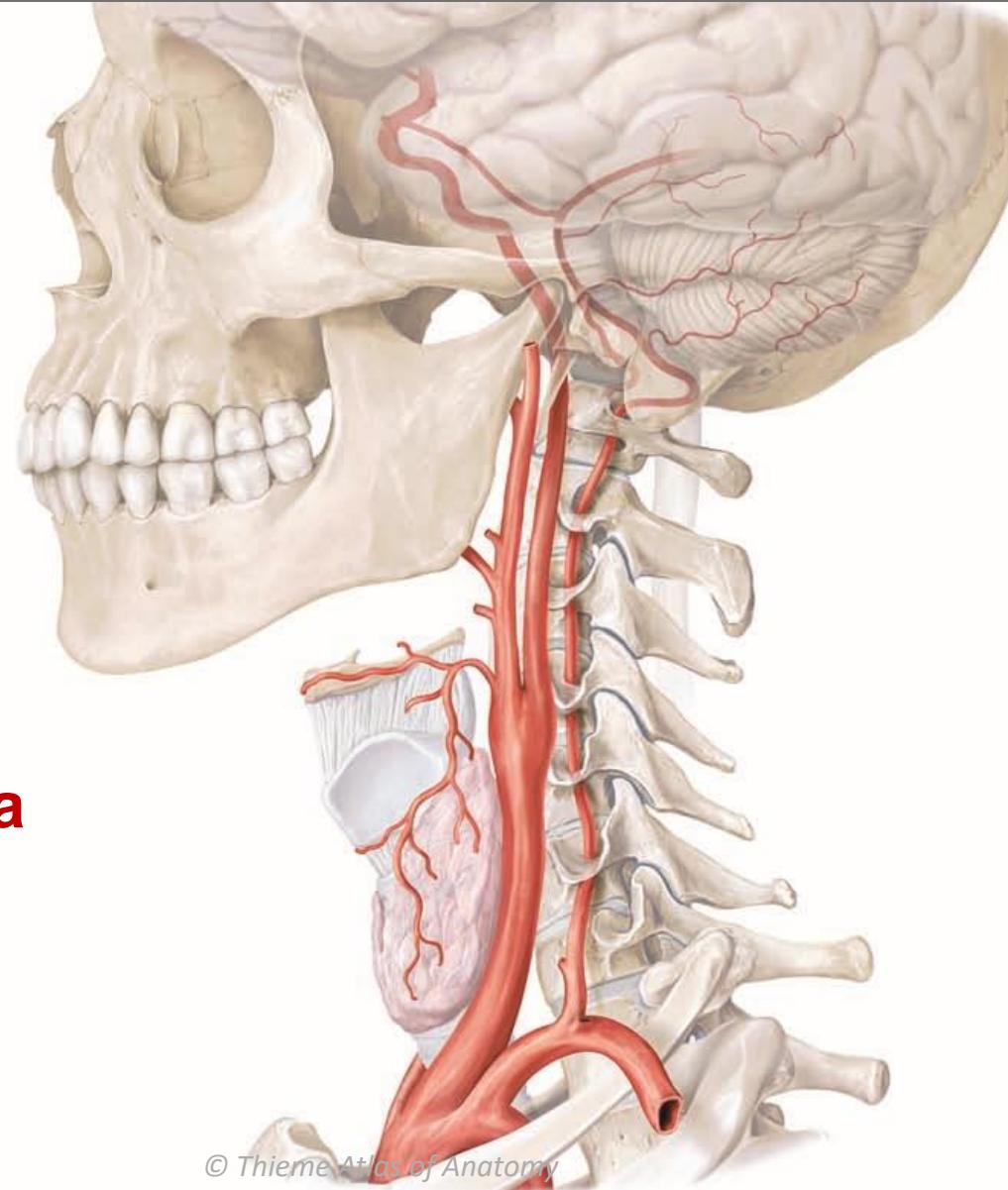


Arteriae cervicis

- A. vertebralis
- A. carotis communis
- A. carotis externa
- A. carotis interna

- Tr. brachiocephalus
 - A. carotis communis dextra
 - A. subclavia dextra
- A. carotis communis sinistra
- A. subclavia sinistra



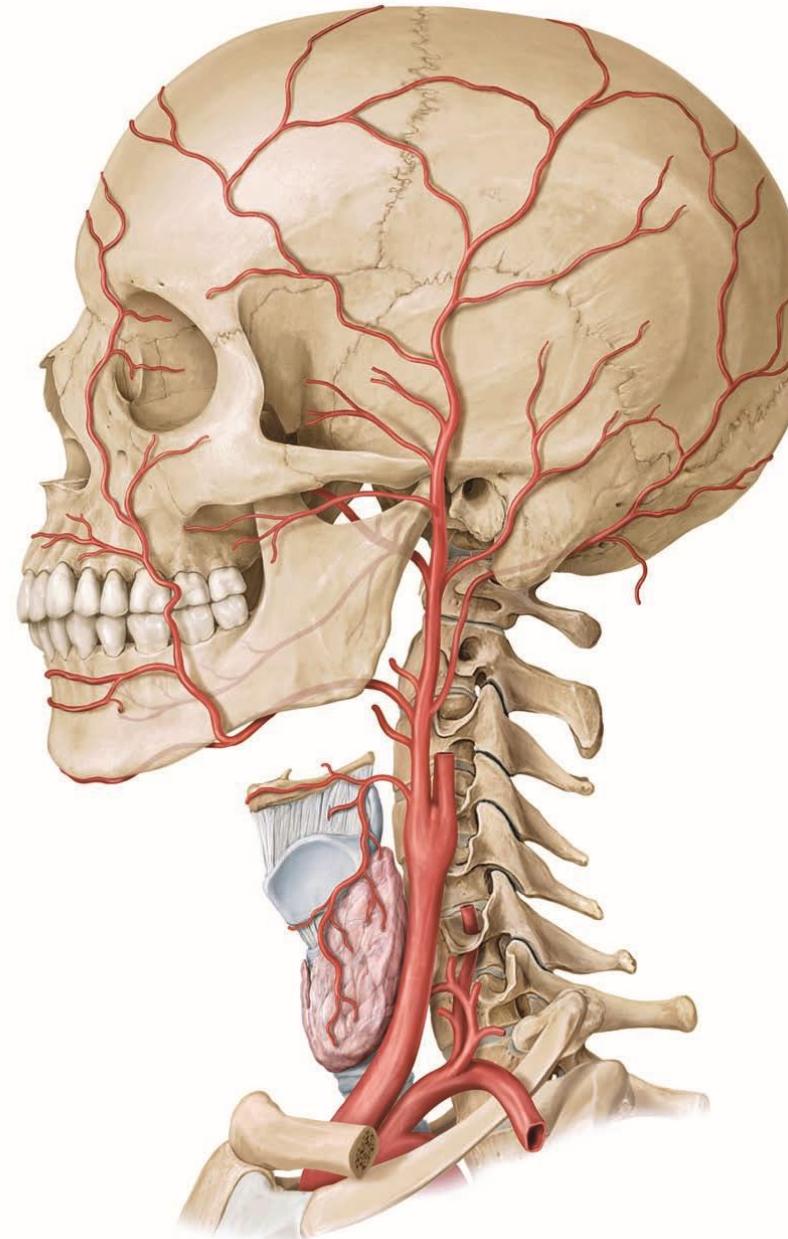
Arteriae cervicis

- A. vertebralis
- A. carotis communis
- A. carotis externa
- A. carotis interna

- Tr. brachiocephalus
 - A. carotis communis dextra
 - A. subclavia dextra
- A. carotis communis sinistra
- A. subclavia sinistra

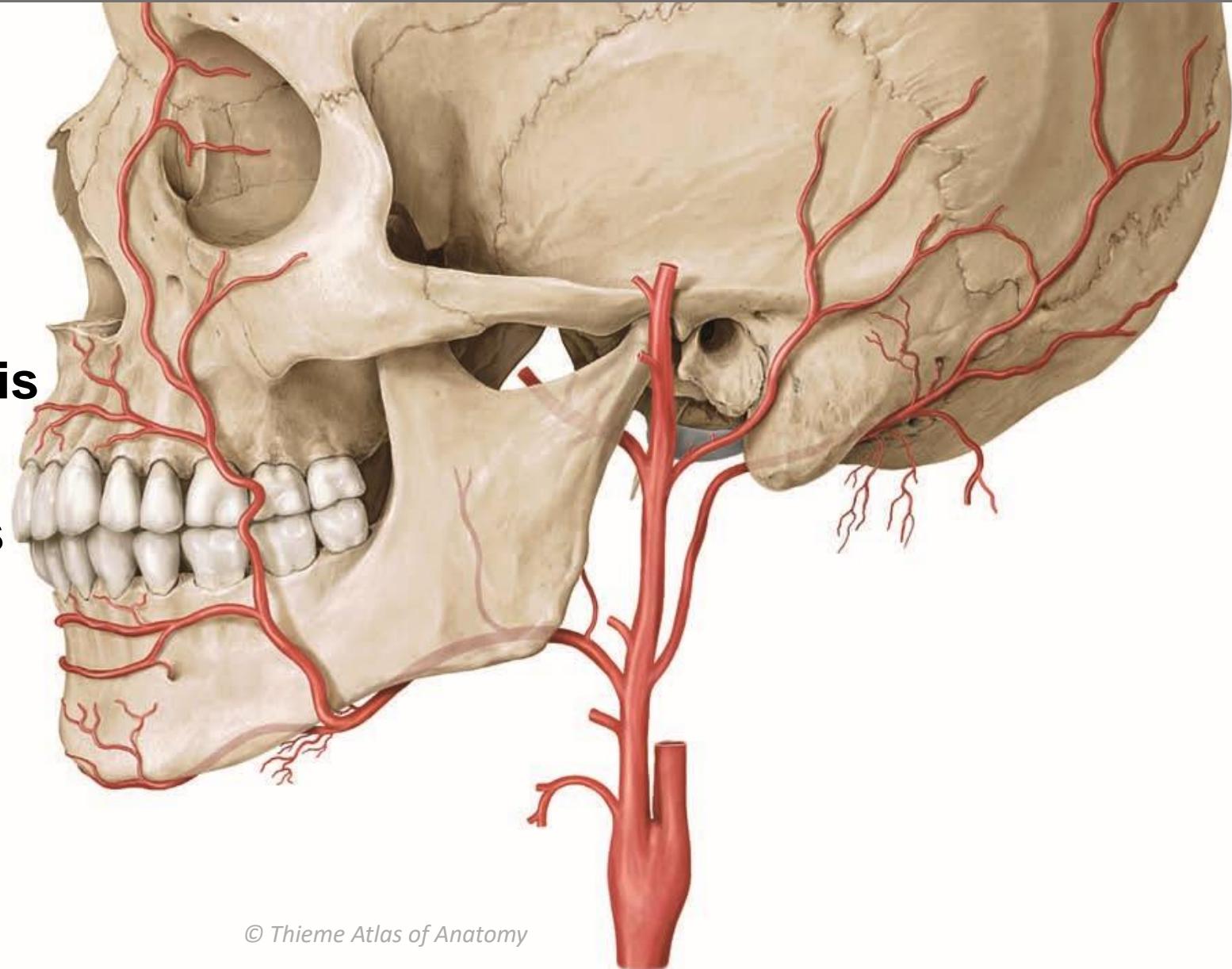
a. carotis

- A. carotis communis
- A. carotis externa
- A. carotis interna



a. carotis externa

- A. thyroidea superior
 - A. lingualis
 - A. facialis
 - A. maxillaris
 - A. temporalis superficialis
-
- A. pharyngea ascendens
 - A. occipitalis
 - A. auricularis posterior

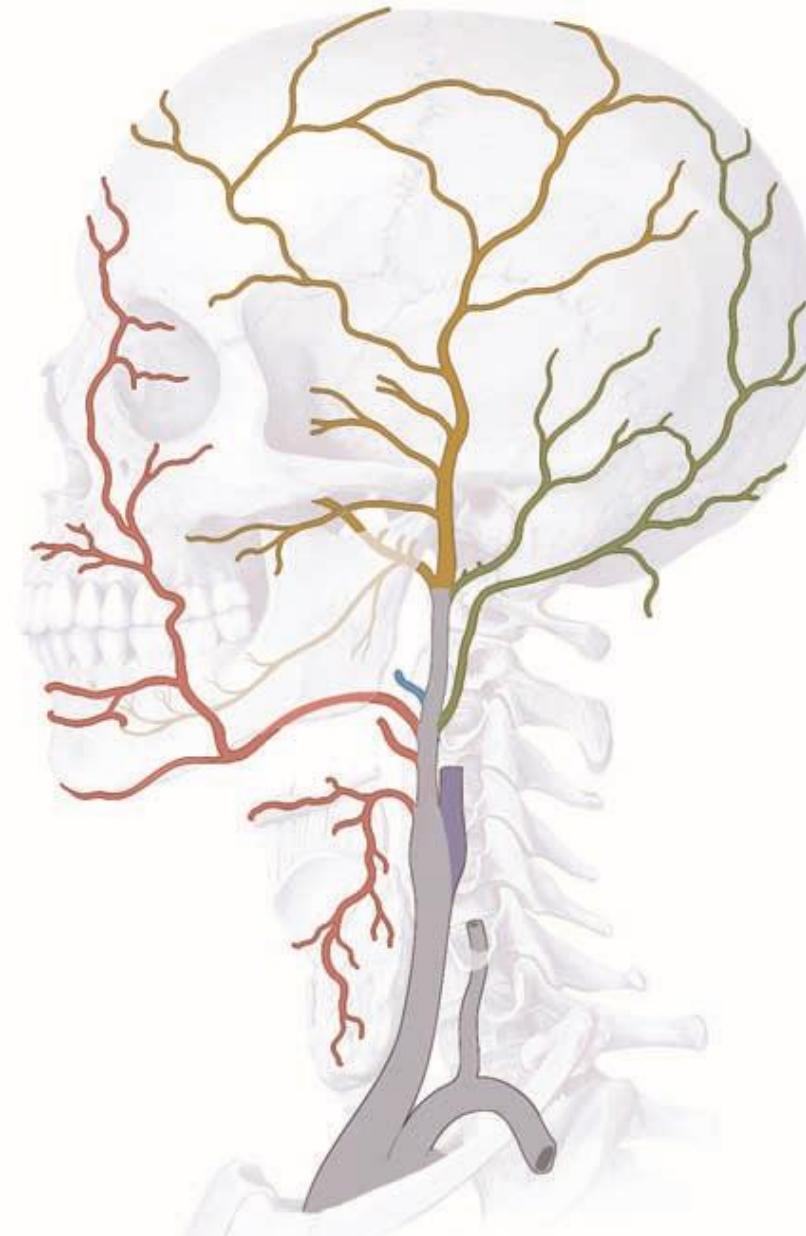


a. carotis externa

- A. thyroidea superior
 - A. lingualis
 - A. facialis
 - A. maxillaris
 - A. temporalis superficialis
-
- A. pharyngea ascendens
 - A. occipitalis
 - A. auricularis posterior

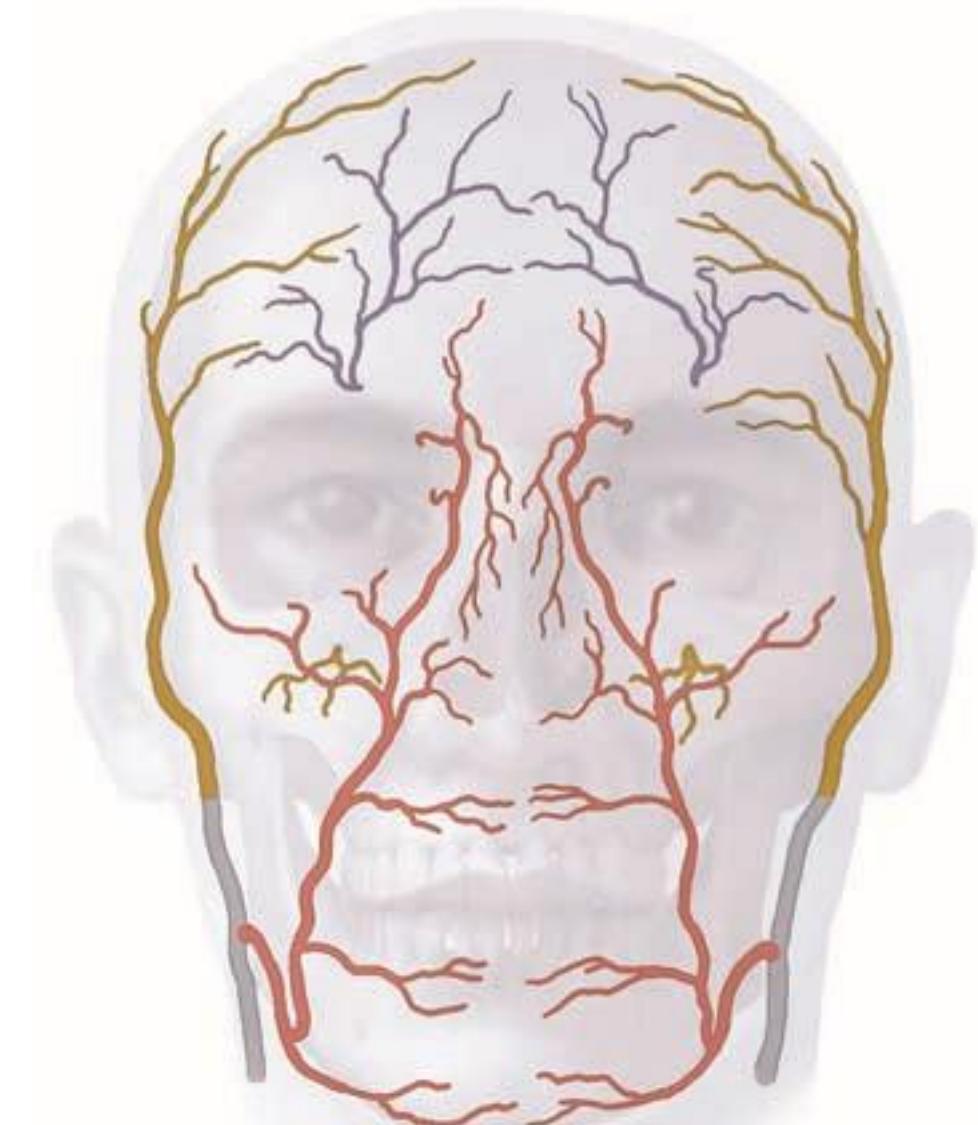
aa. faciei et capitis

- A. **facialis**
 - A. **temporalis superficialis**
 - A. **auricularis posterior**
 - A. **occipitalis**

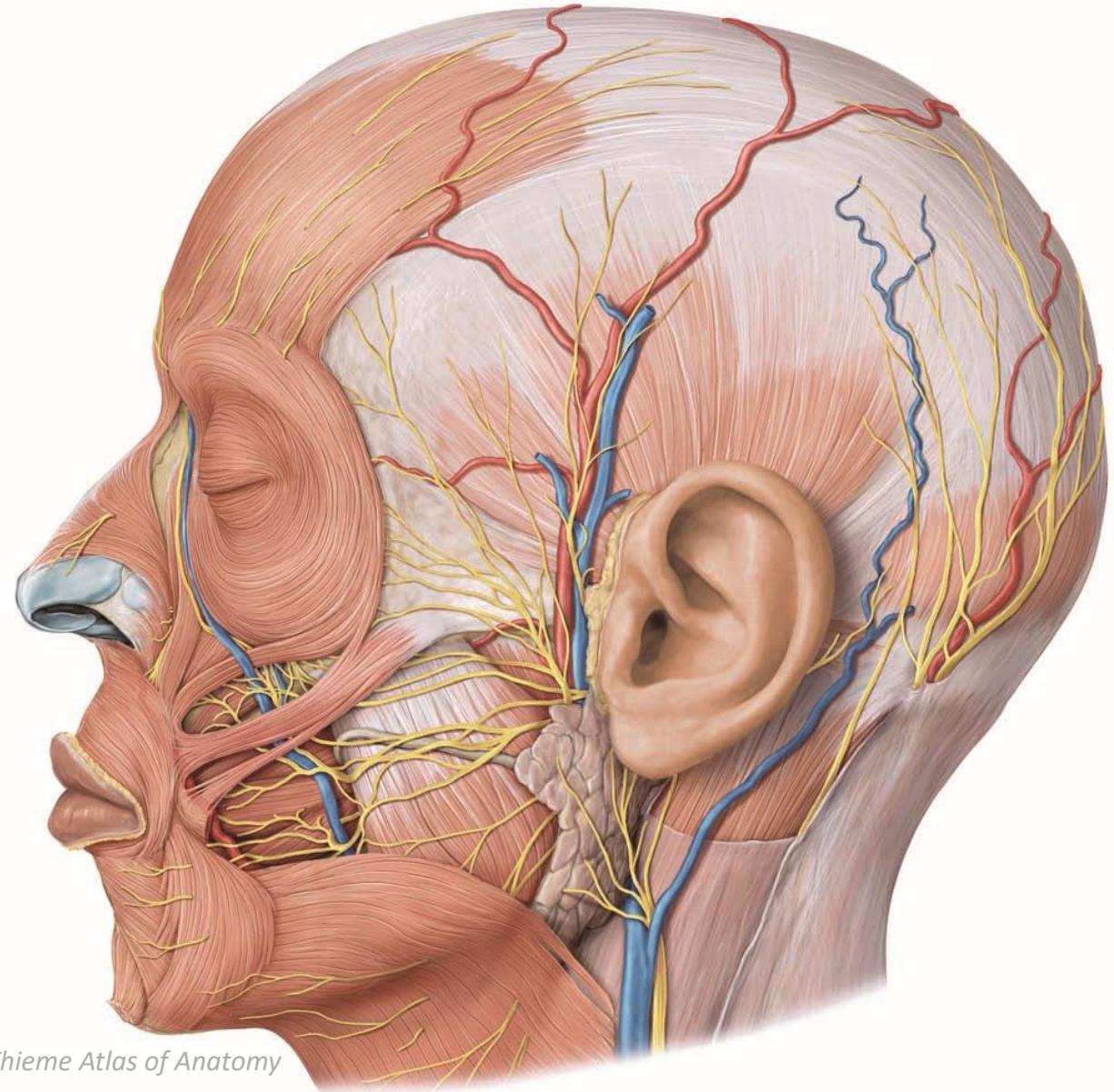
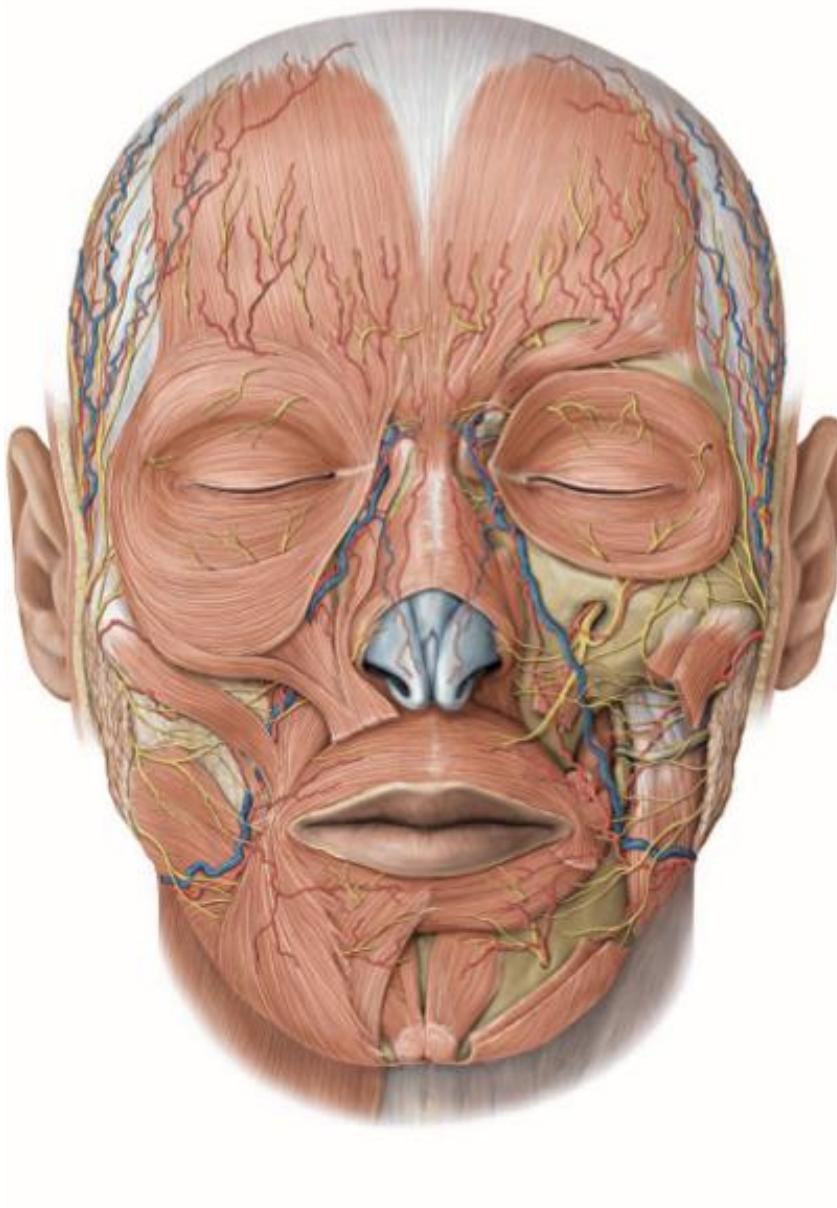


aa. faciei

- A. supraorbitalis
- A. facialis – a. angularis
- A. temporalis superficialis
- A. infraorbitalis

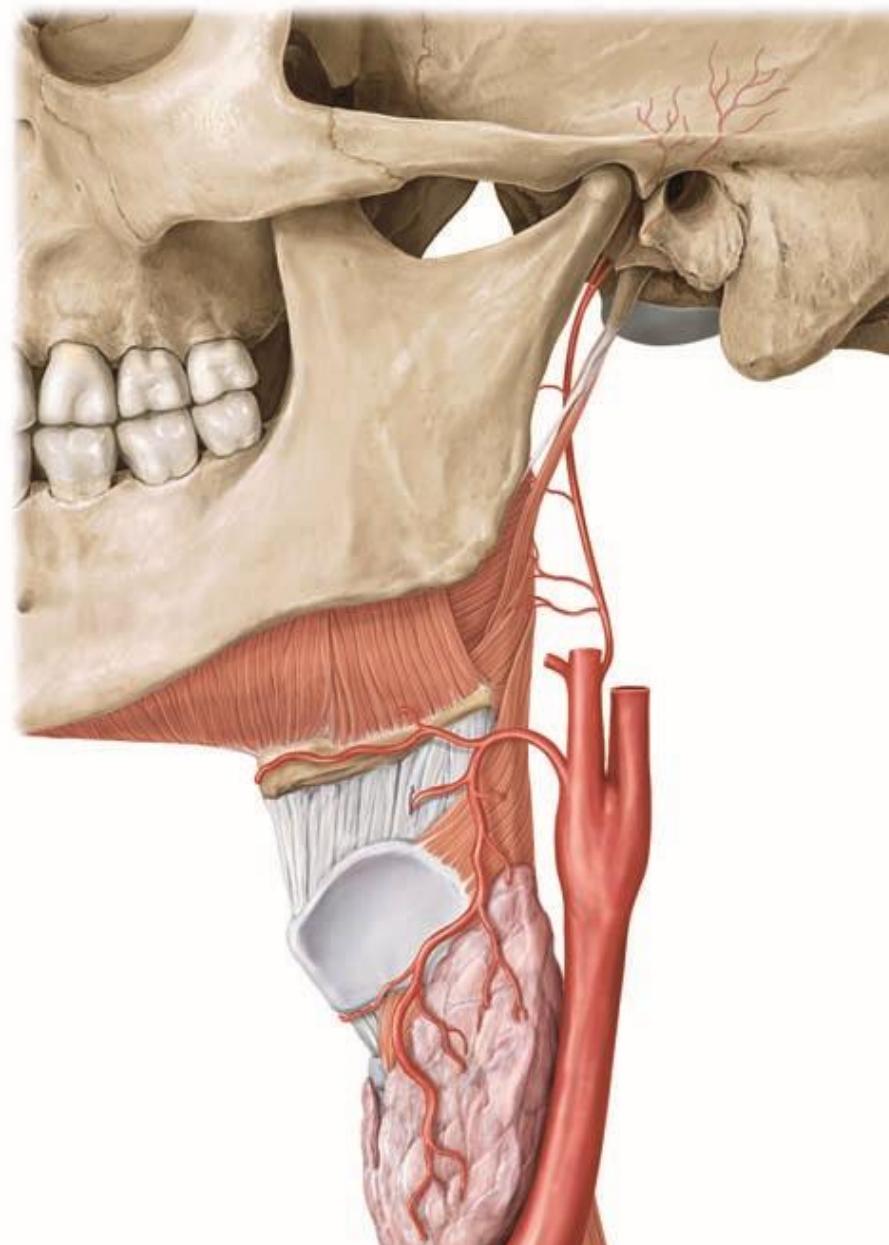


vasa faciales et temporales superficiales

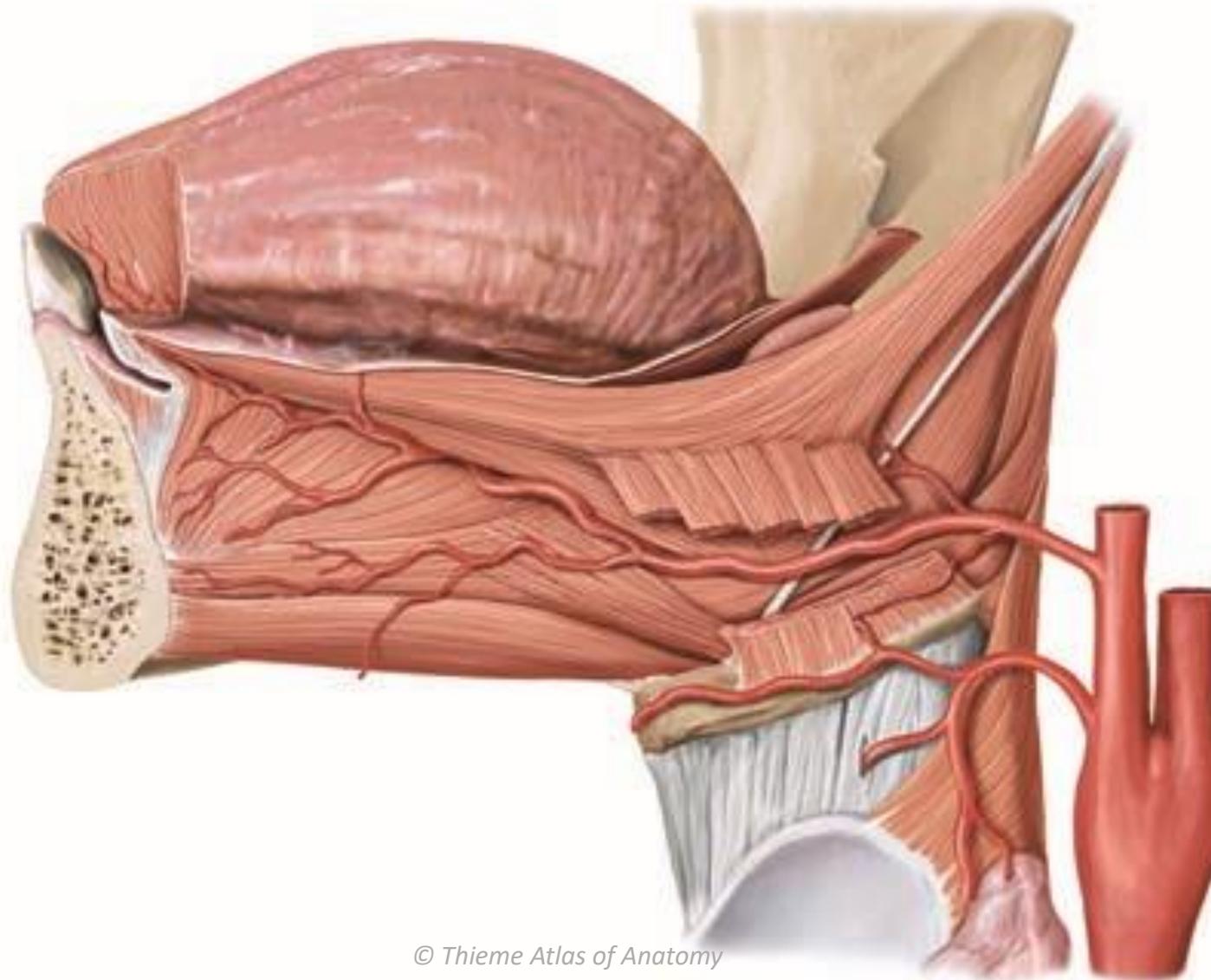


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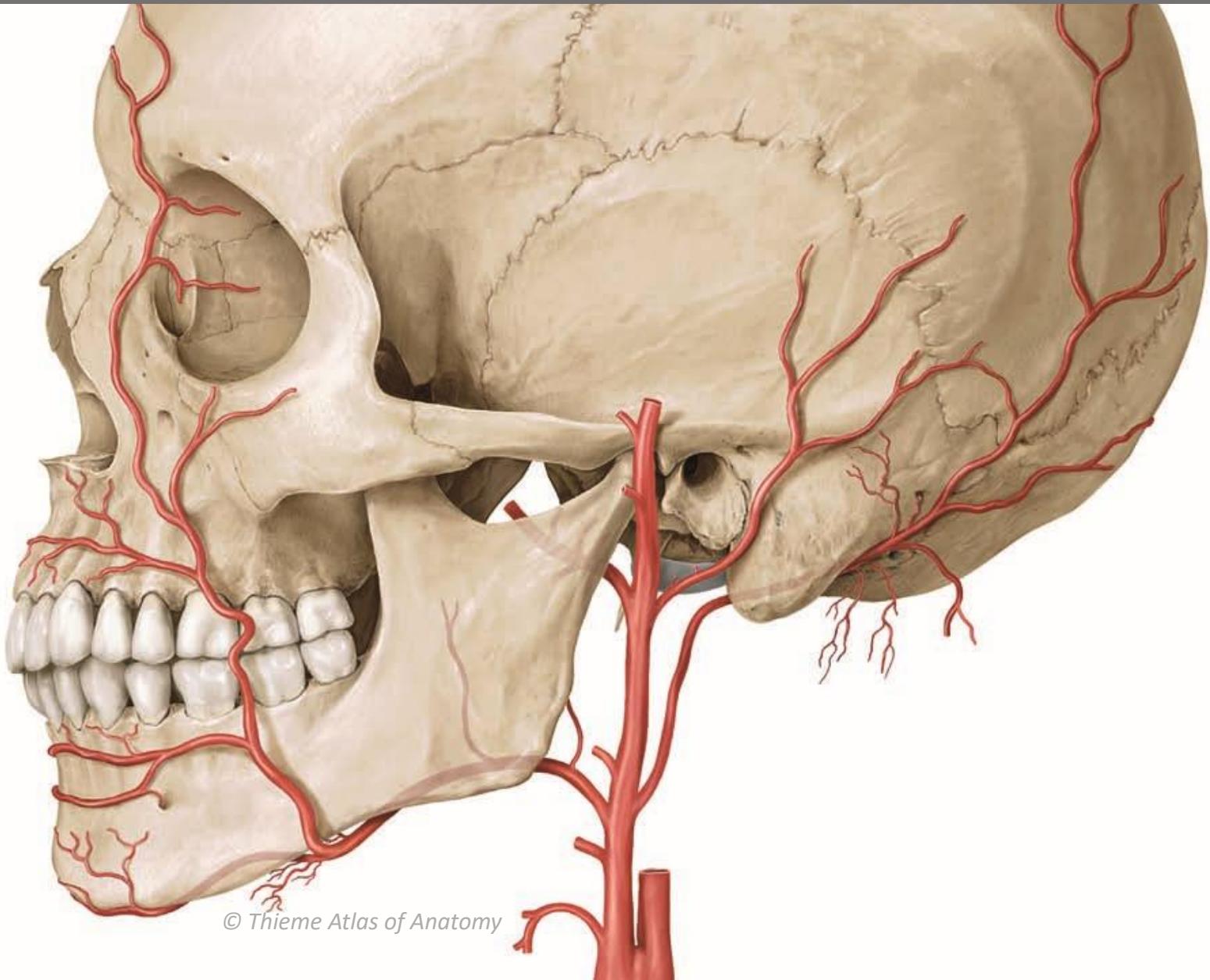
a. pharyngea ascendens, a. thyroidea superior



a. lingualis

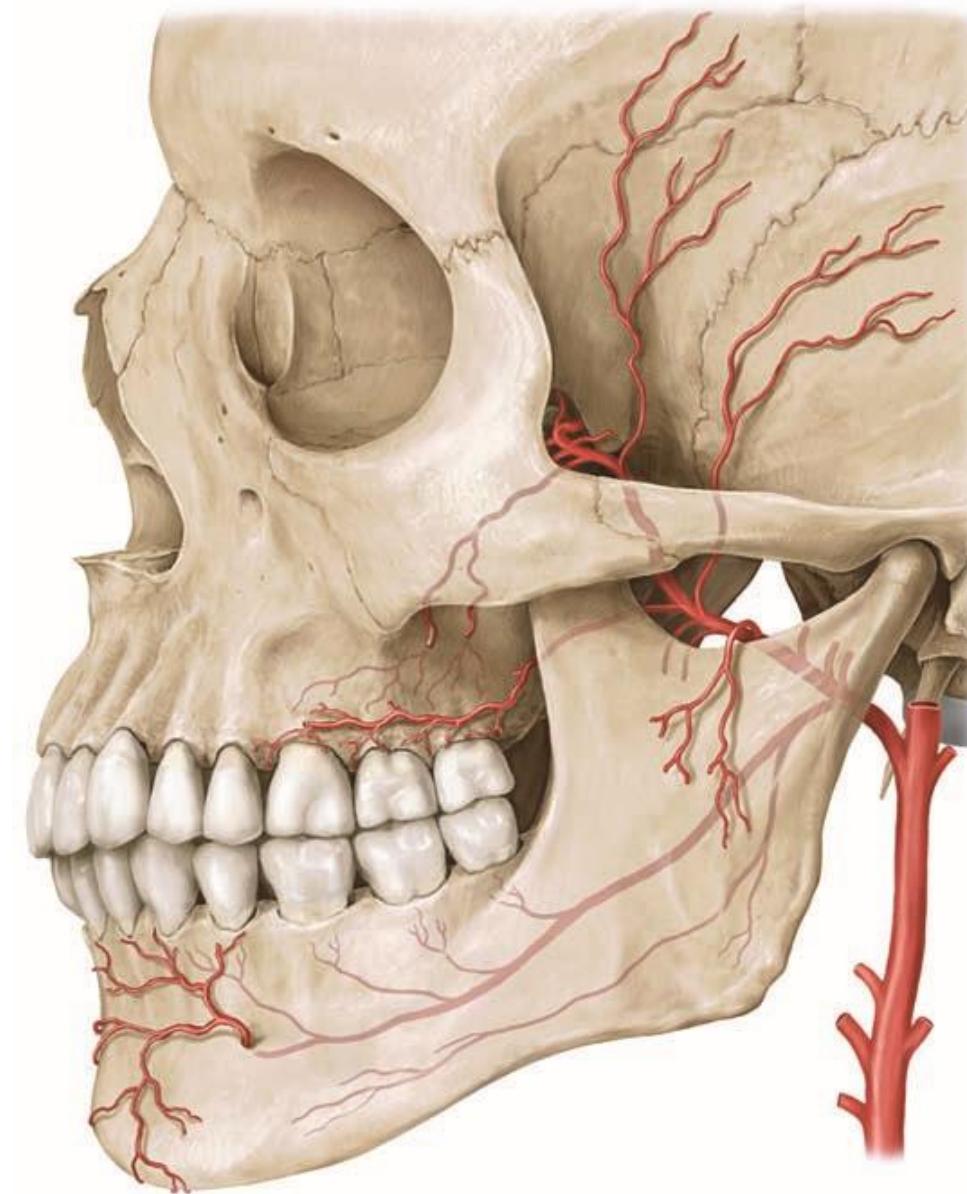


a. facialis

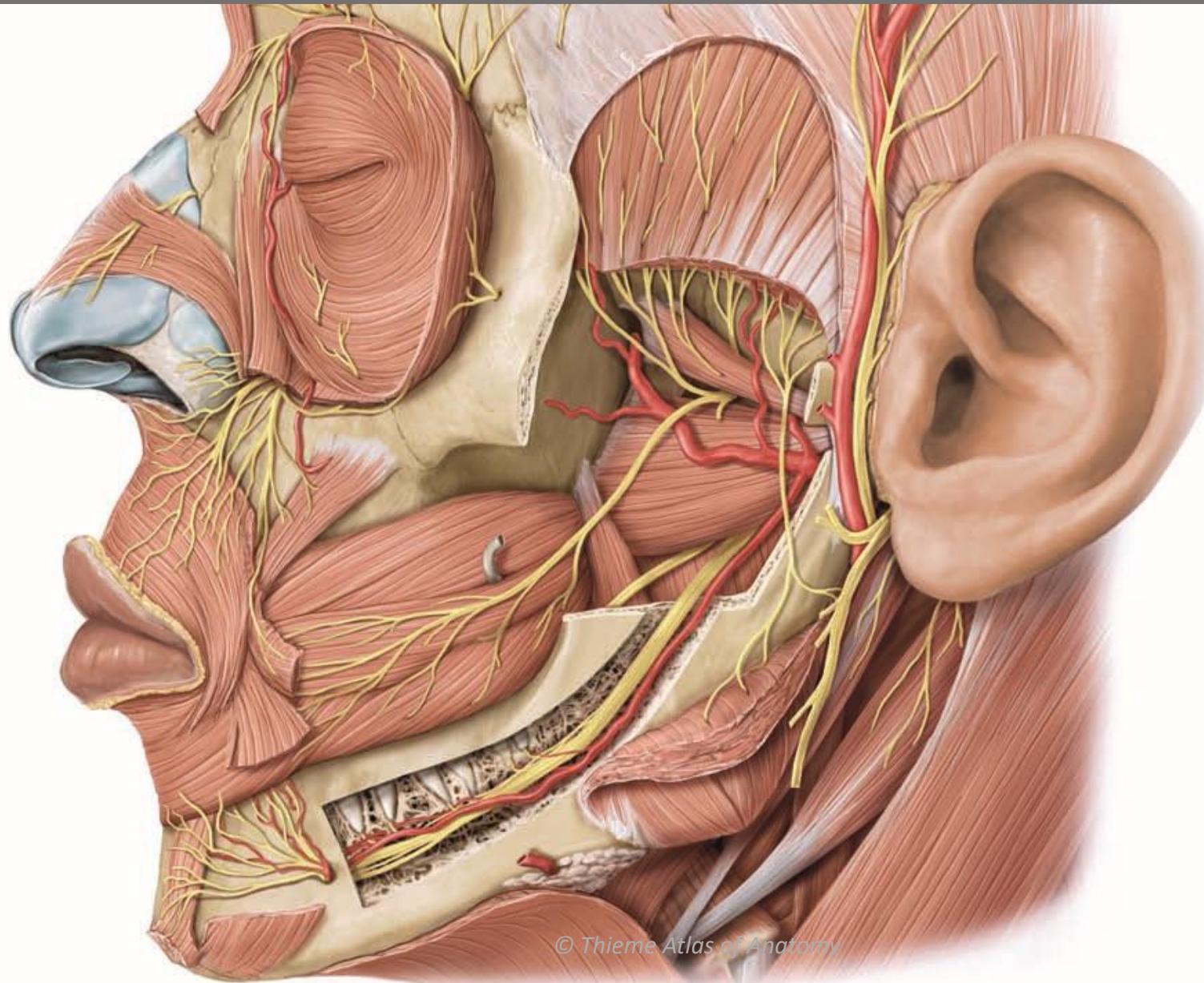


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a. maxillaris

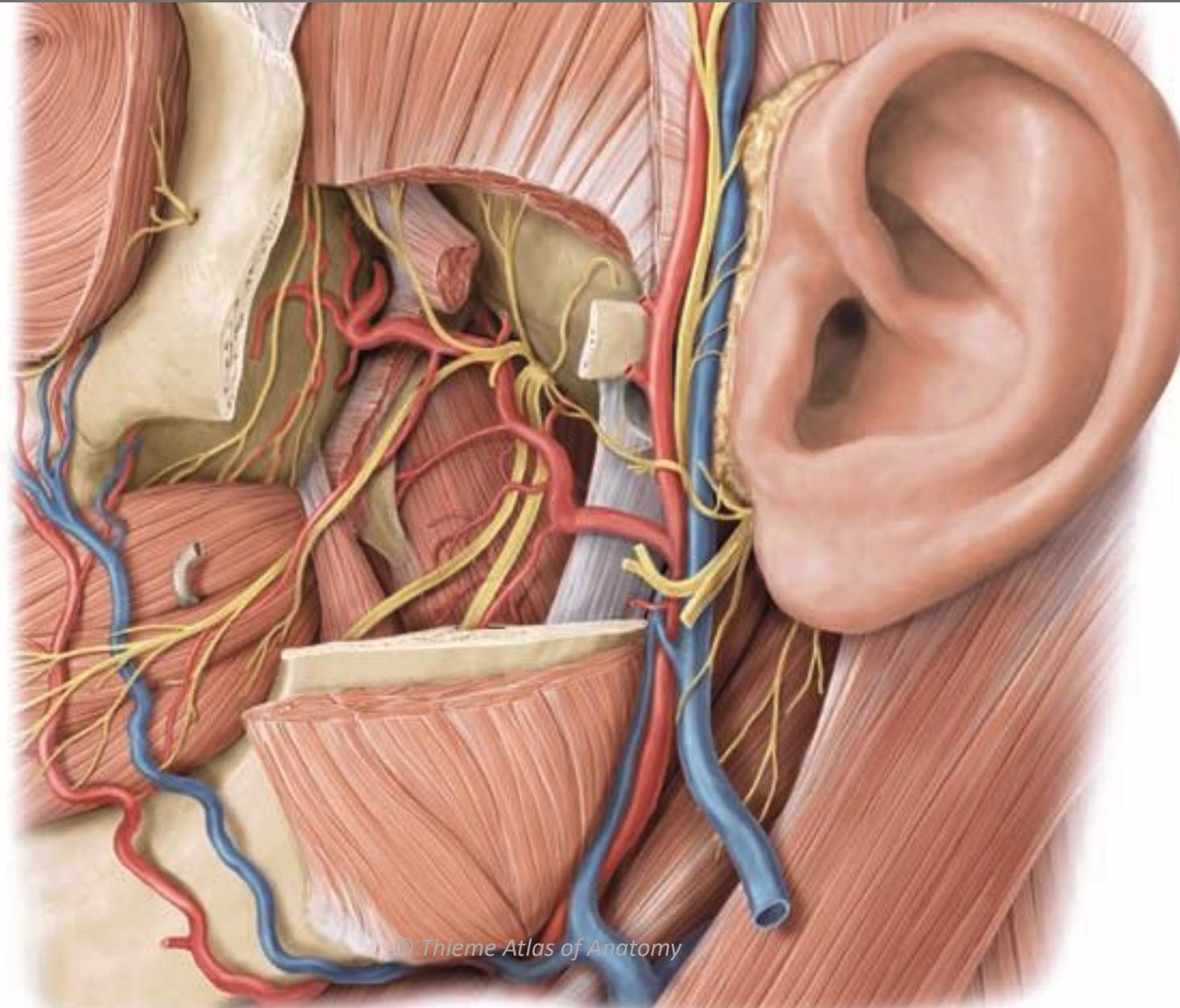


a. alveolaris inferior



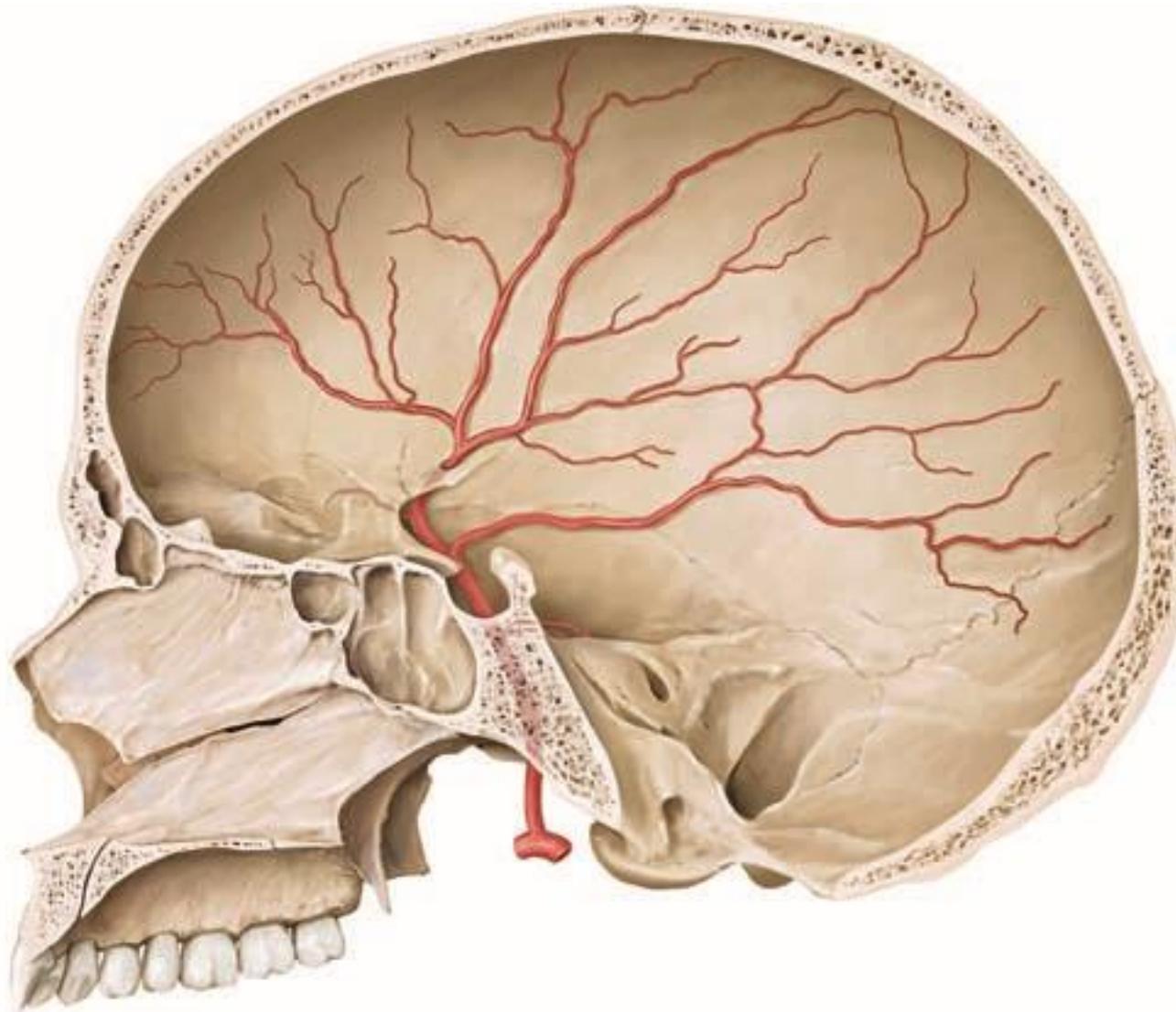
a. maxillaris

♦ A. sphenopalatina



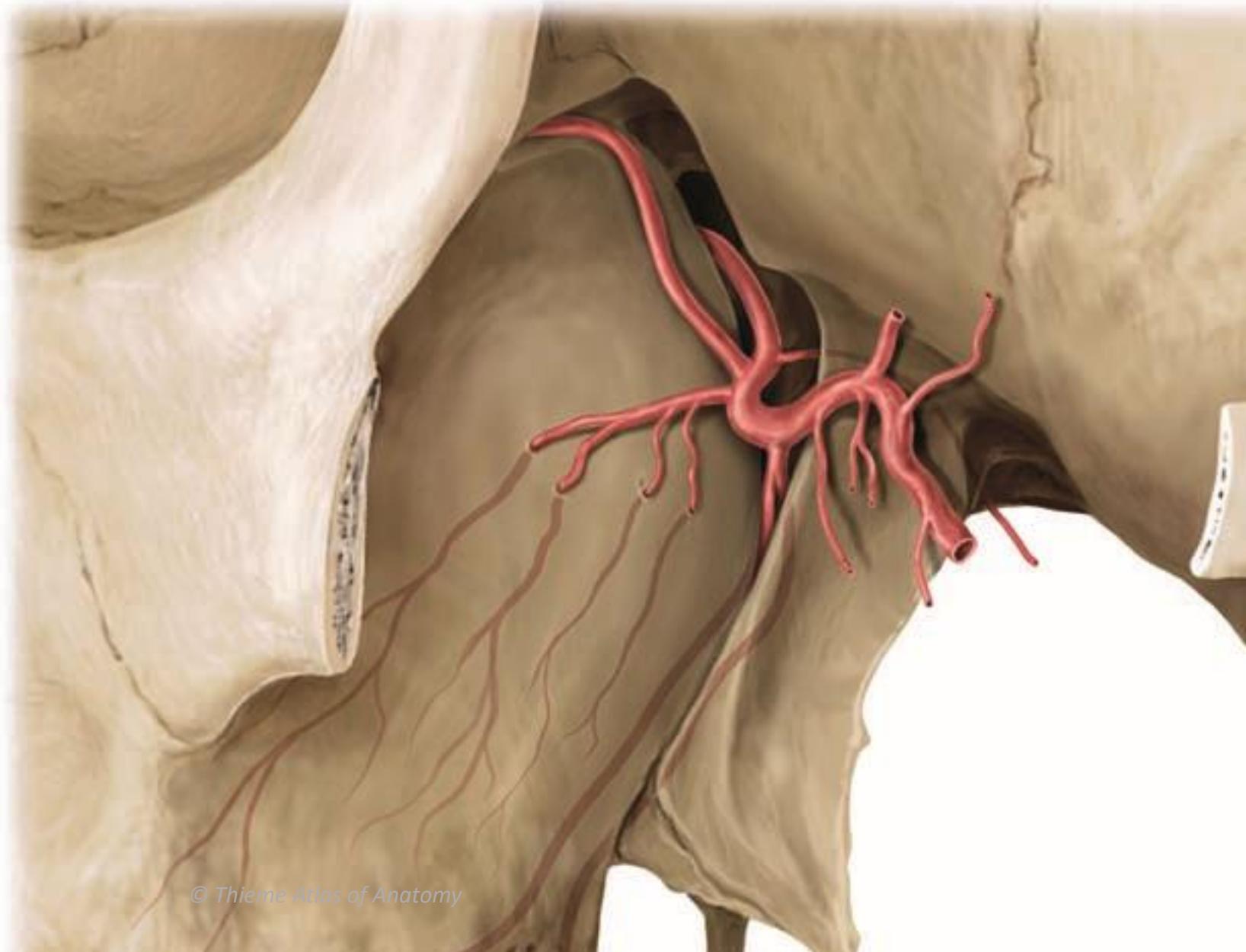
a. meningica media

● Epidural hematoma

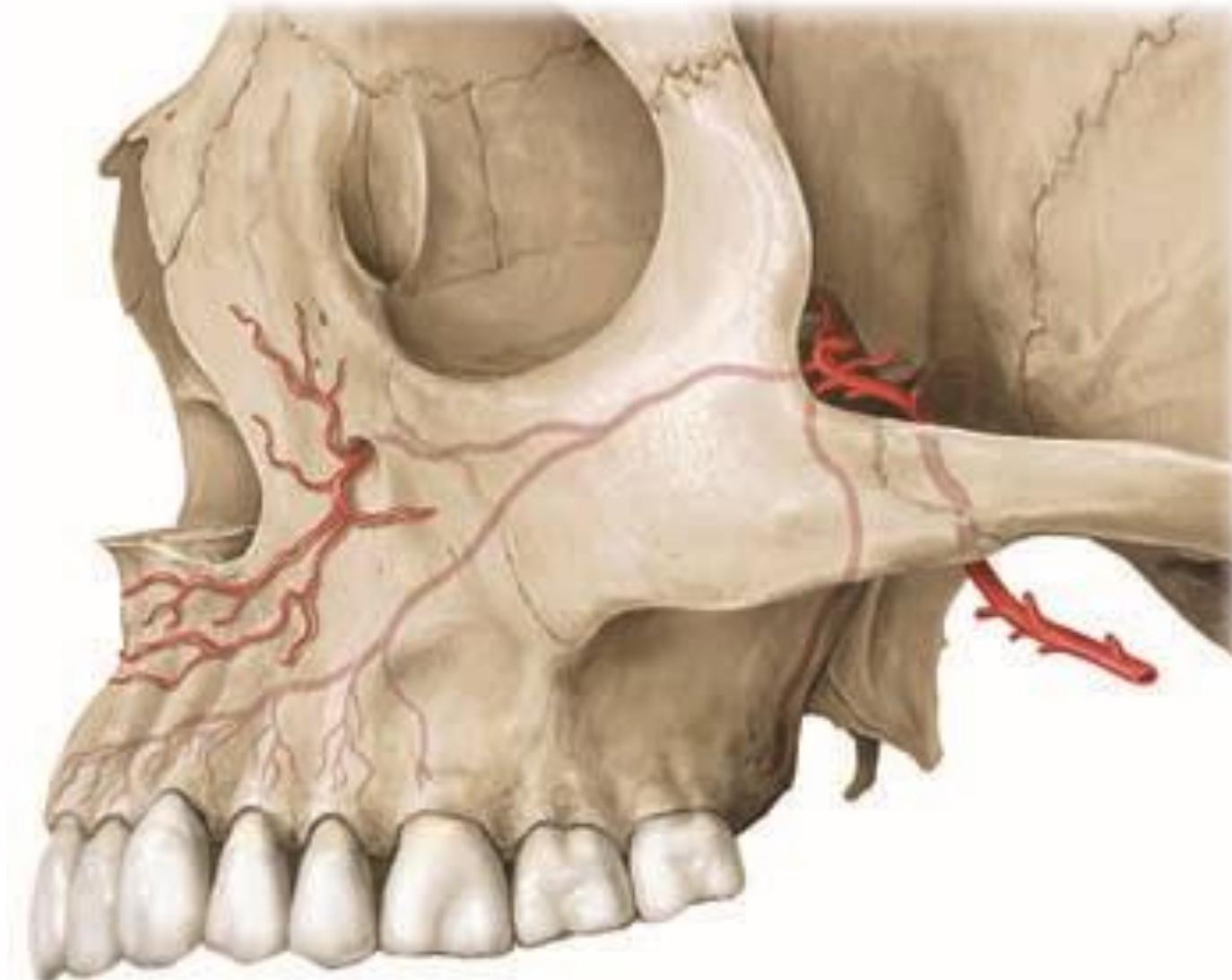


a. sphenopalatina, a. infraorbitalis

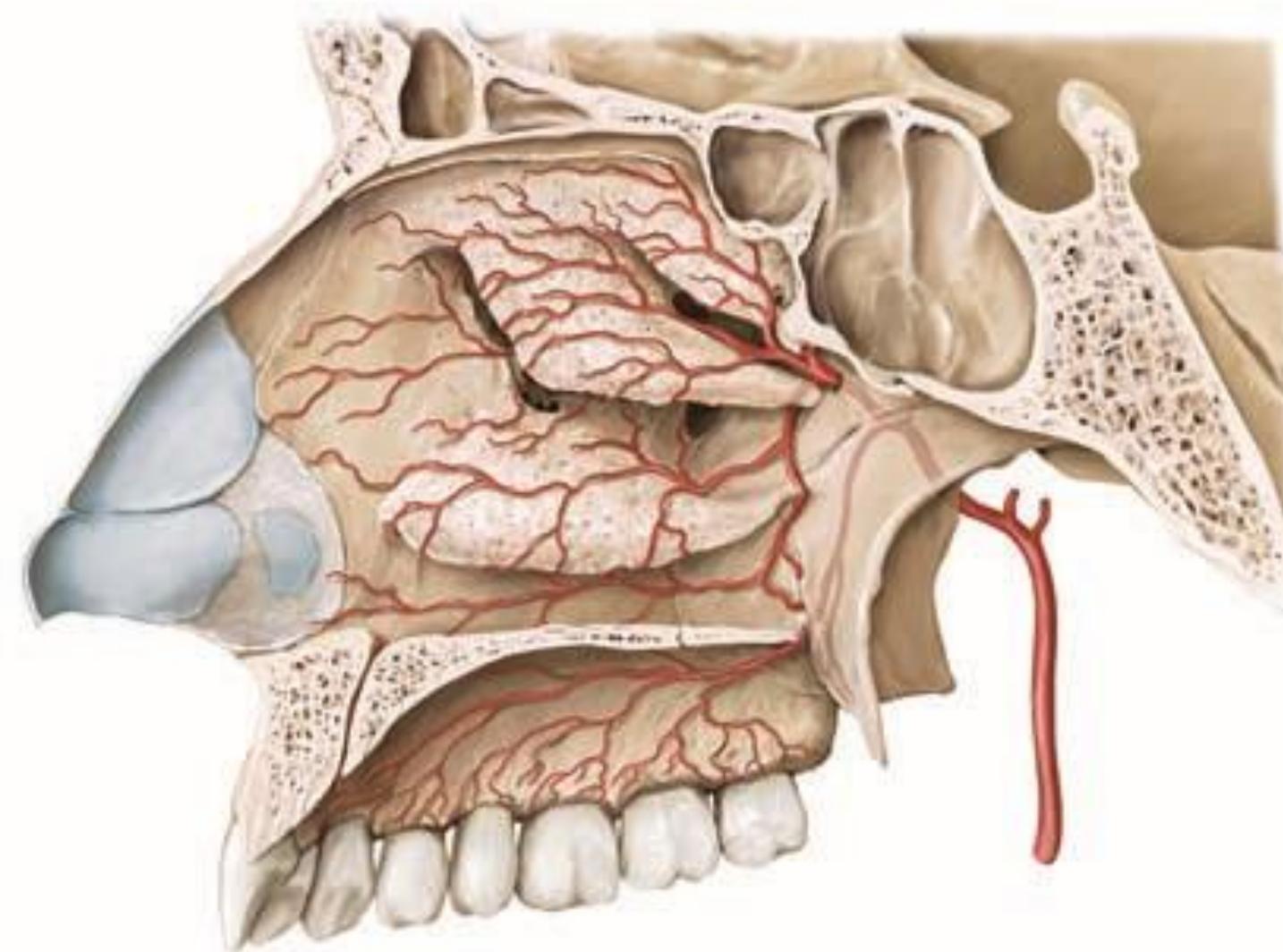
♦ Aa. alveolares posteriores



a. infraorbitalis

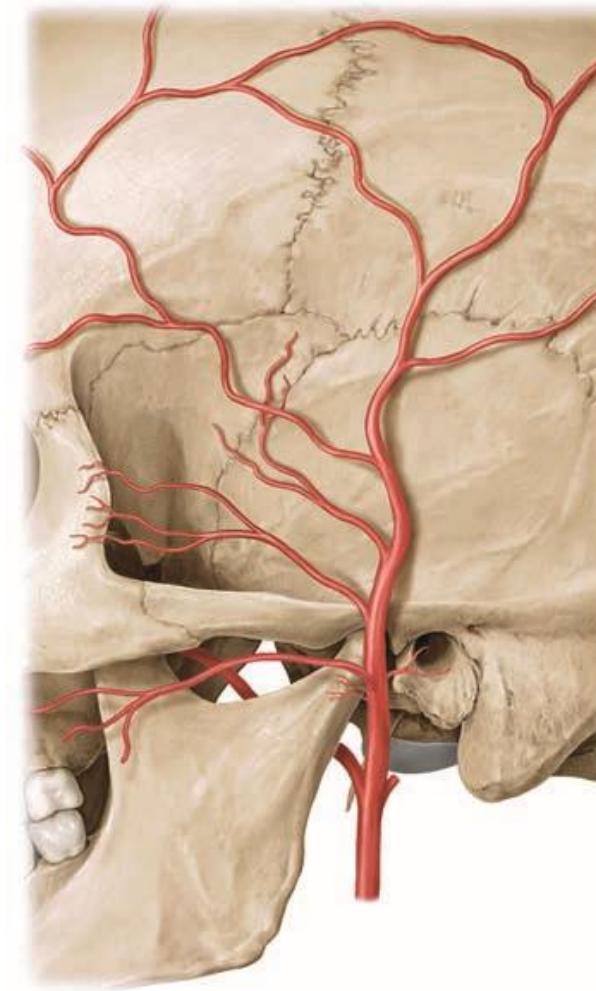


a. sphenopalatina, a. palatina descendens

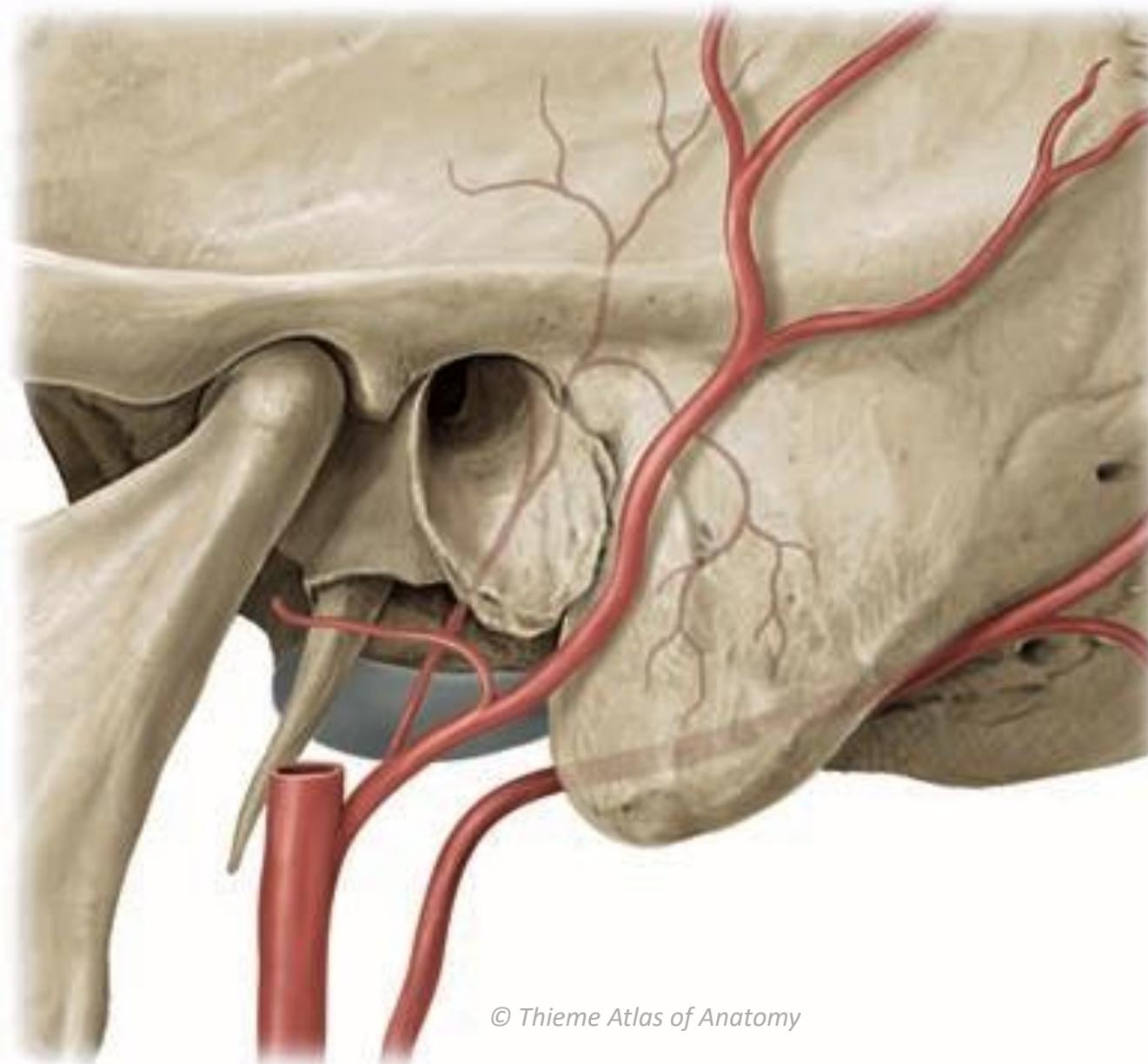


a. temporalis superficialis

- A. transversa faciei
- A. zygomaticoorbitalis
- Ramus parietalis
- Ramus frontalis
- A. temporalis media



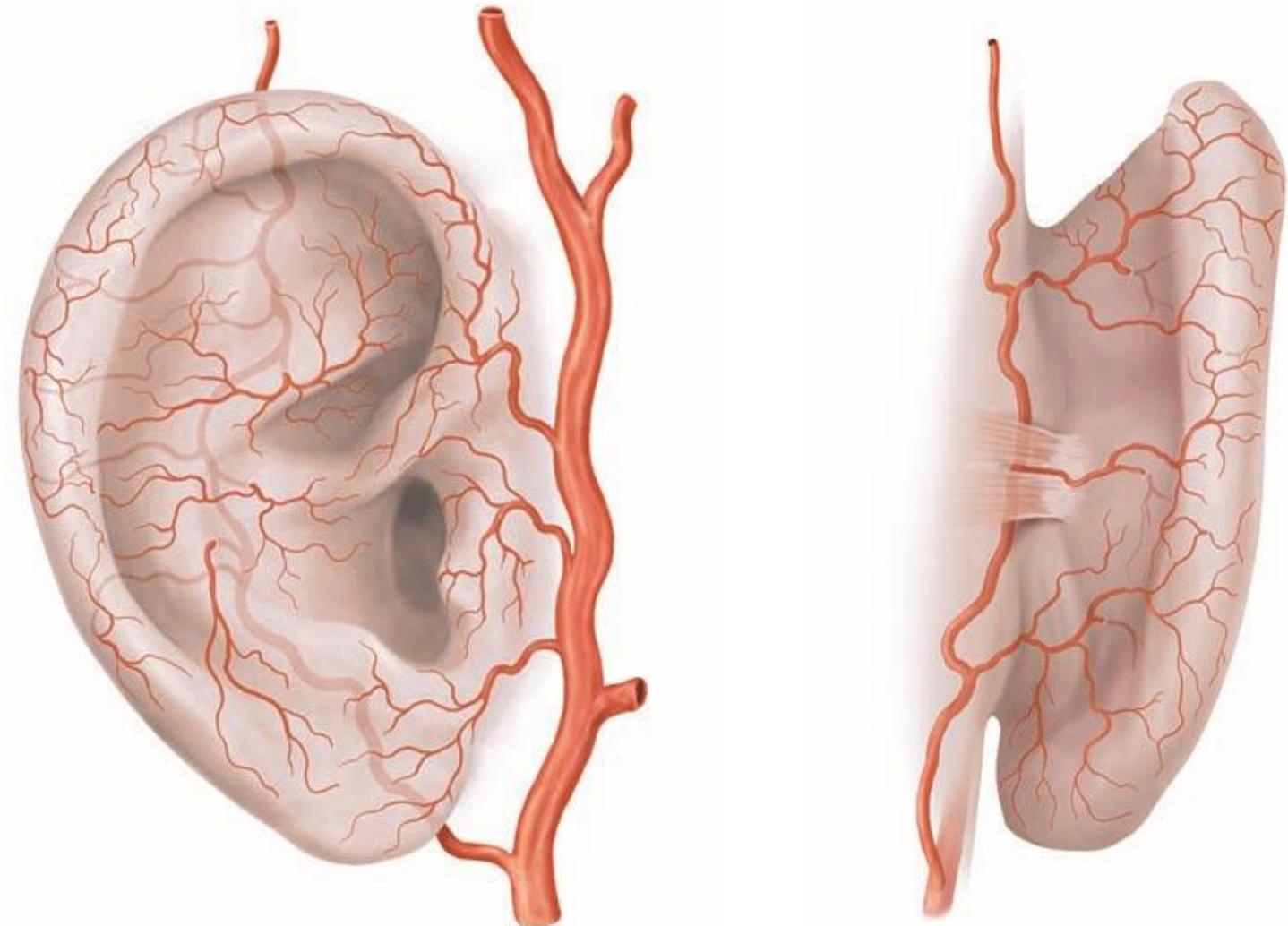
a. occipitalis et auricularis posterior



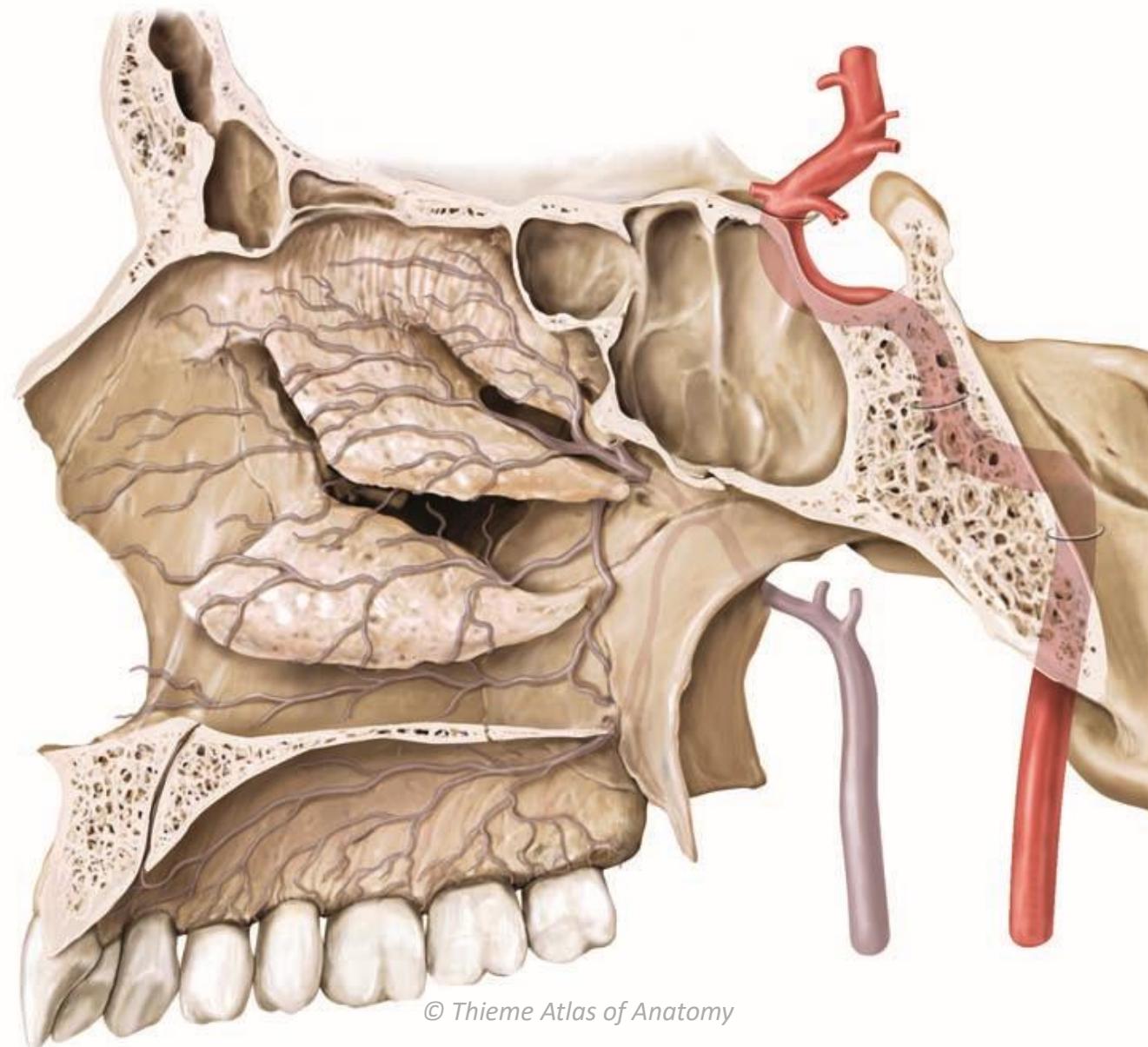
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aa. auris

- A. temporalis superficialis
- A. auricularis posterior

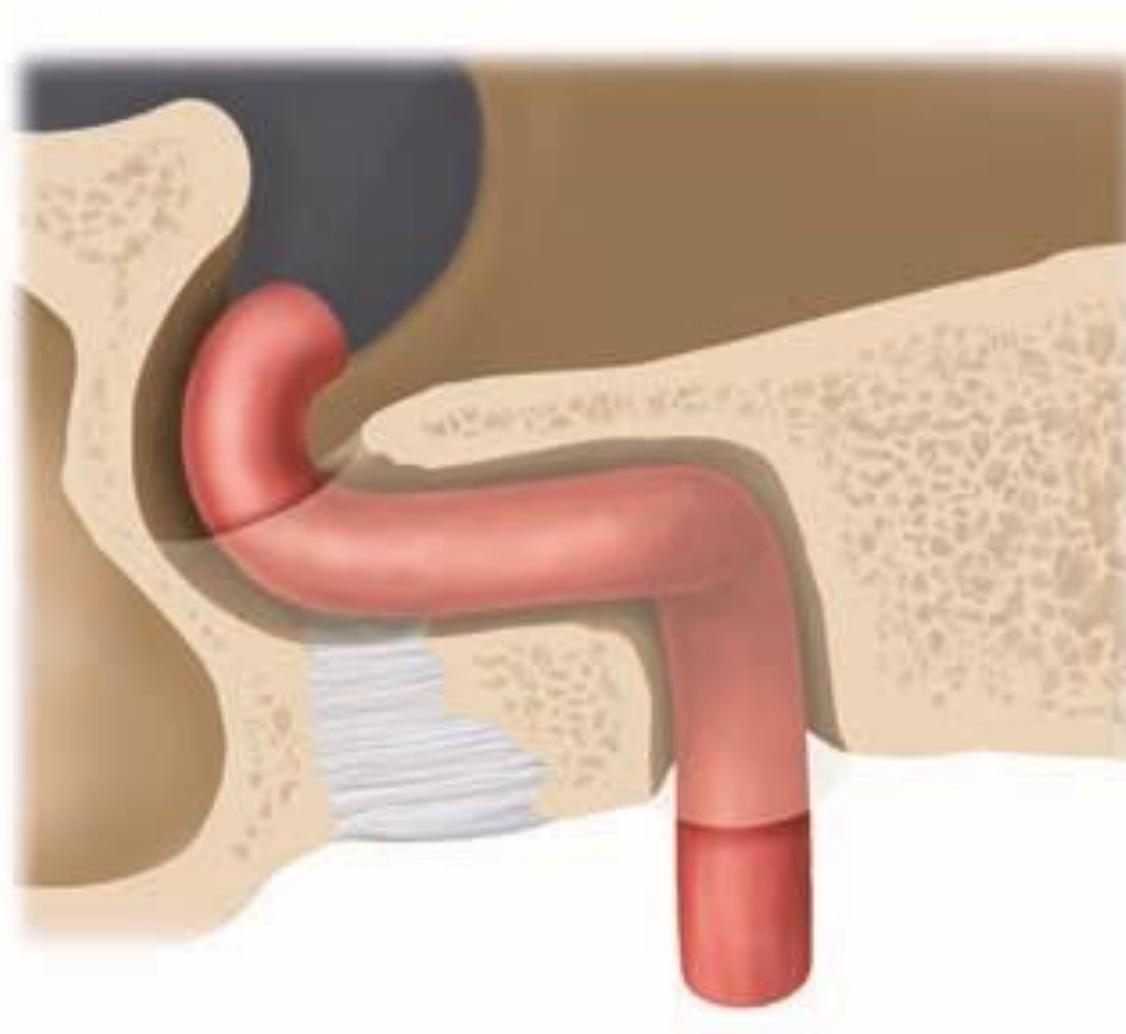


a. carotis interna et externa



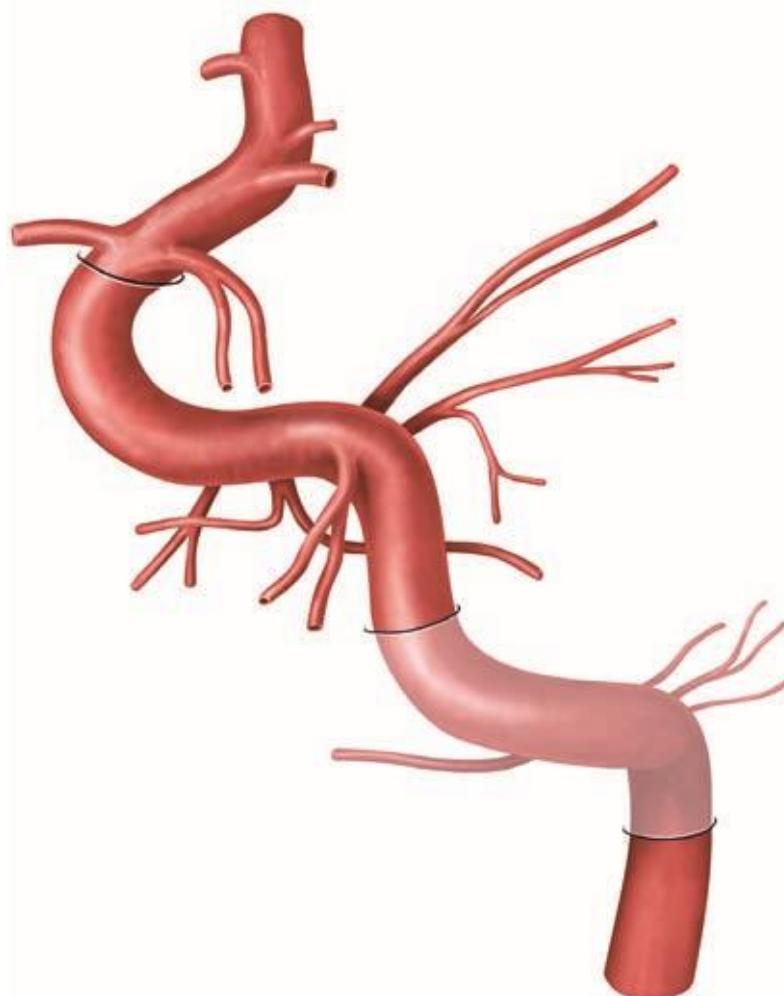
canalis caroticus

● Pars petrosa



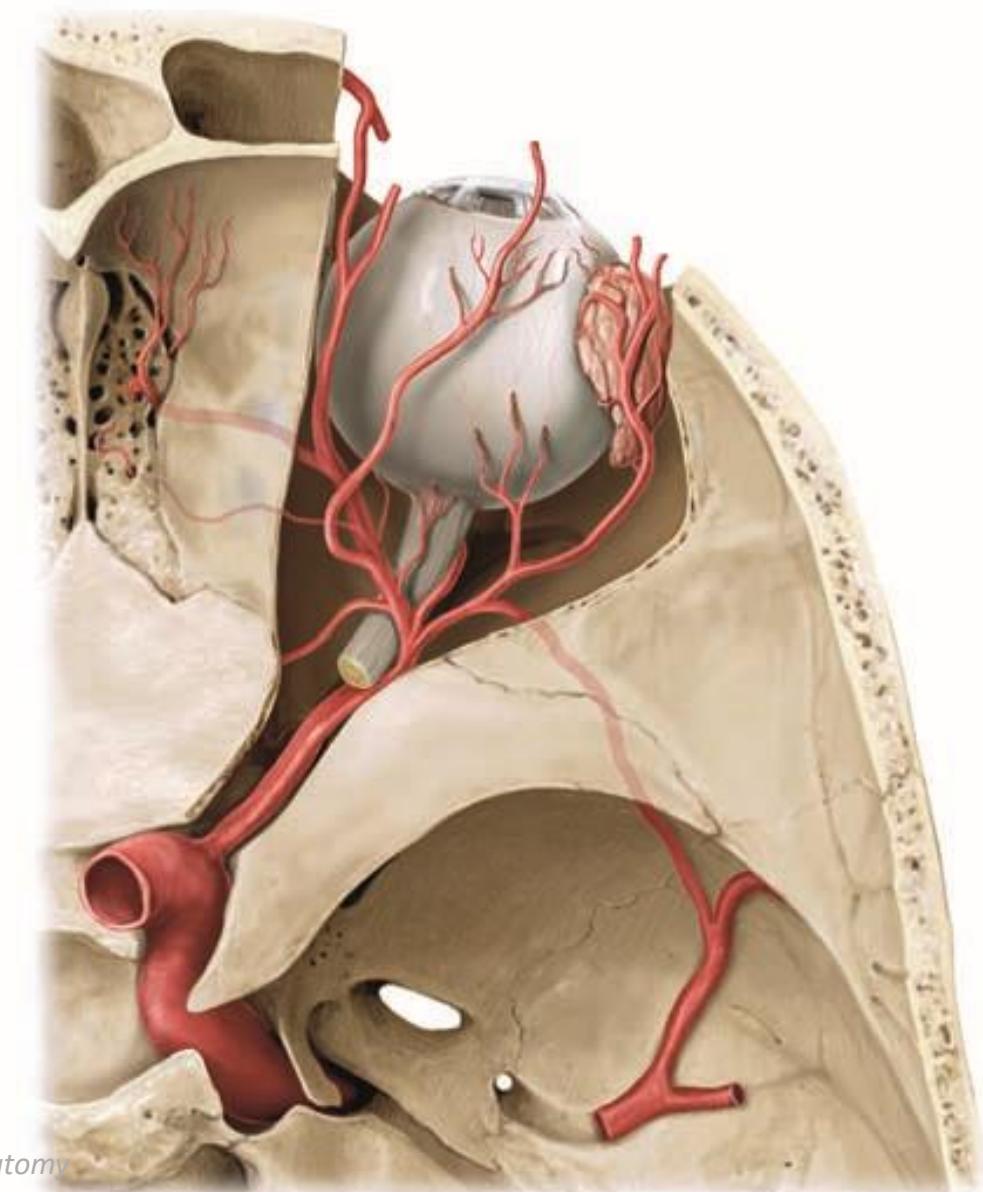
a. carotis interna

- **Pars cervicalis**
- **Pars petrosa**
 - Aa. caroticotympanales
 - A. canalis pterygoidei
- **Pars cavernosa**
 - A. hypophysealis inferior
 - A. hypophysealis superior
- **Pars cerebralis**
 - A. opthalmica
 - A. communicans posterior
 - A. chorioidea anterior



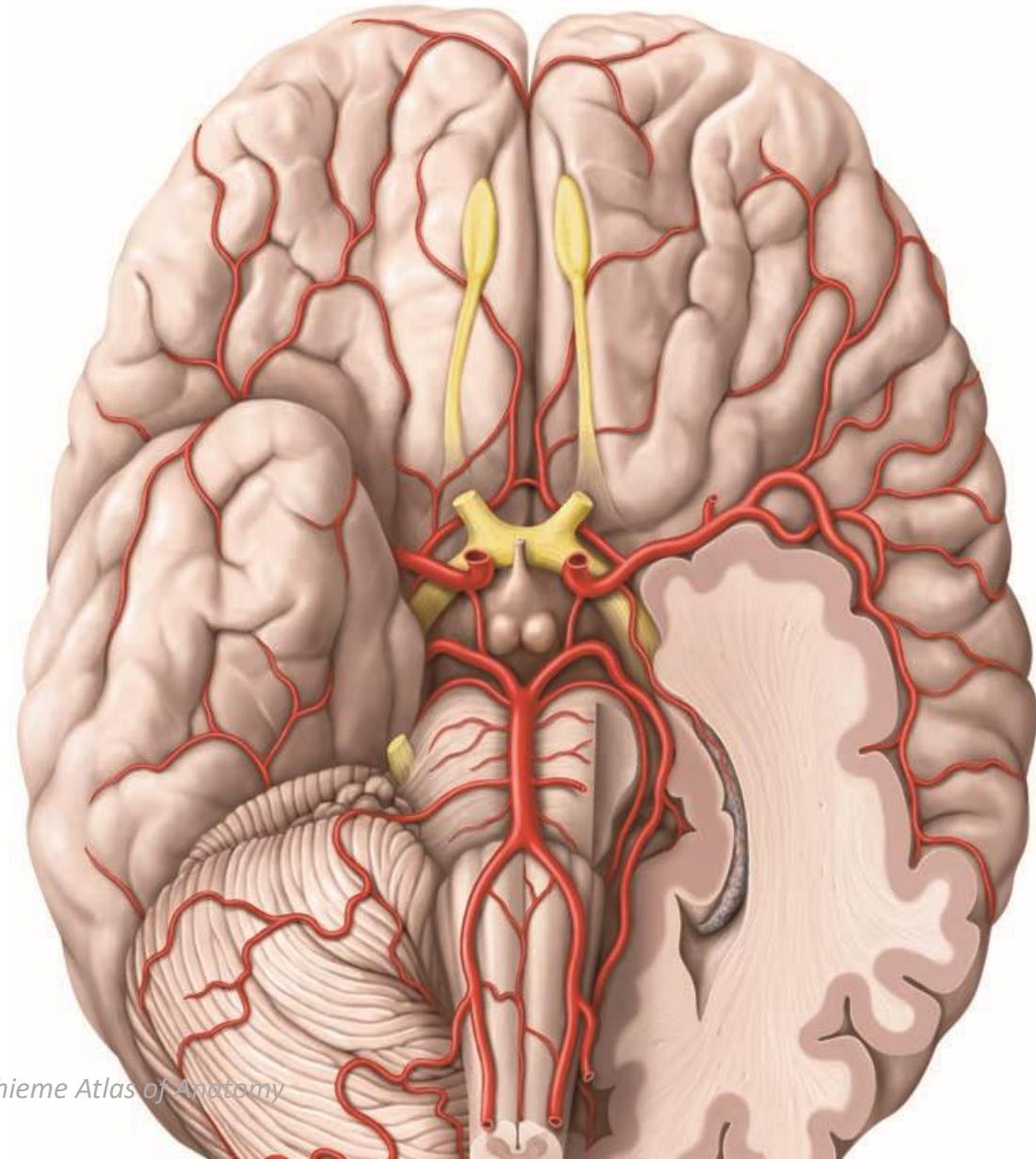
a. ophthalmica

- A. ethmoidalis anterior
 - A. ethmoidalis posterior
 - A. supraorbitalis
 - A. palpebralis media
 - A. supratrochlearis
 - A. lacrimalis
 - Aa. ciliares longae
 - Aa. ciliares breves
-
- Anastomosis ad a. meningica media



aa. cerebri

- A. vertebralis
- A. carotis interna
- A. cerebri anterior
- A. cerebri media
- A. cerebri posterior
- A. basilaris
- A. communicans anterior
- A. communicans posterior



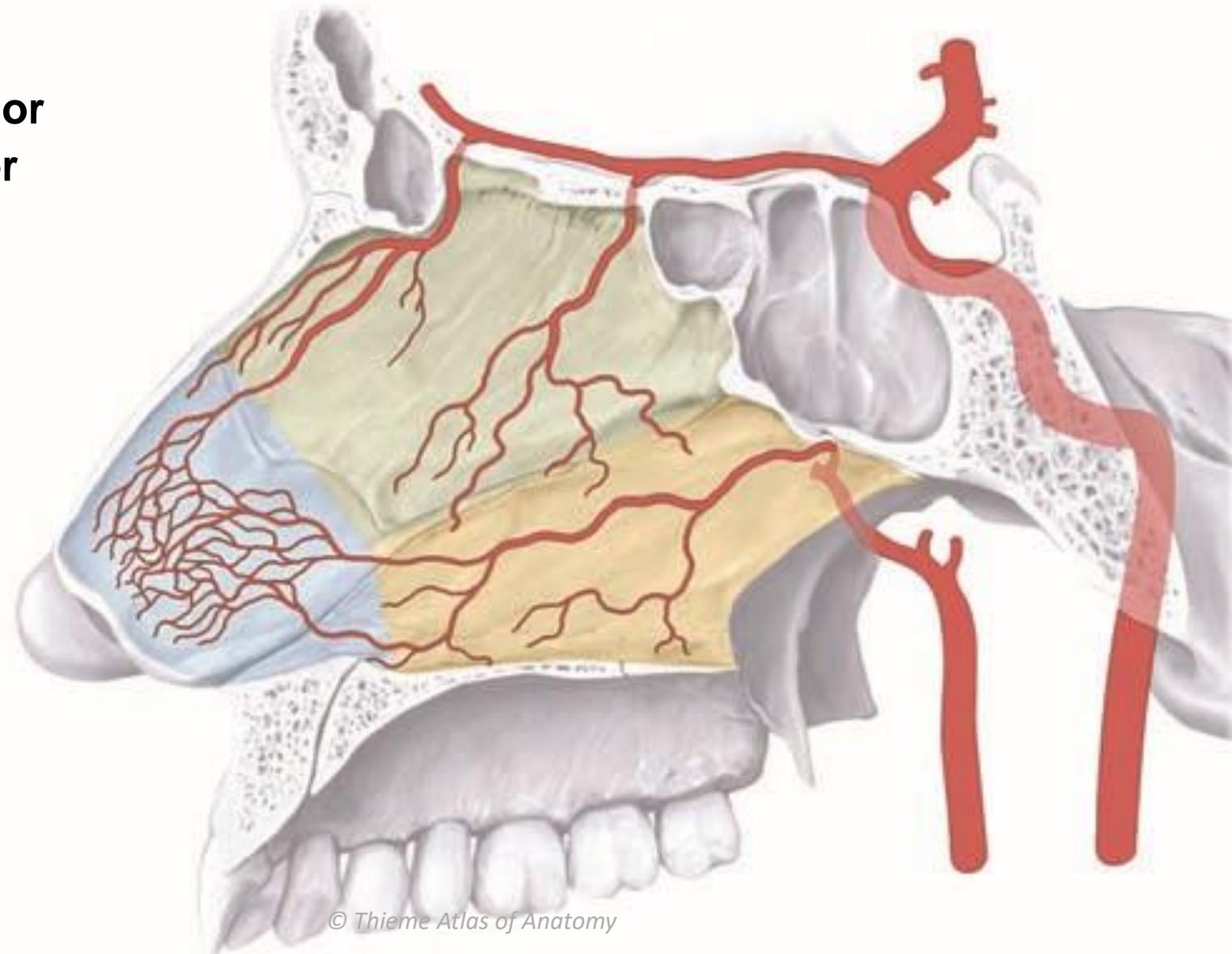
aa. cerebri

- A. vertebralis
- A. carotis interna
- A. cerebri anterior
- A. cerebri media
- A. cerebri posterior
- A. basilaris

- A. communicans anterior
- A. communicans posterior

aa. nasi

- A. ophtalmica
 - A. ethmoidalis posterior
 - A. ethmoidalis anterior
- A. sphenopalatina
- Locus Kieselbachi

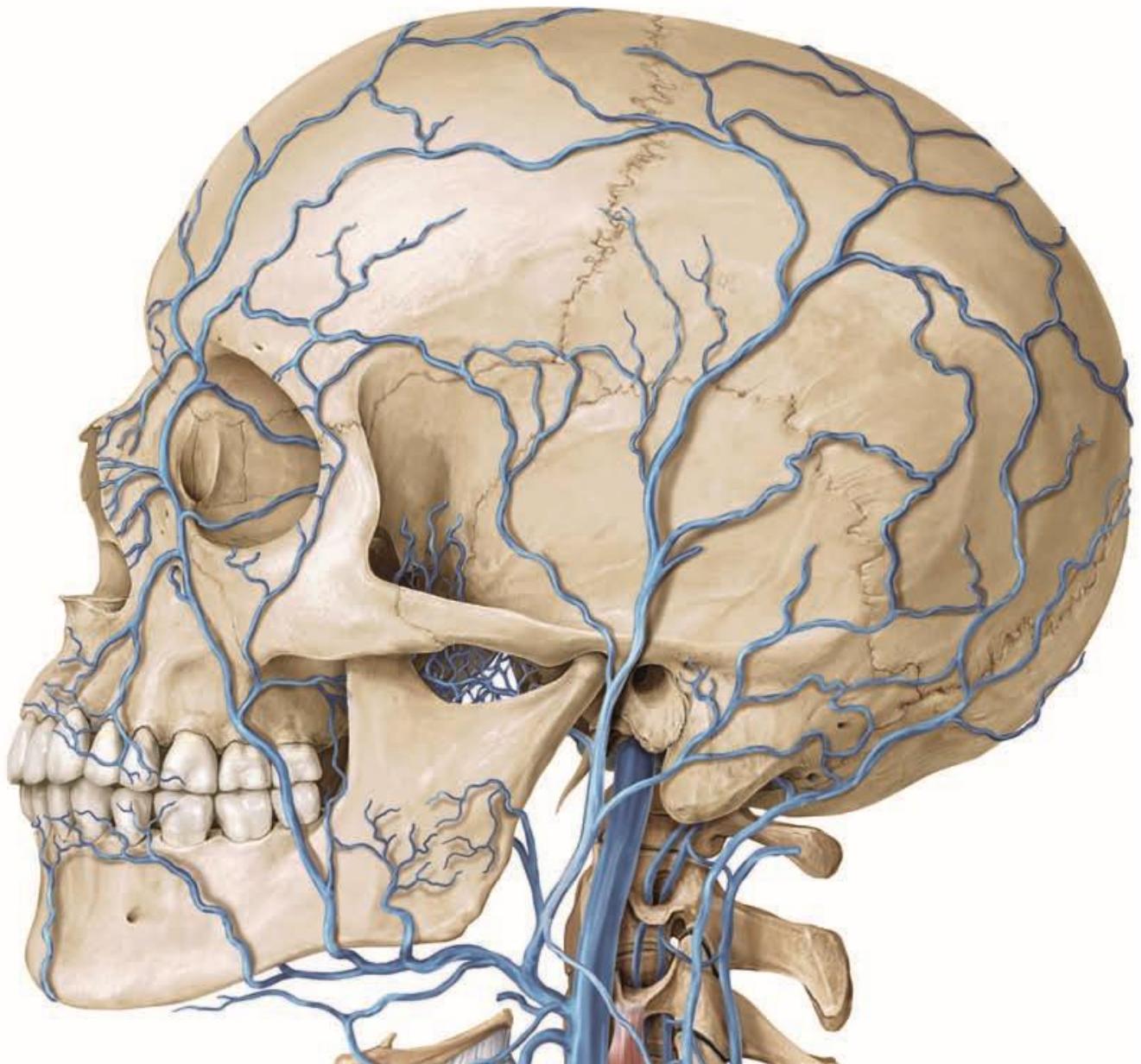


Venae capitis

- V. jugularis interna
- V. jugularis externa
- V. jugularis anterior

- V. temporalis superficialis
- V. maxillaris
- V. retromandibularis
- V. facialis
- V. occipitalis

- V. angularis
- V. opthalmica superior
- V. opthalmica inferior

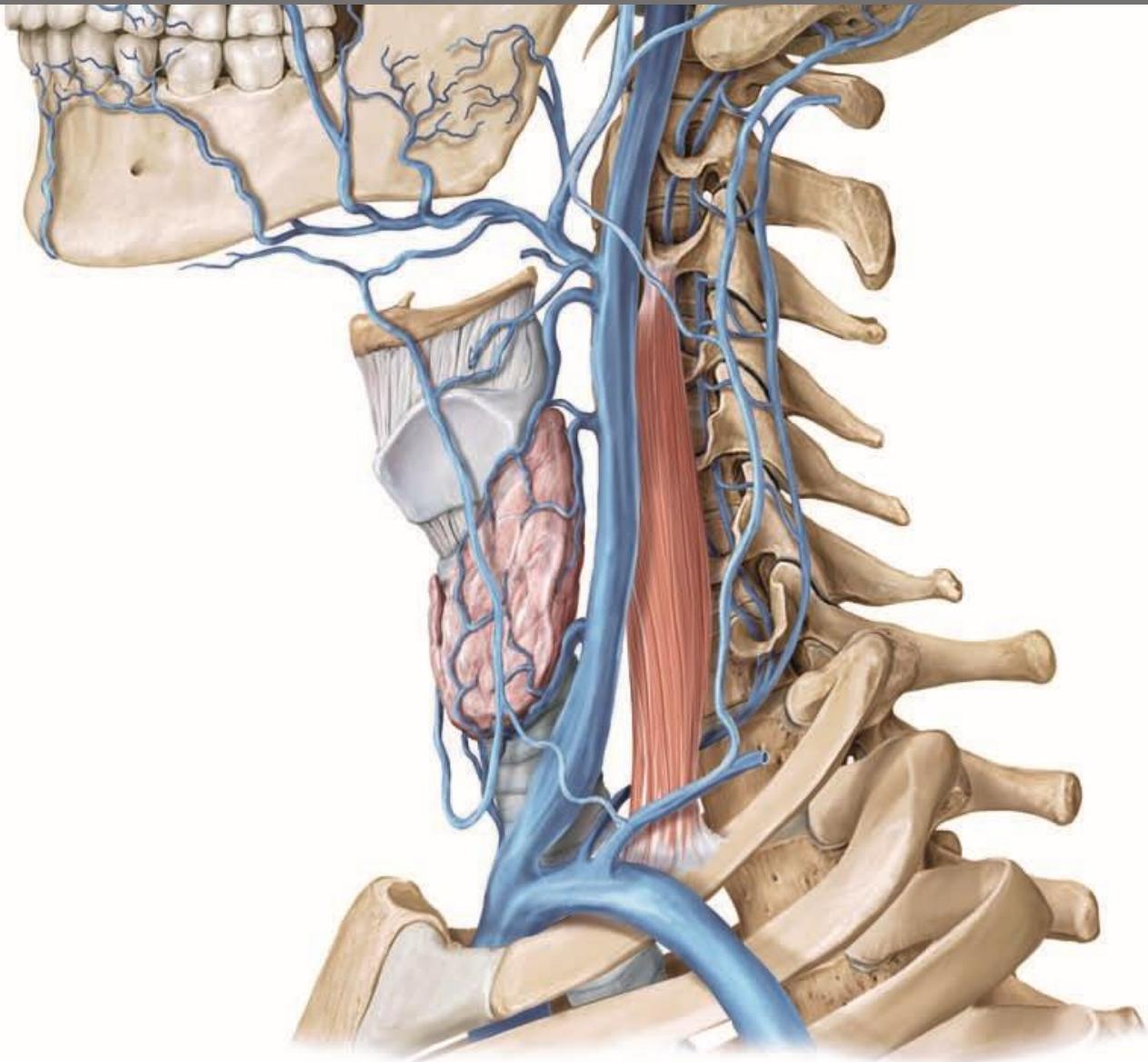


Venae capitis

- V. jugularis interna
- V. jugularis externa
- V. jugularis anterior

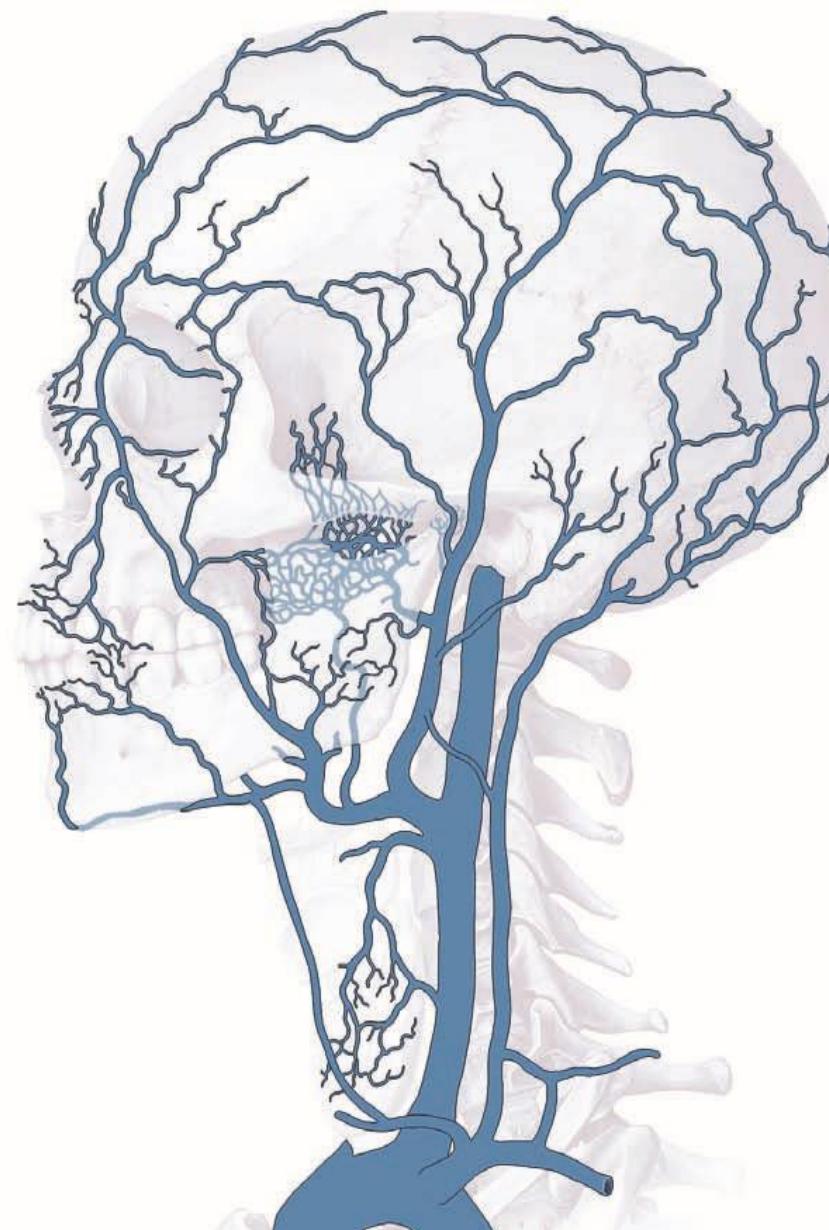
- V. temporalis superficialis
- V. maxillaris
- V. retromandibularis
- V. facialis
- V. occipitalis

- V. angularis
- V. opthalmica superior
- V. opthalmica inferior



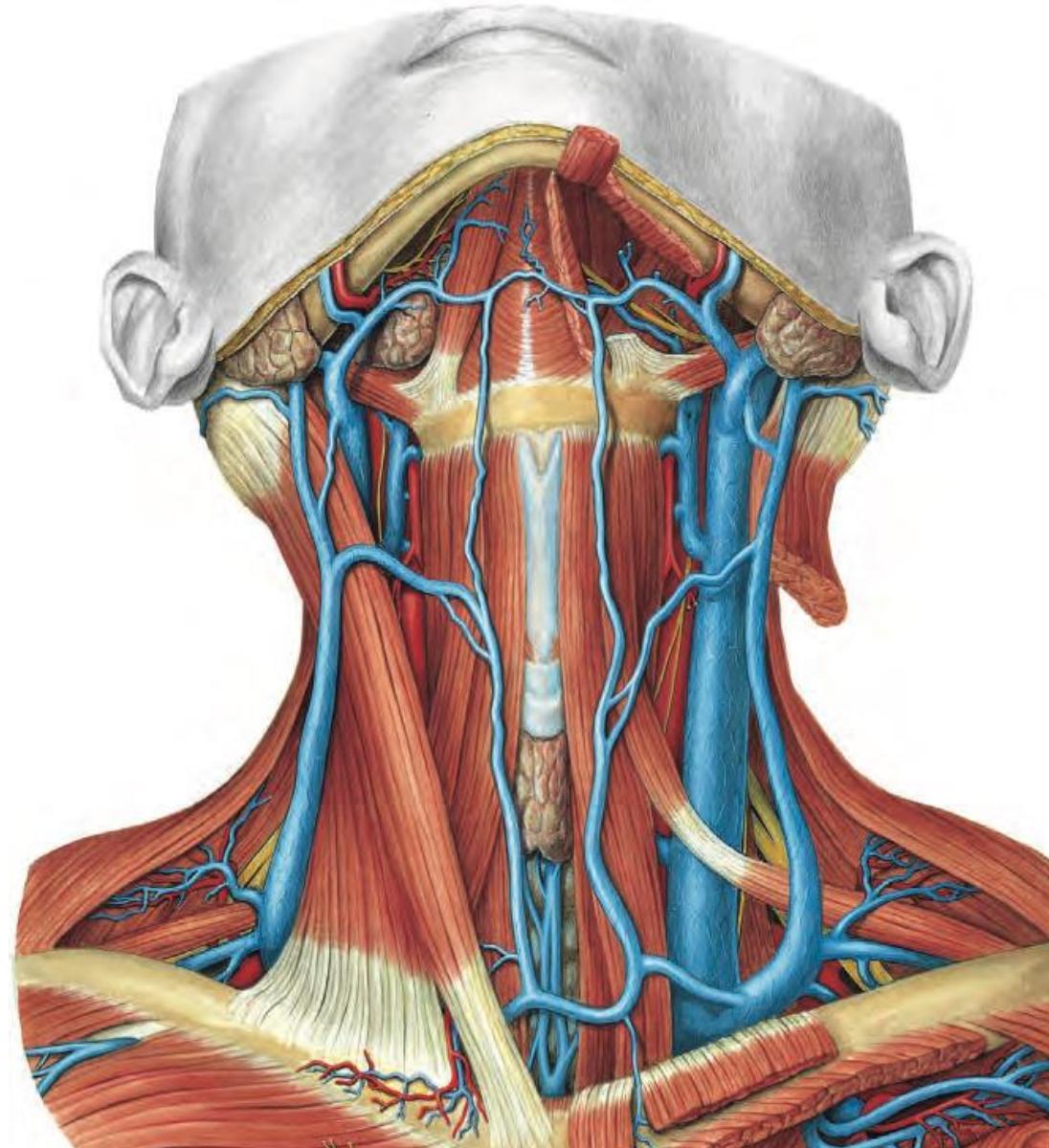
Anastomoses

- **Plexus pterygoideus**



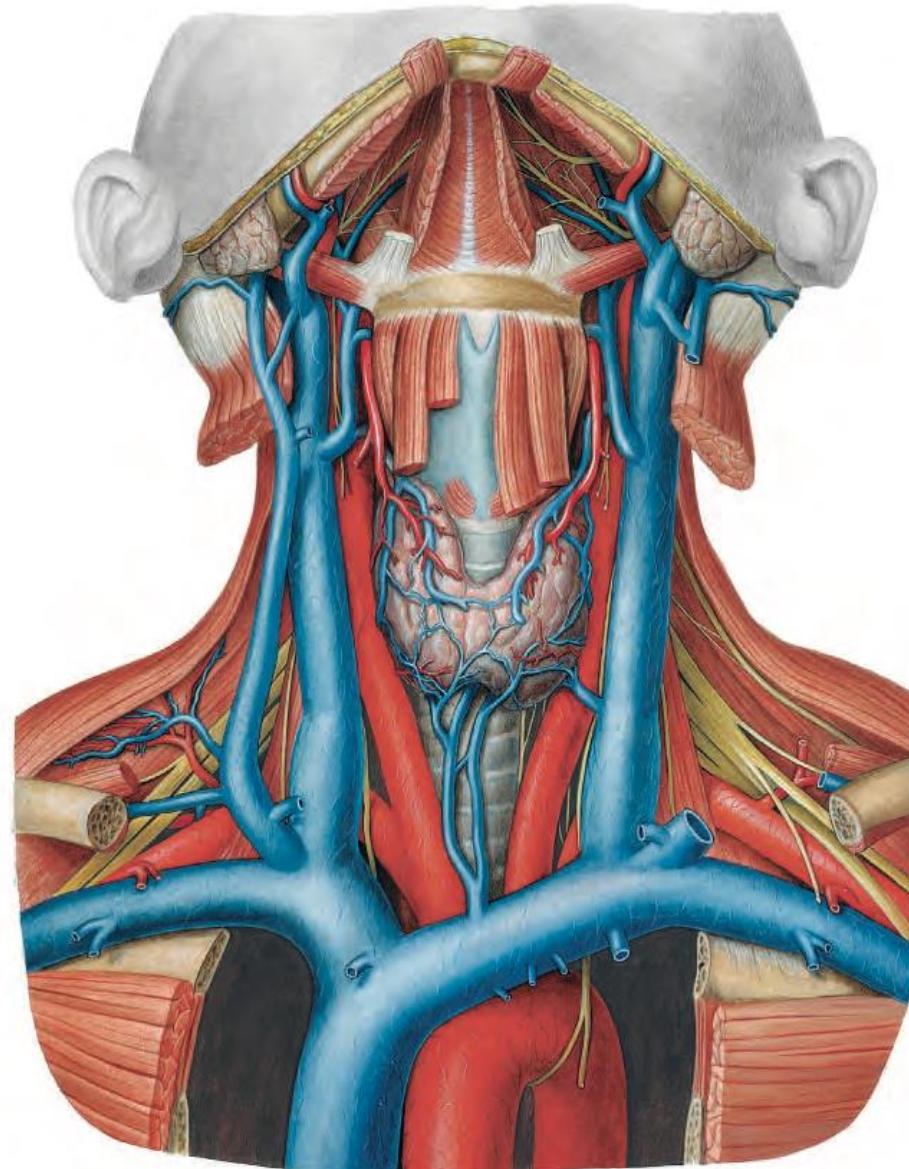
Venae jugulares

- V. jugularis interna
- V. jugularis externa
- V. jugularis anterior



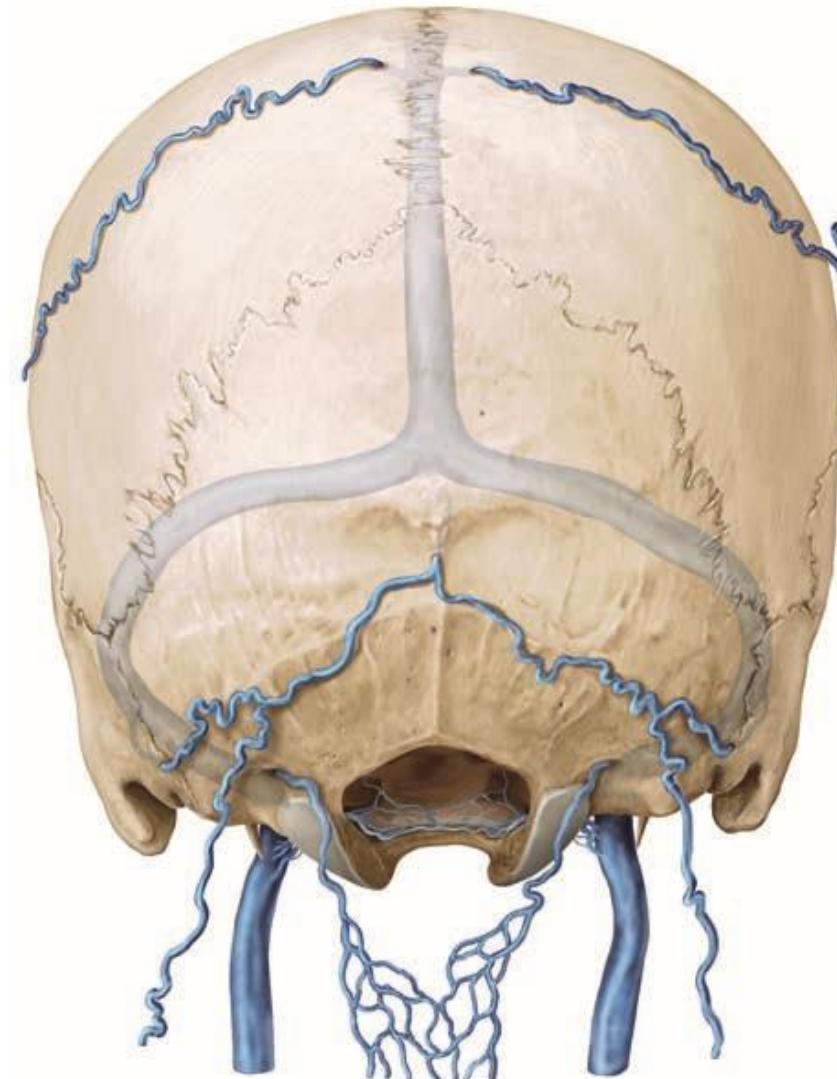
Venae cervicis

- V. jugularis interna
- V. jugularis externa
- V. jugularis anterior
- V. subclavia
- V. brachiocephalica
- V. cava superior



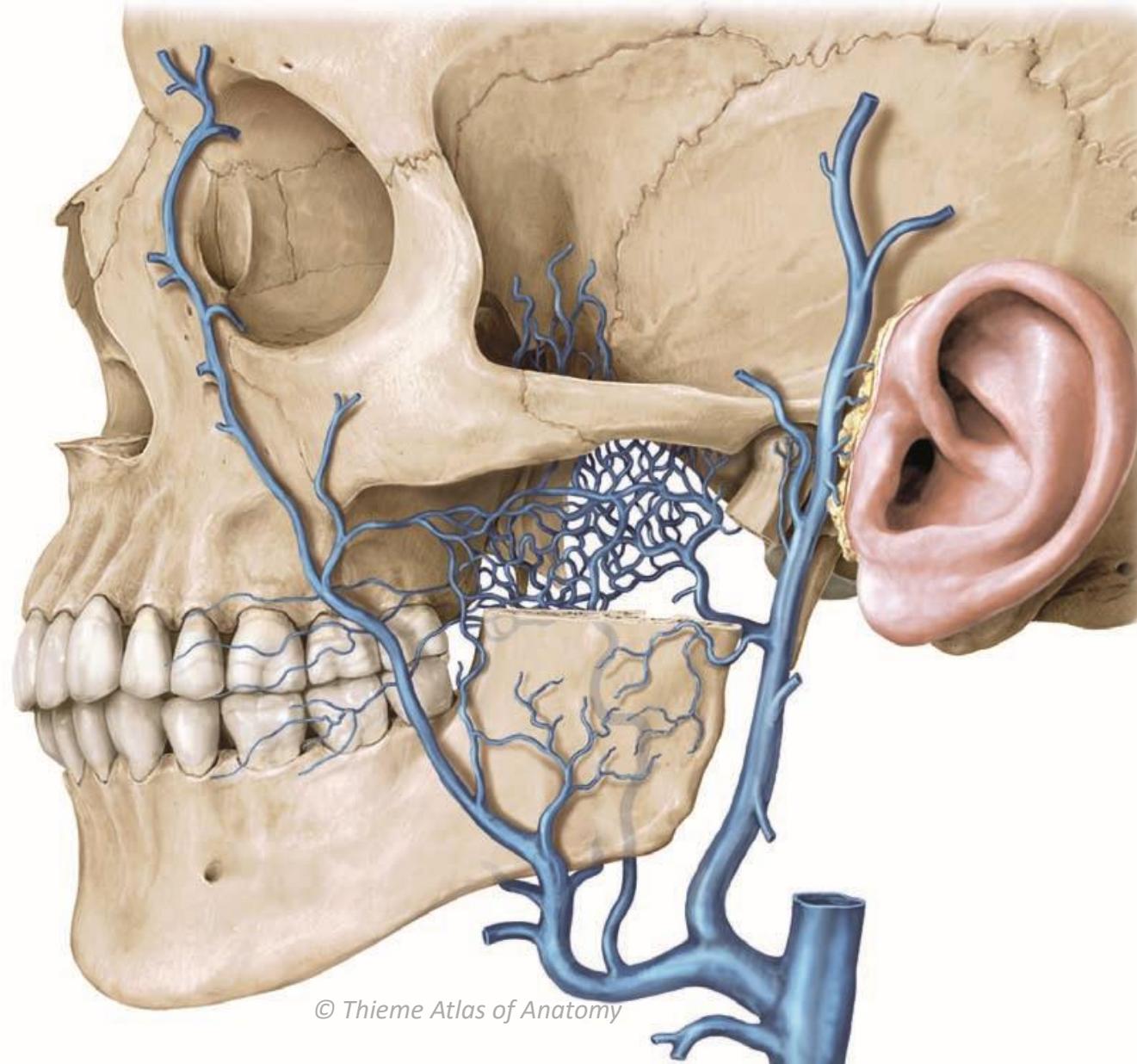
emissaria

- Vv. superficiales
- Emissarium
- Sinus durae matris



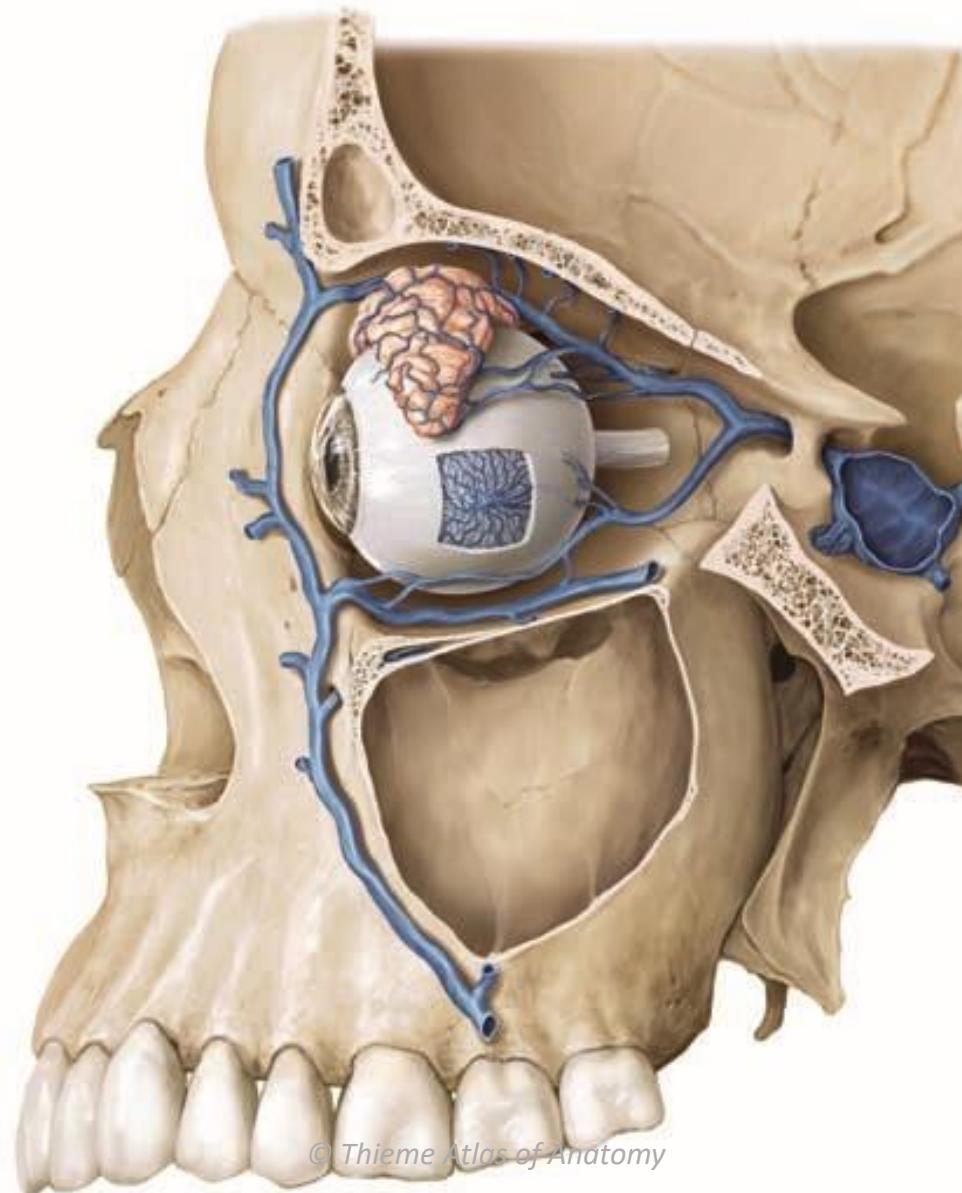
v. retromandibularis

► **Plexus pterygoideus**

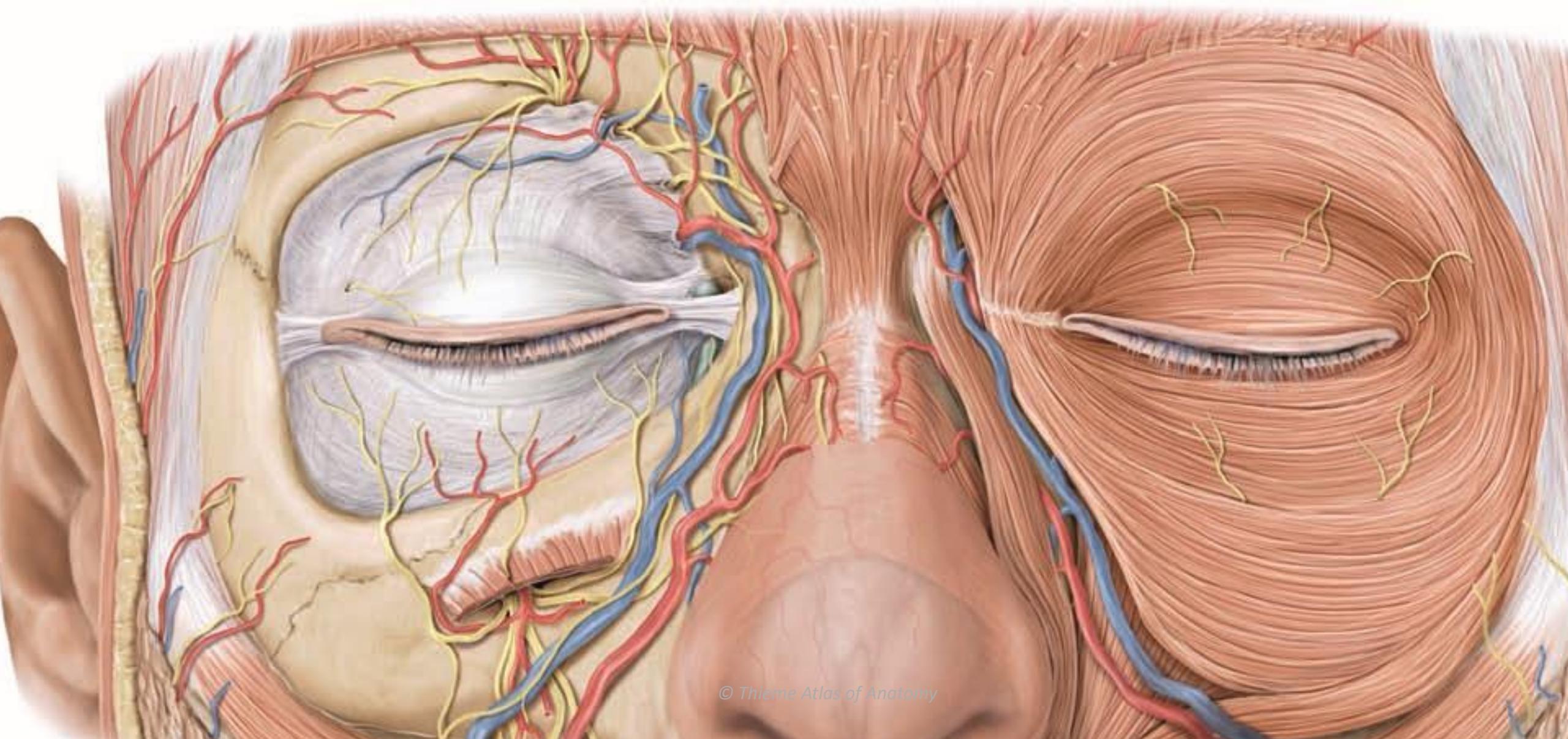


Venae orbitae

► Sinus cavernosus

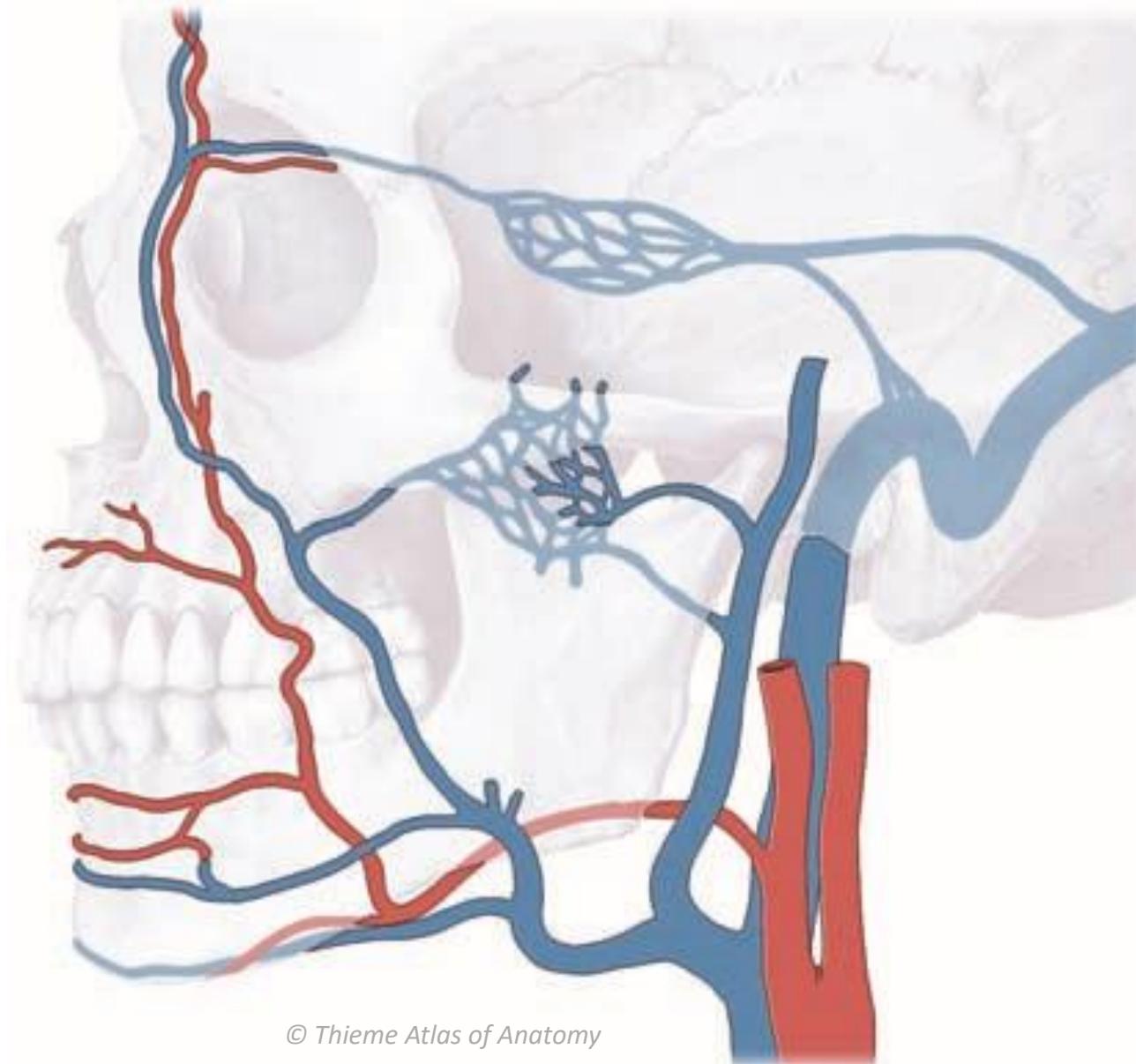


a. et v. angularis



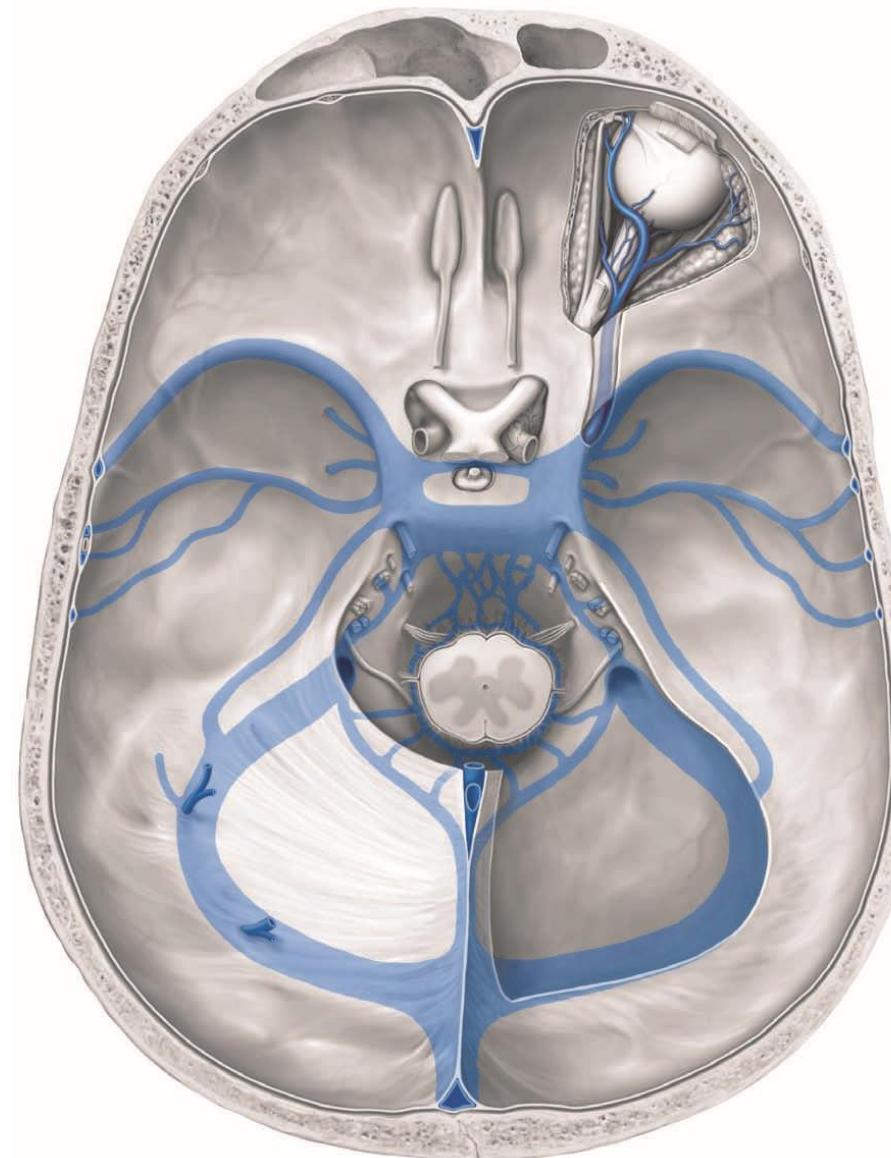
Sinus cavernosus, plexus pterygoideus

► infection



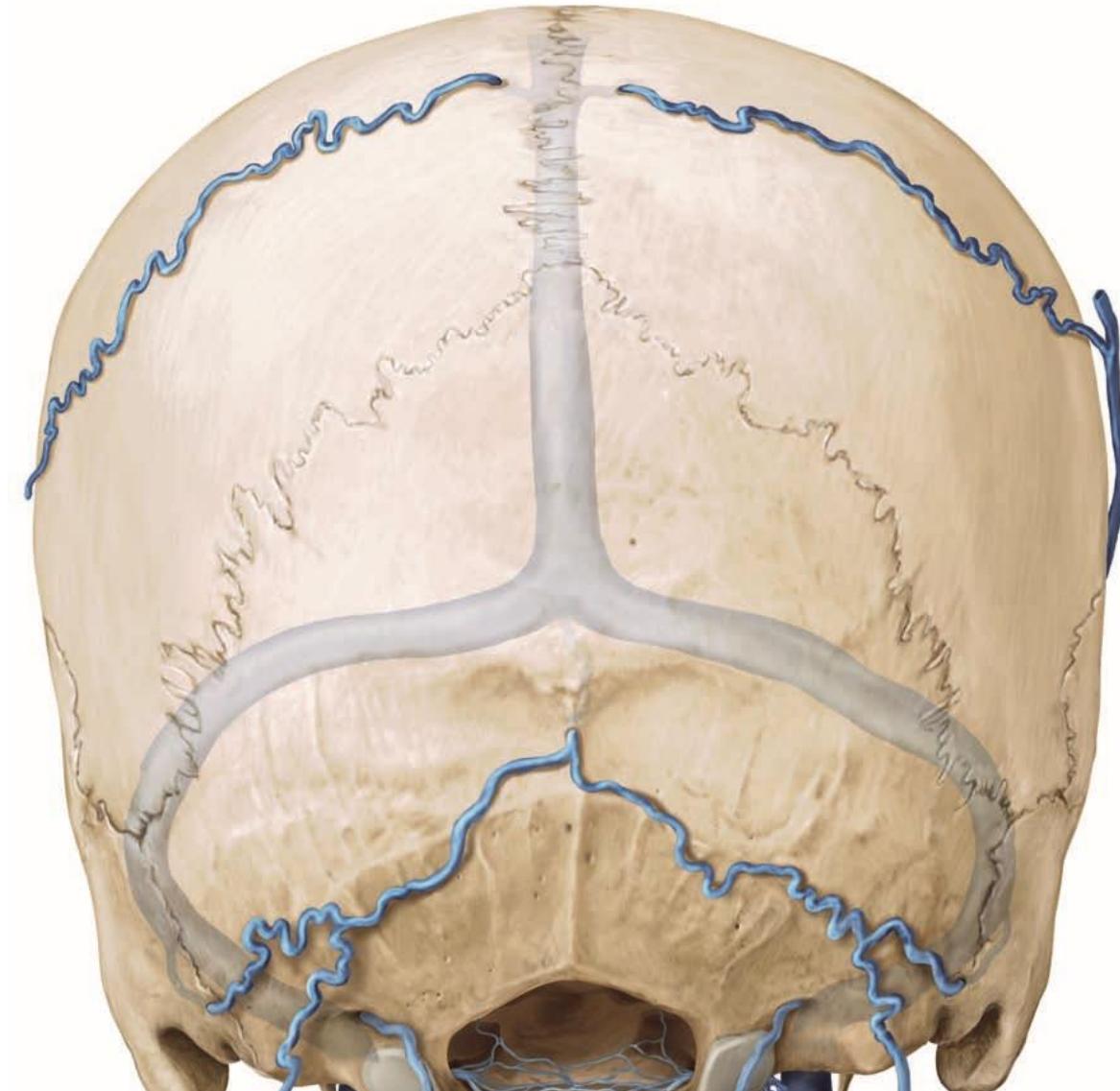
Sinus durae matris

- Confluens sinuum
- Sinus transversus
- Sinus sigmoideus
- V. jugularis interna
- Sinus cavernosus

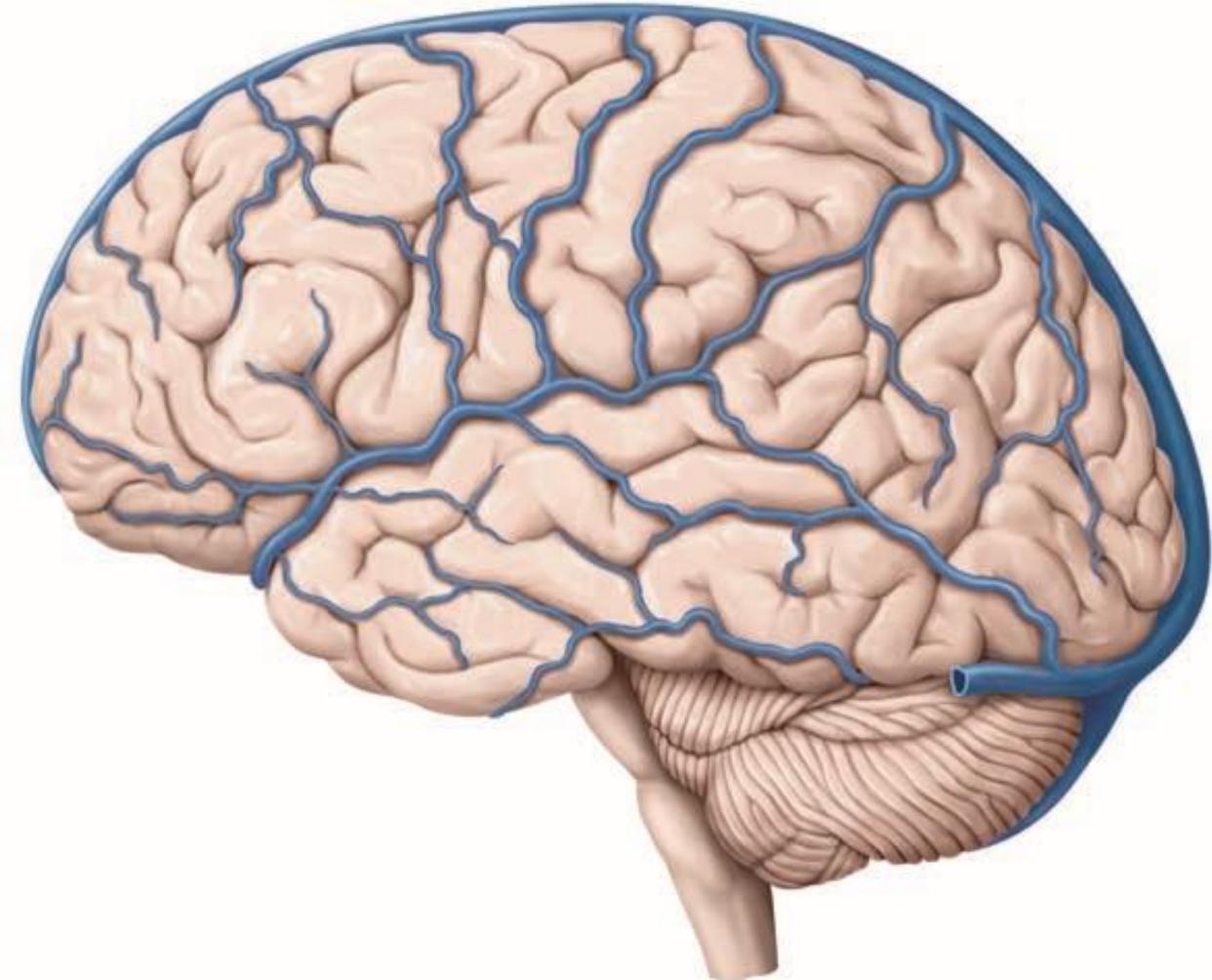
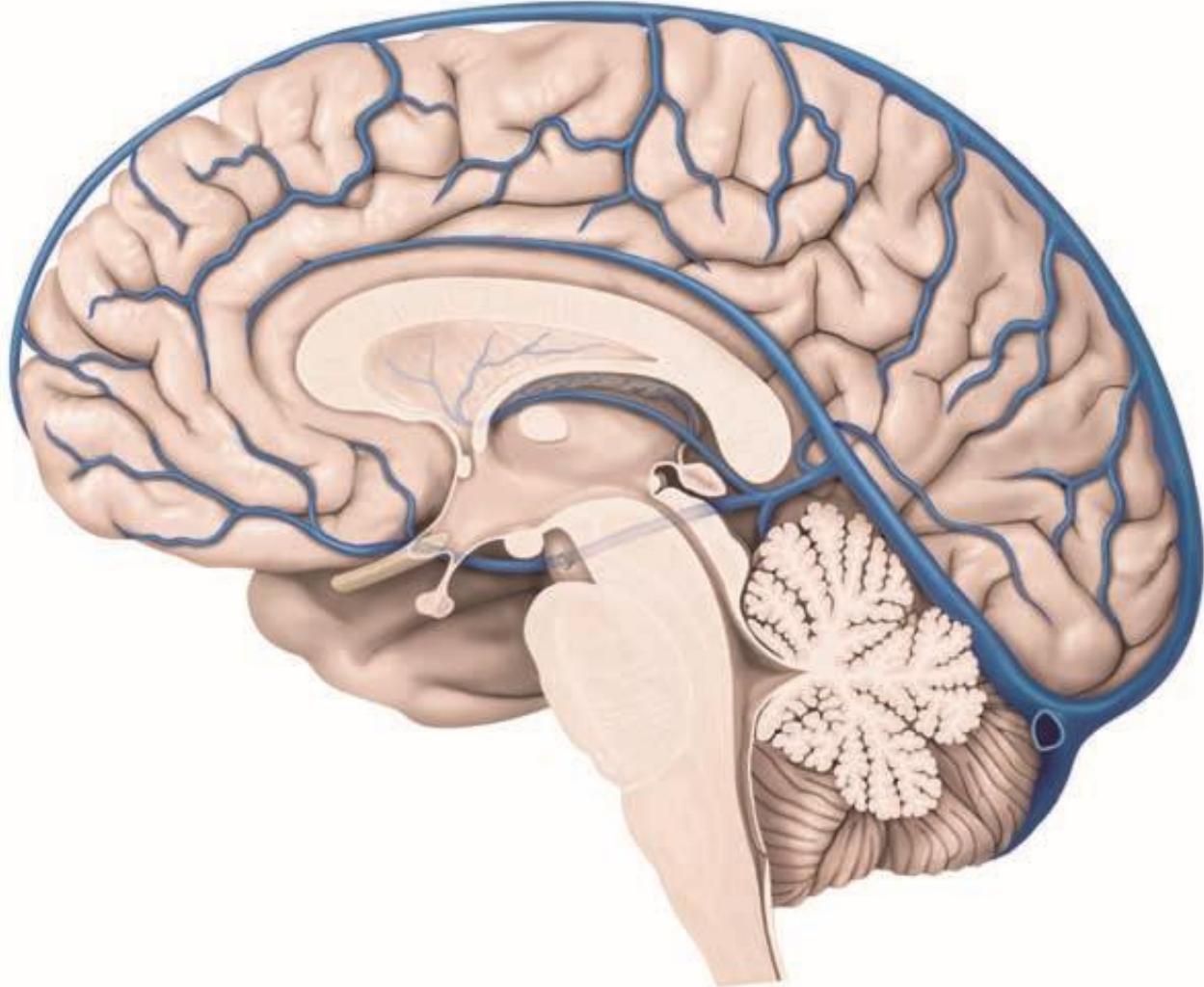


Confluens sinuum

- ❖ Sinus sagittalis superior
- ❖ Sinus transversi



Sinus sagittalis superior et inferior, sinus rectus



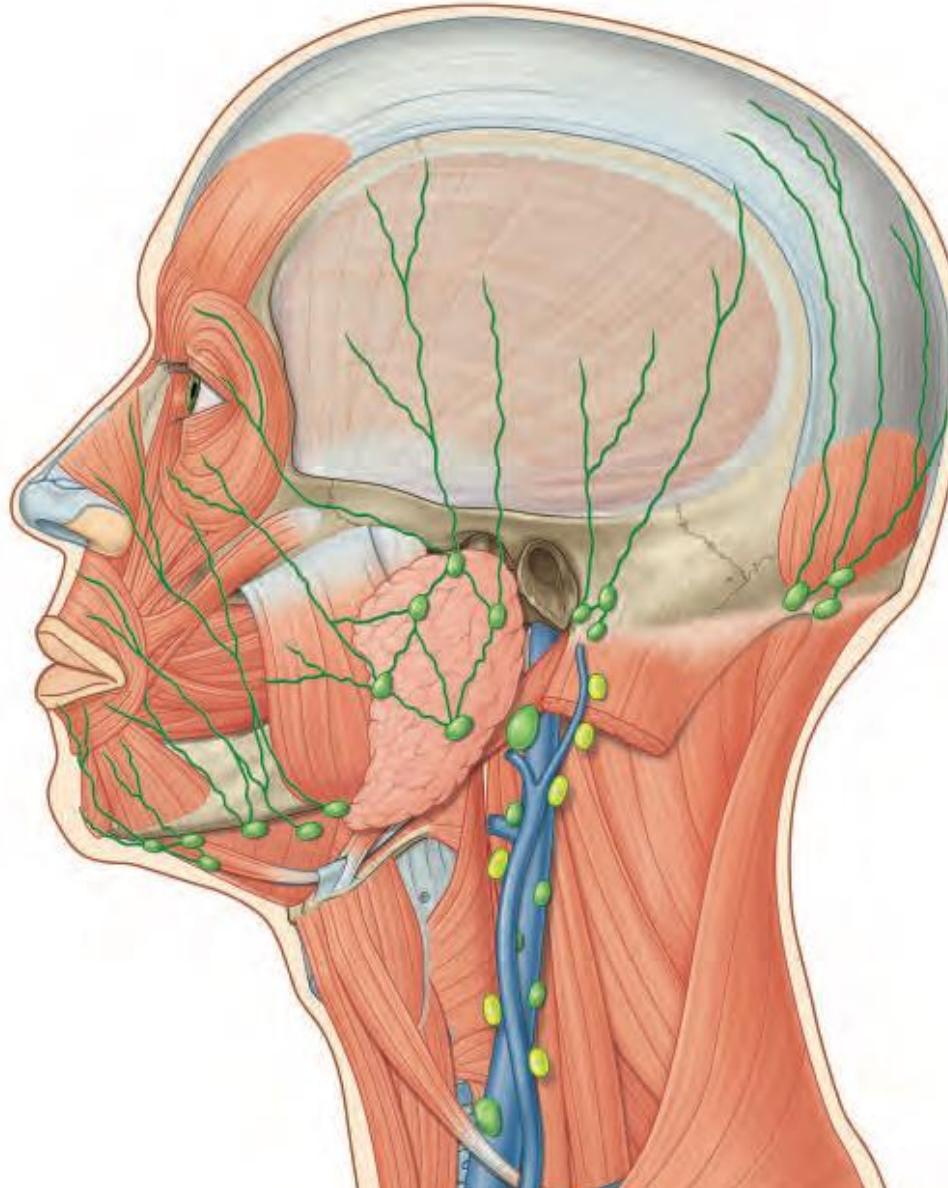
Sinus durae matris

Nodi lymphatici

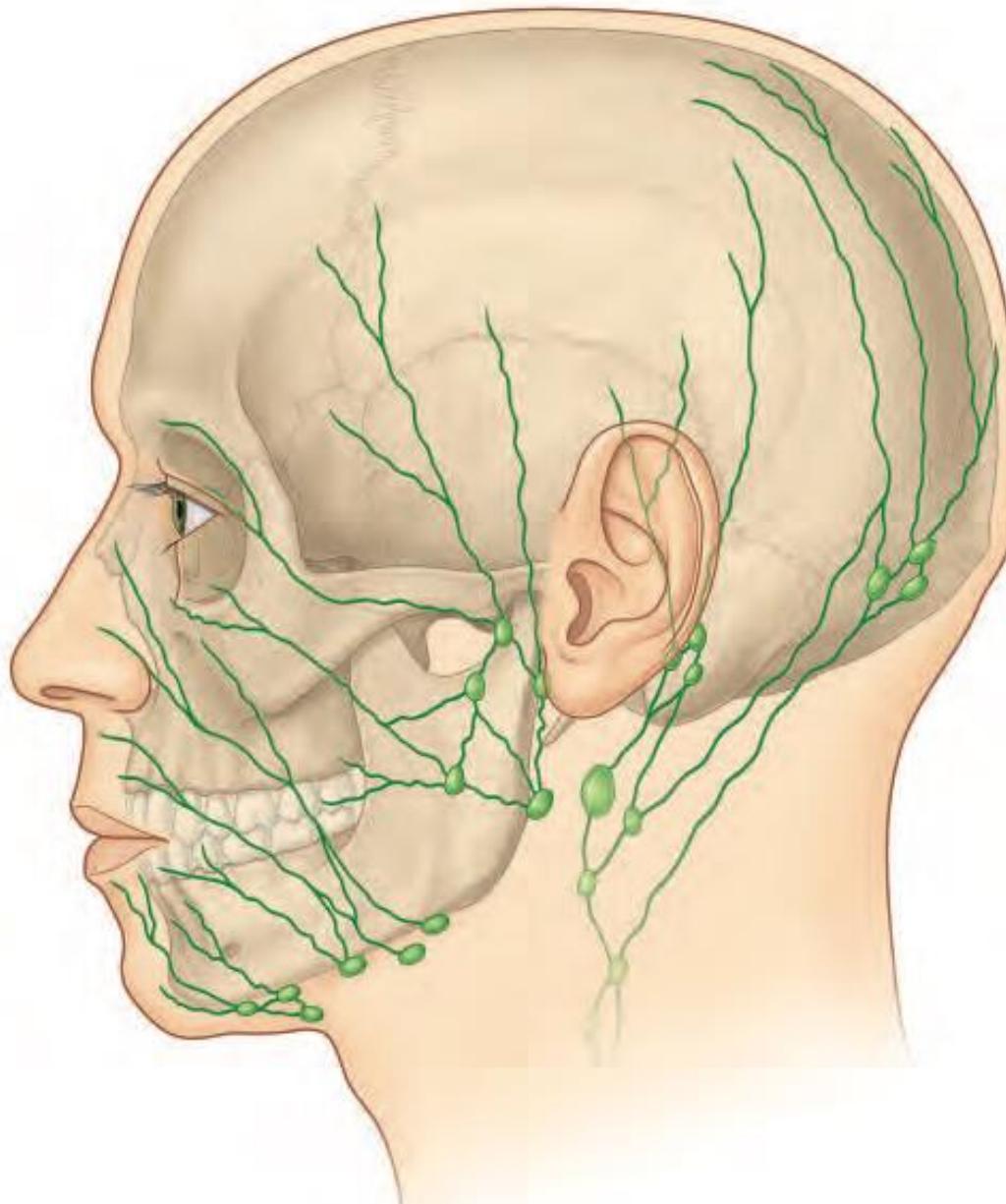
- **Occipitales**
- **Retroauriculares**
- **Parotidei**

- **Submentales**
- **Submandibulares**
- **Jugulares**

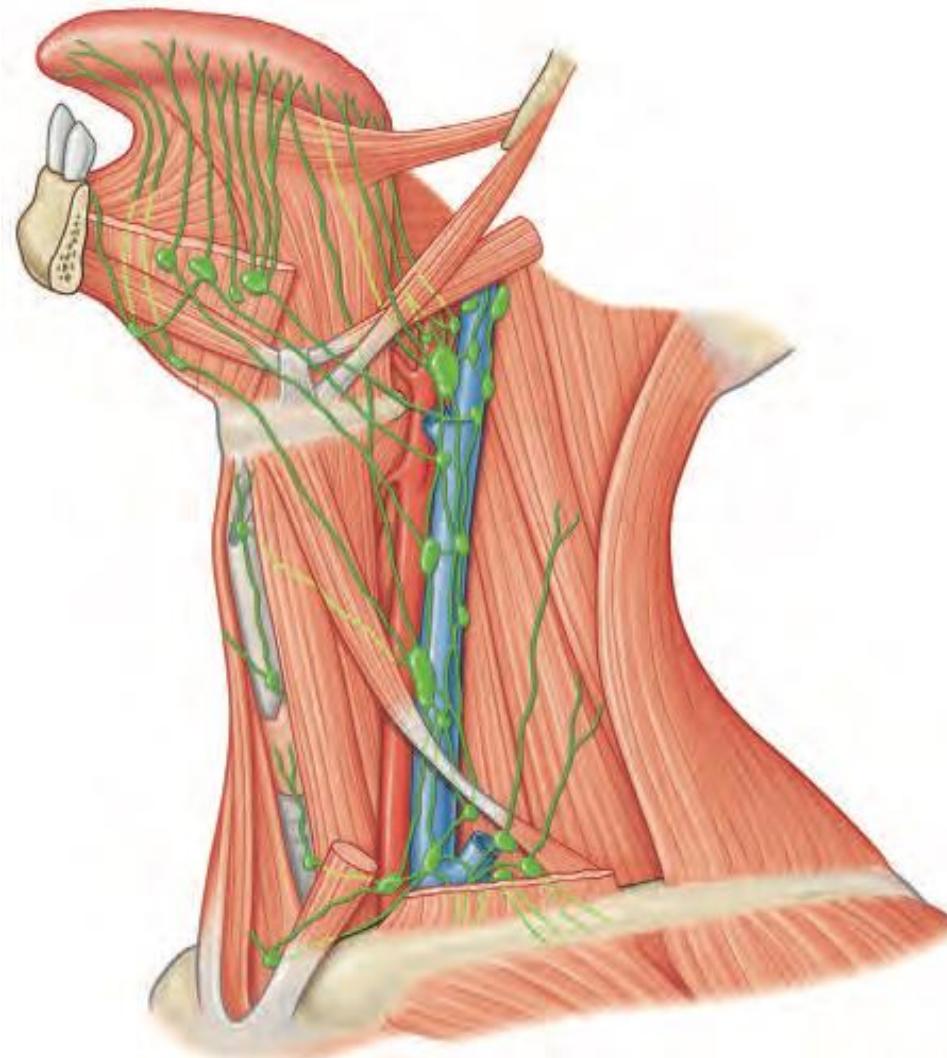
- **Nodus digastricus**



Ring

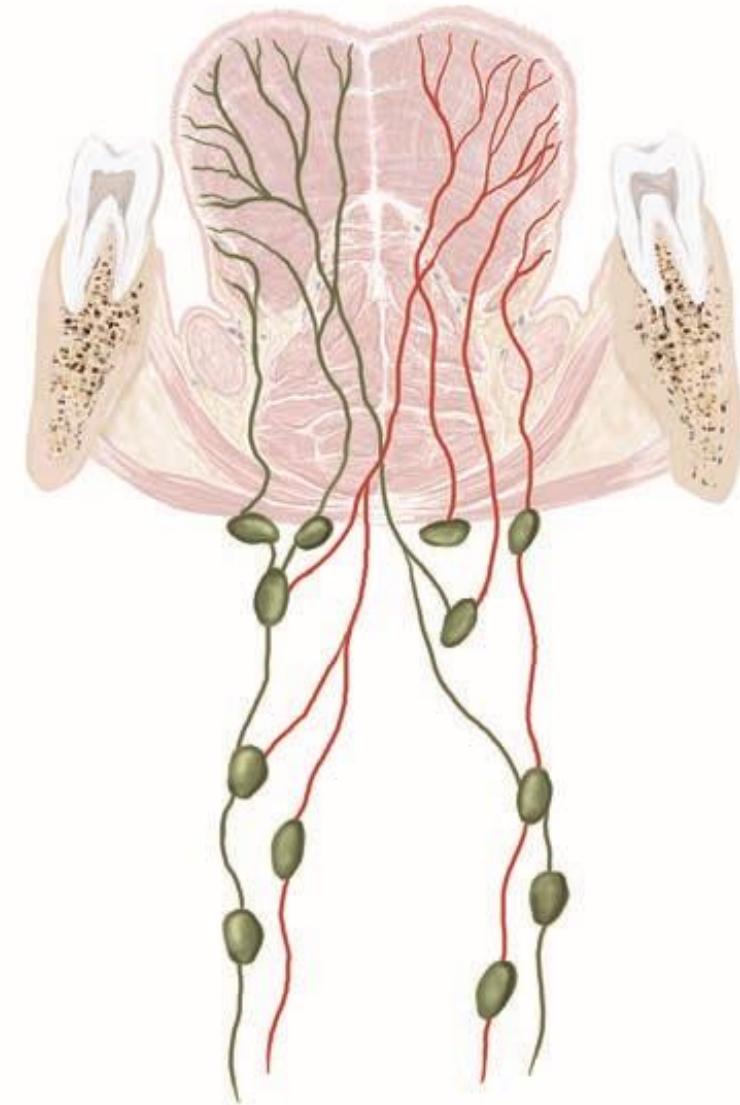


String



Nodi lymphatici

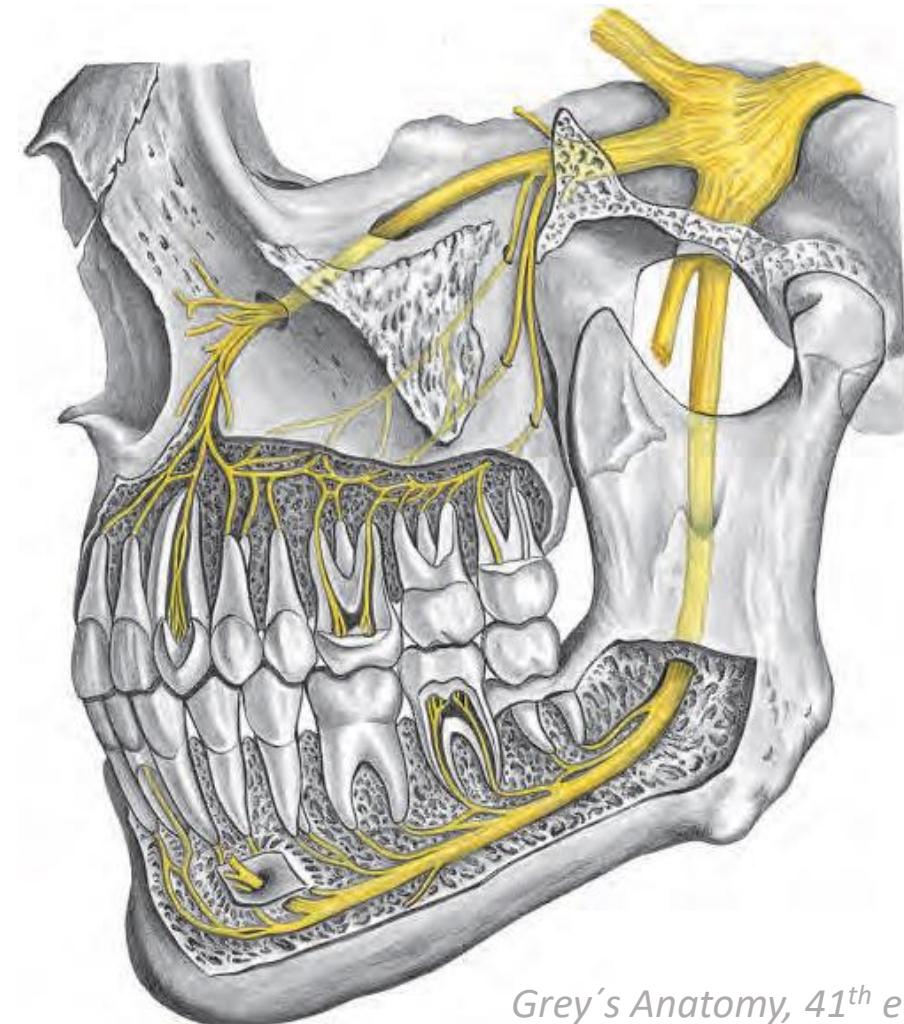
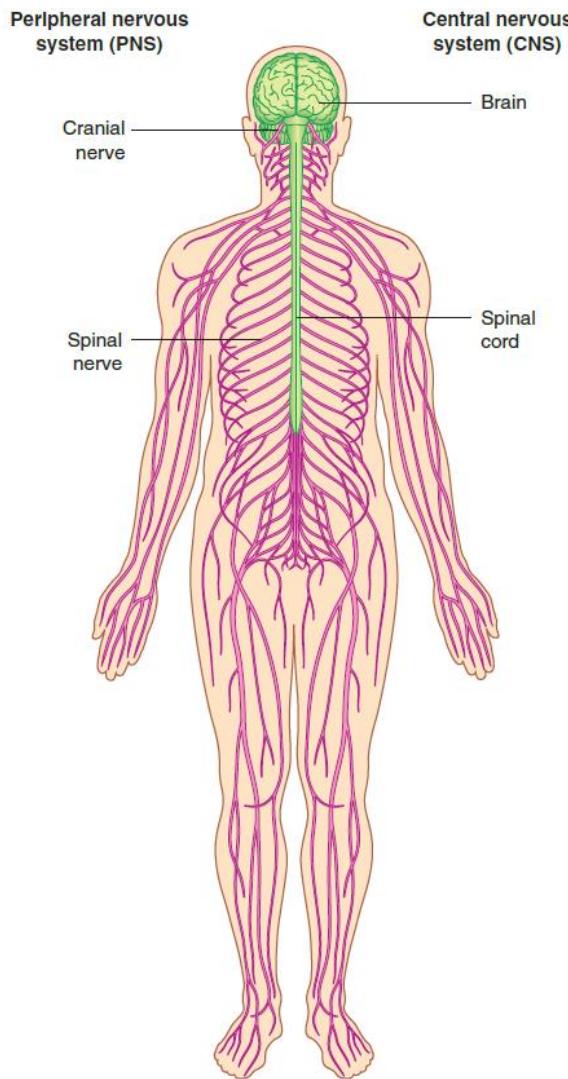
- Submentales
- Submandibulare
- Jugulares



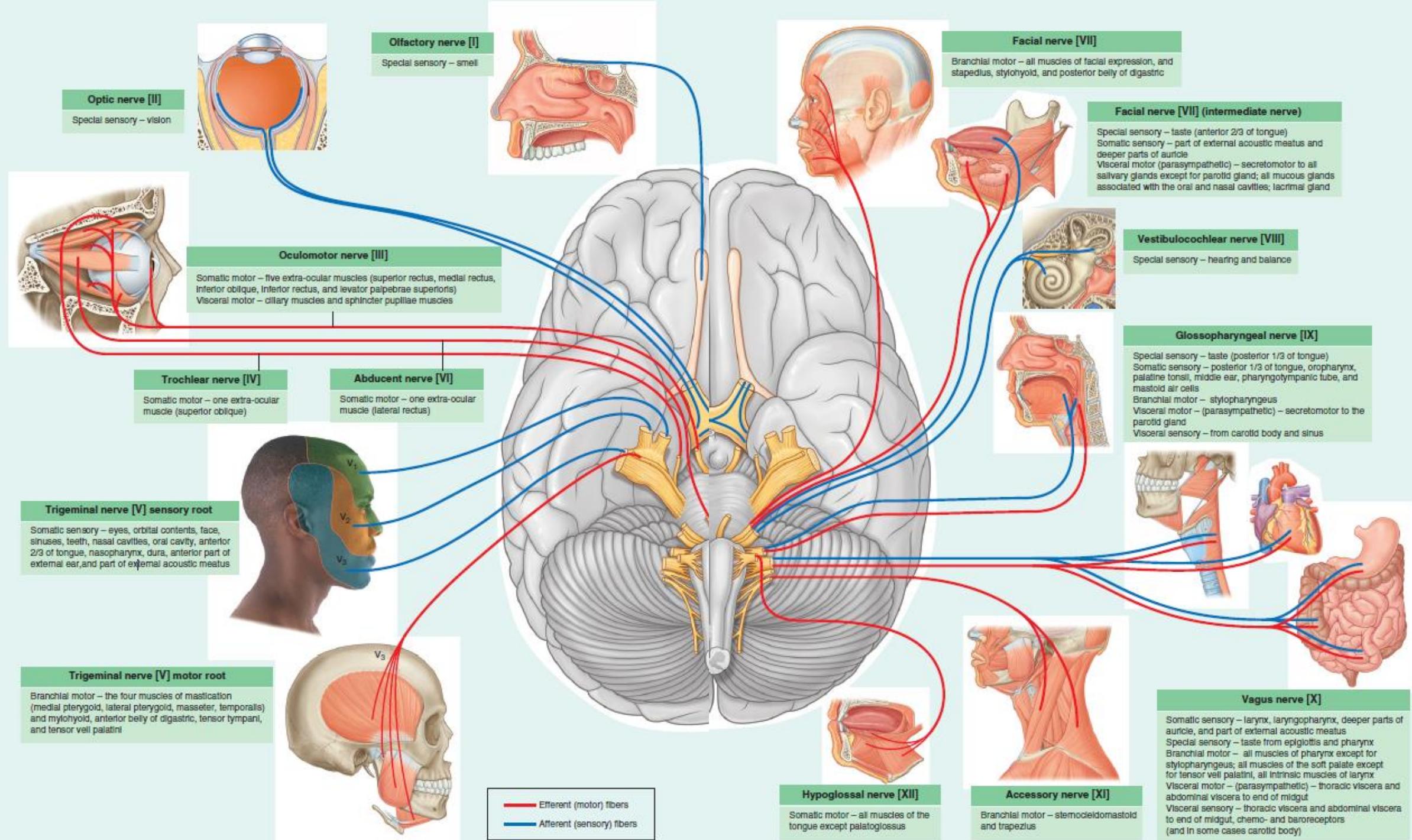
Nerves of head and neck

- ❖ CNS
- ❖ Cerebrum
- ❖ Medulla spinalis

- ❖ PNS
- ❖ Nervi craniales
- ❖ Nervi spinales



Grey's Anatomy, 41th ed.



nervi craniales – cranial nerves – hlavové nervy

0. nervus terminalis – terminal nerve – koncový nerv

I. nervus olfactorius – olfactory nerve – čichový nerv

II. nervus opticus – optic nerve – zrakový nerv

III. nervus oculomotorius – oculomotor nerve – okohybný nerv

IV. nervus trochlearis – trochlear nerve – kladkový nerv

V. nervus trigeminus – trigeminal nerve – trojklanný nerv

VI. nervus abducens – abducent nerve – odtahovací nerv

VII. nervus facialis – facial nerve – lícní nerv

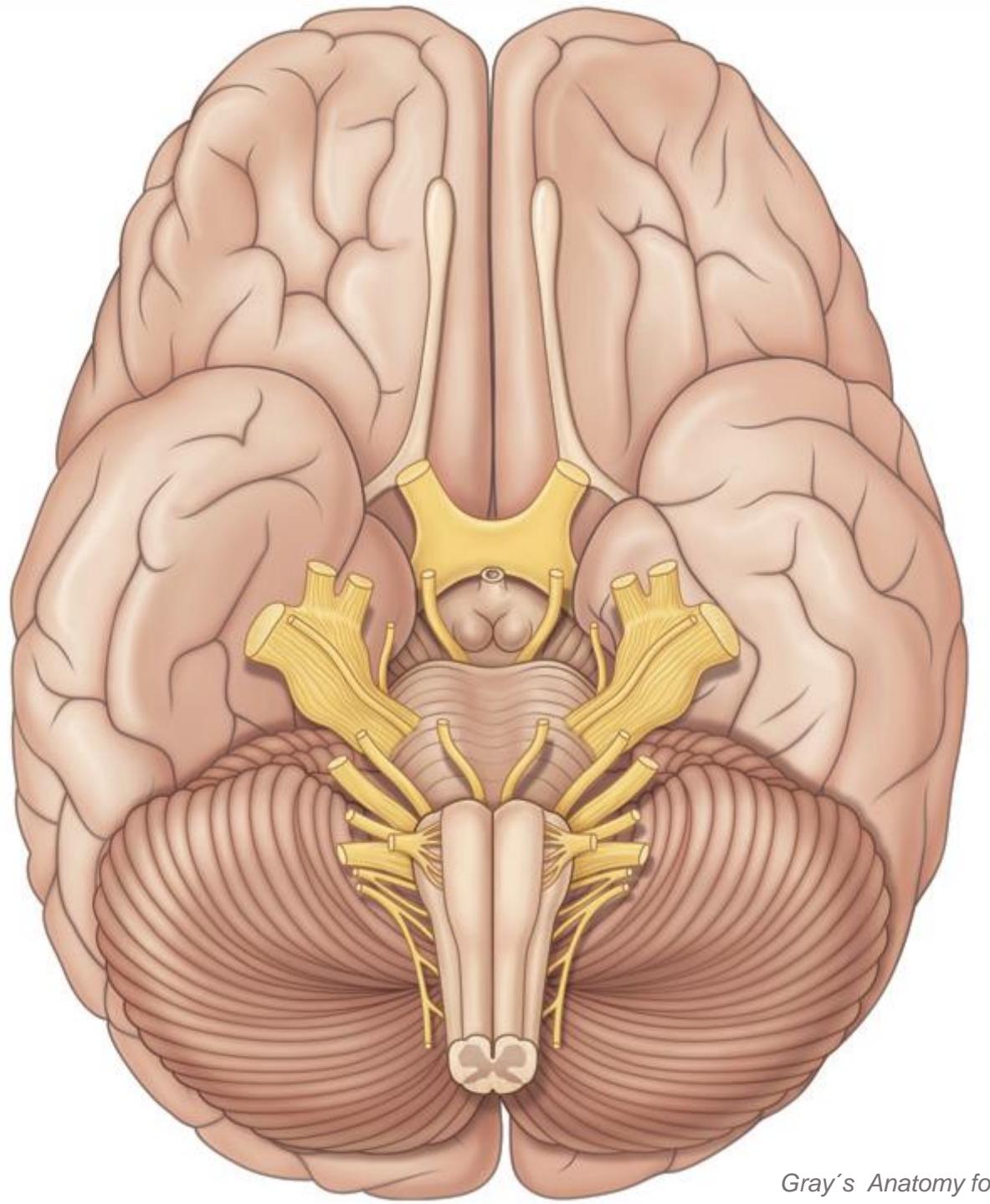
VIII. nervus vestibulocochlearis – vestibulocochlear nerve – rovnovážný a sluchový nerv

IX. nervus glossopharyngeus – glossopharyngeal nerve – jazykohltanový nerv

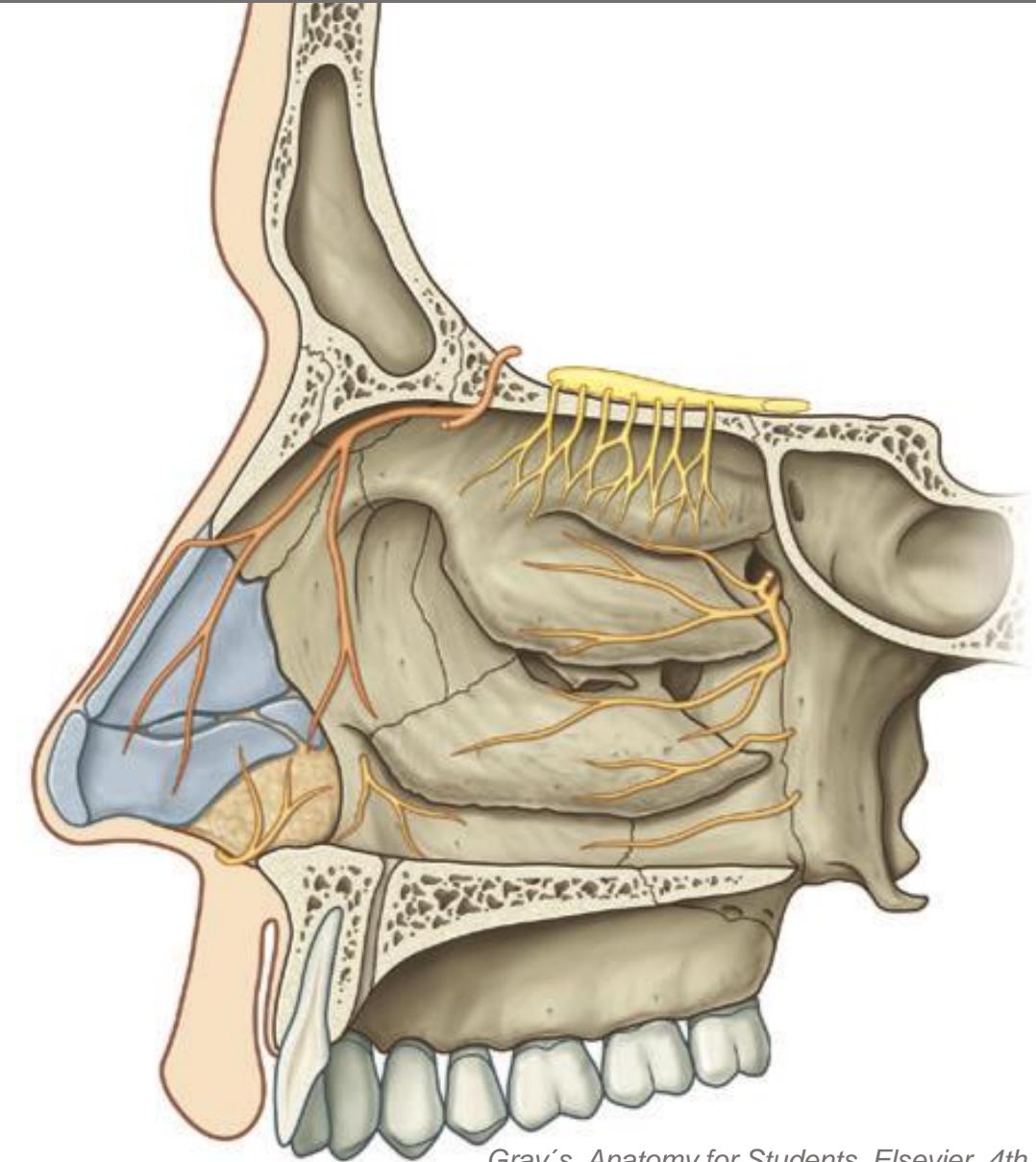
X. nervus vagus – vagal nerve – bloudivý nerv

XI. nervus accesorius – accessory nerve – přídatný nerv

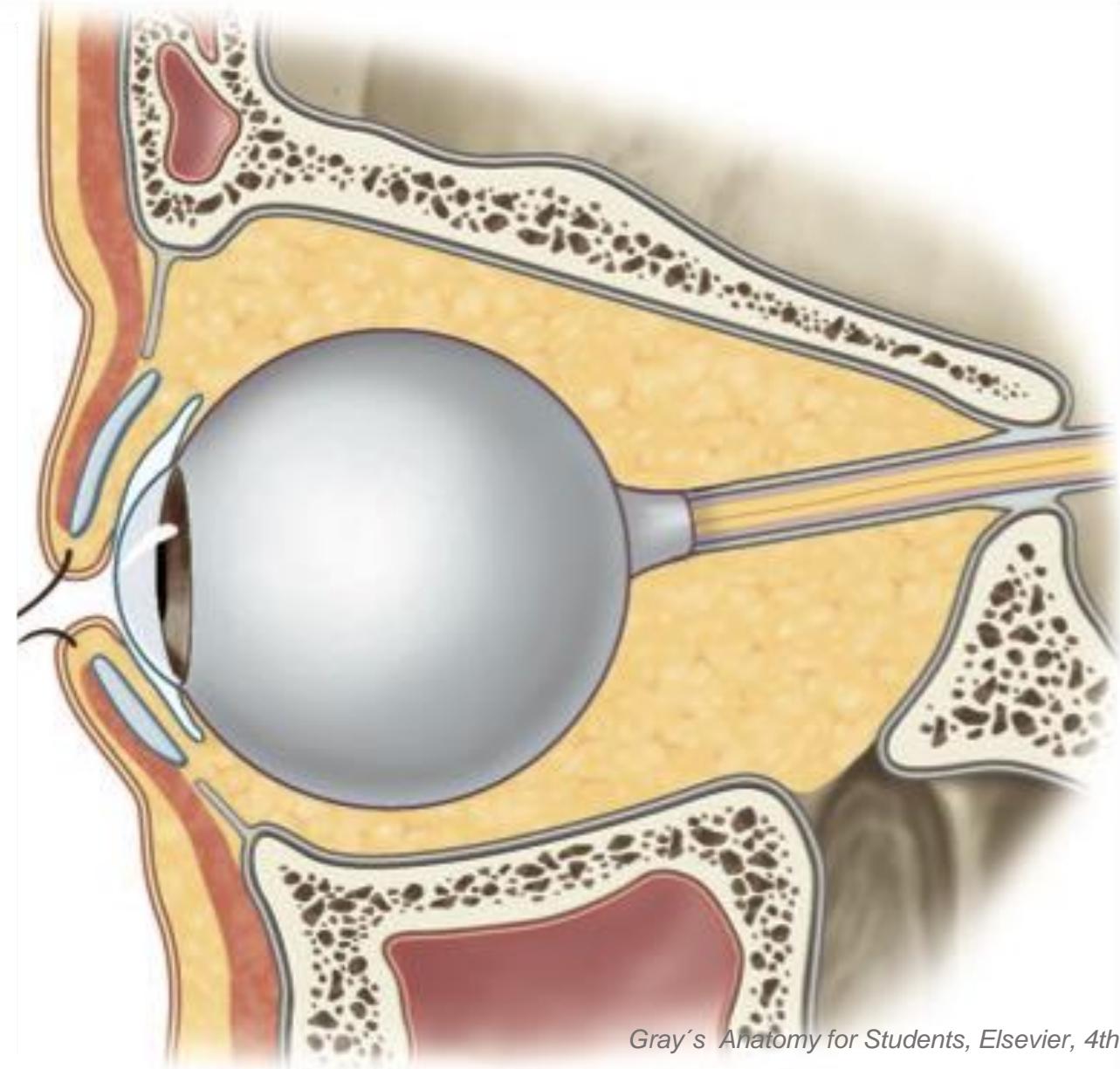
XII. nervus hypoglossus – hypoglossal nerve – podjazykový nerv



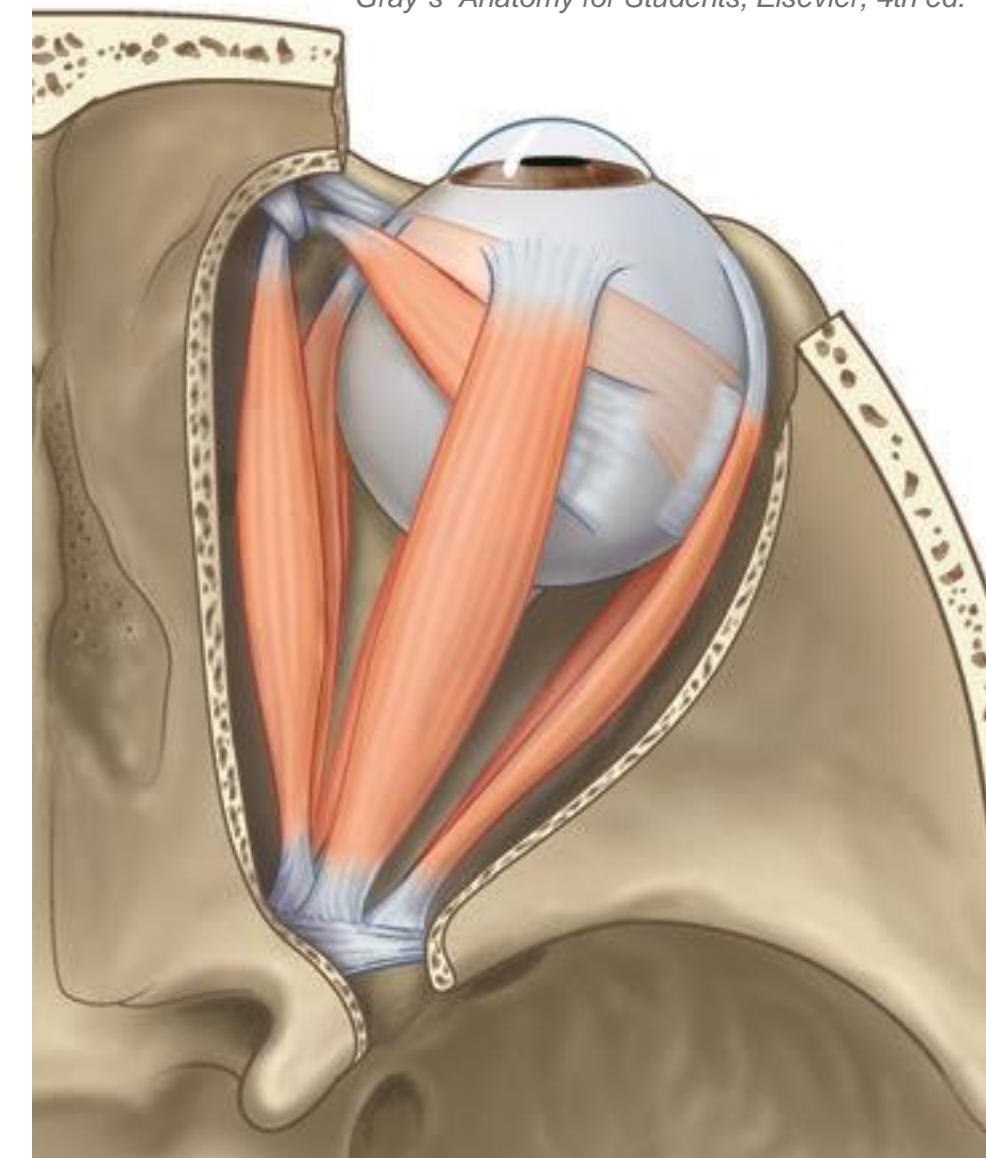
I. Nervus olfactorius



II. Nervus opticus

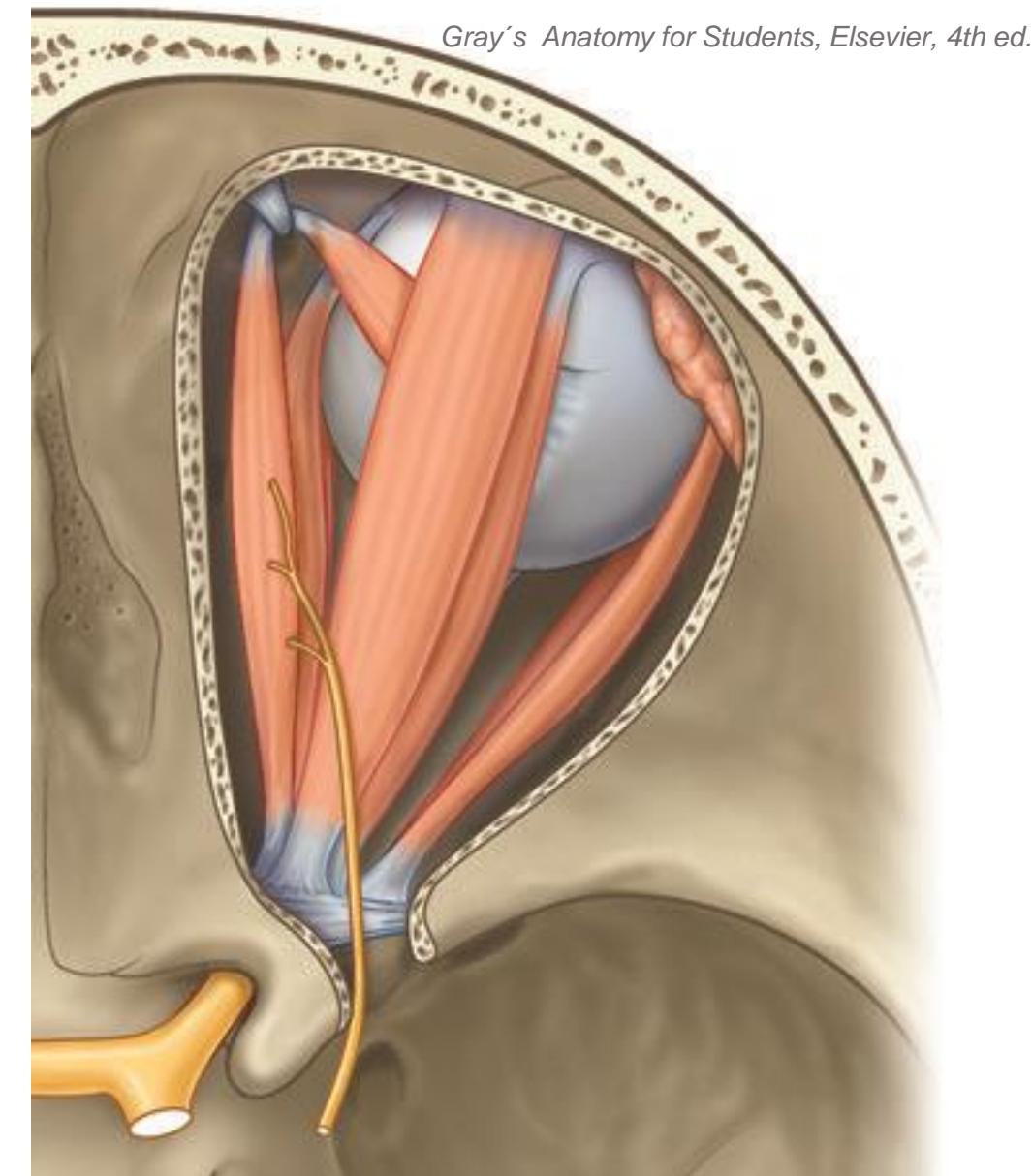
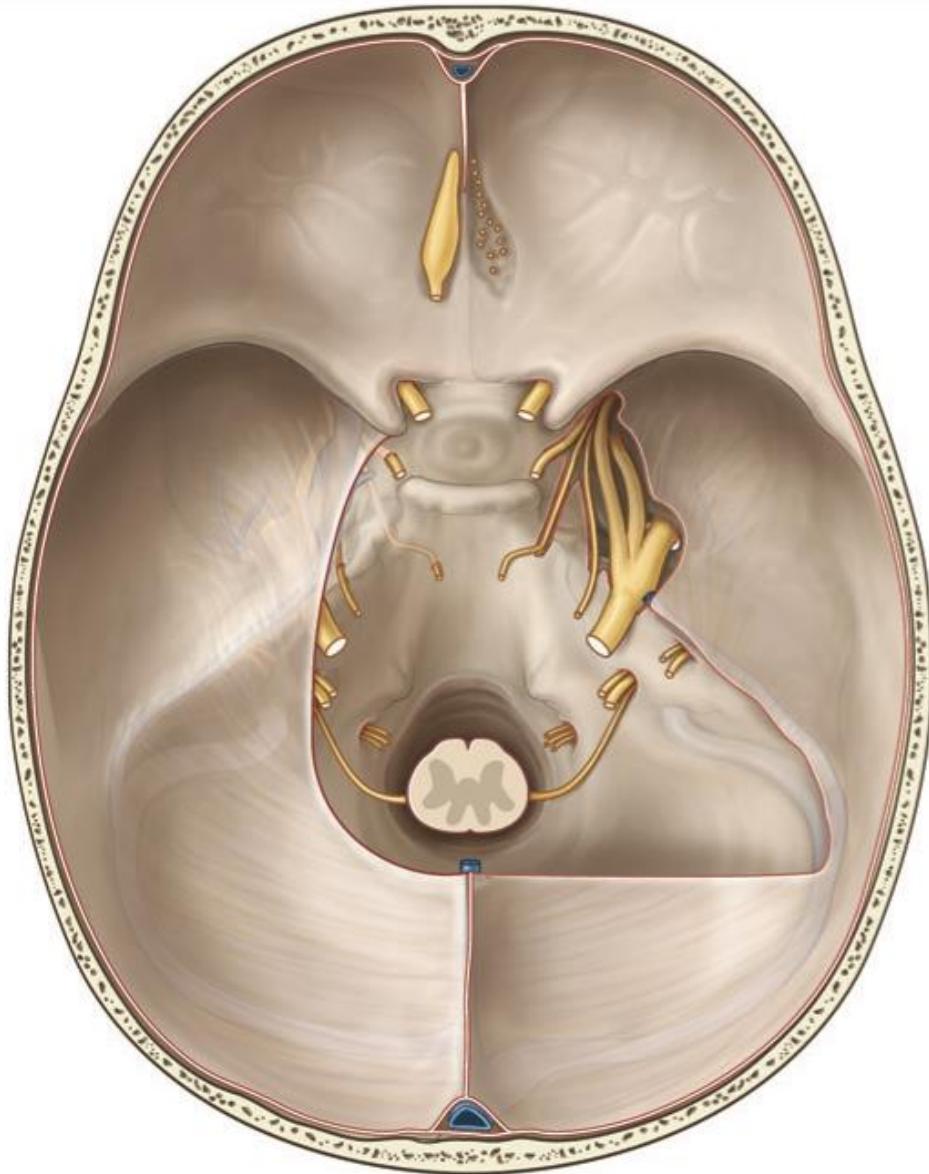


III. Nervus oculomotorius

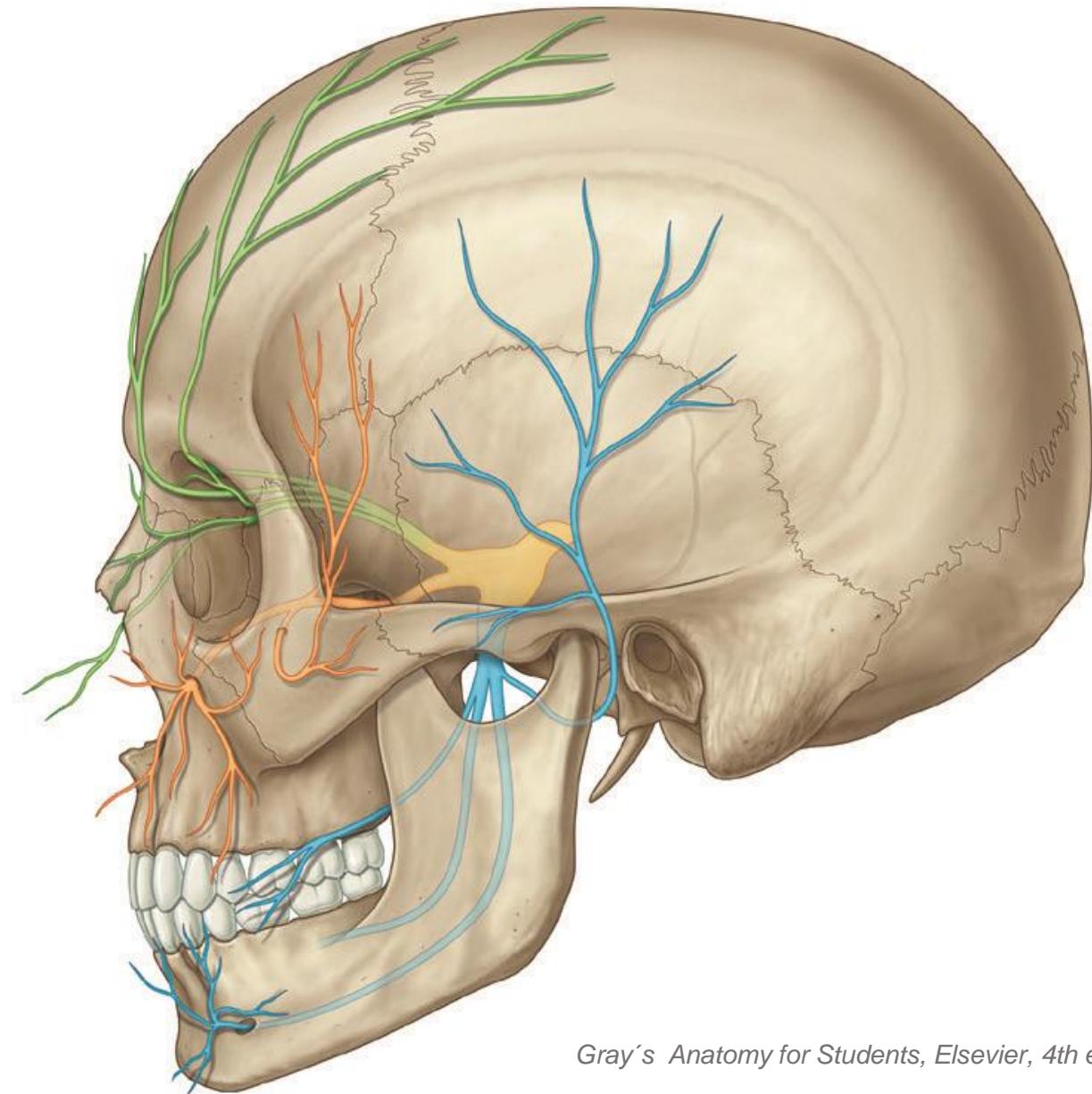


Gray's Anatomy for Students, Elsevier, 4th ed.

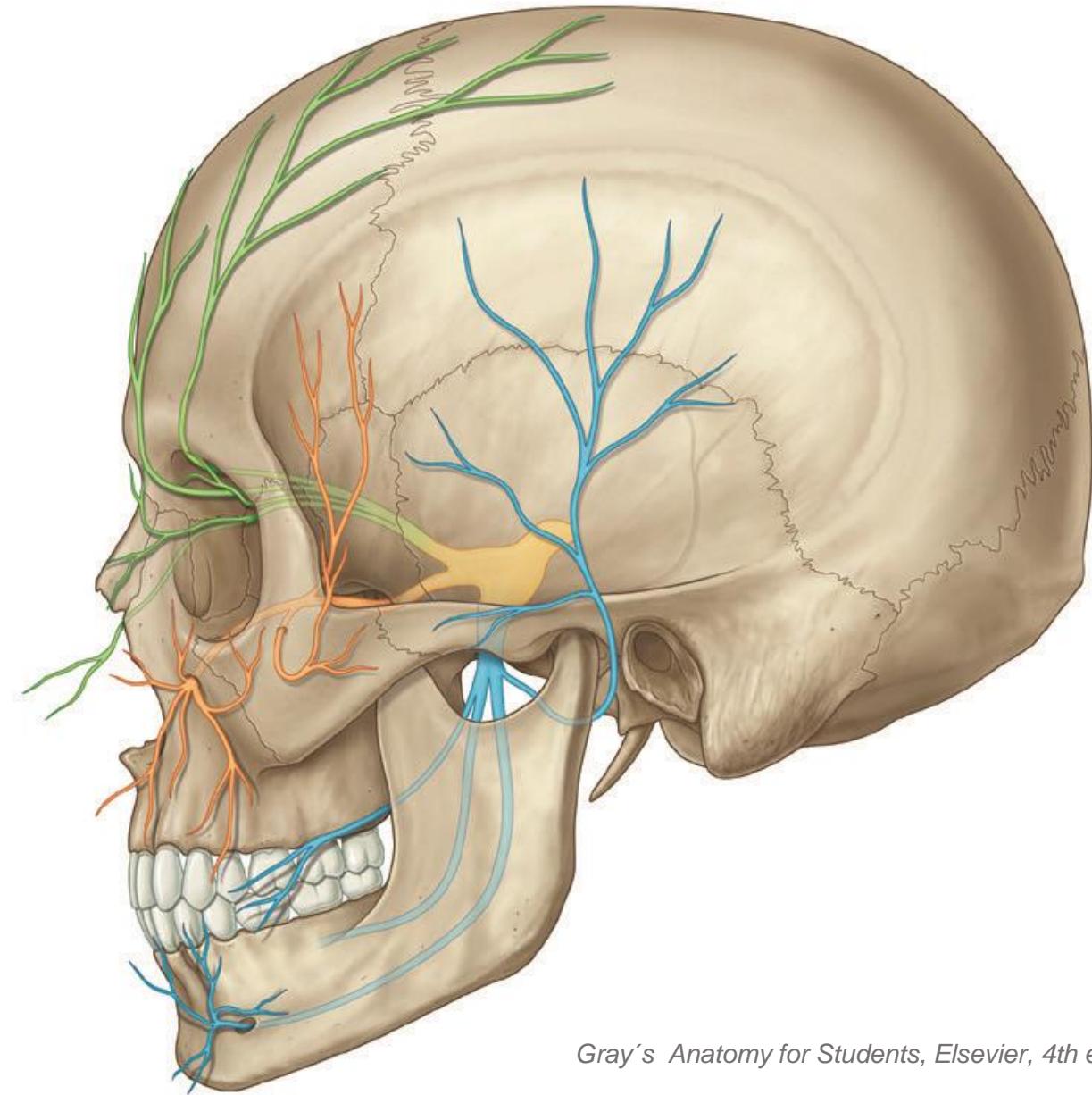
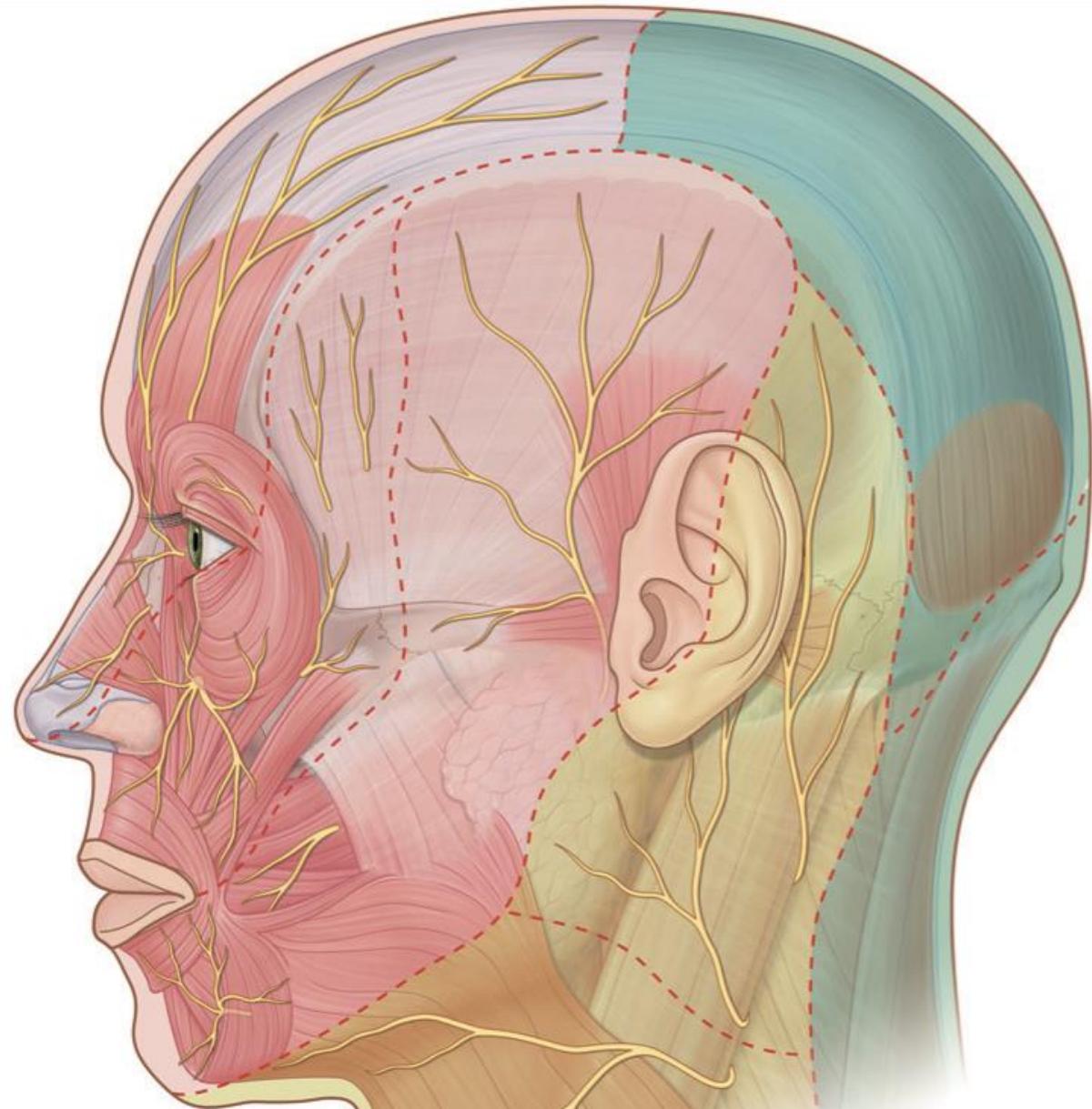
IV. Nervus trochlearis



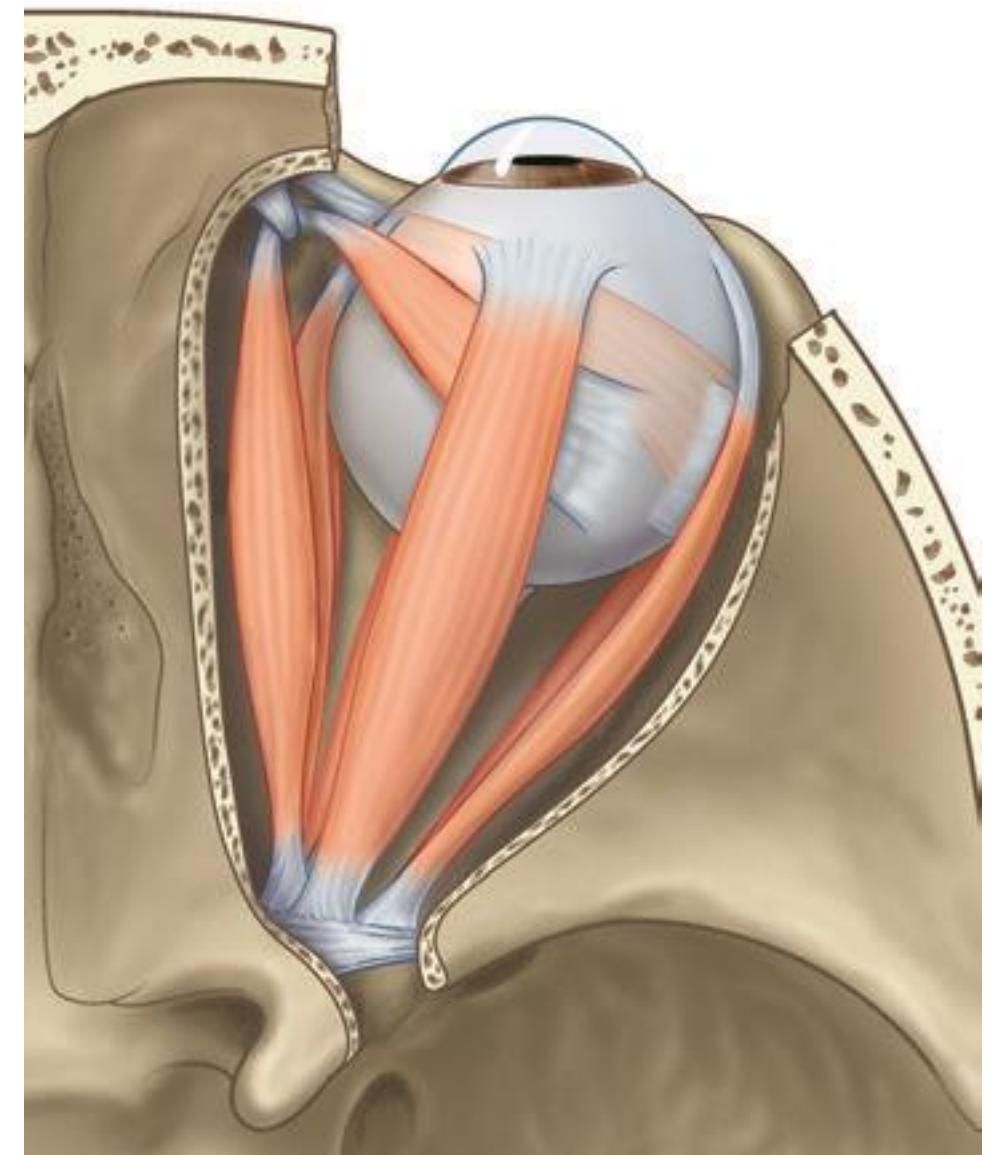
V. Nervus trigeminus



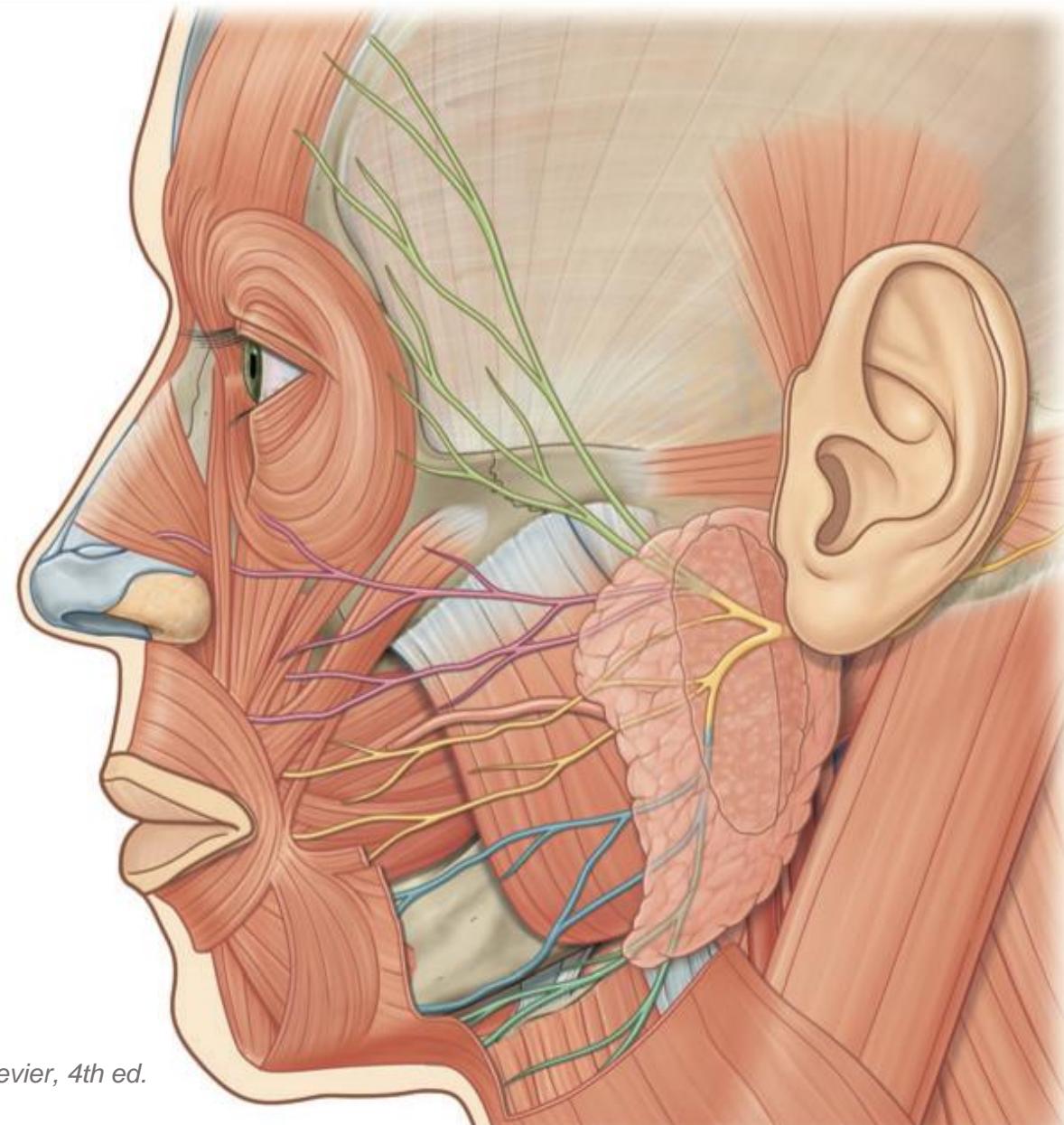
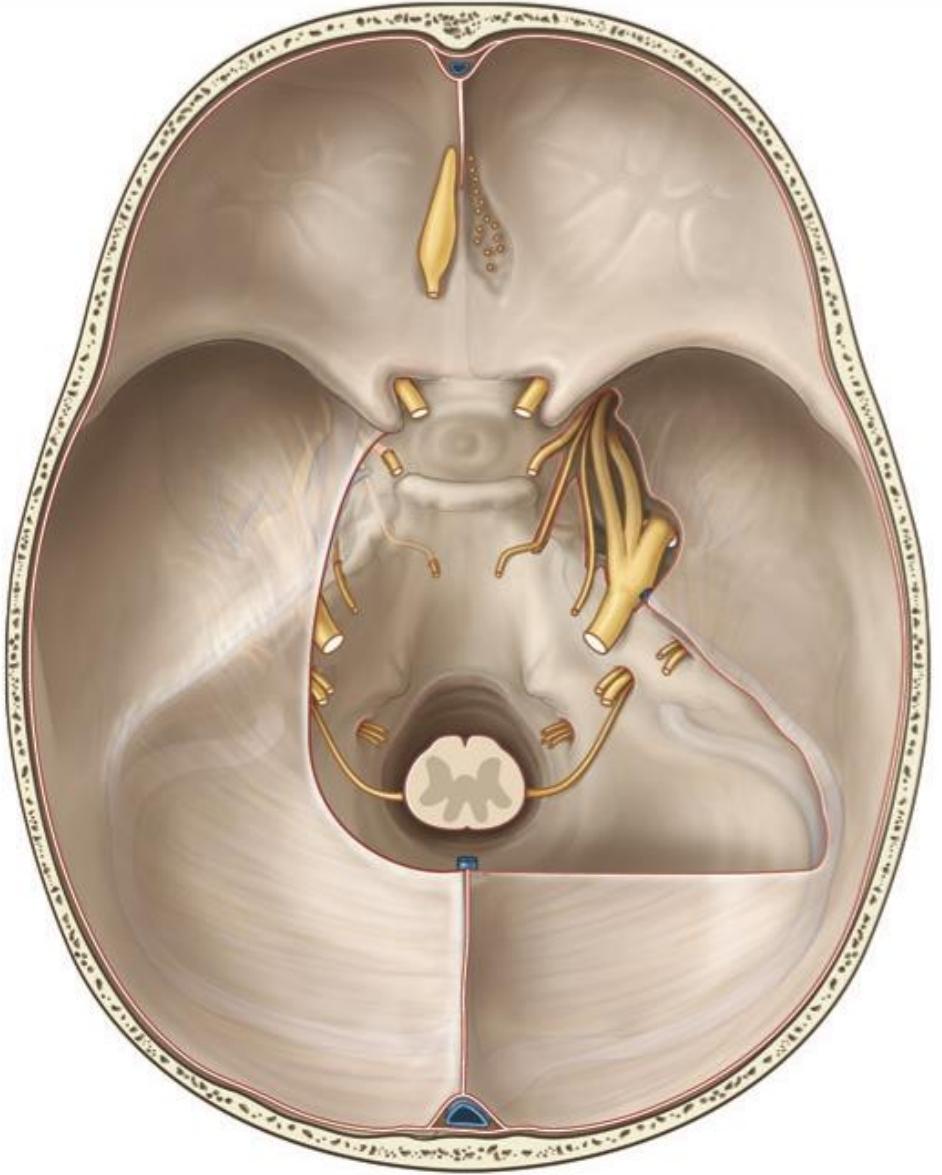
V. Nervus trigeminus



VI. Nervus abducens

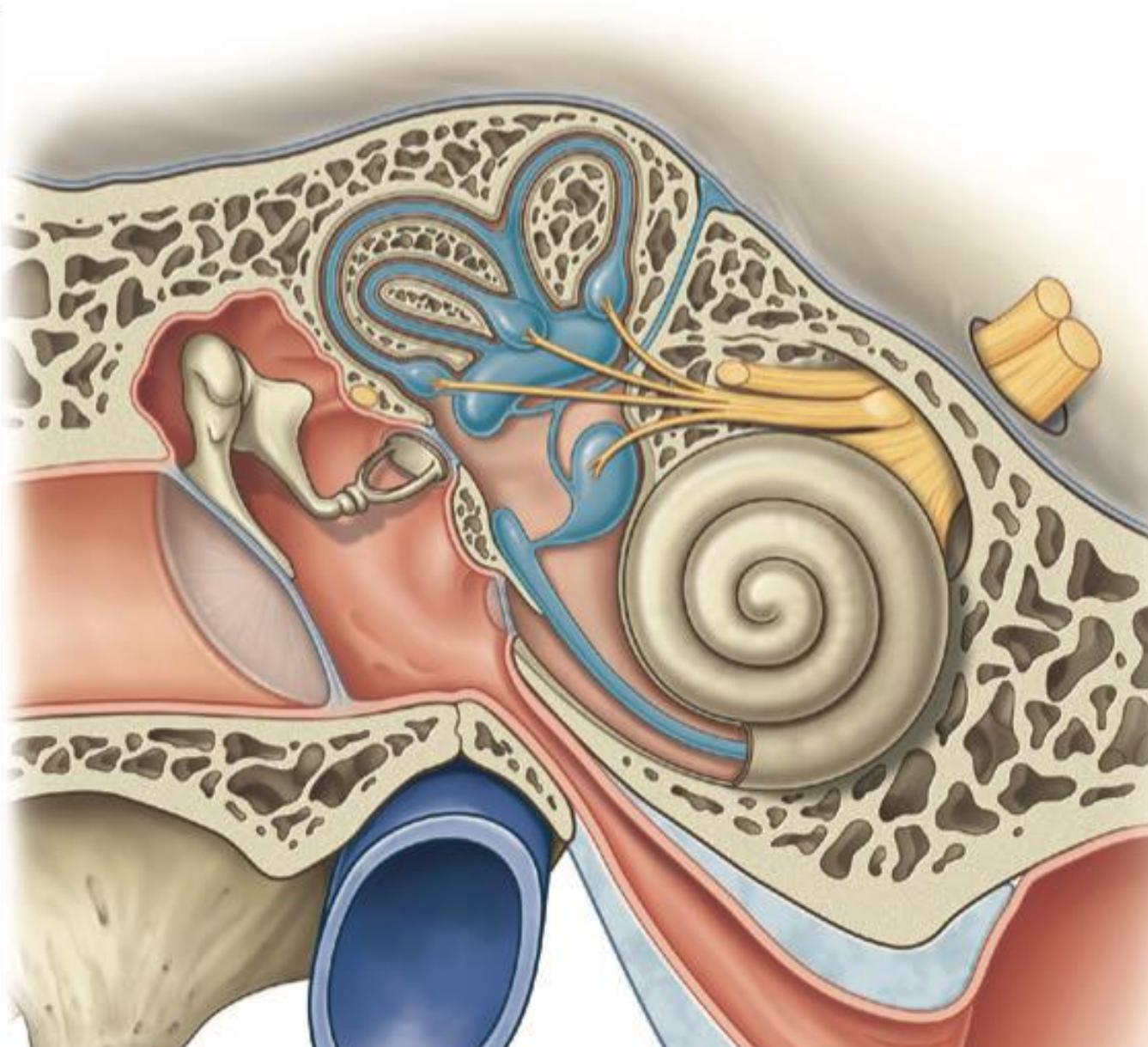


VII. Nervus facialis



tudents, Elsevier, 4th ed.

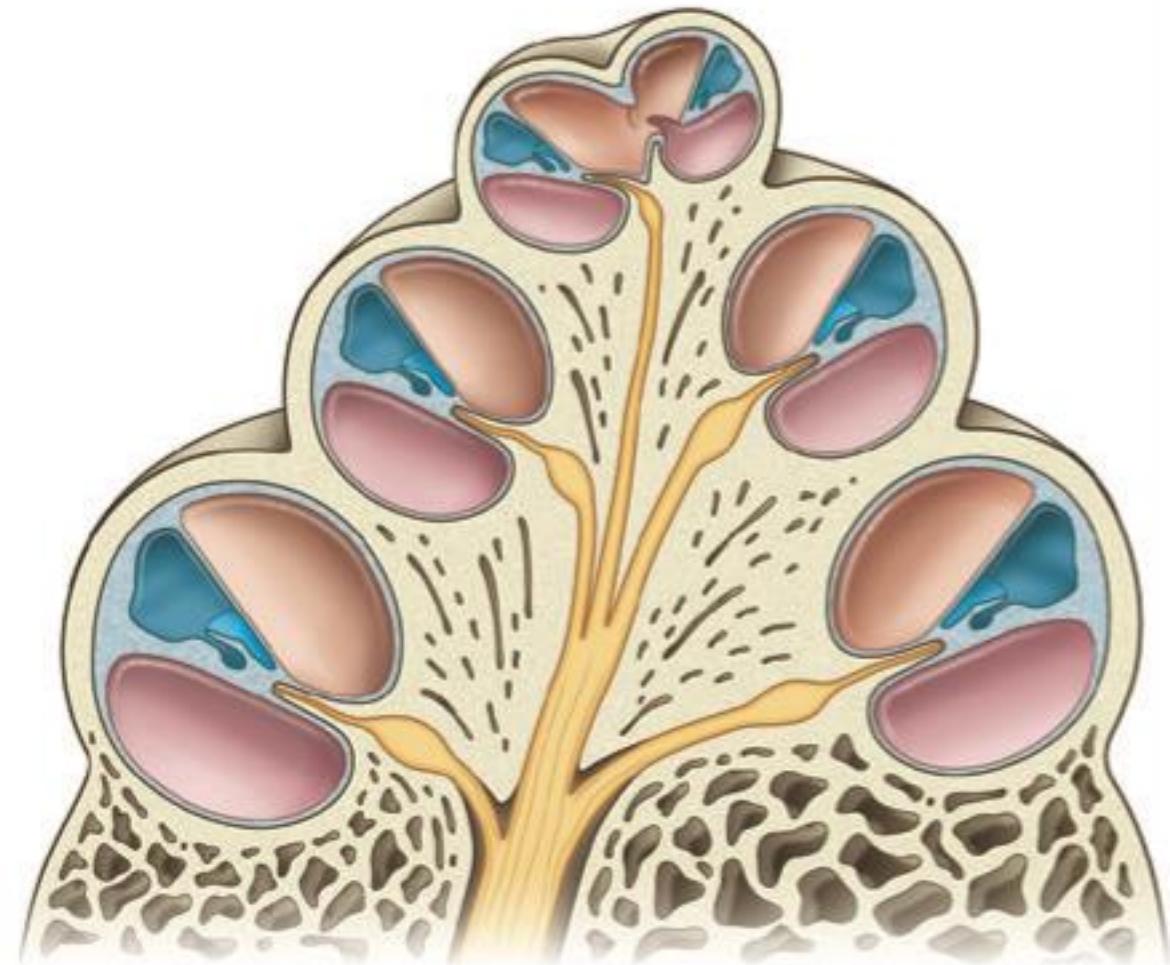
Nervus vestibularis



N. cochlearis

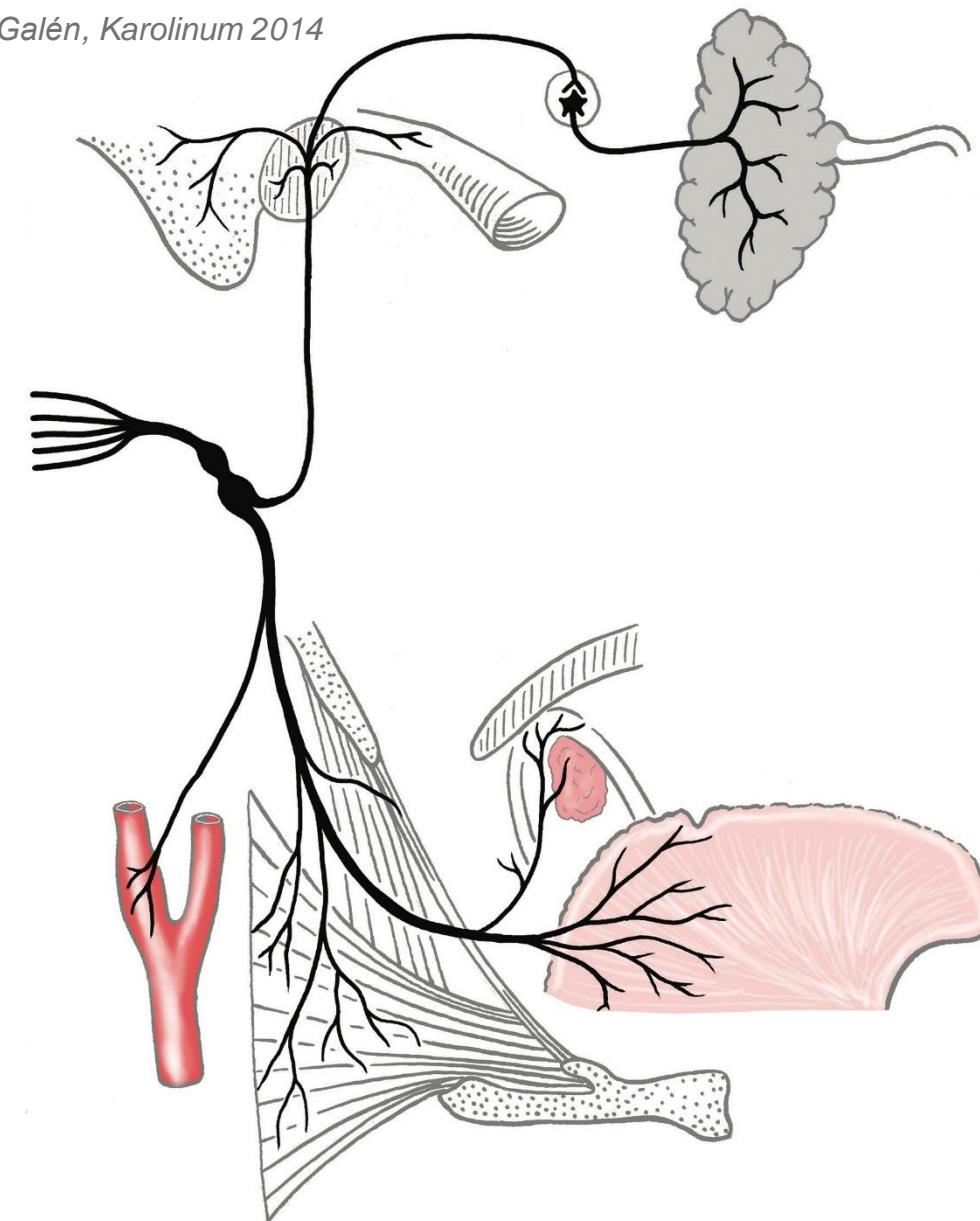


Gray's Anatomy for Students, Elsevier, 4th ed.



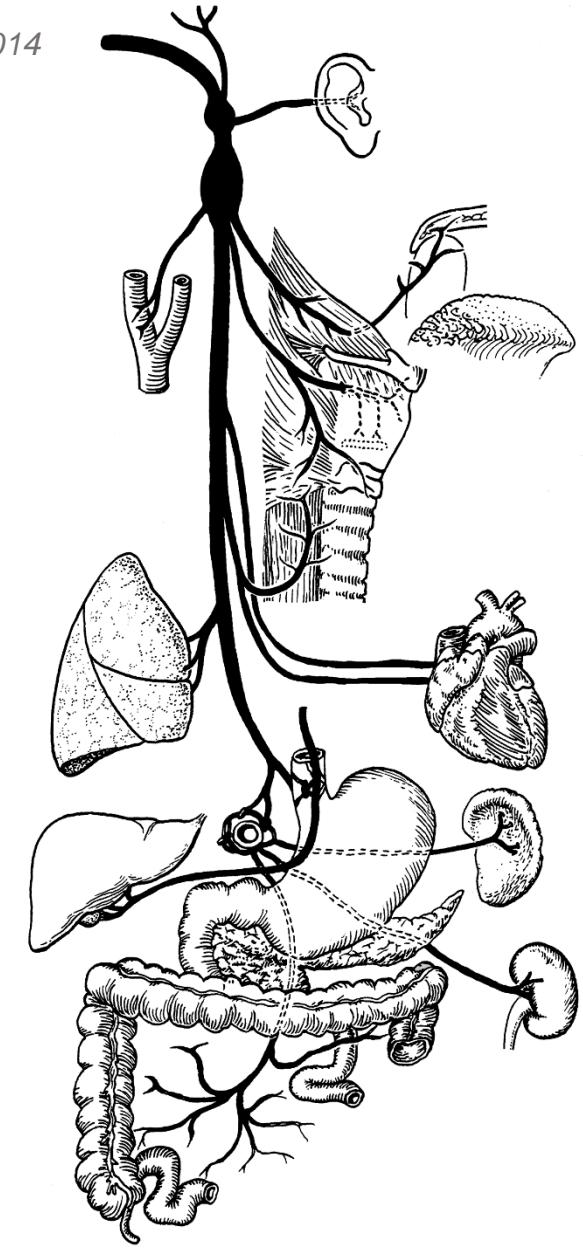
IX. Nervus glossopharyngeus

Grim M, Druga R, et al. Základy anatomie, Galén, Karolinum 2014

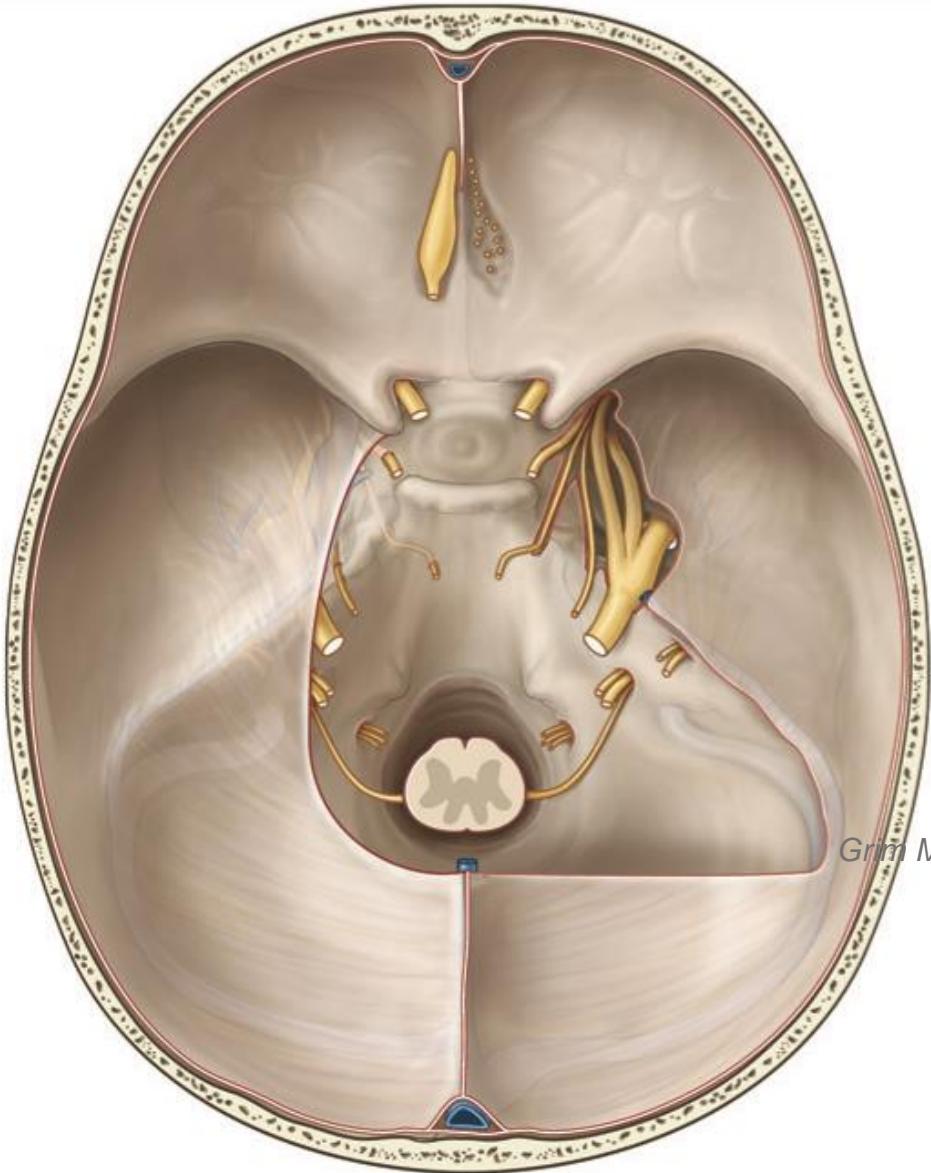


X. Nervus vagus

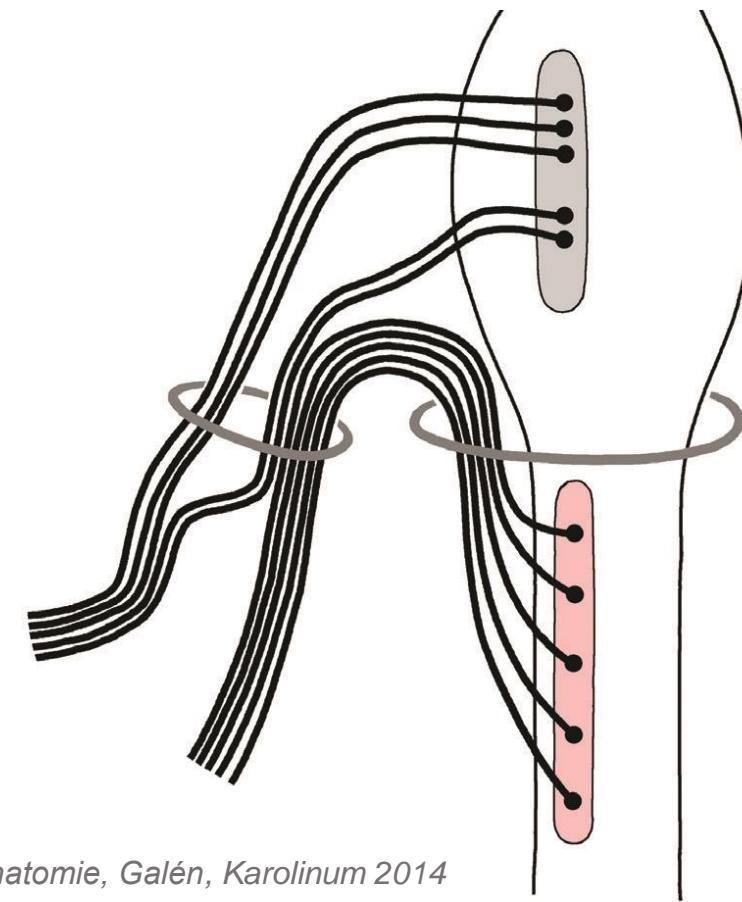
Grim M, Druga R, et al. Základy anatomie, Galén, Karolinum 2014



XI. Nervus accessorius

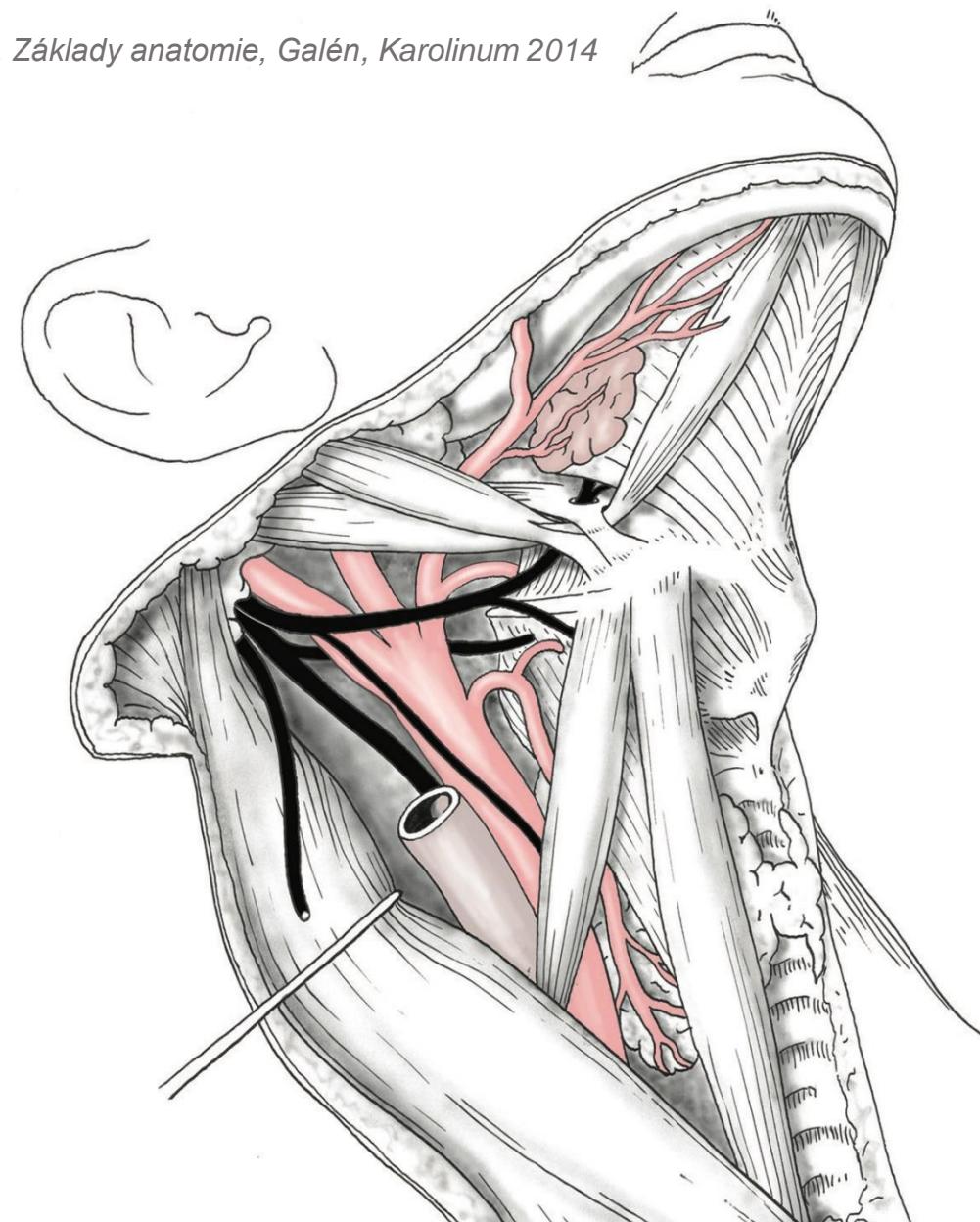


Grim M, Druga R, et al. Základy anatomie, Galén, Karolinum 2014

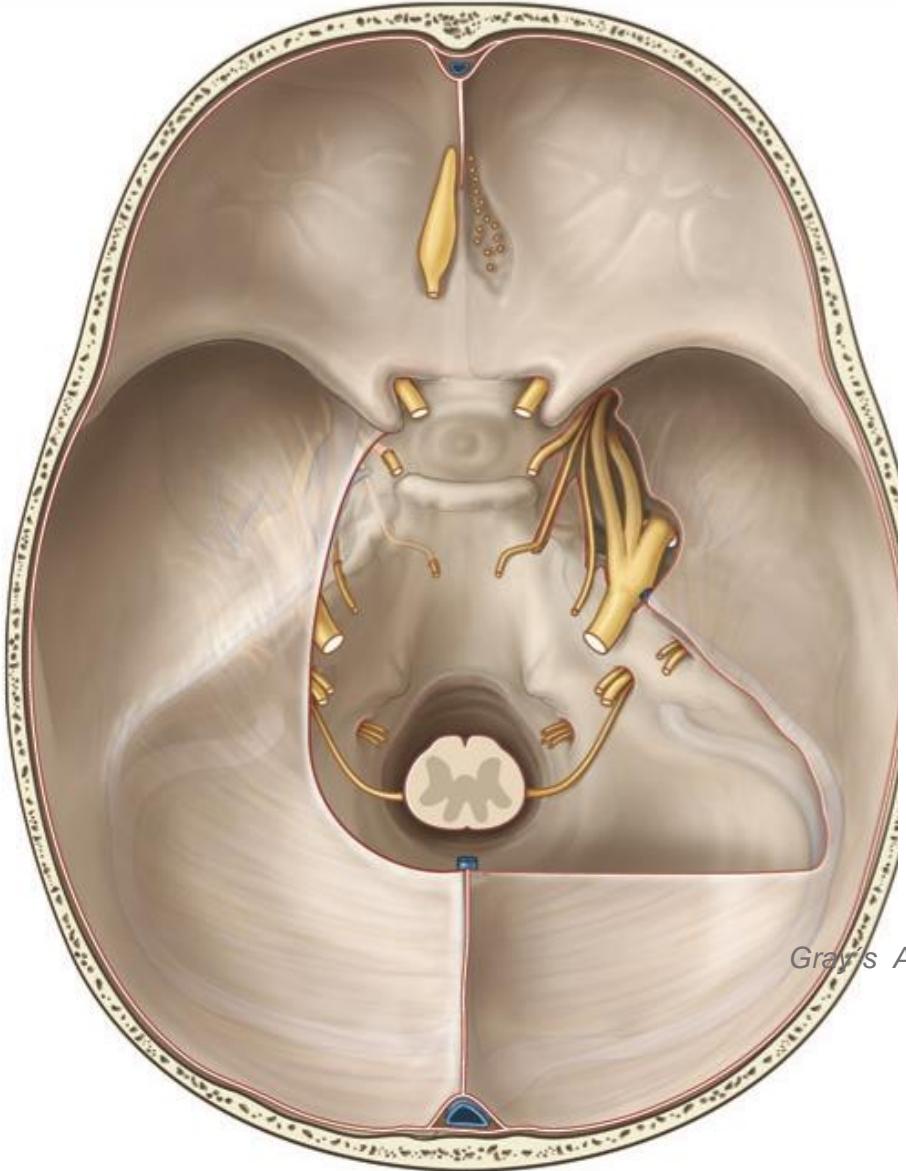


XII. Nervus hypoglossus

Grim M, Druga R, et al. Základy anatomie, Galén, Karolinum 2014



XII. Nervus hypoglossus



Gray's Anatomy for Students, Elsevier, 4th ed.

