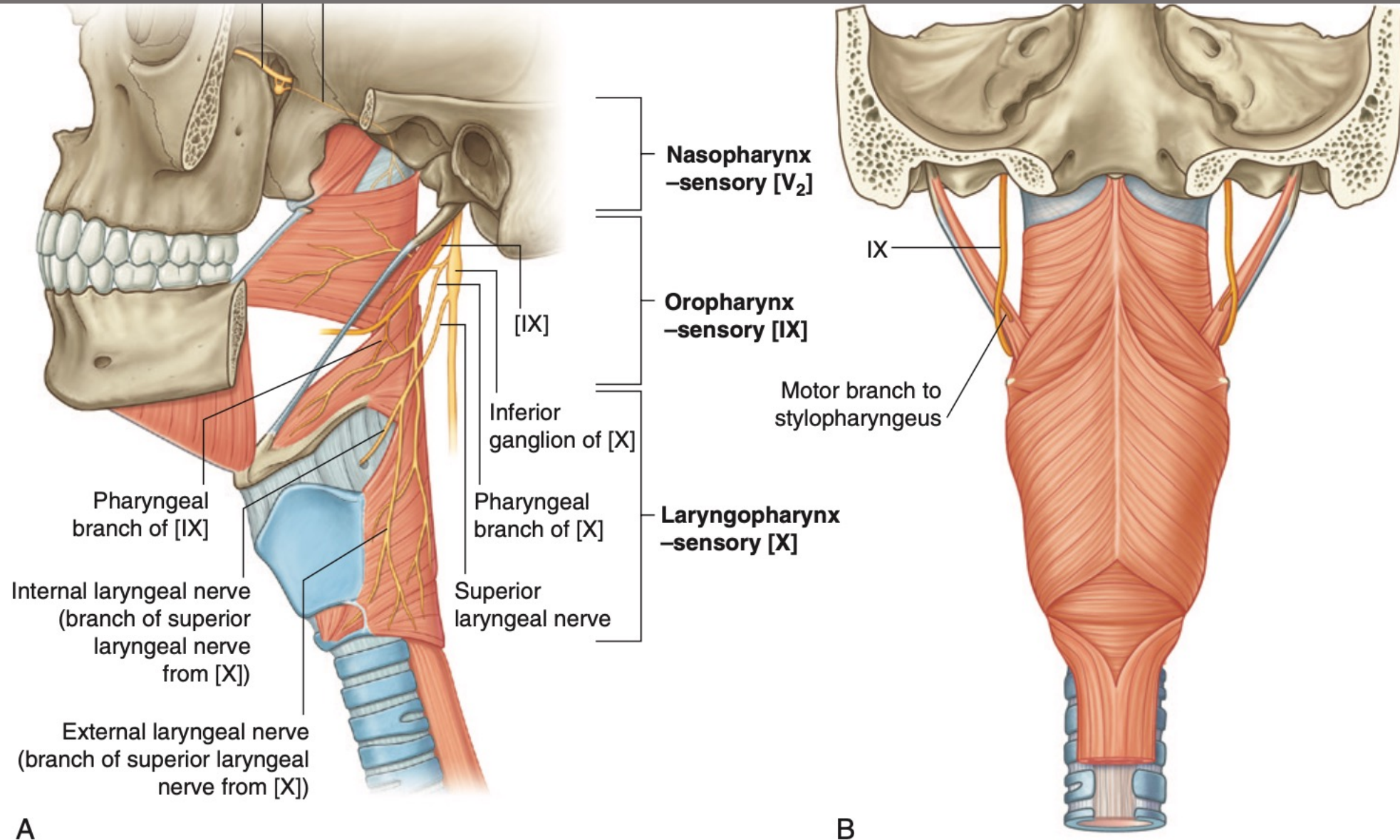


- ♦ **Trigonum oropharyngeale**
 - ♦ Svaly, nervy a cévy
- ♦ **Prostor mezi cart. thyroidea a os hyoideum**
 - ♦ N. laryngeus internus
 - ♦ Vasa laryngelaes intenaes
- ♦ **Prostor mezi dolním konstriktořem a tracheou**
 - ♦ N. laryngeus recurrens

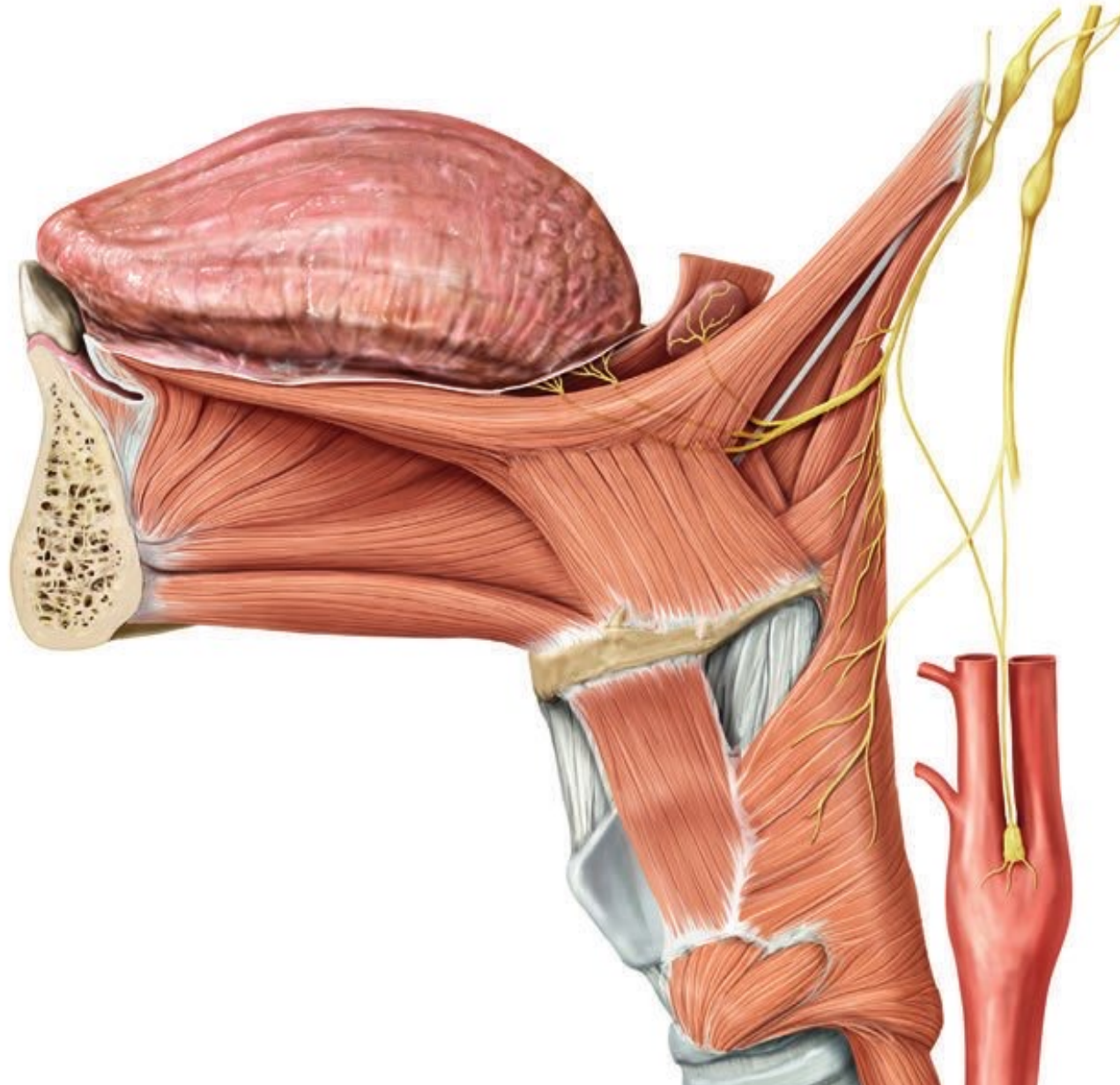
Breathing and swallowing

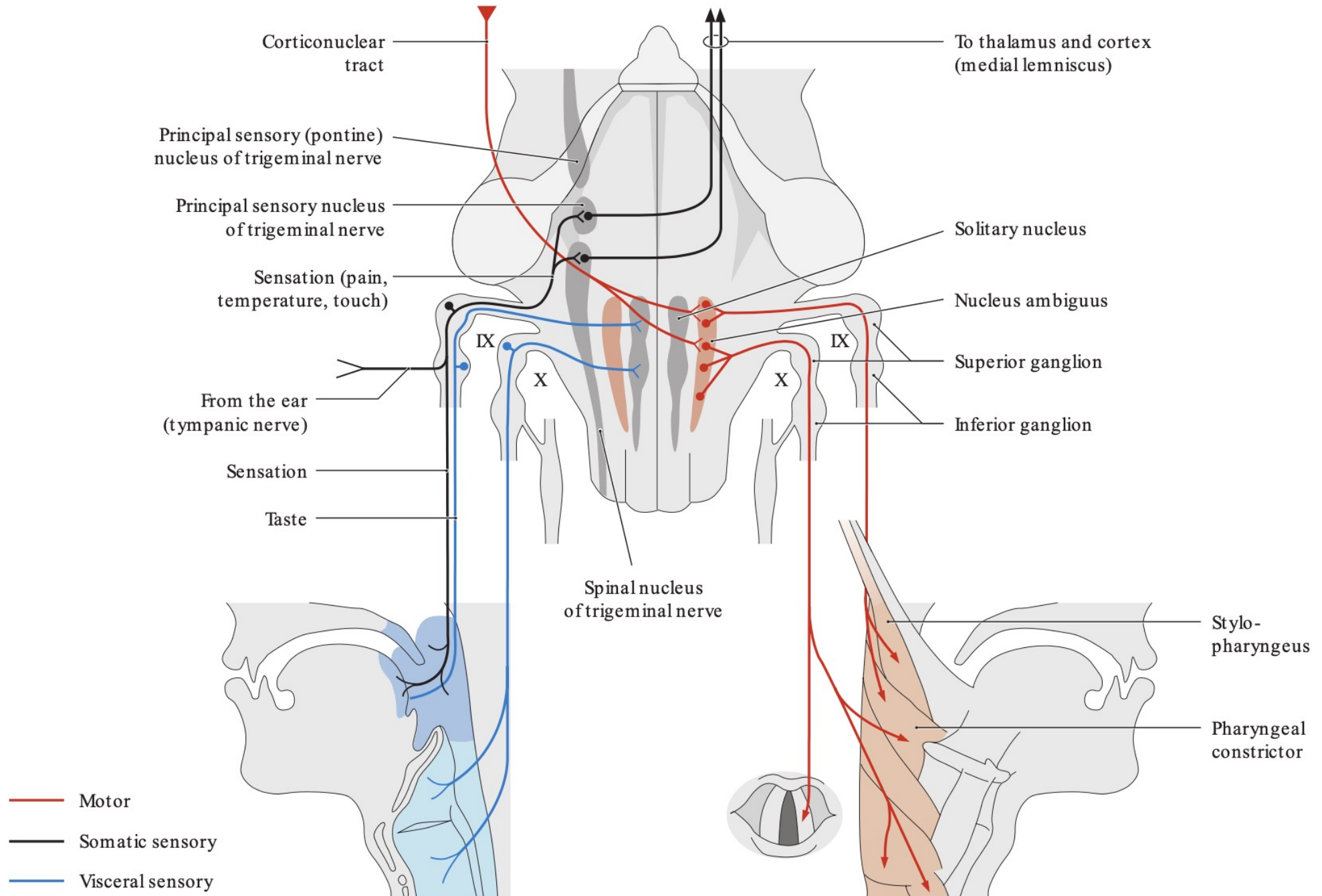


Pharyngeal innervation

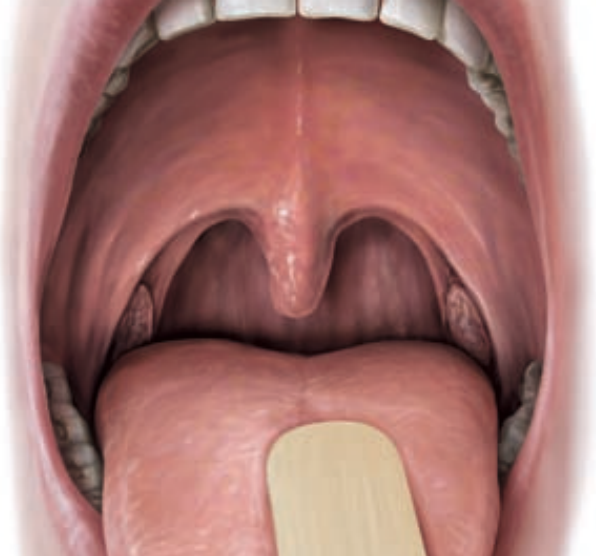


Pharyngeal innervation

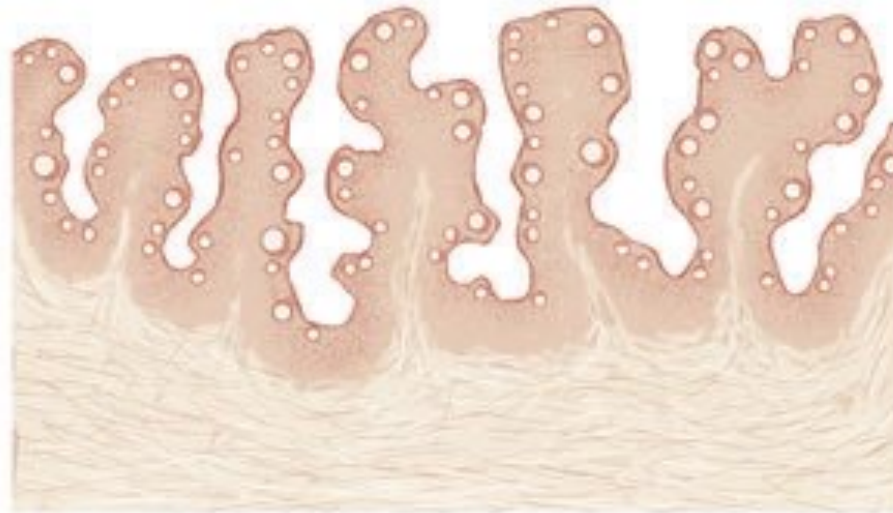
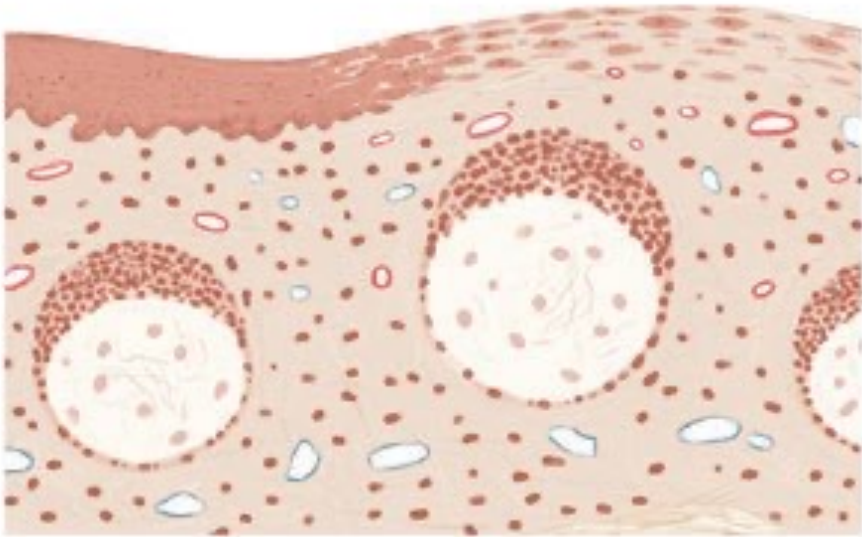




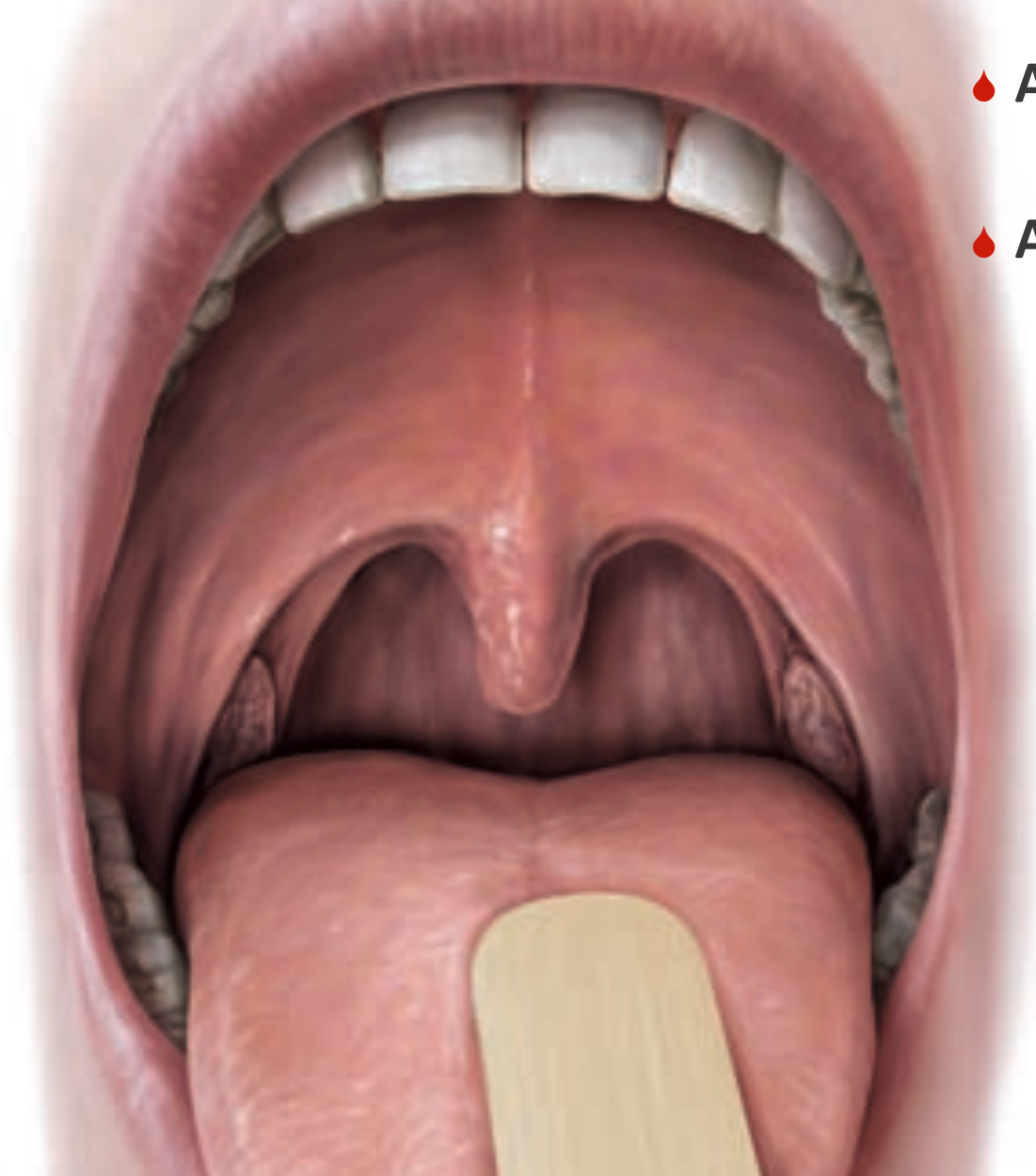
tonsillae



- Lymphoepithelial tissue
- No basement membrane
- Lymphatic folliculi



Fossa tonsillaris

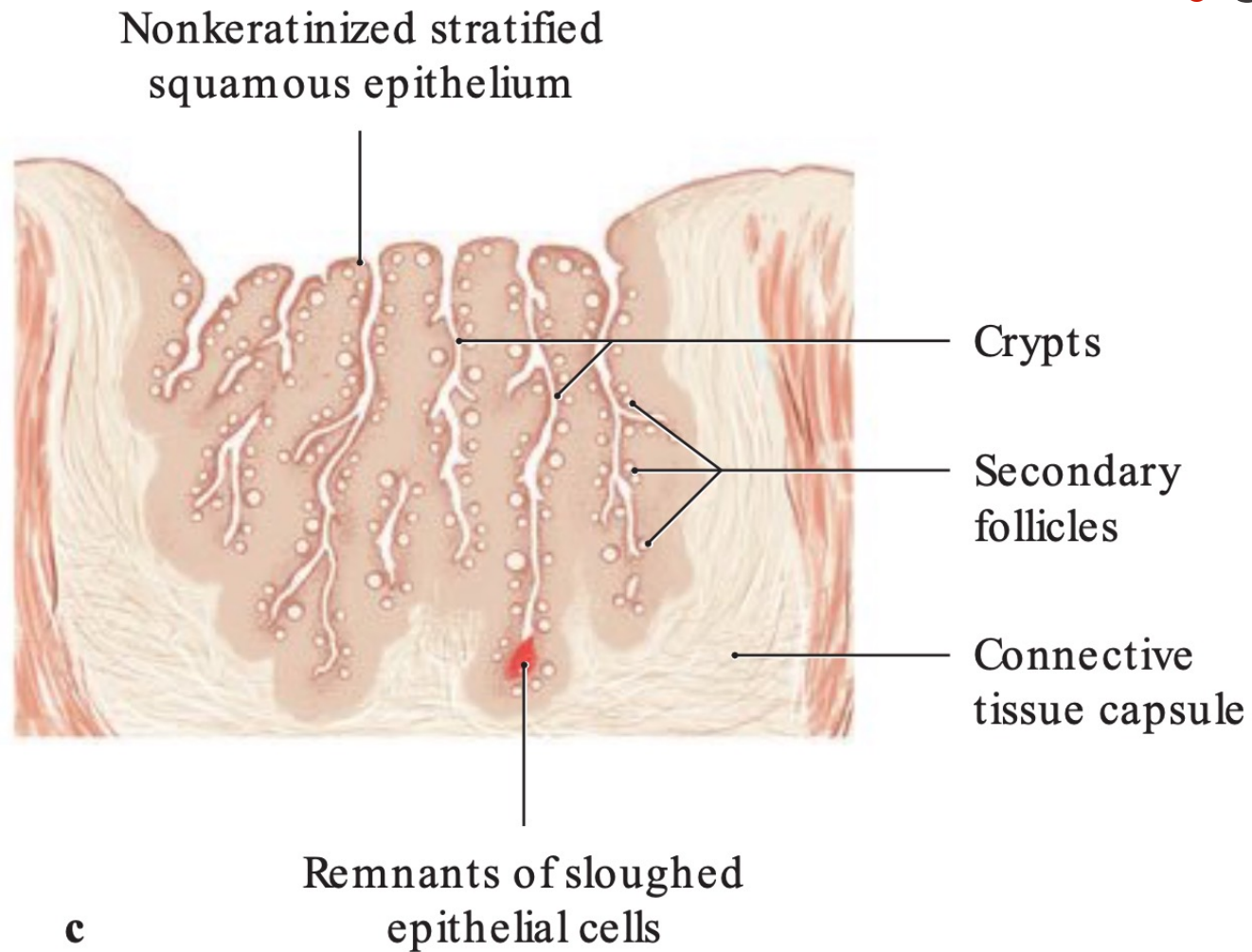


- ♦ **Arcus palatoglossus**
 - ♦ M. palatoglossus
- ♦ **Arcus palatopharyngeus**
 - ♦ M. palatopharyngeus

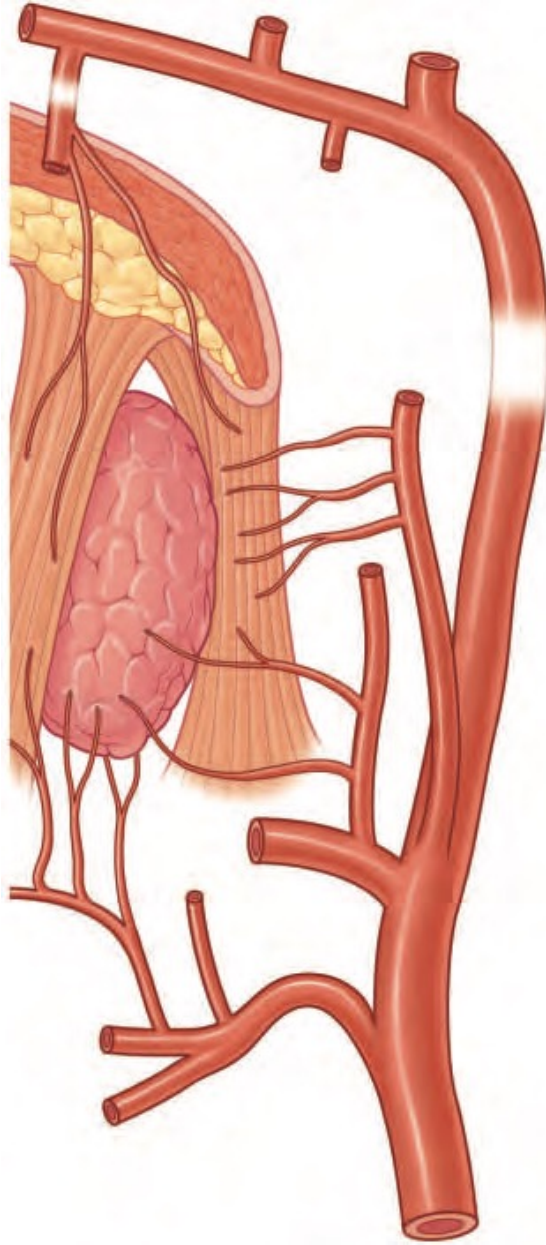
Tonsilla palatina

• Crypts

• Capsula



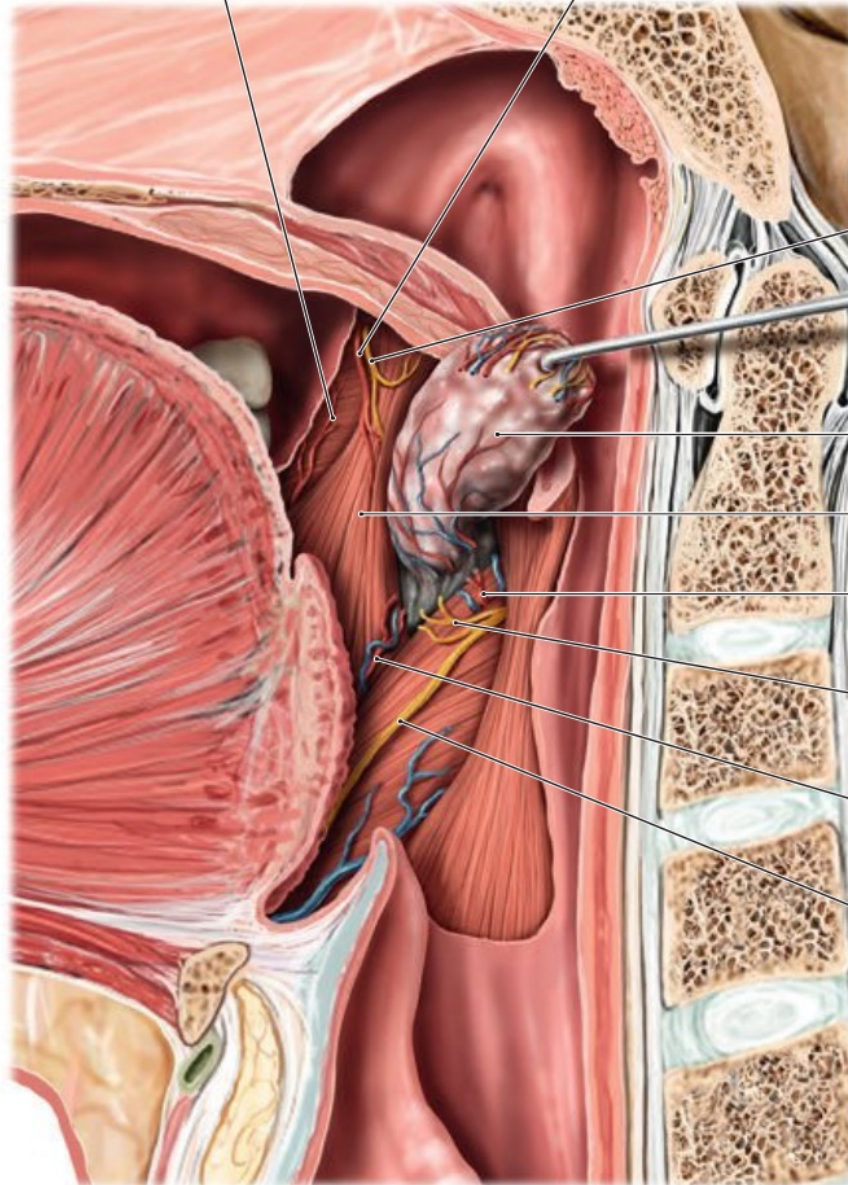
Arteries of tonsilla palatina



- ♦ **A. lingualis**
 - ♦ Rami dorsales linguae
- ♦ **A. facialis**
 - ♦ A. palatina ascendens
 - ♦ Ramus tonsillaris
- ♦ **A. pharyngica ascendens**
- ♦ **A. maxillaris**
 - ♦ A. palatina minor

Tonsillar branches of
ascending pharyngeal artery

Pharyngeal branch of
descending palatine artery



Tonsillar branches of
lesser palatine nerves

Palatine tonsil

Palatoglossus muscle

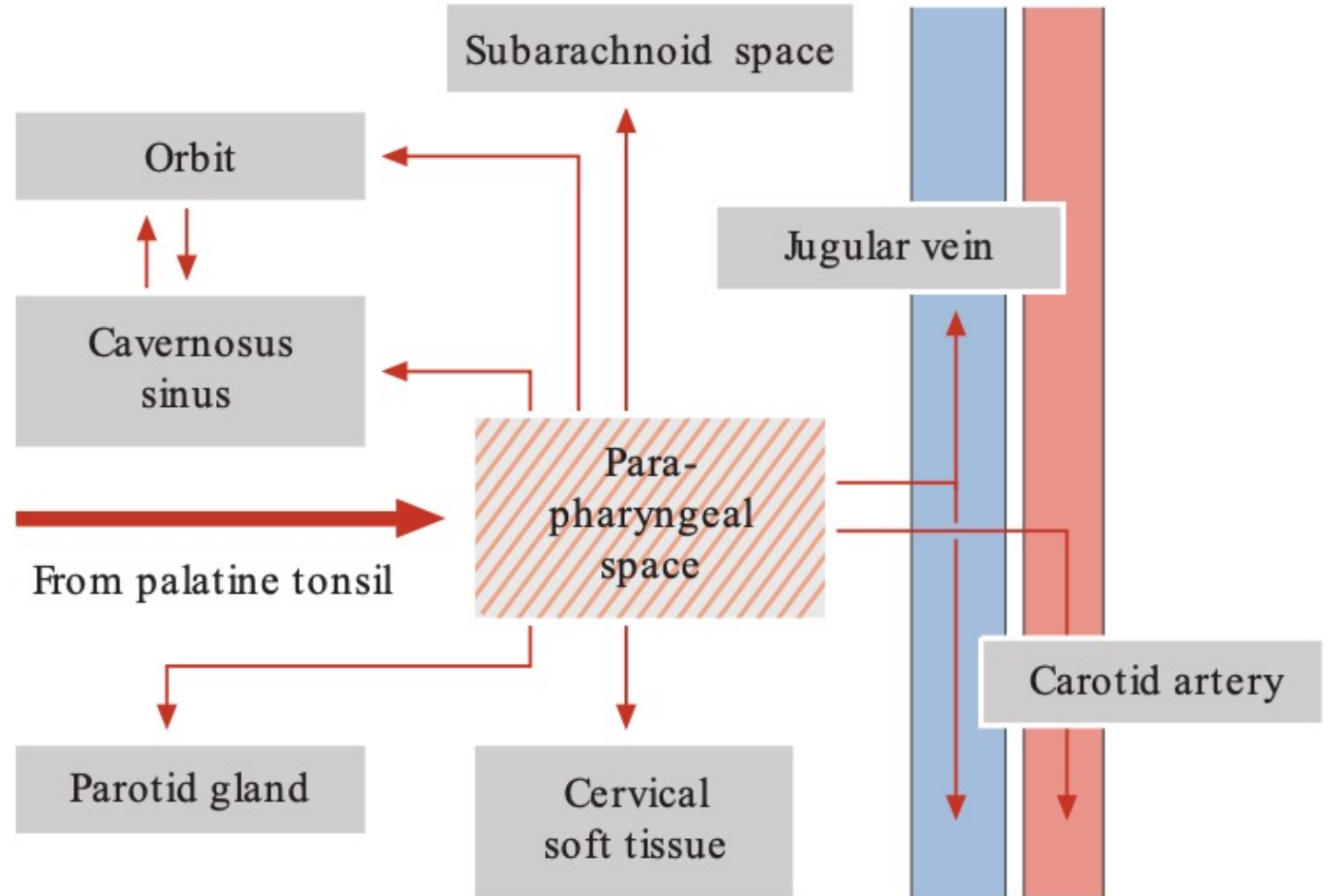
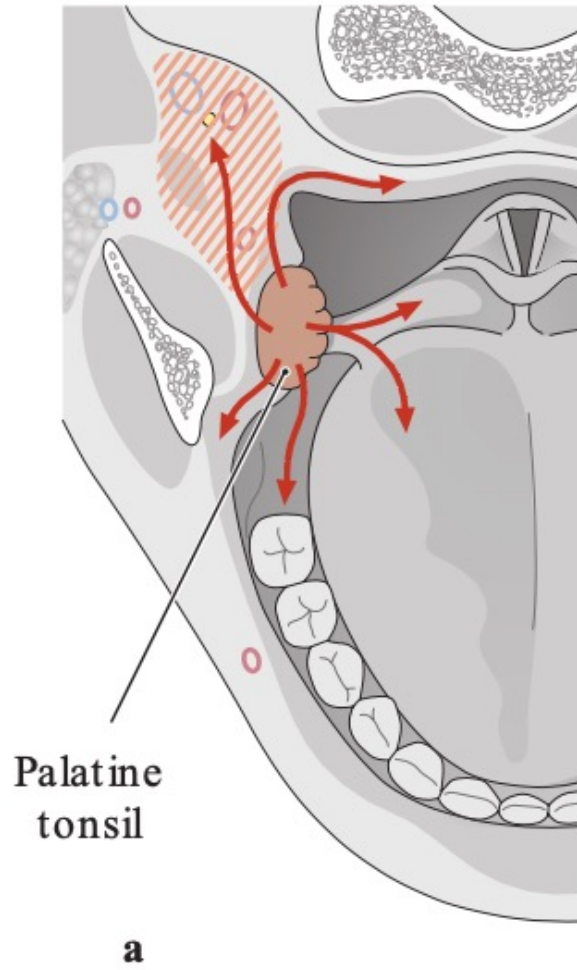
Tonsillar branches of
ascending palatine artery

Tonsillar branches of
glossopharyngeal nerve

Dorsal lingual branches
of lingual artery

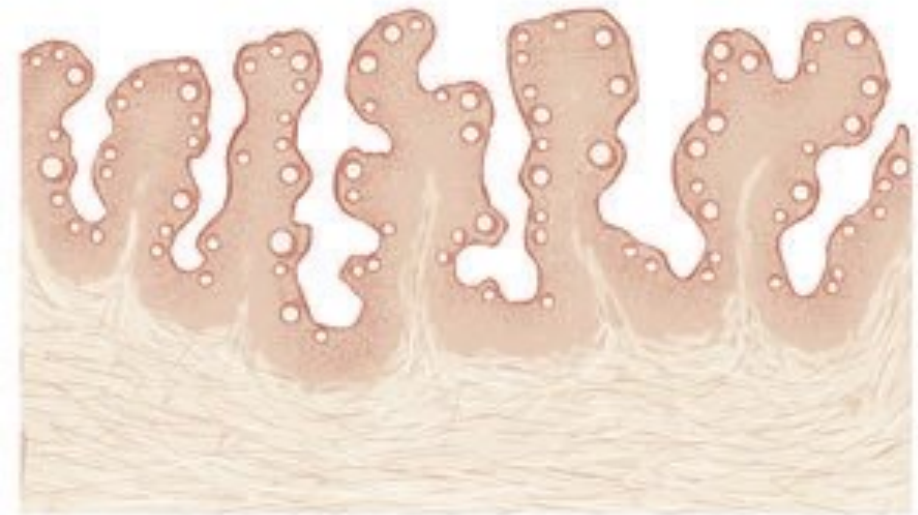
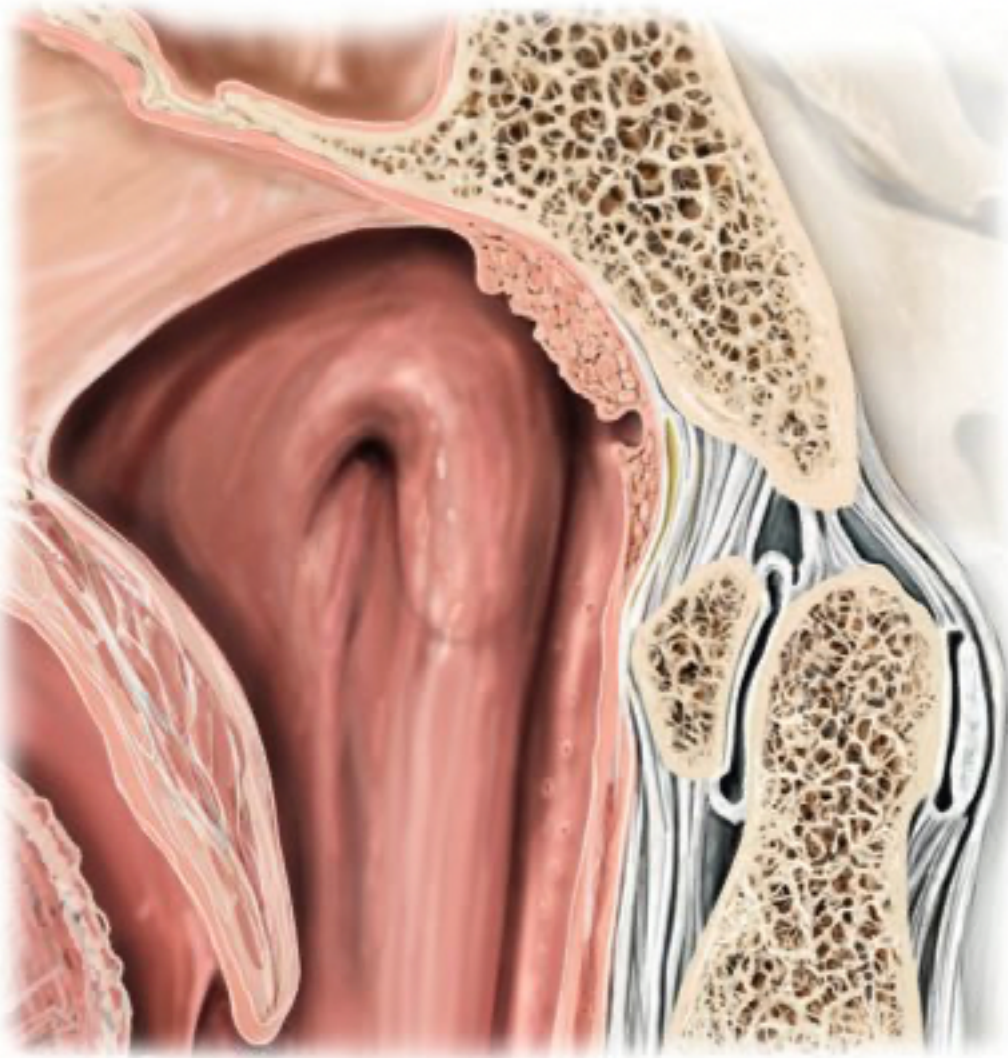
Glossopharyngeal
nerve

Spatium parapharyngeale



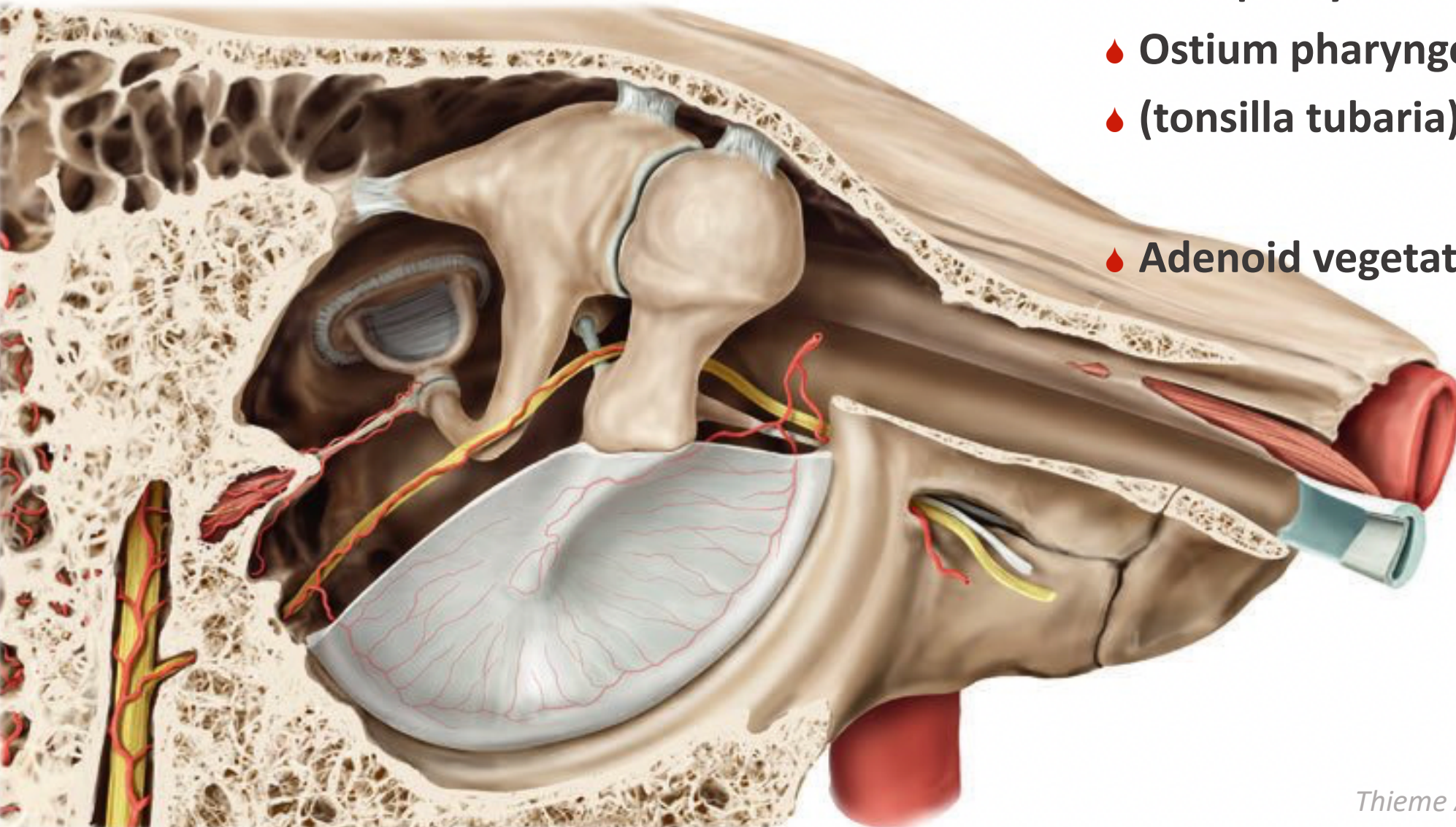
Tonsilla pharyngica

- ♦ **Nasopharynx**
- ♦ **Ostium pharyngeale tubae auditivae**
- ♦ **(tonsilla tubaria)**
- ♦ **Adenoid vegetation**

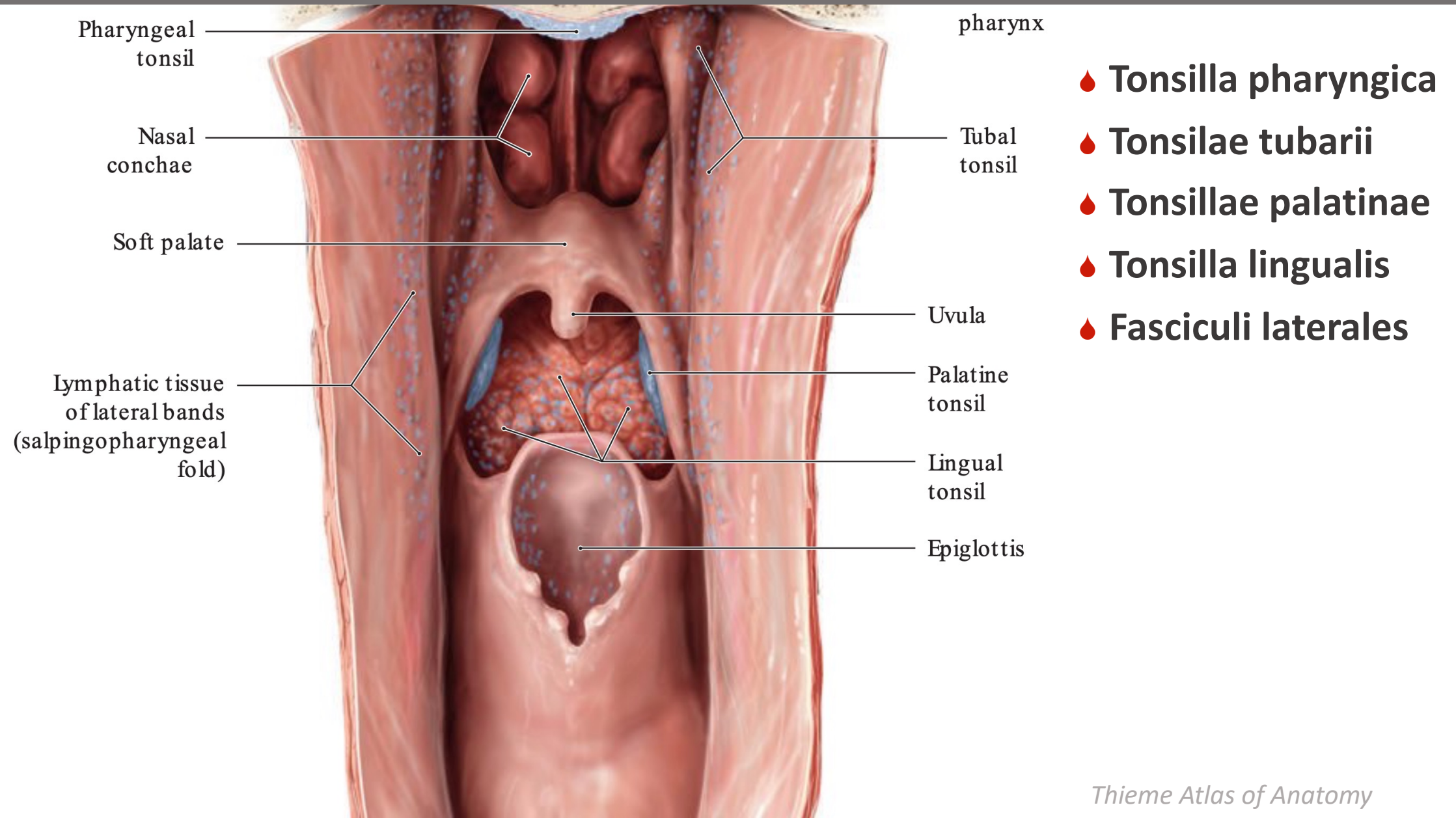


Tonsilla pharyngica

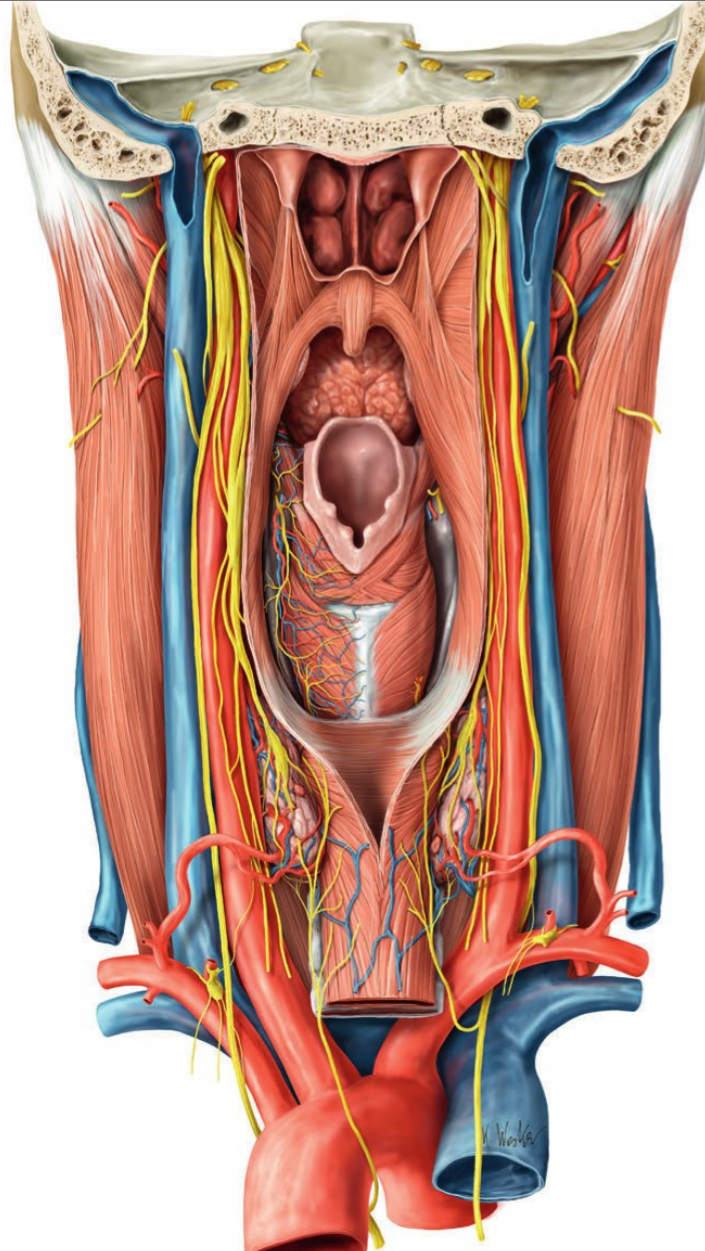
- ♦ Nasopharynx
- ♦ Ostium pharyngeale tubae auditivae
(tonsilla tubaria)
- ♦ Adenoid vegetation



Waldayer lymphatic ring

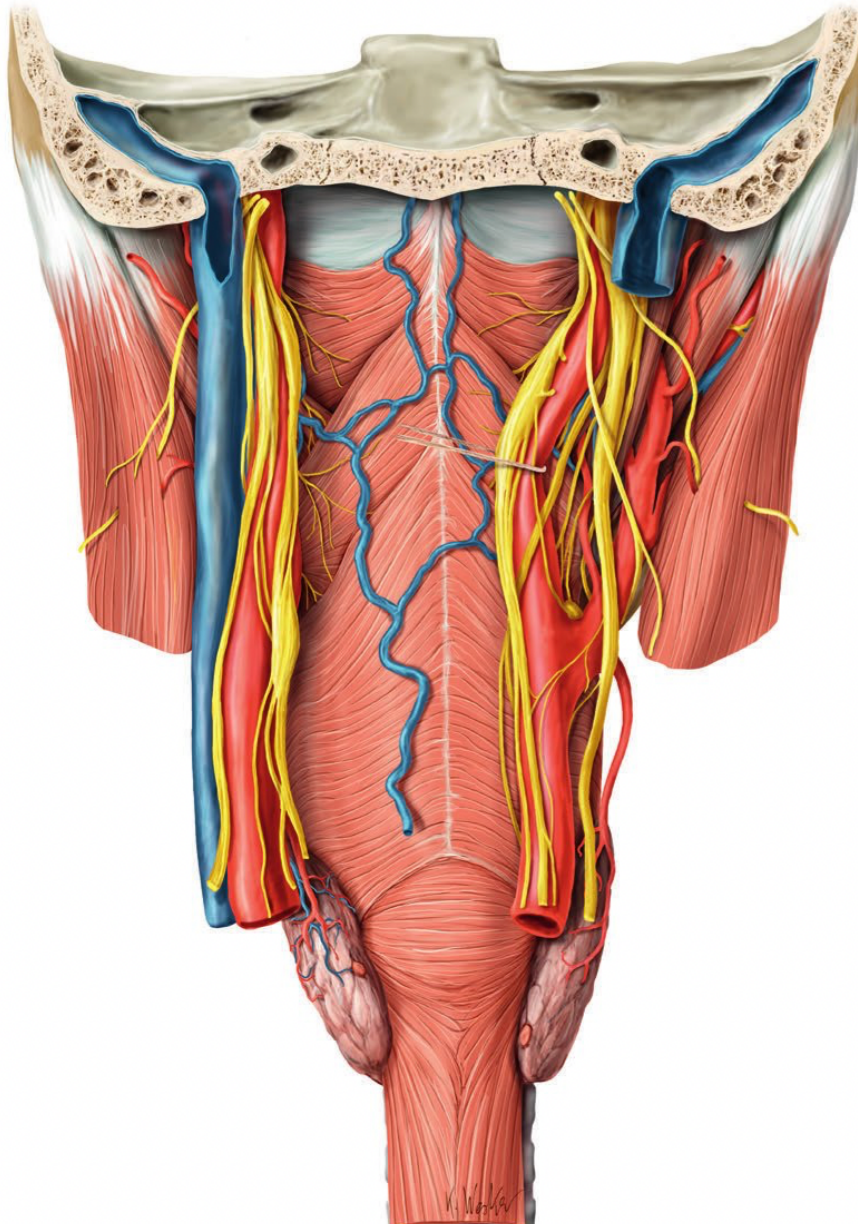


Spatium parapharyngeale

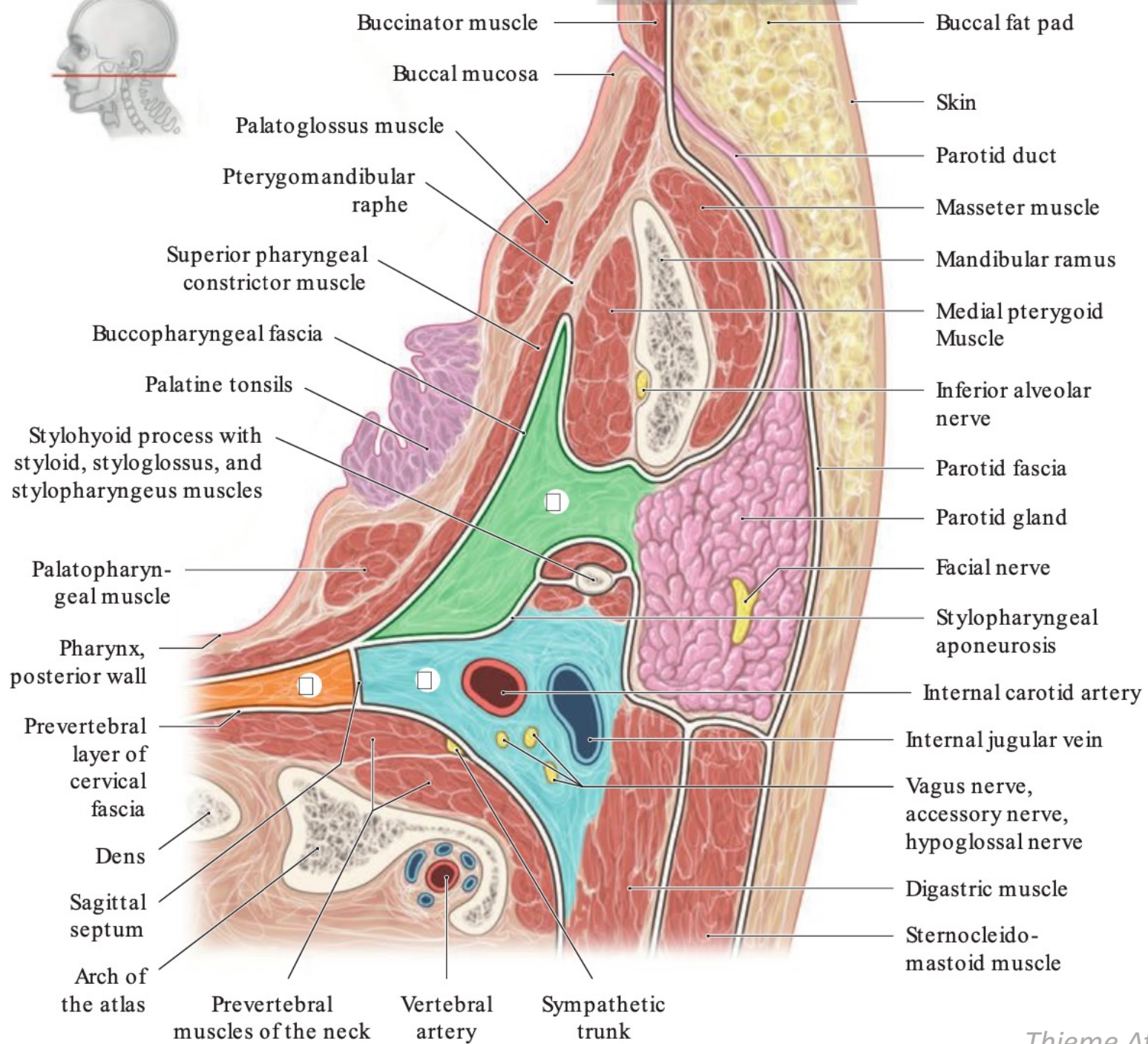


- ♦ Nervus glossopharyngeus IX
- ♦ Nervus vagus X
- ♦ Nervus accessorius XI
- ♦ Nervus hypoglossus XII
- ♦ Truncus sympathicus
- ♦ Vagina carotica
 - ♦ A. carotis interna/communis
 - ♦ V. jugularis interna
 - ♦ N. vagus
- ♦ Plexus pharyngeus

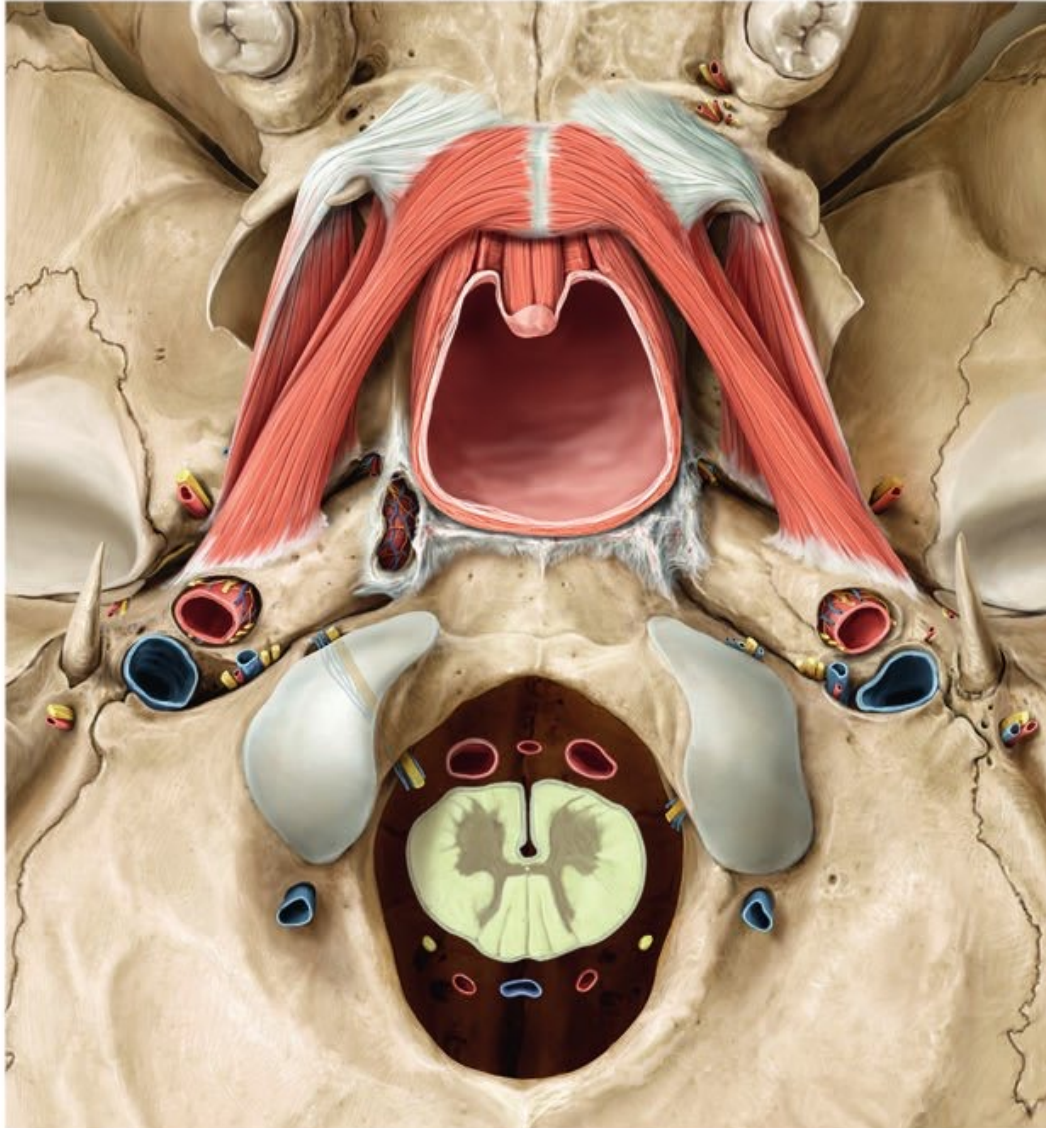
Spatium parapharyngeale



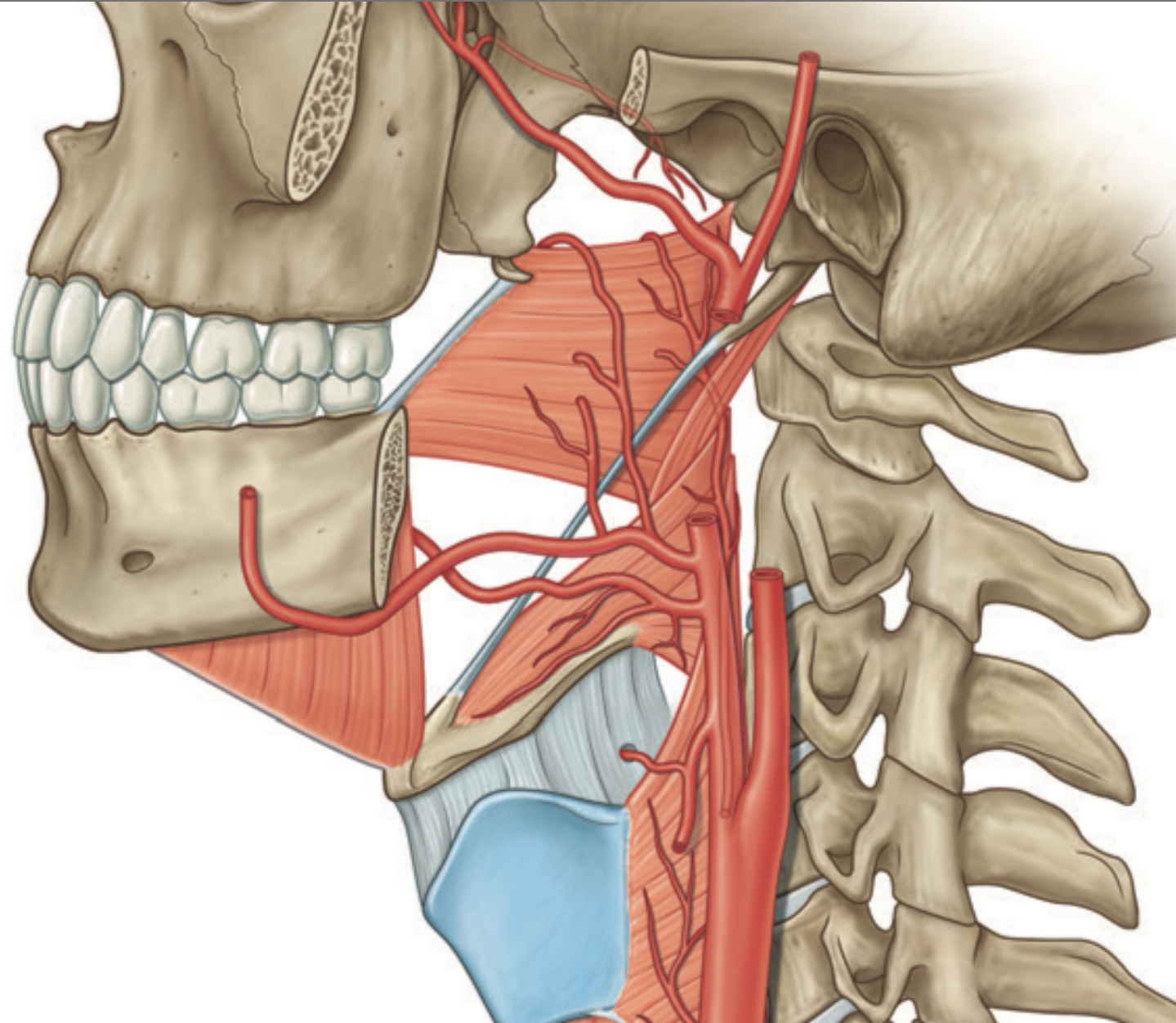
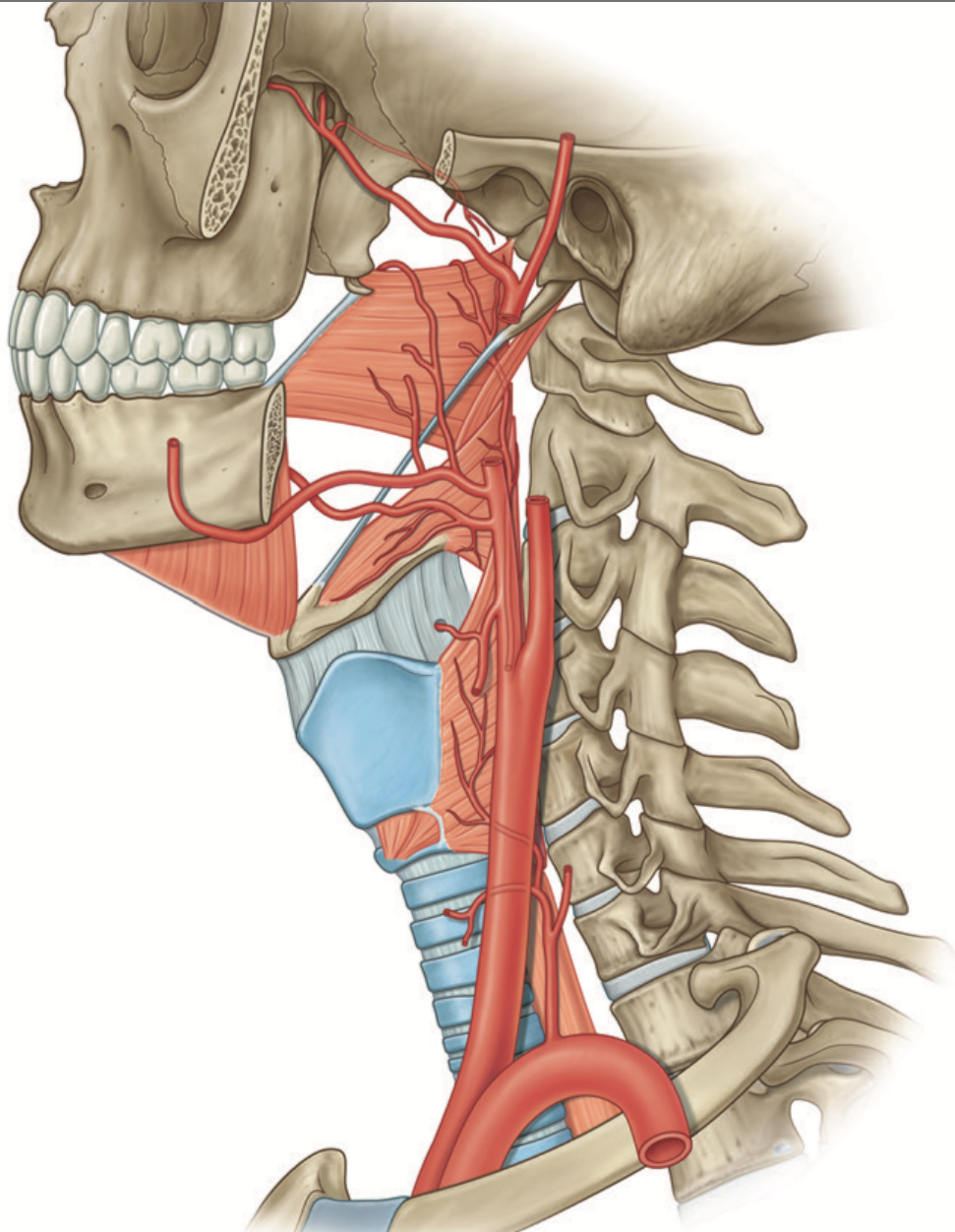
- ♦ Nervus glossopharyngeus IX
- ♦ Nervus vagus X
- ♦ Nervus accessorius XI
- ♦ Nervus hypoglossus XII
- ♦ Truncus sympathicus
- ♦ Vagina carotica
 - ♦ A. carotis interna/communis
 - ♦ V. jugularis interna
 - ♦ N. vagus
- ♦ Plexus pharyngeus



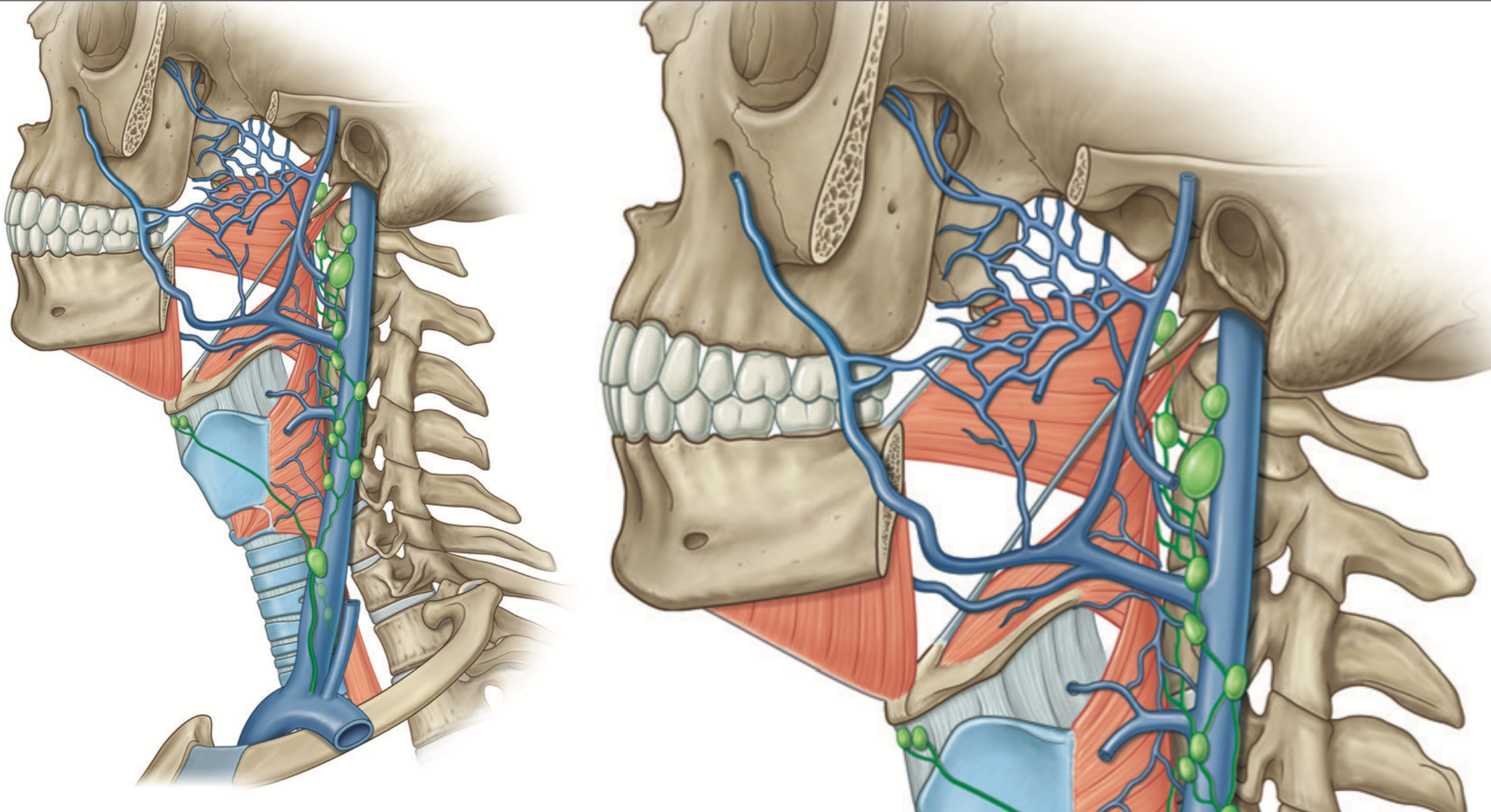
Spatium parapharyngeale



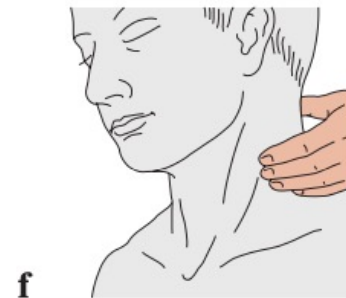
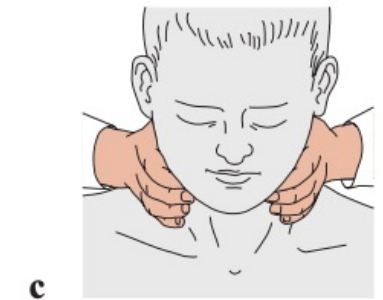
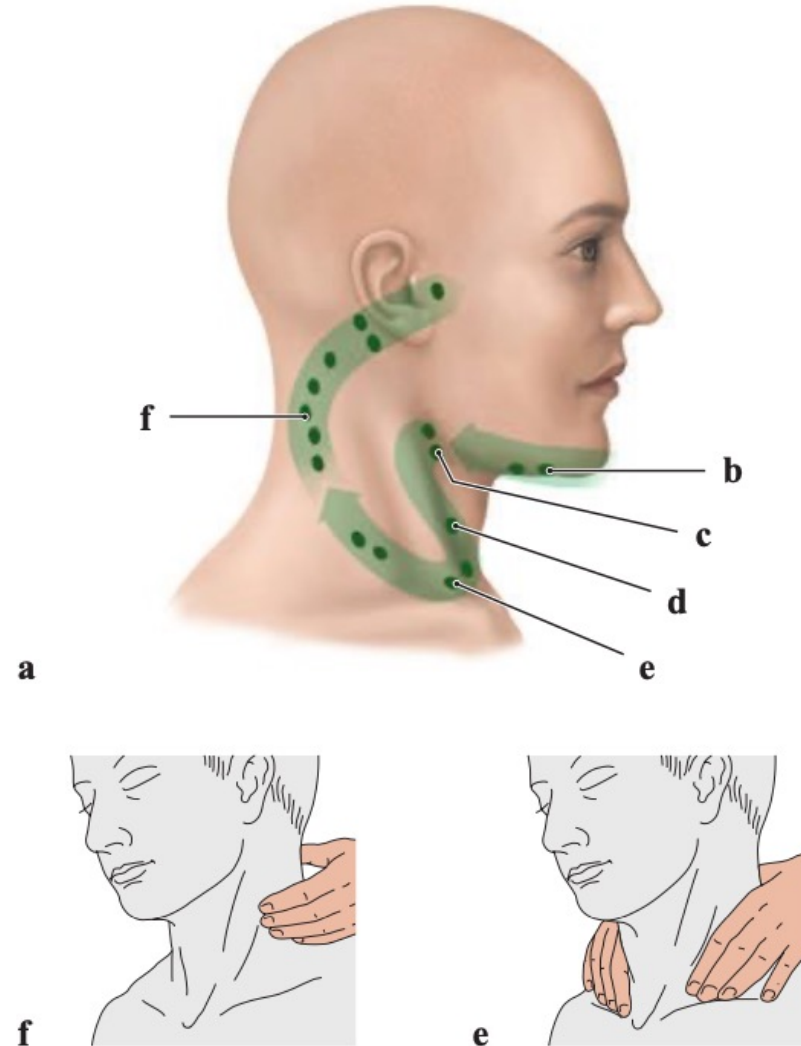
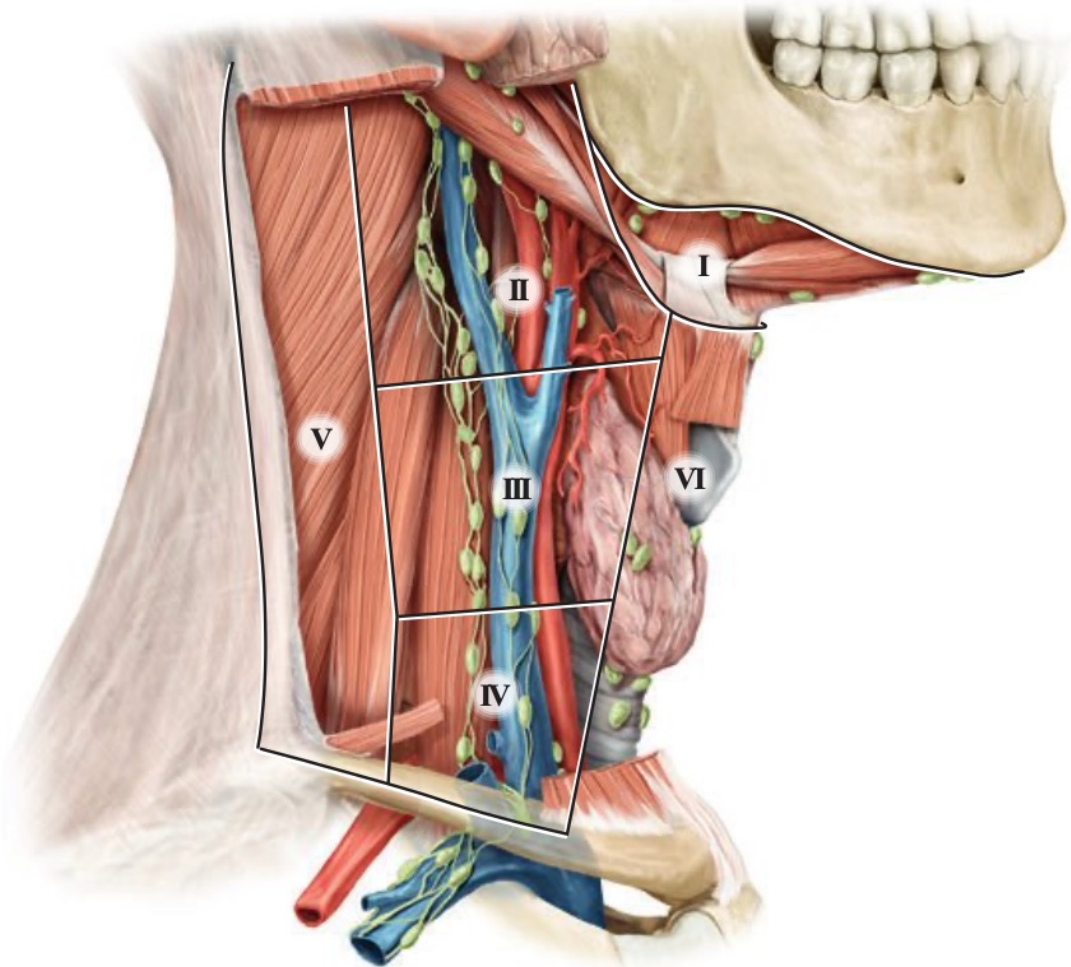
Pharyngeal arteries



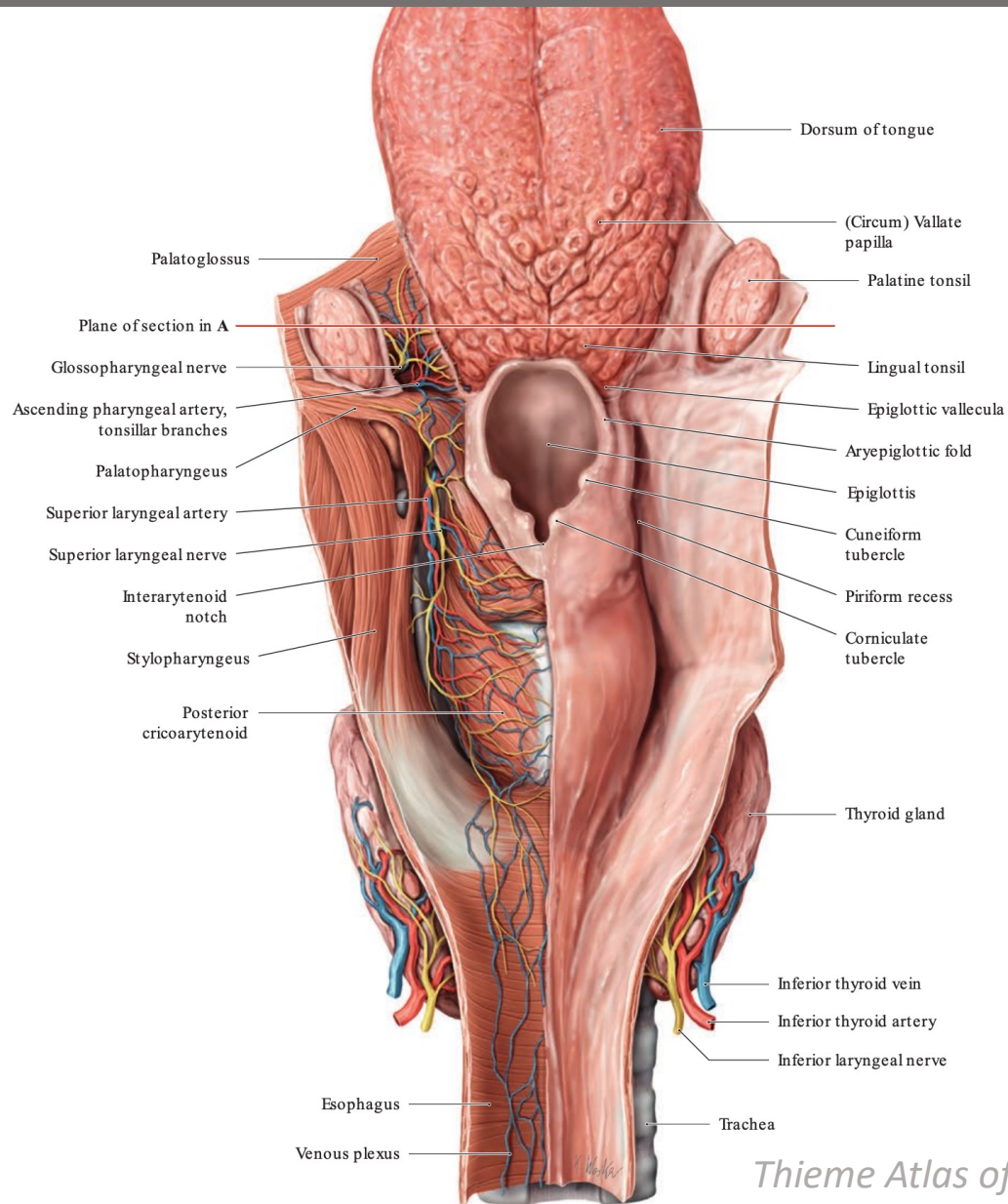
Pharyngeal veins and lymphatics



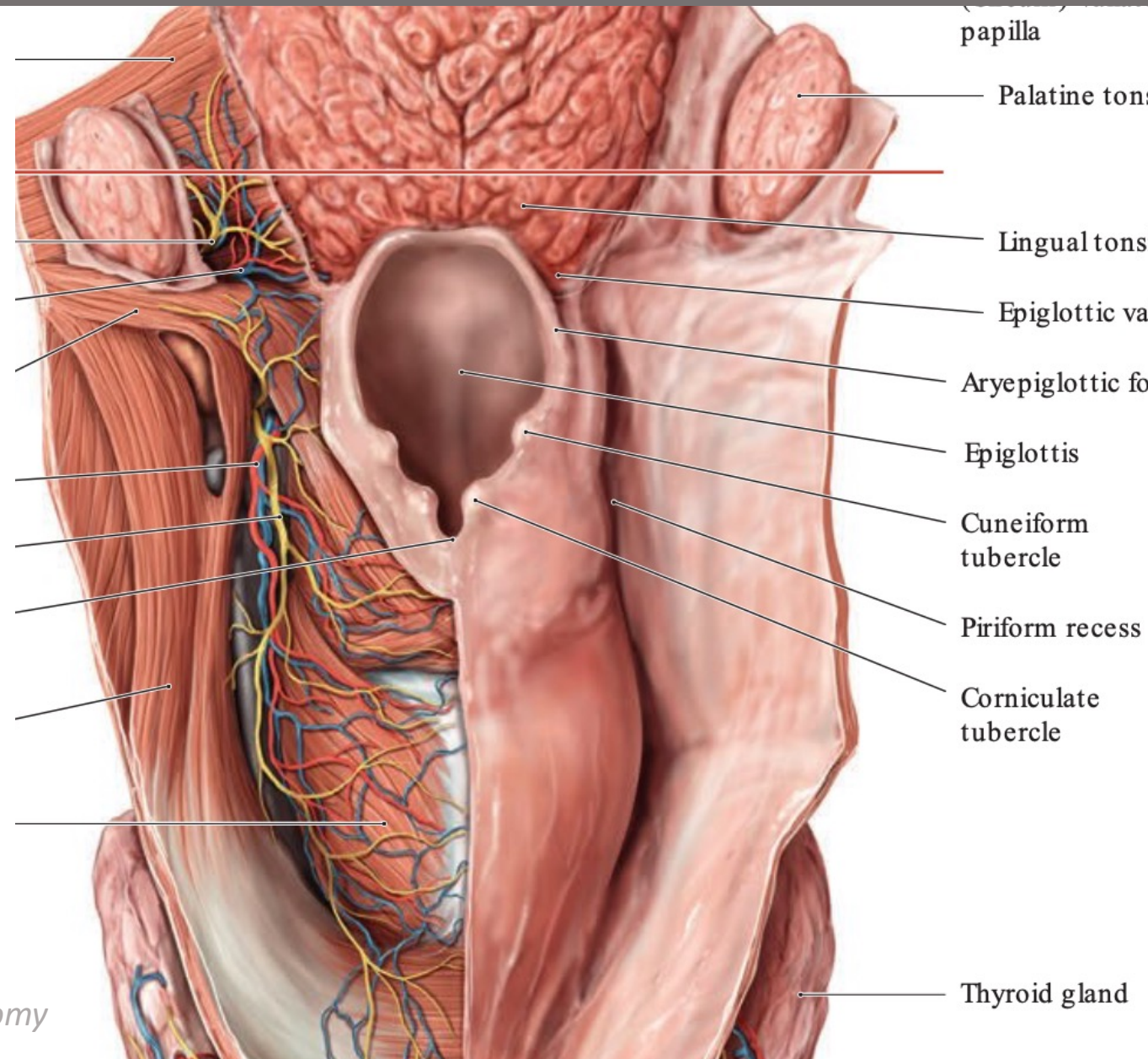
Nodi lymphatici



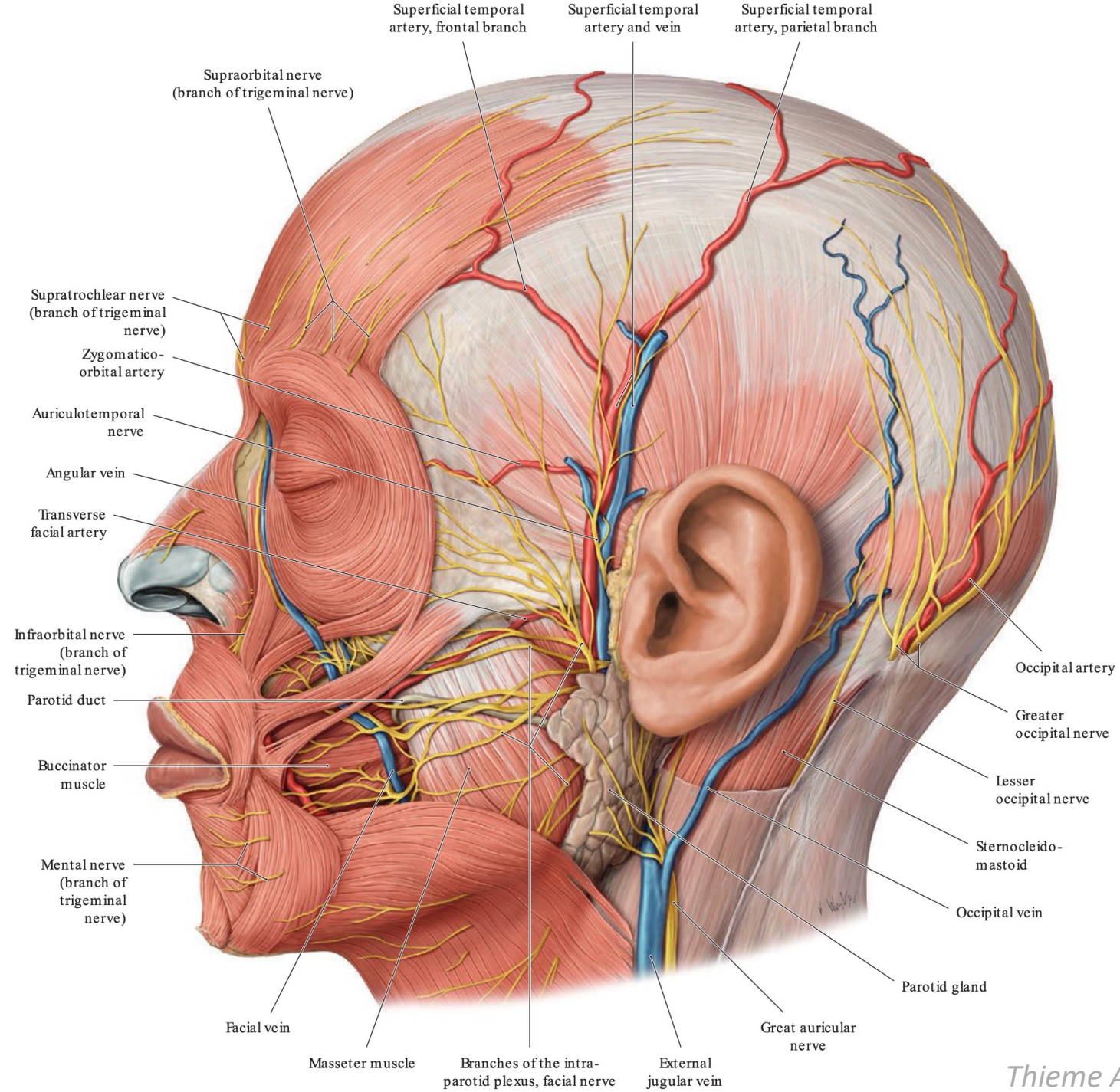
Nervi et vasa

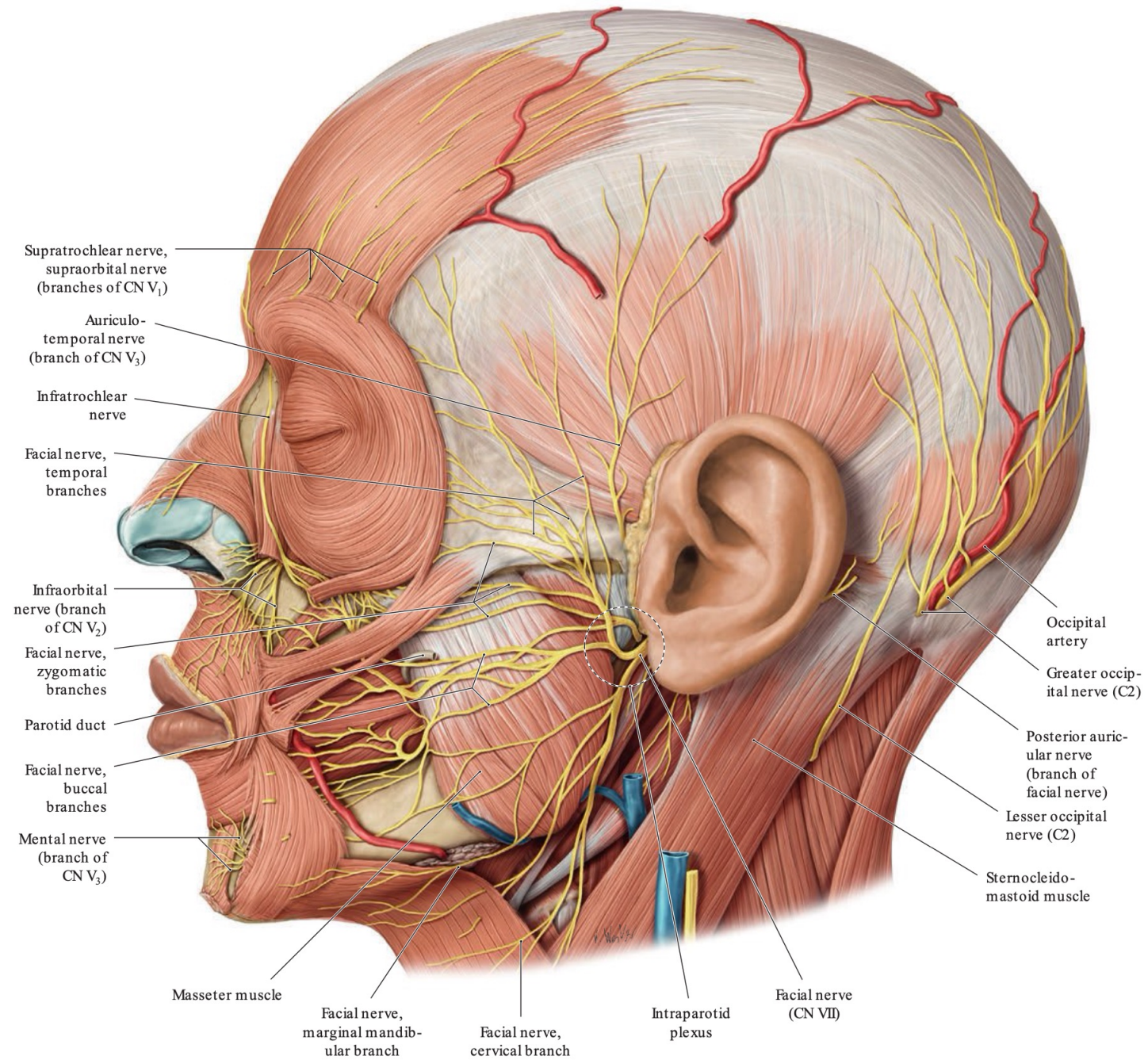


Thieme Atlas of Anatomy

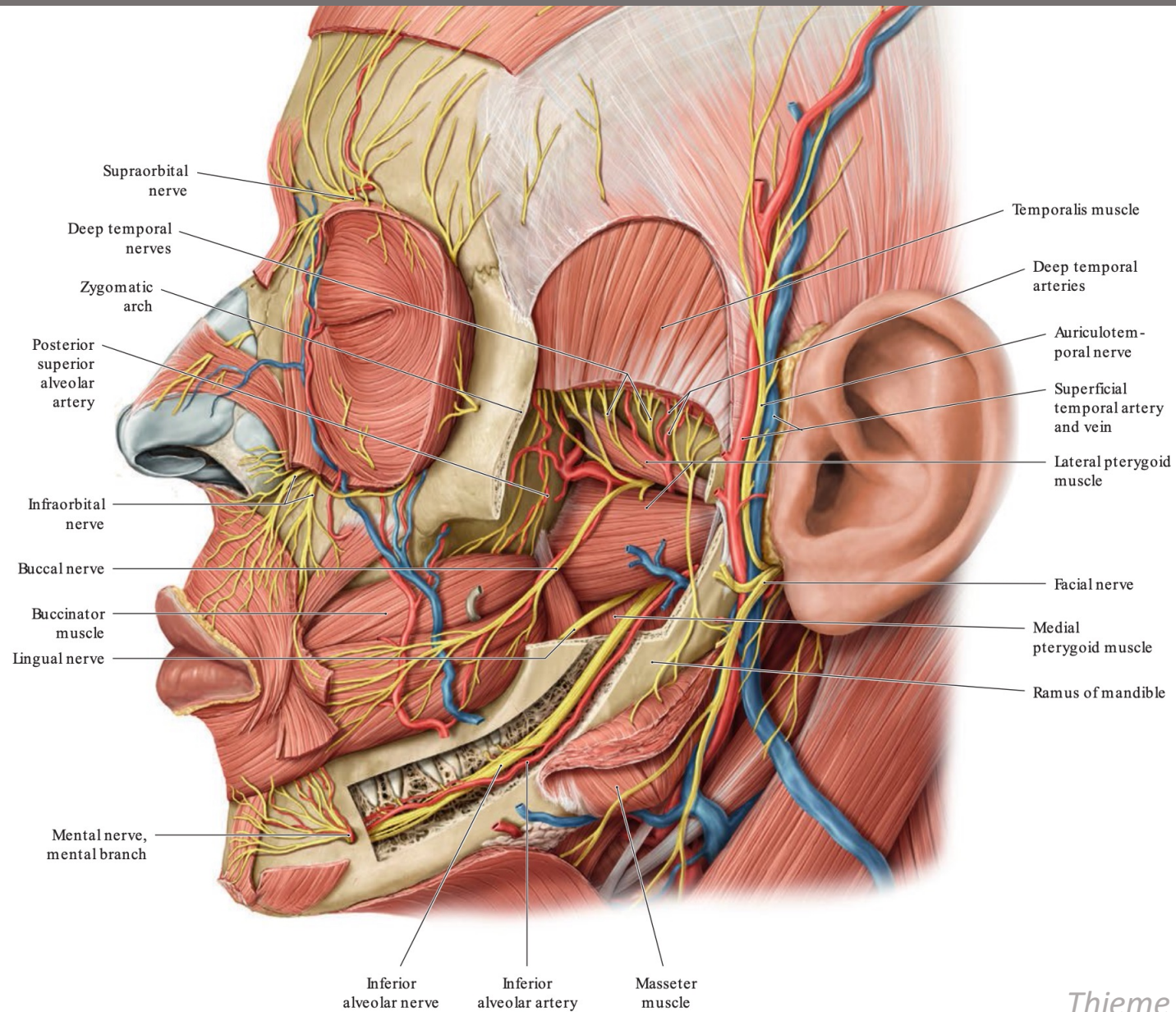


Spatia capitis et cervicis

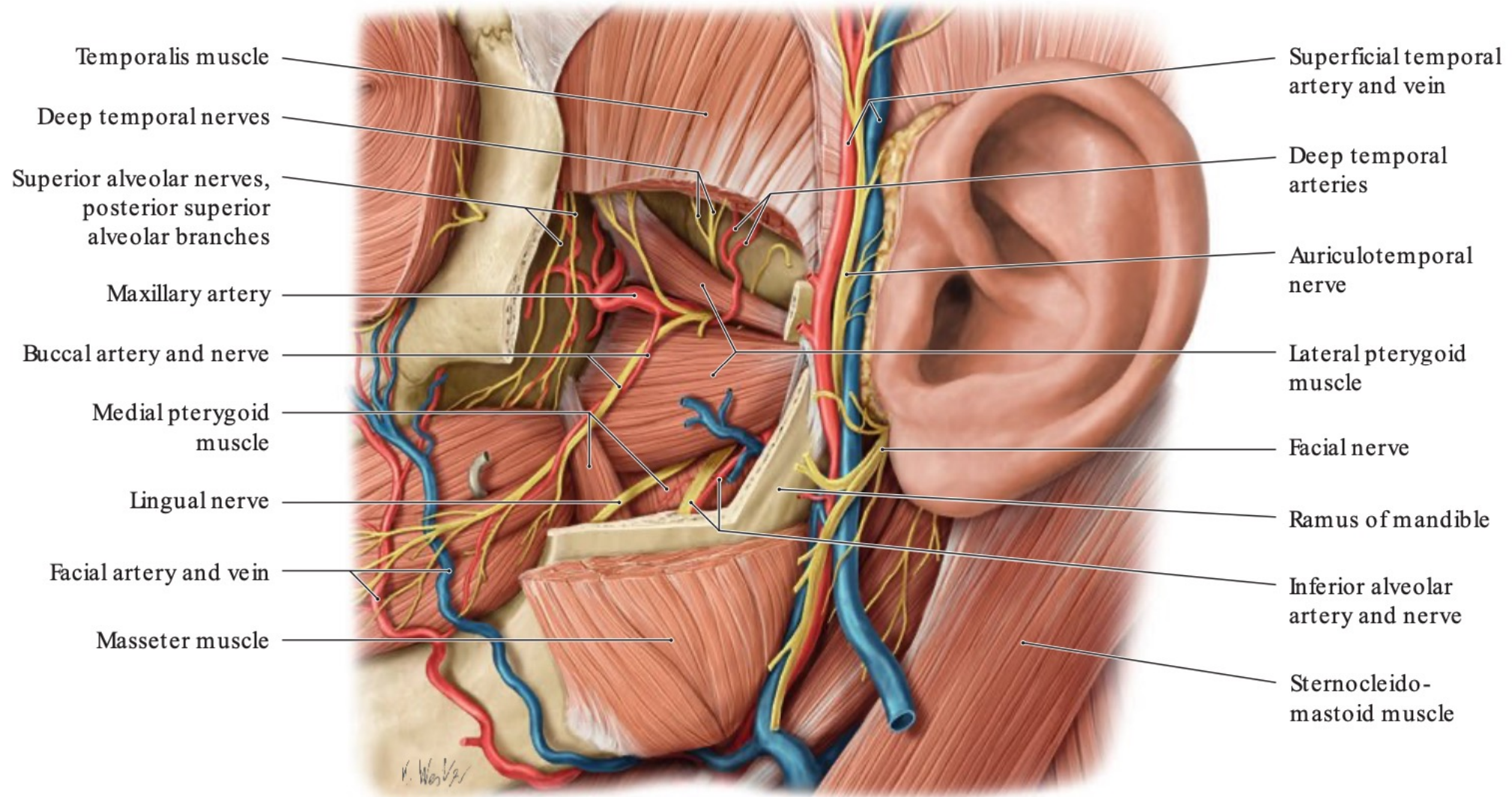




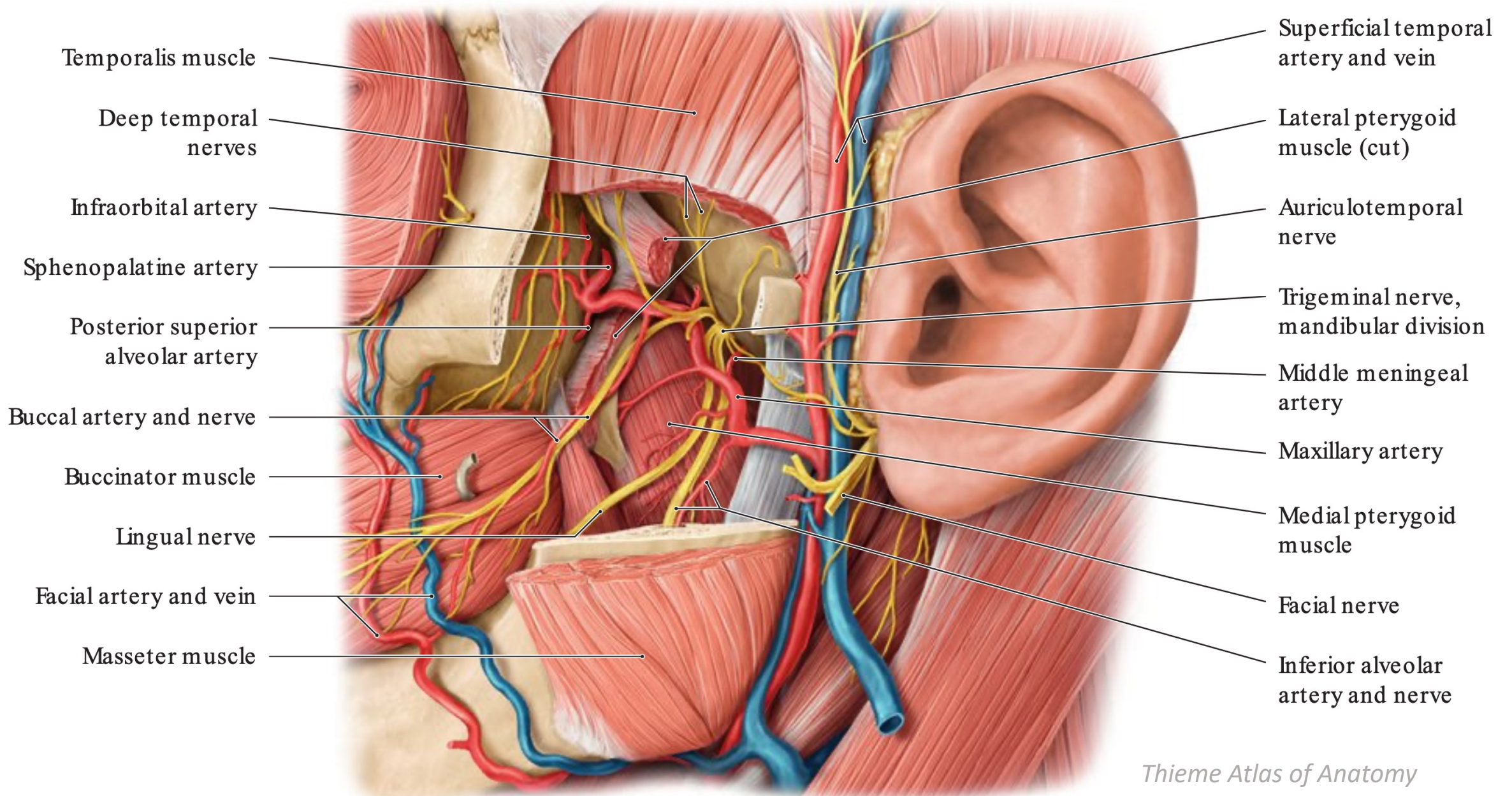
Fossa infratemporalis



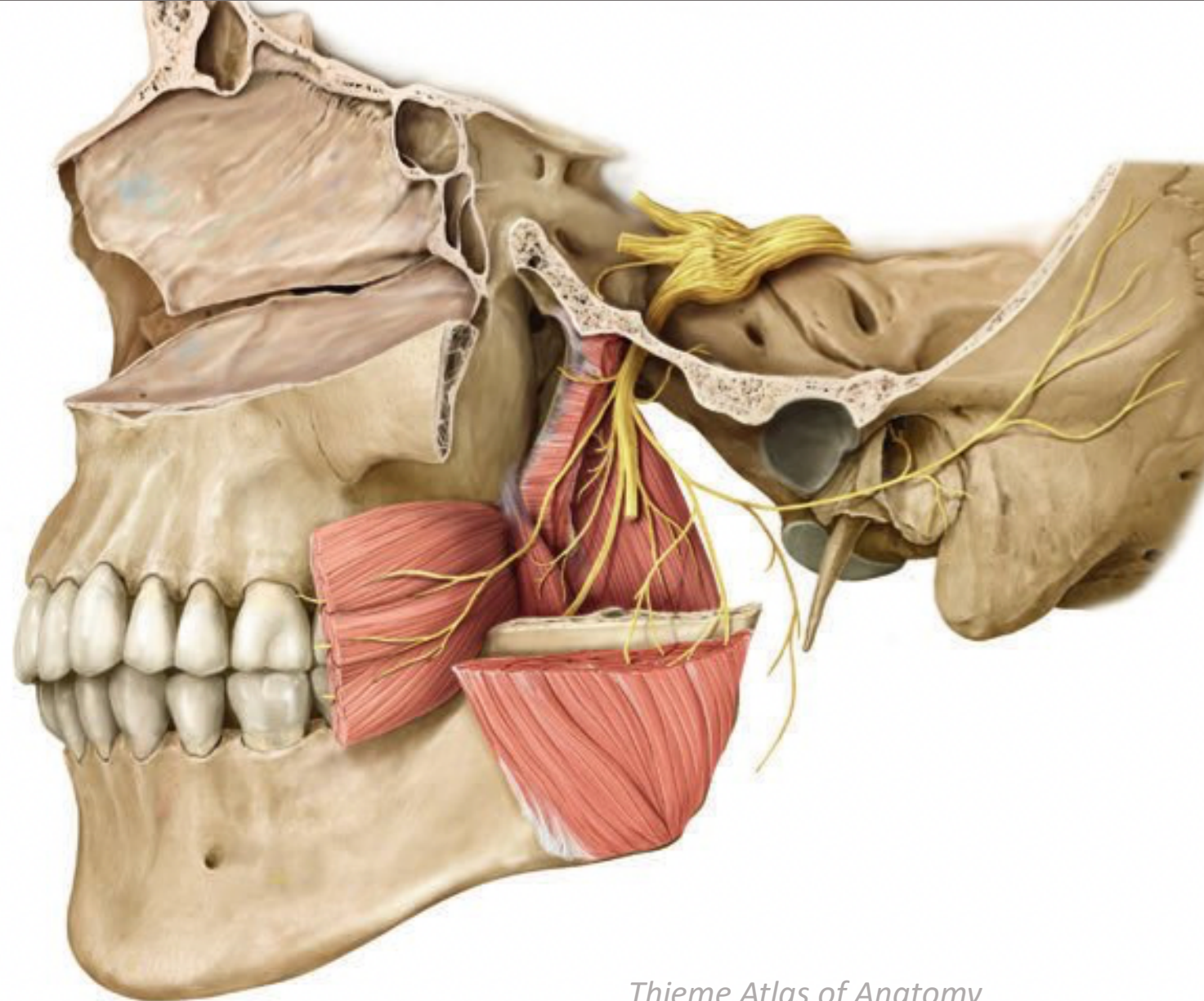
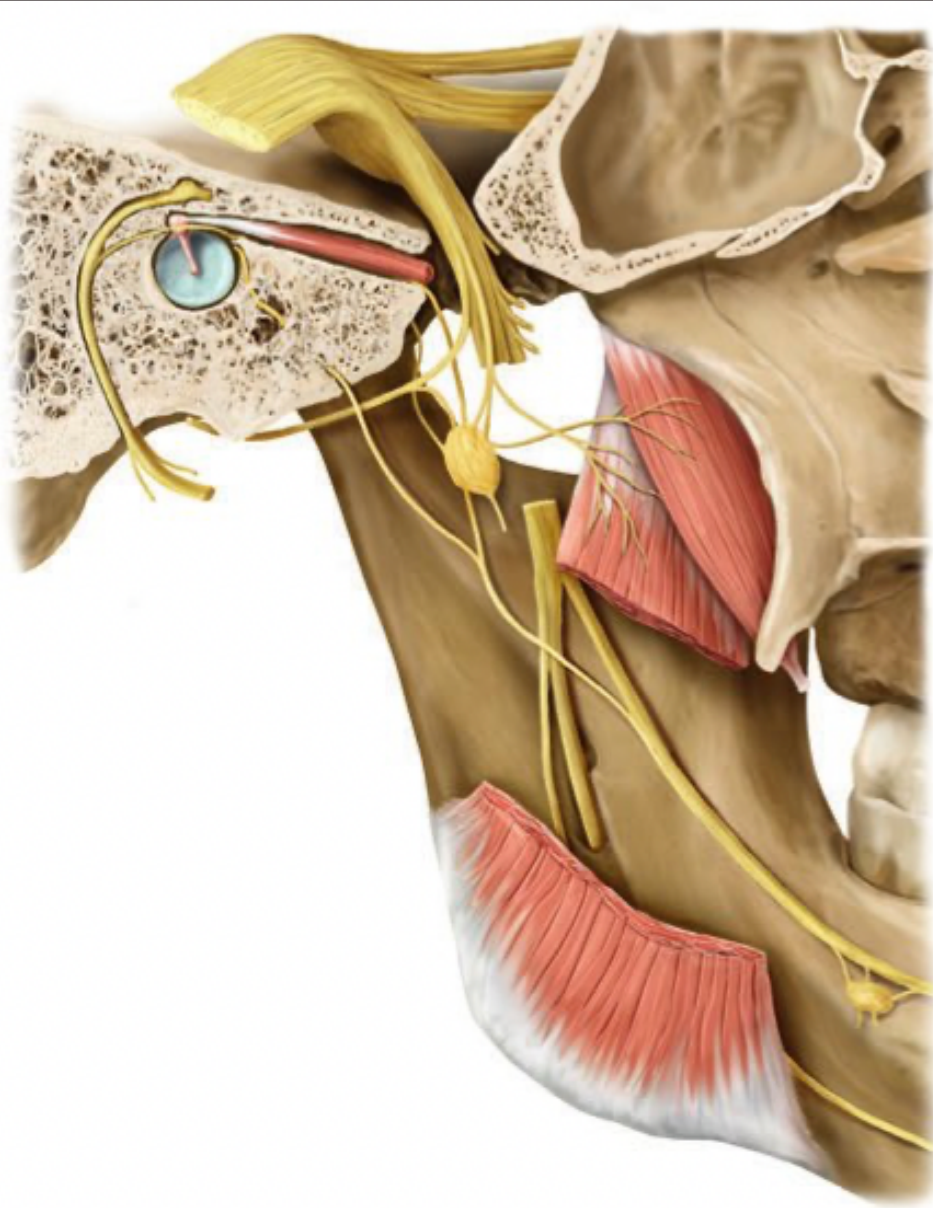
Fossa infratemporalis



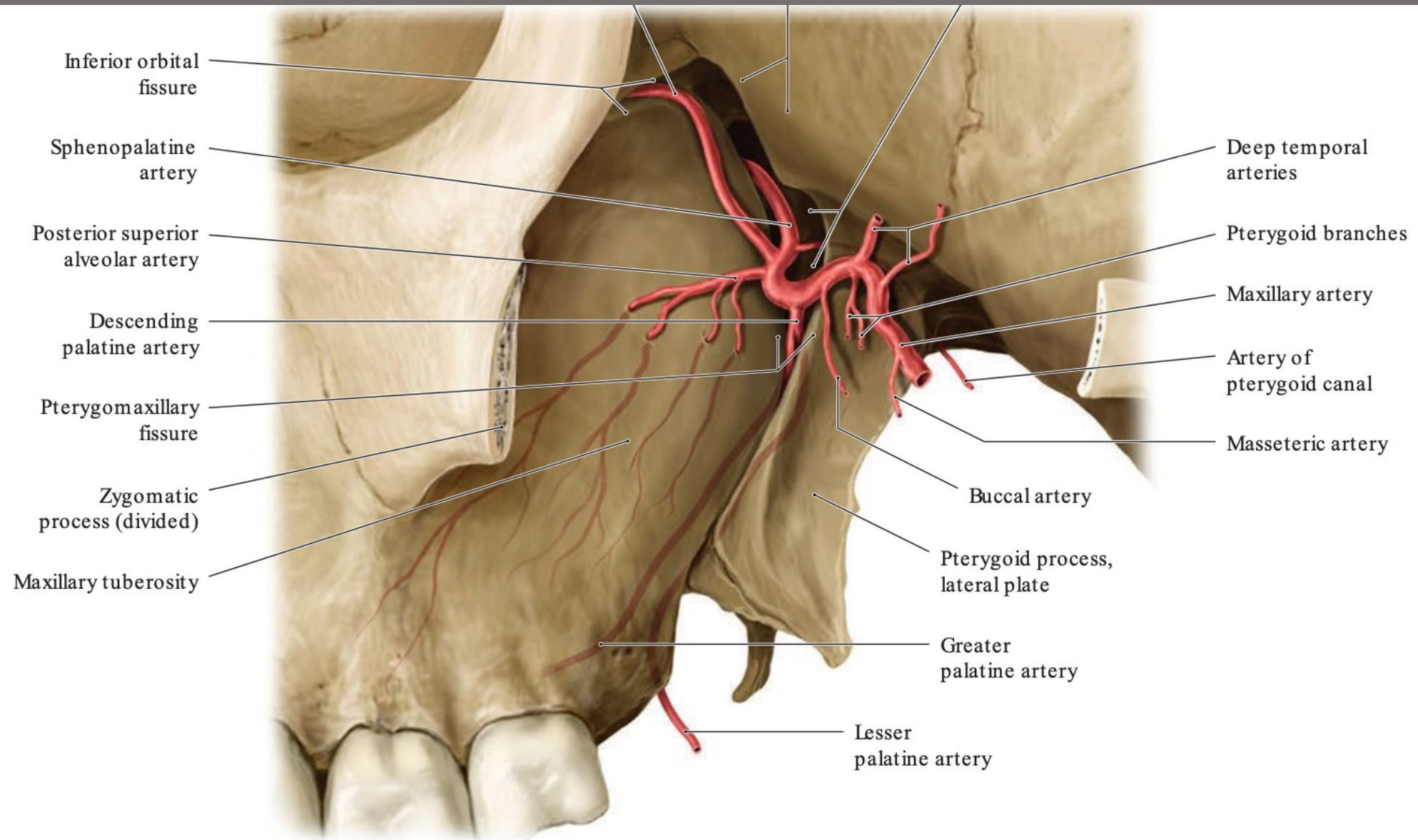
Fossa infratemporalis



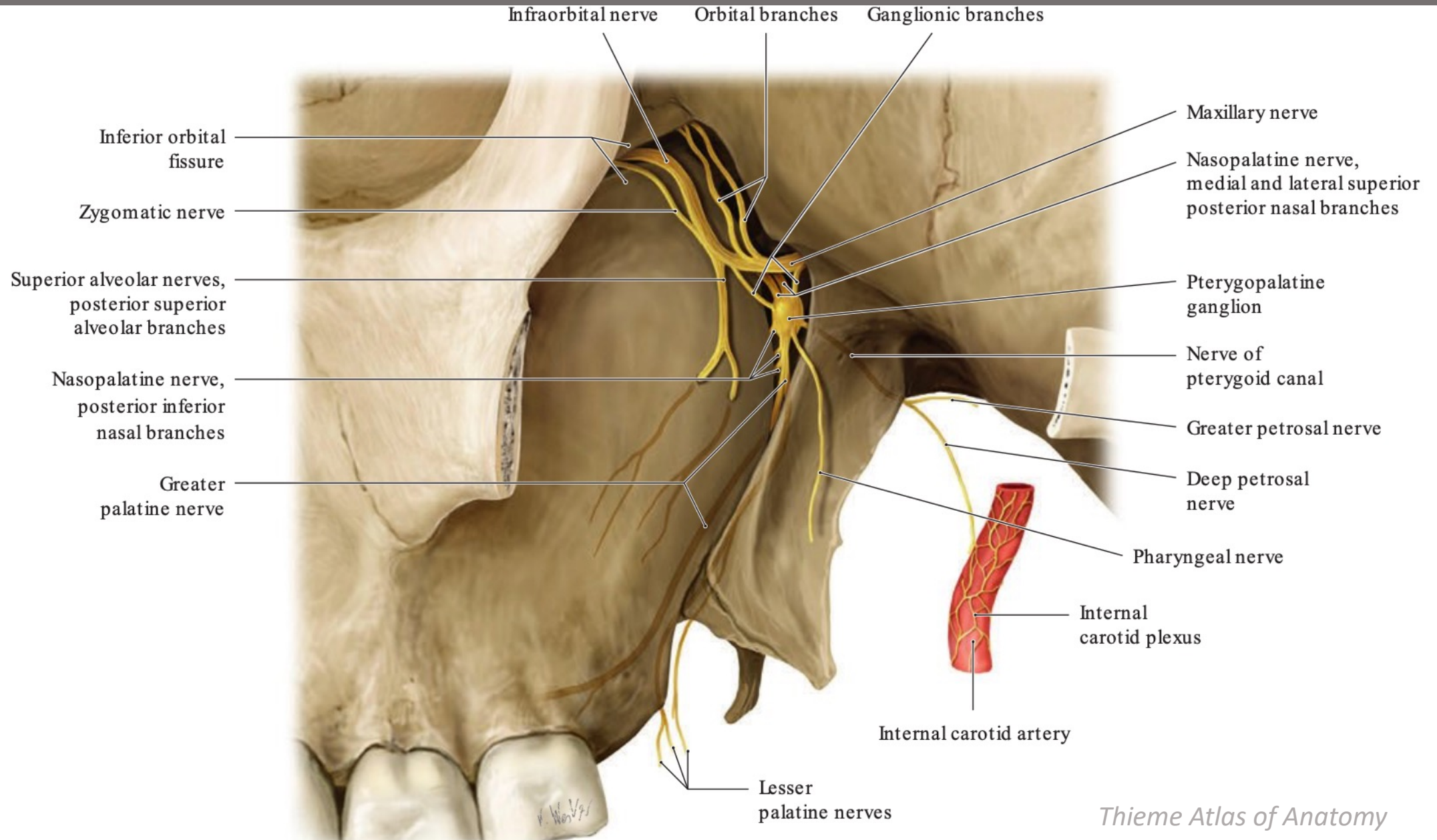
Fossa infratemporalis



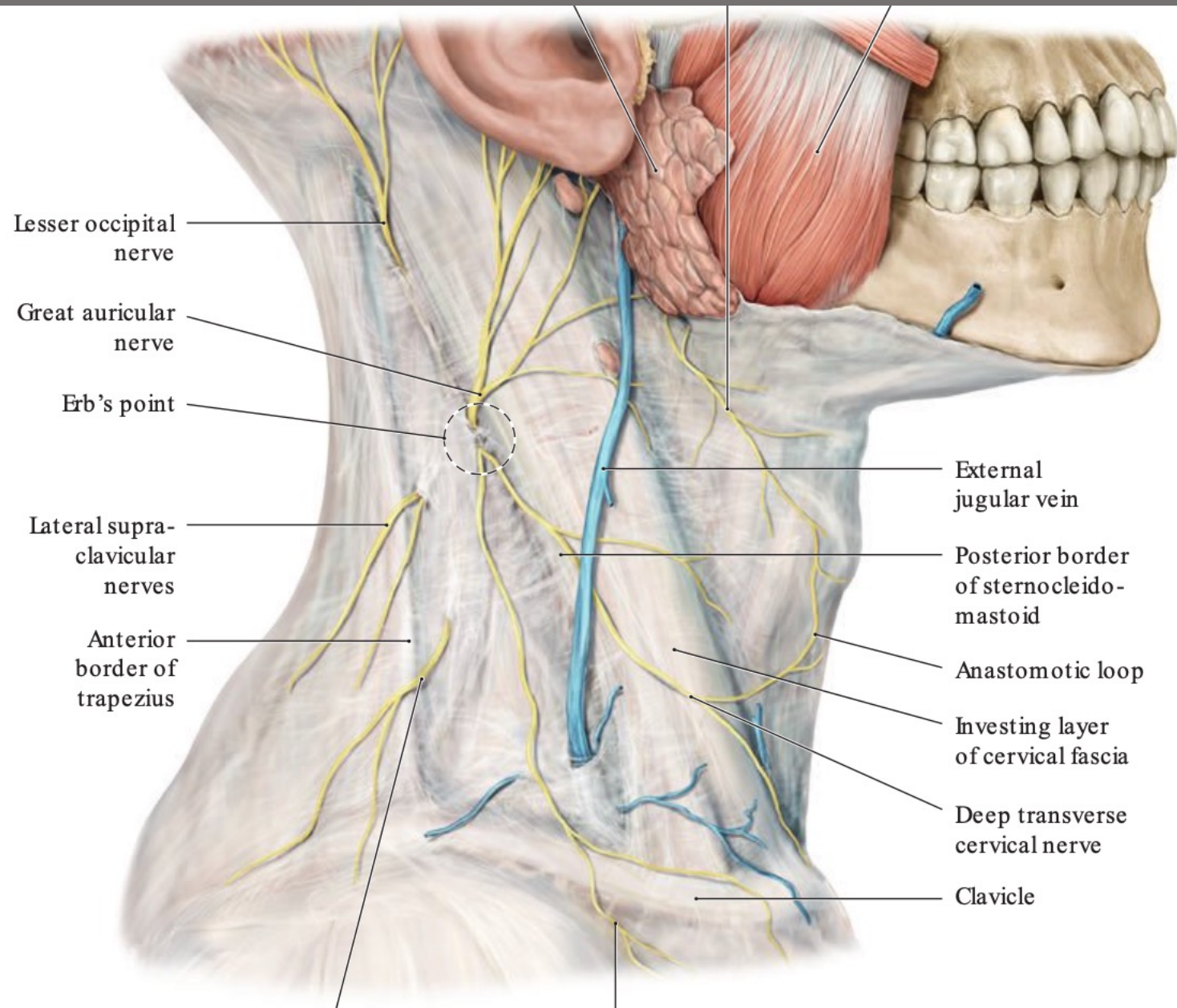
Fossa pterygopalatina



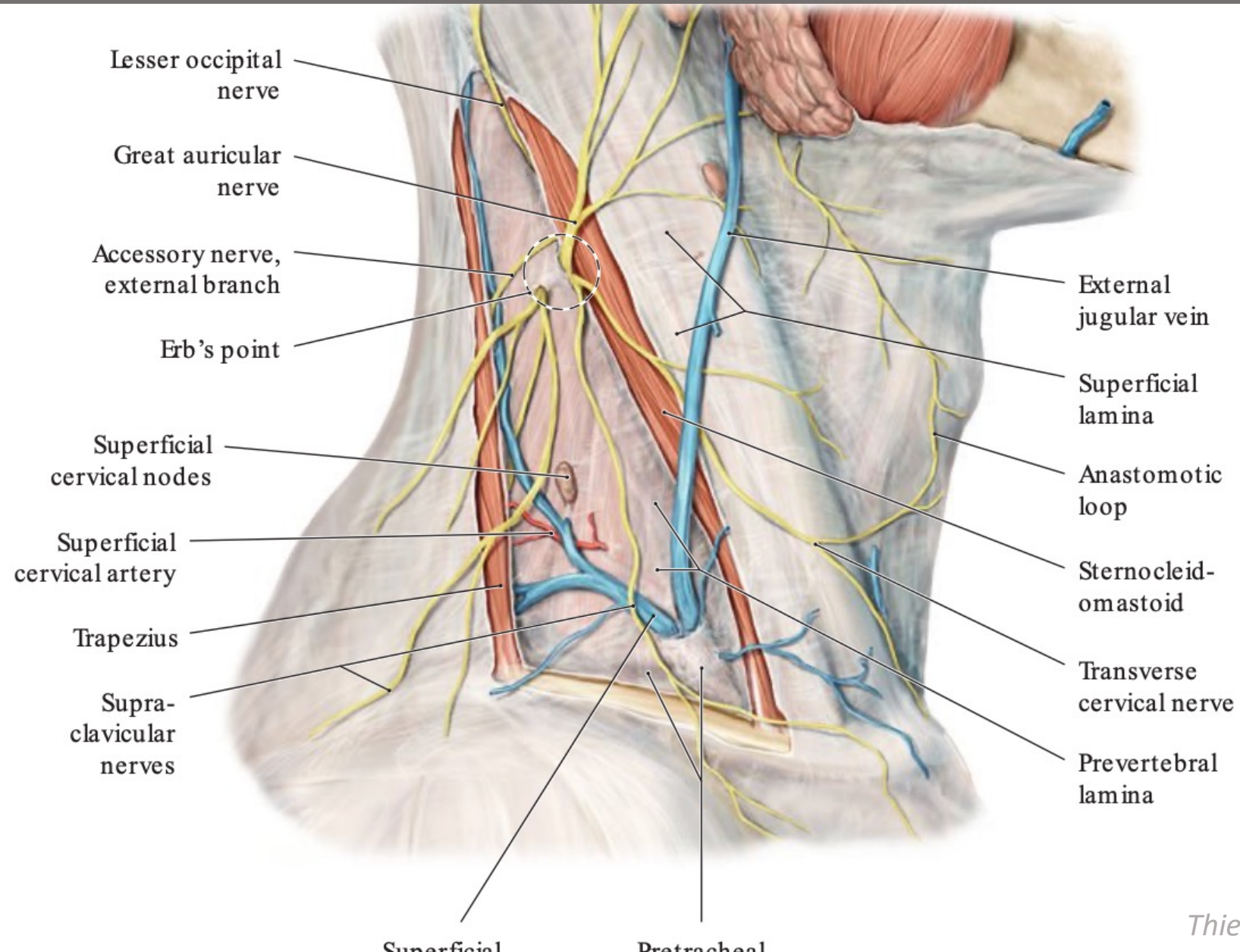
Fossa pterygopalatina



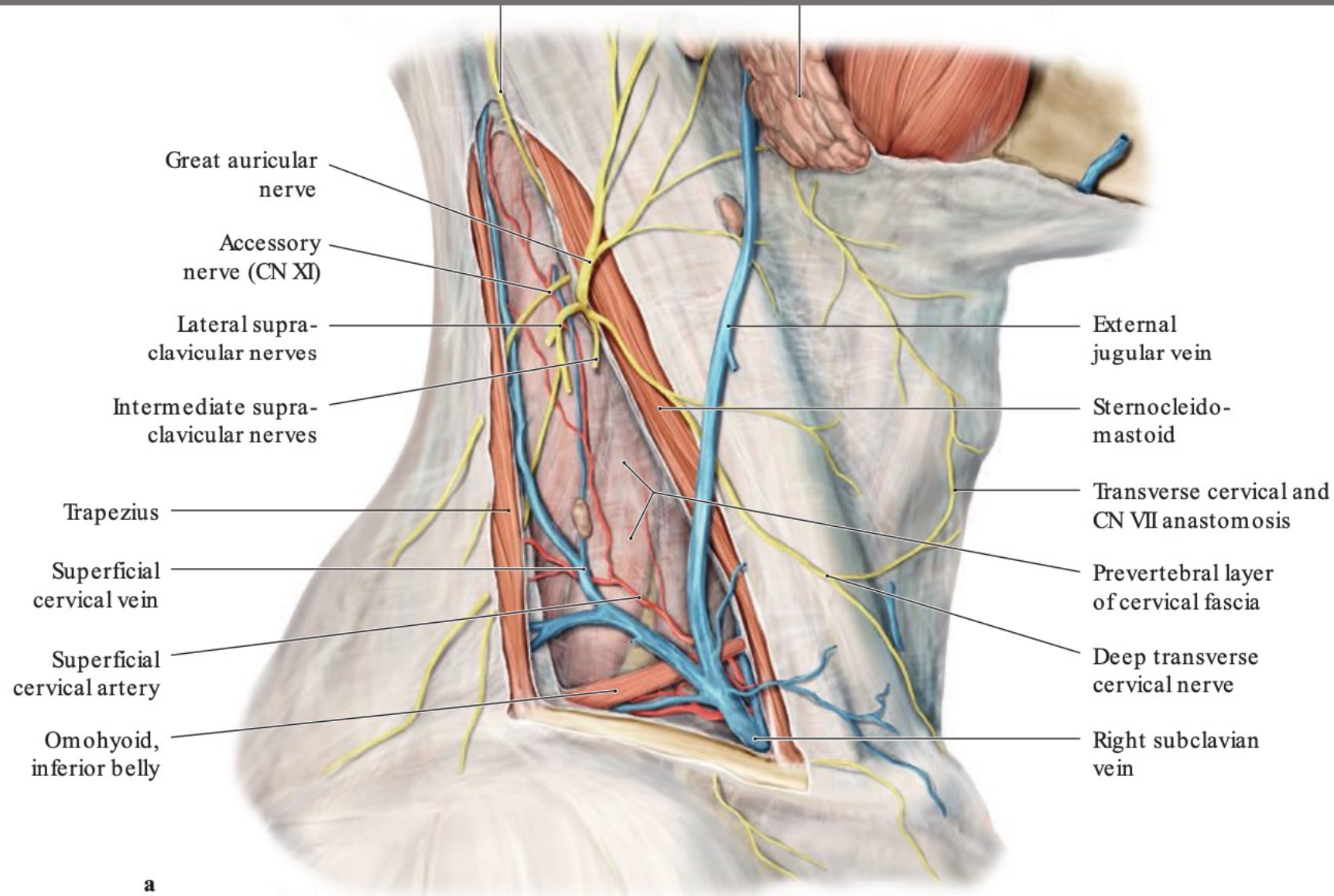
Trigonum cervicale posterius



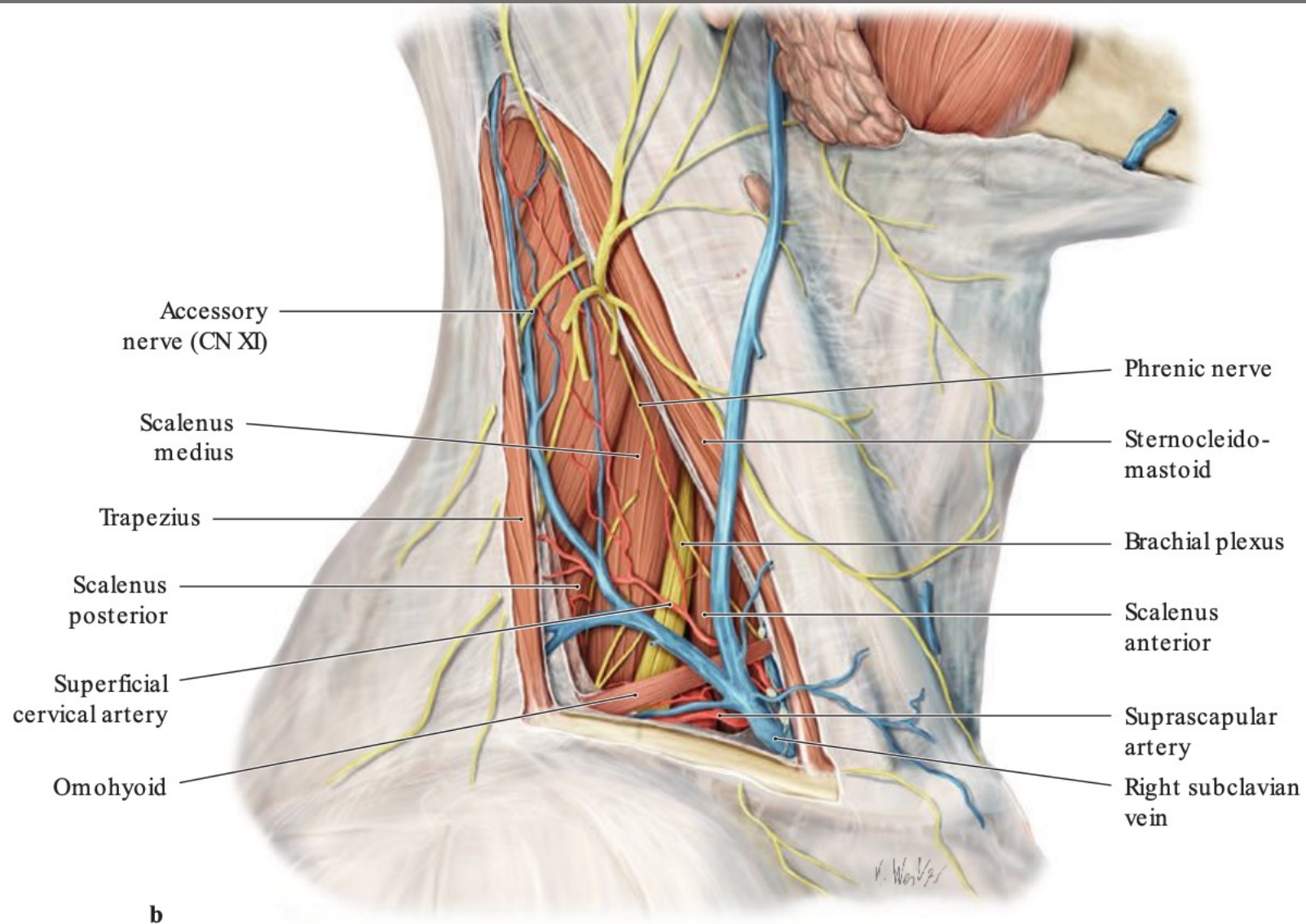
Trigonum cervicale posterius



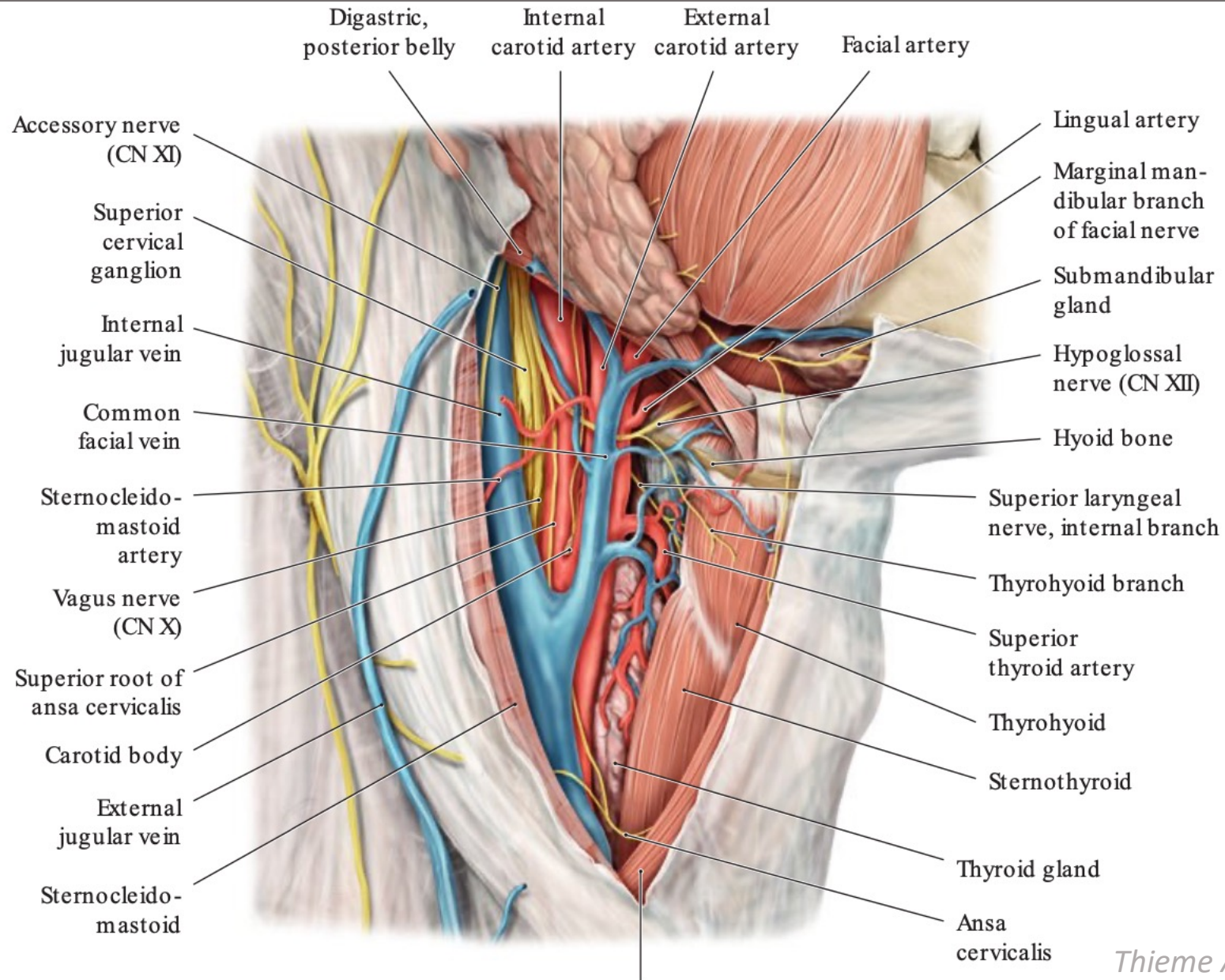
Trigonum cervicale posterius



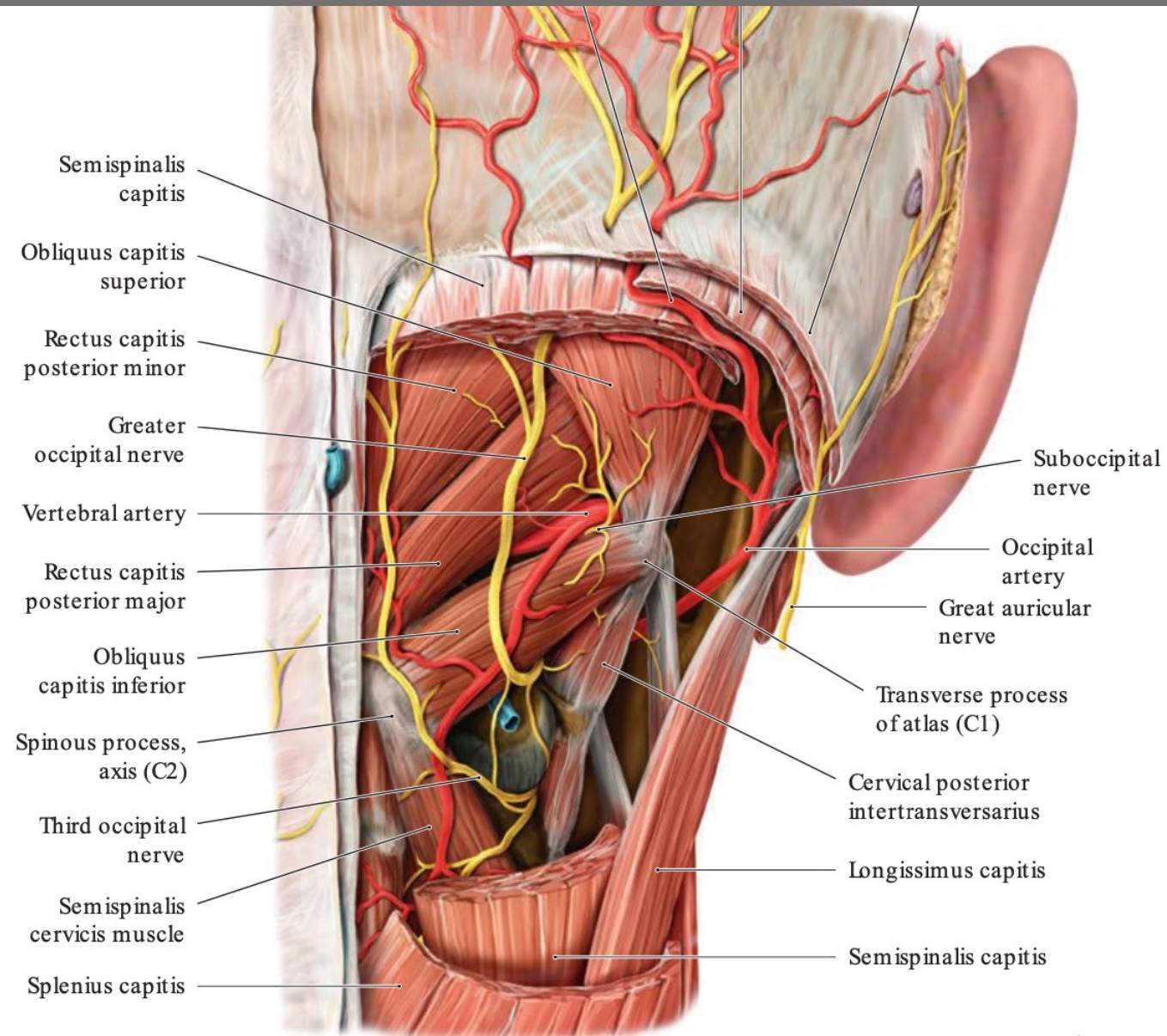
Trigonum cervicale posterius



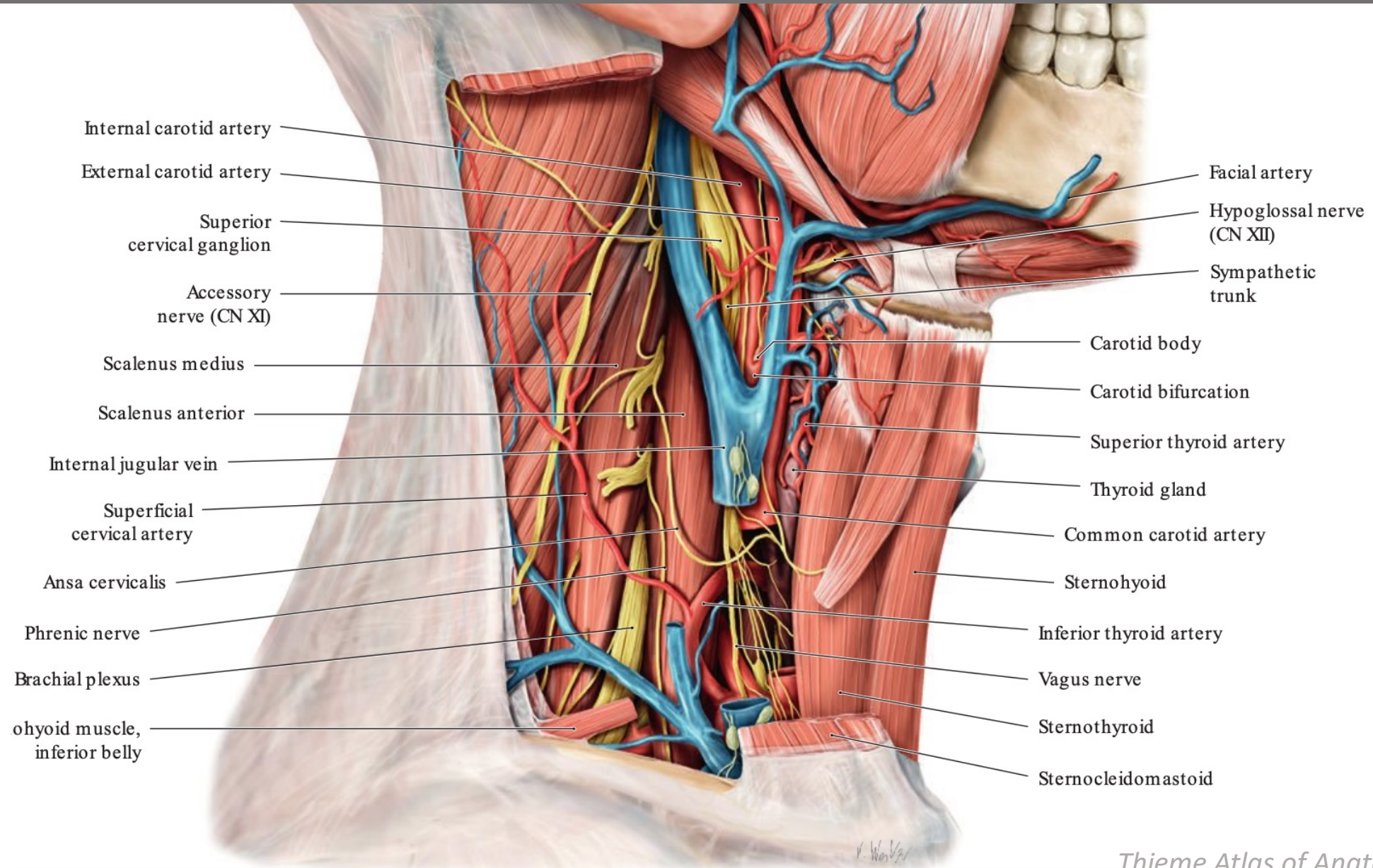
Trigonum caroticum



Trigonum suboccipitale



Spatium cervicale laterale



Spatia capitis et cervicis