

# NERVOVÉ DRÁHY TOPO HLAVA A KRK

Overview 😊

**55. Míšní reflex**

**56. Zraková dráha**

**57. Sluchová dráha**

**58. Pupilární reflex (mióza a mydriáza)**

**59. Vestibulární dráha (význam FLM)**

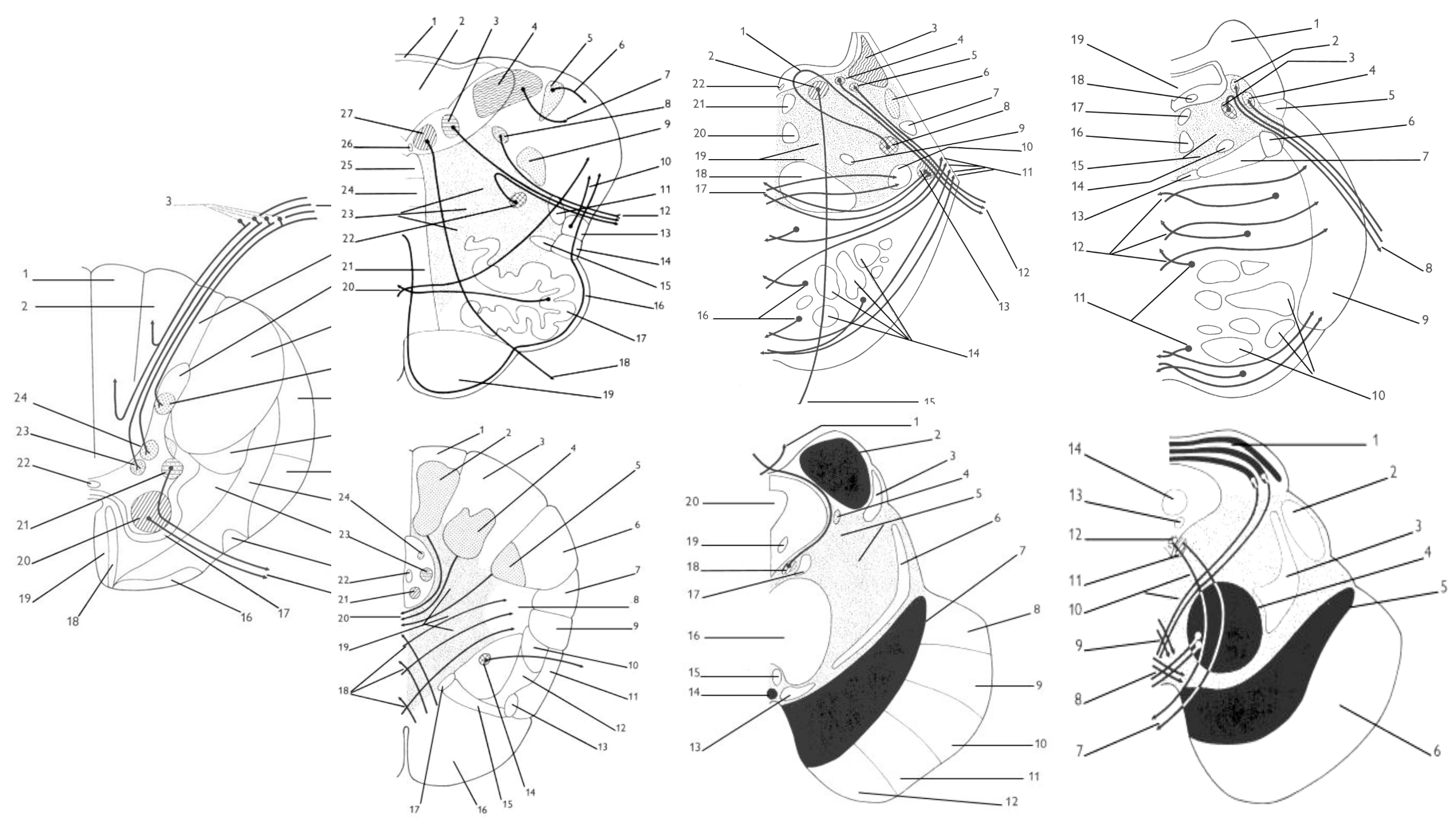
**60. Protopatické čítí (hrubá kožní citlivost, teplo, chlad, bolest)**

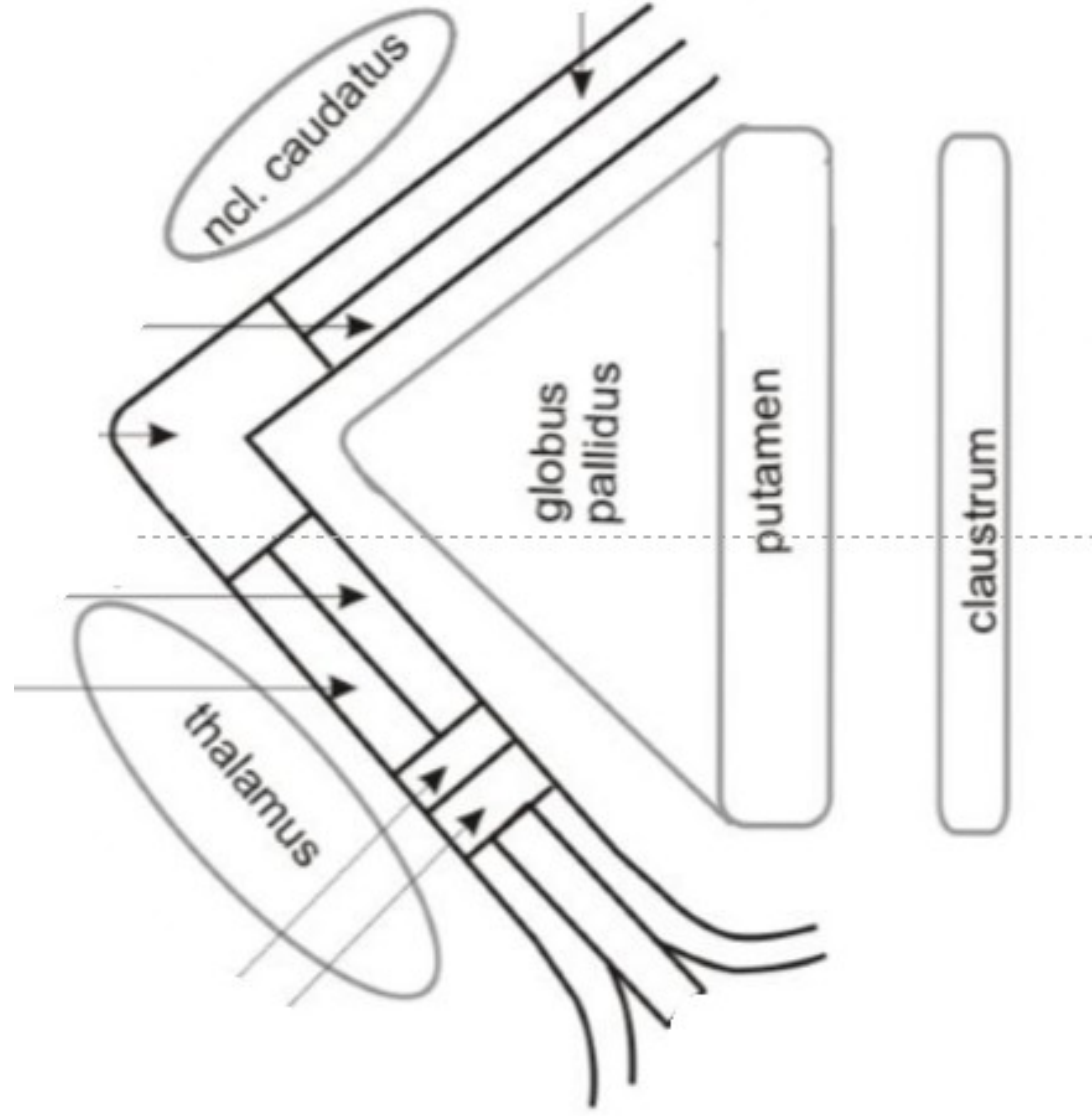
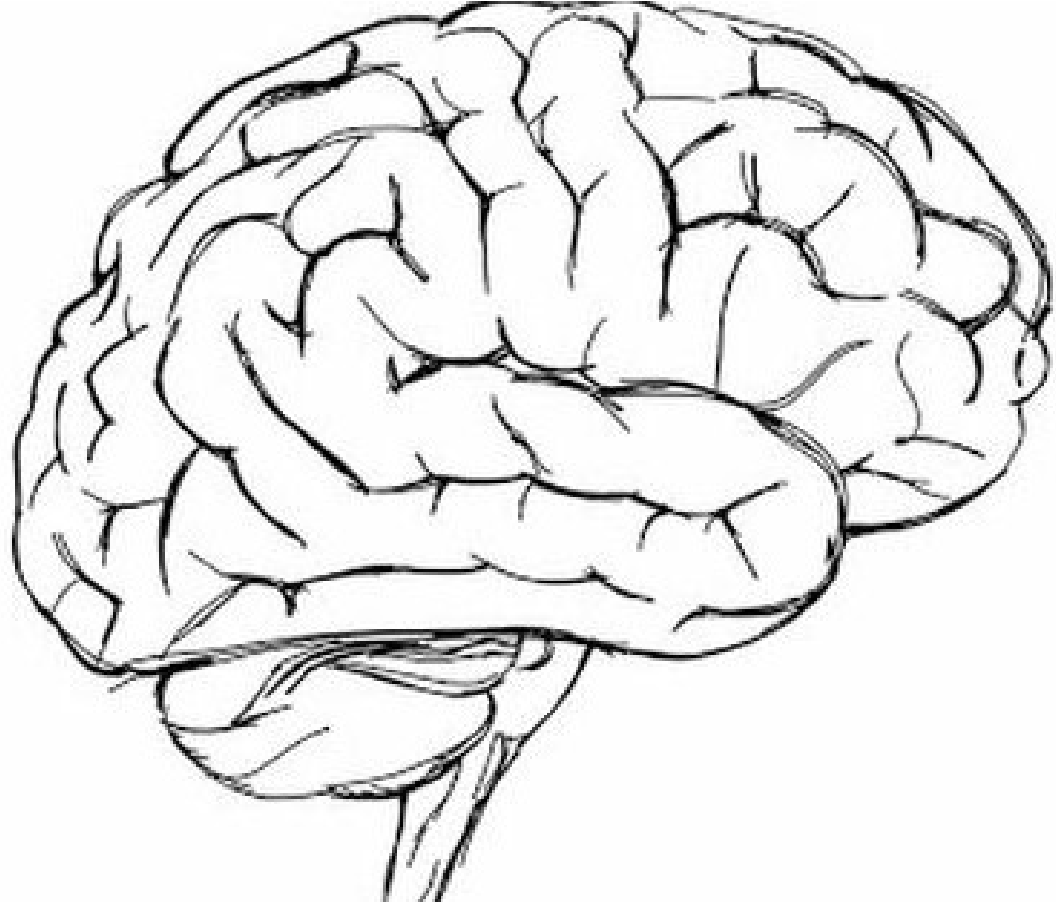
**61. Epikritické čítí (diskriminační čítí, jemná kožní citlivost)**

**62. Propriocepce (z končetin, trupu, hlavy)**

**63. Pyramidová motorická dráha (dráha volní hybnosti)**

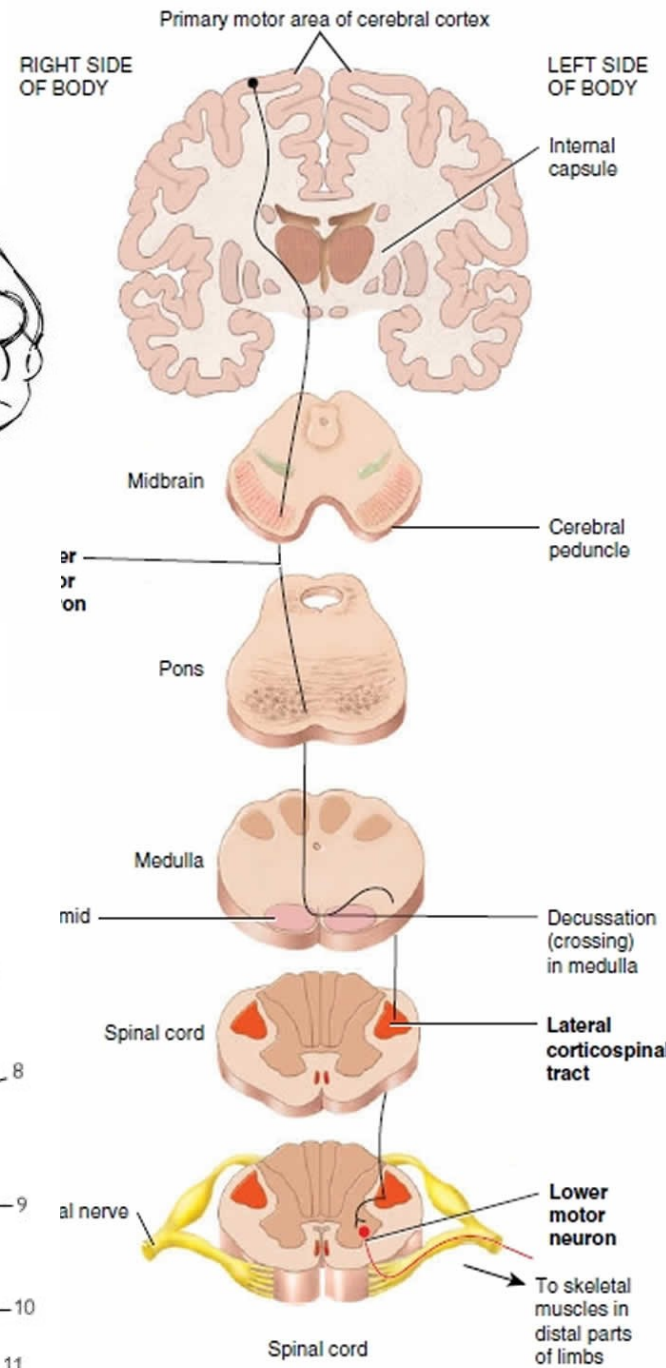
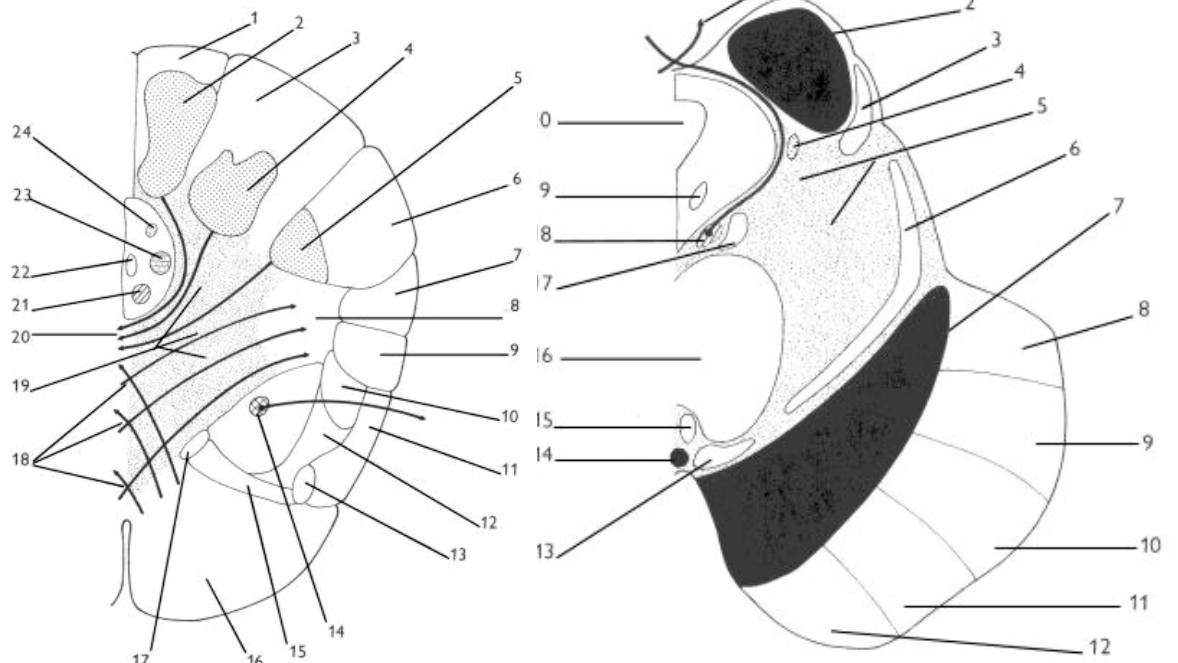
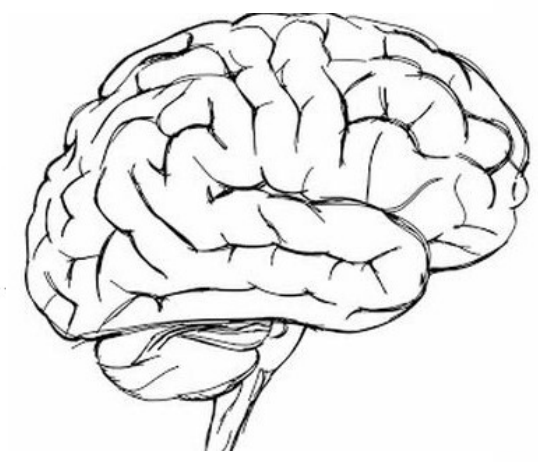
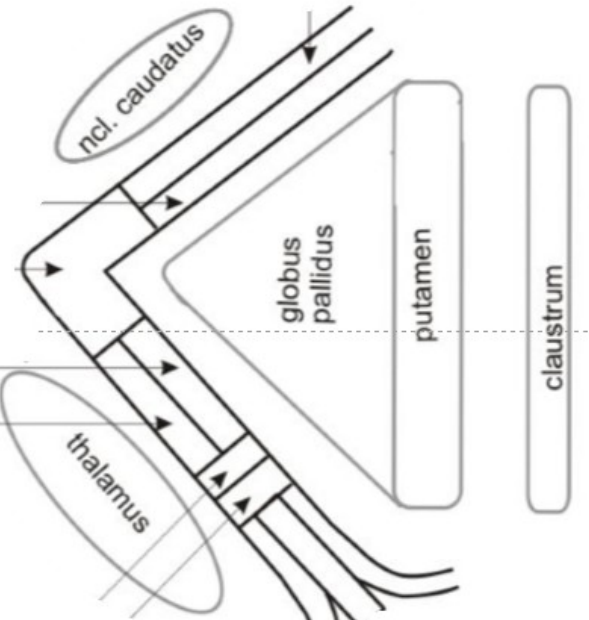
**64. Extrapyramidové motorické dráhy (dráhy mimovolní hybnosti, zpracovací motorické dráhy)**



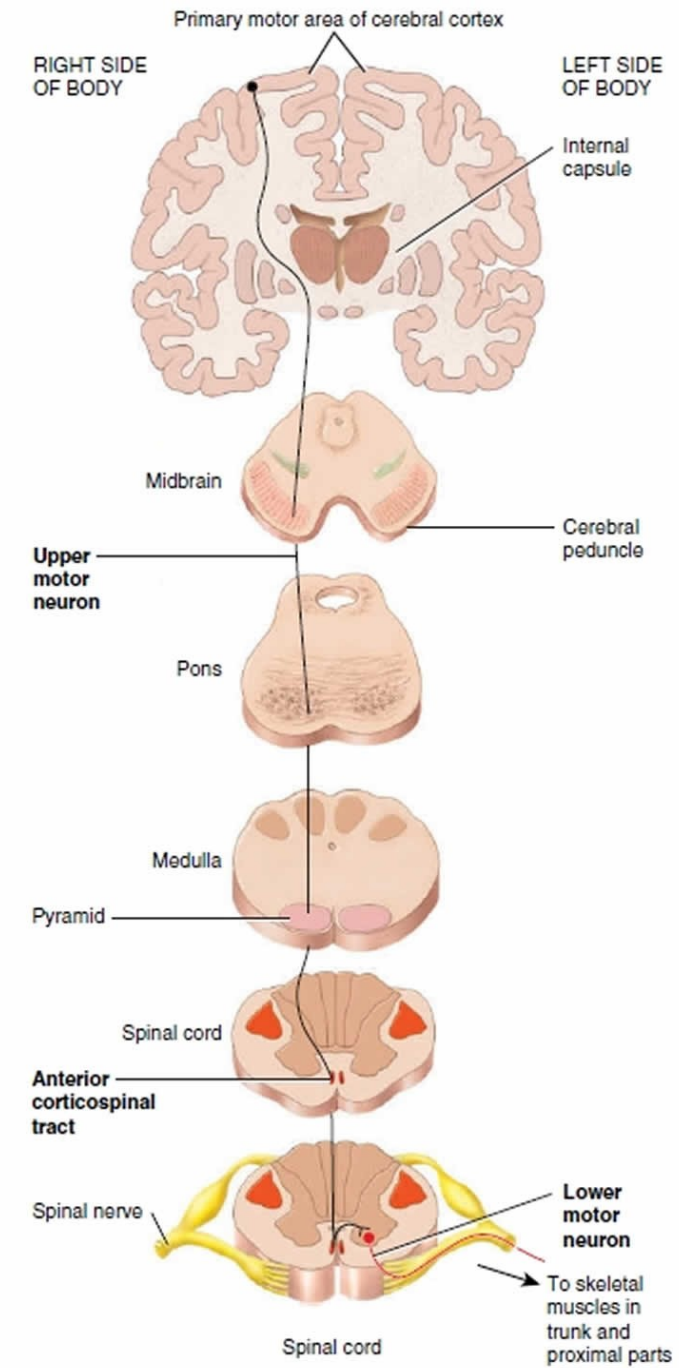




# MOTOR (DESCENDING) PYRAMIDAL (DIRECT)

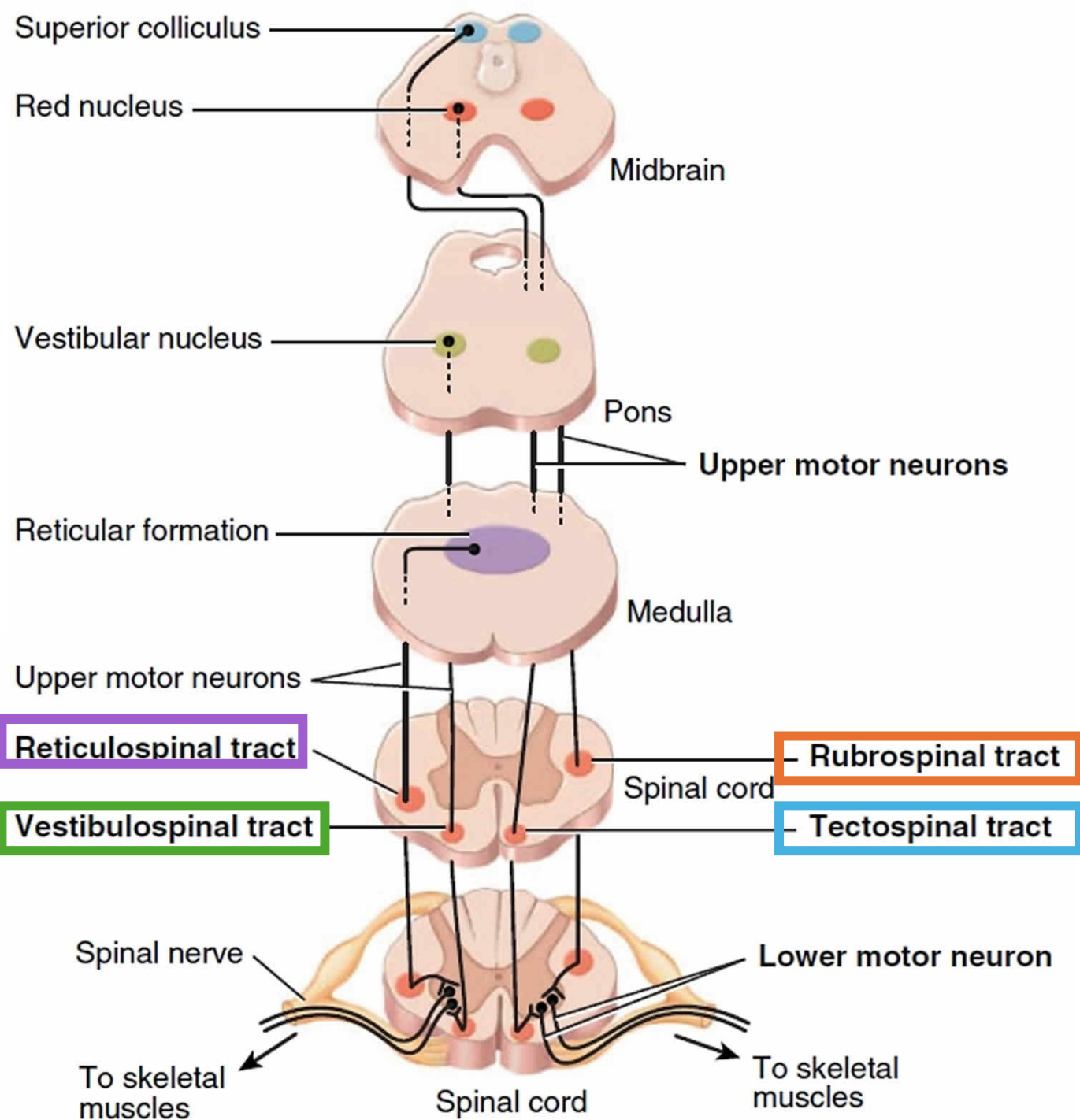
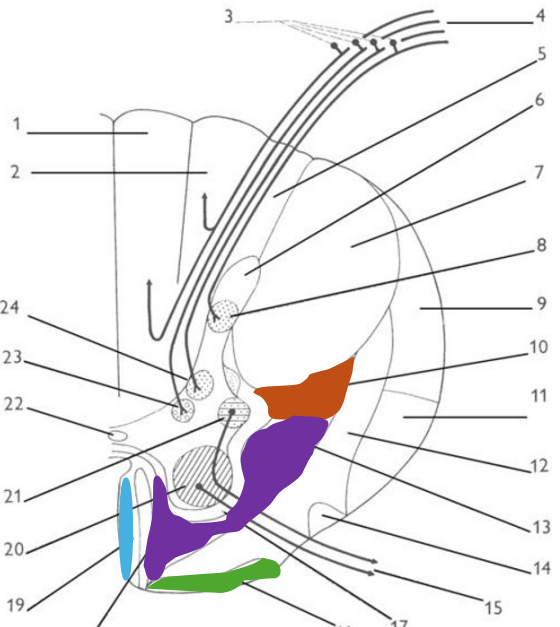
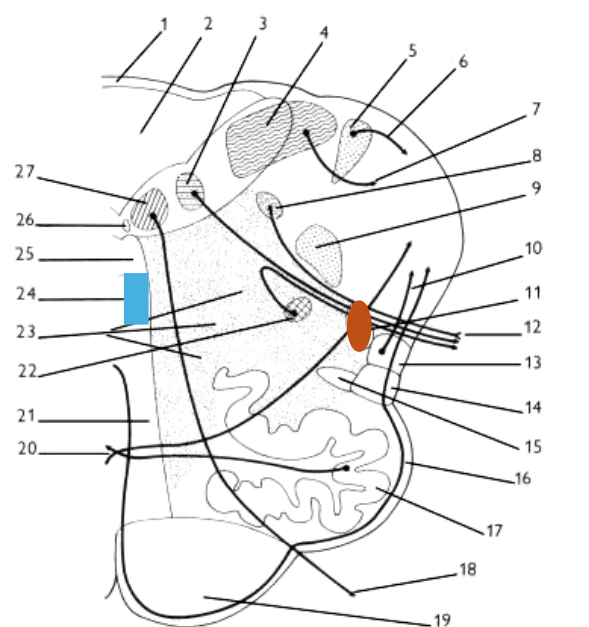
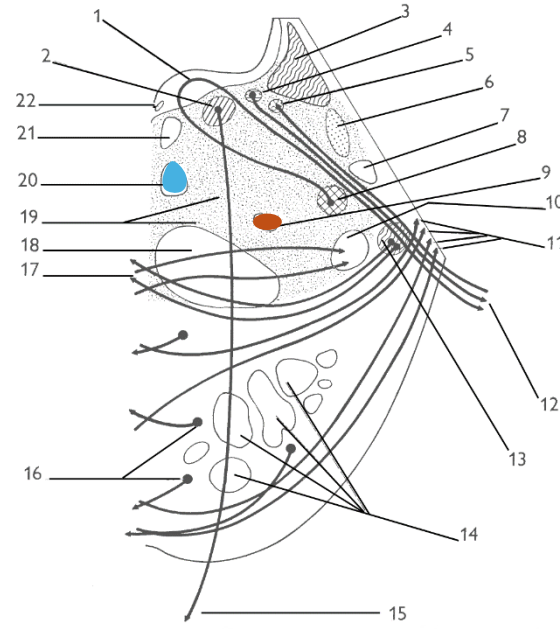
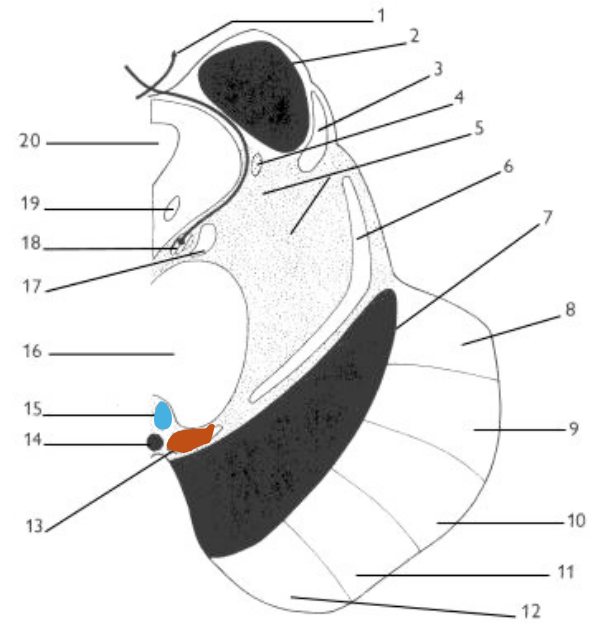


(a) The lateral corticospinal pathway

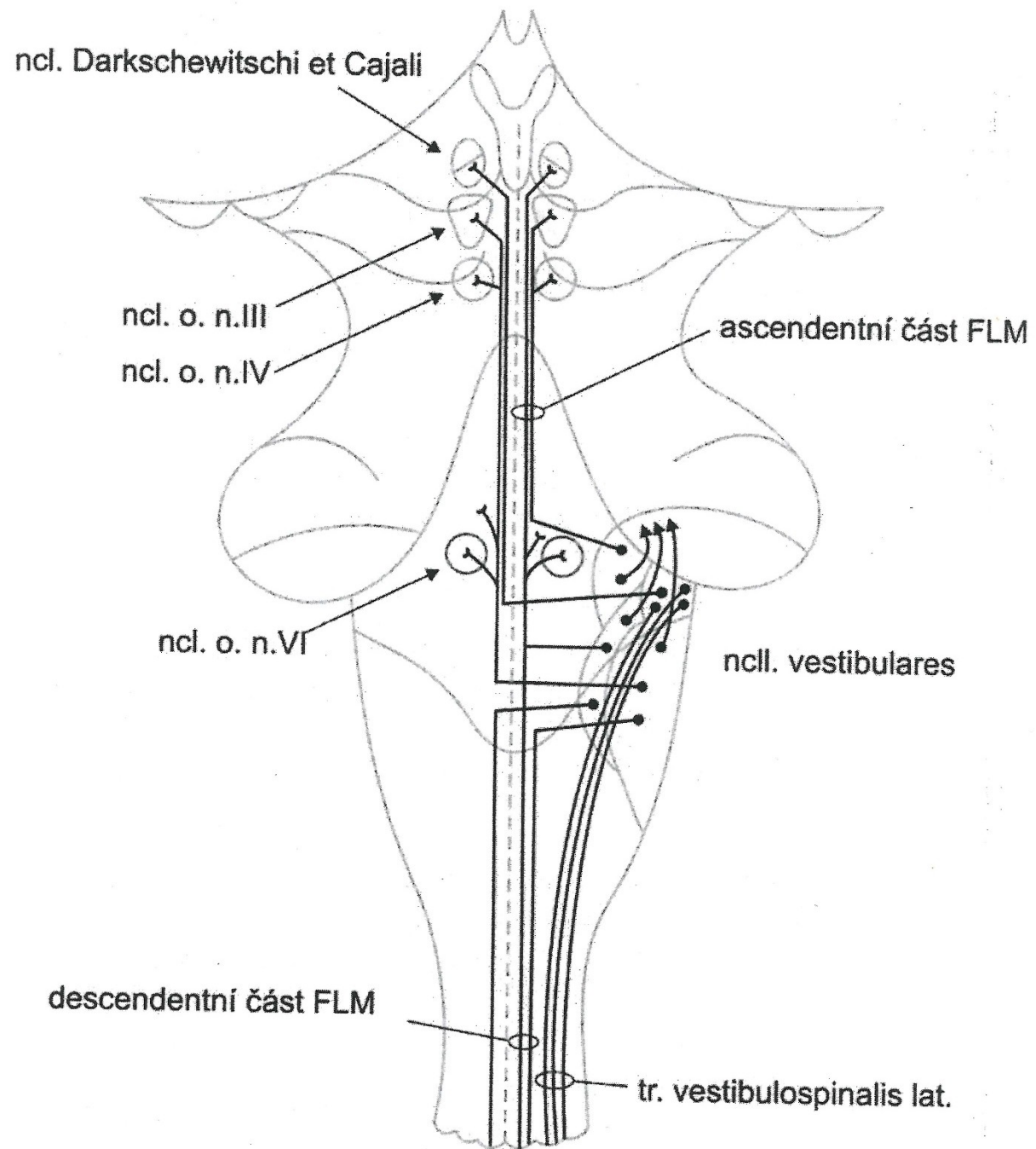


(b) The anterior corticospinal pathway

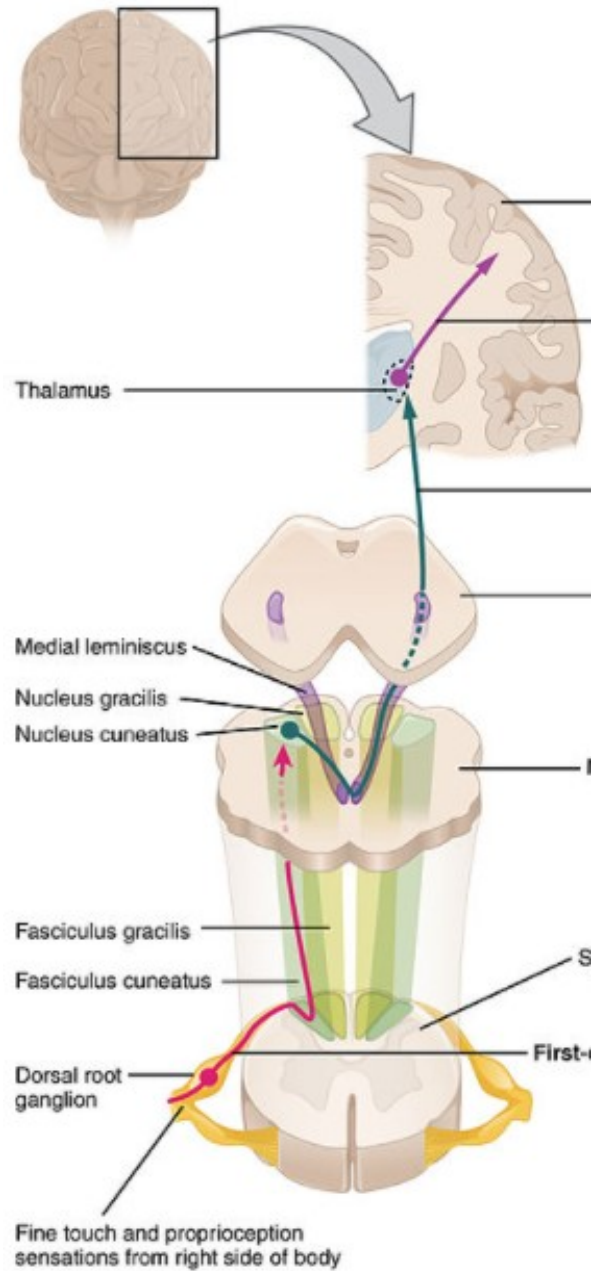
# MOTOR (DESCENDING) EXTRAPYRAMIDAL (INDIRECT)



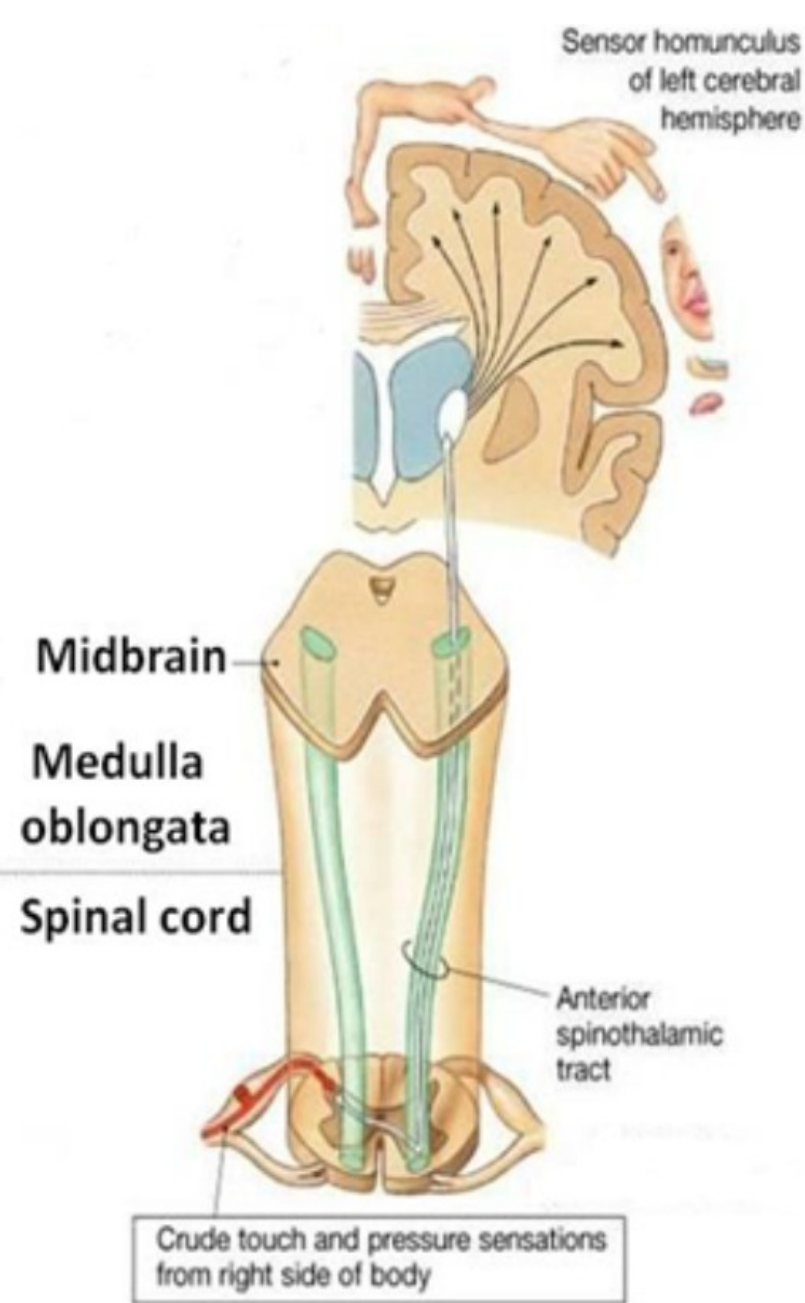




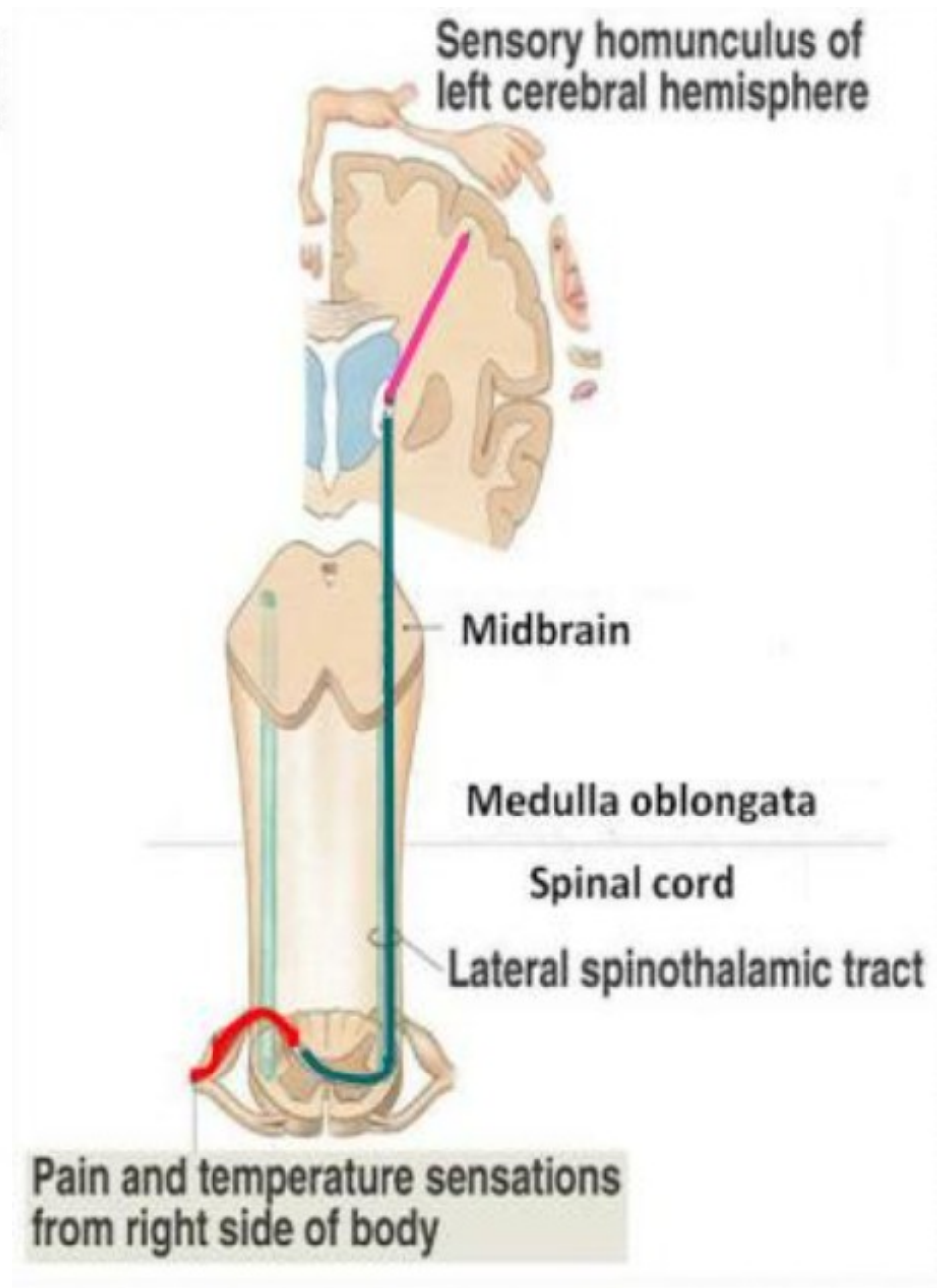
# SENSORIC (ASCENDING) EPICRITIC AND PROTOPATHIC SENSATION



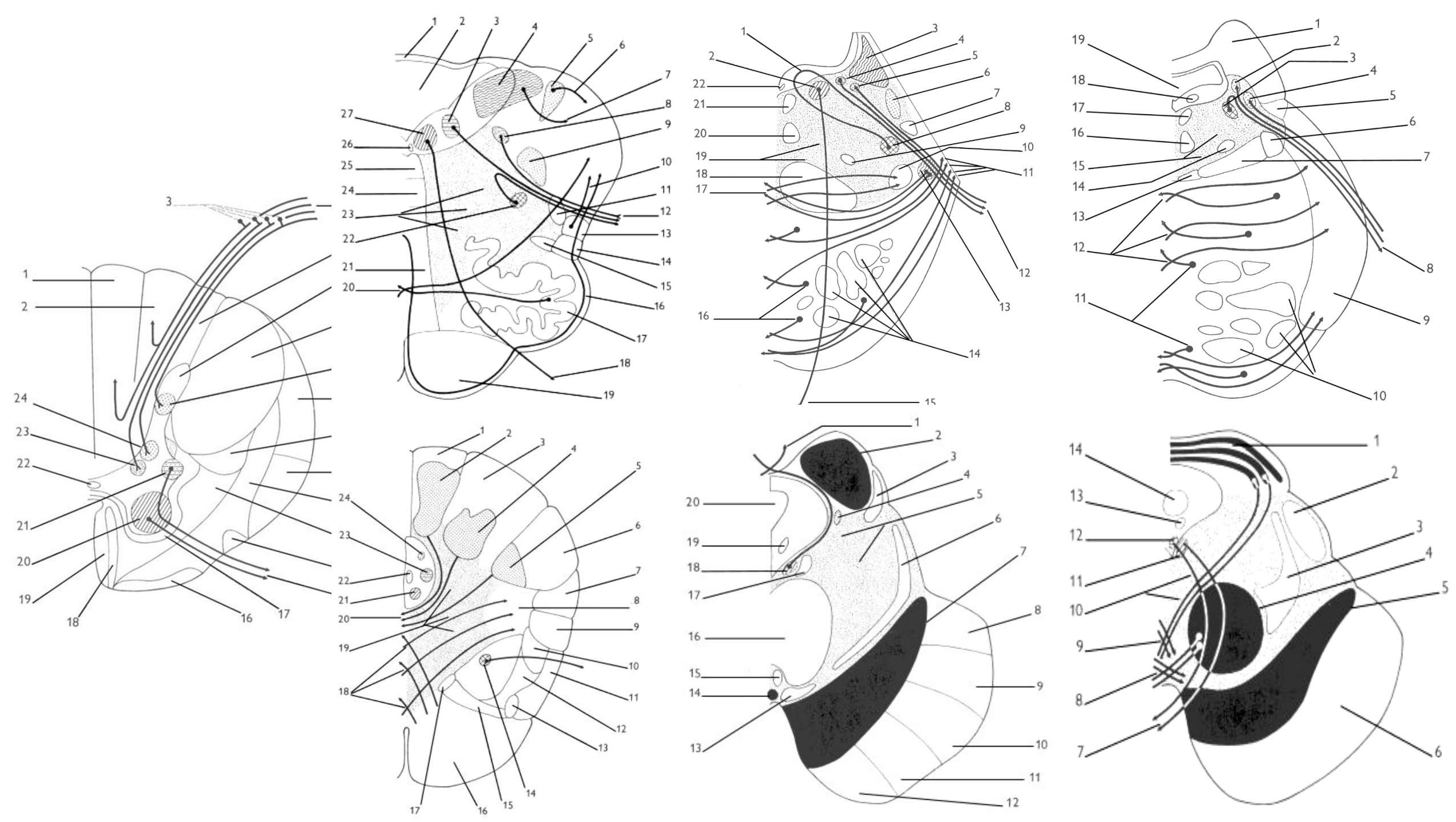
Dorsal column system



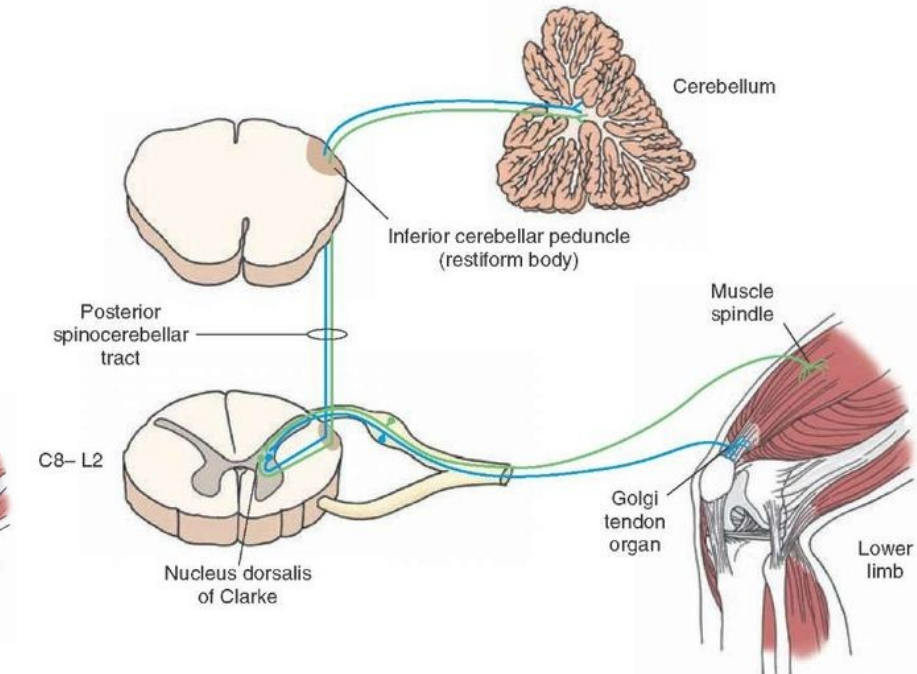
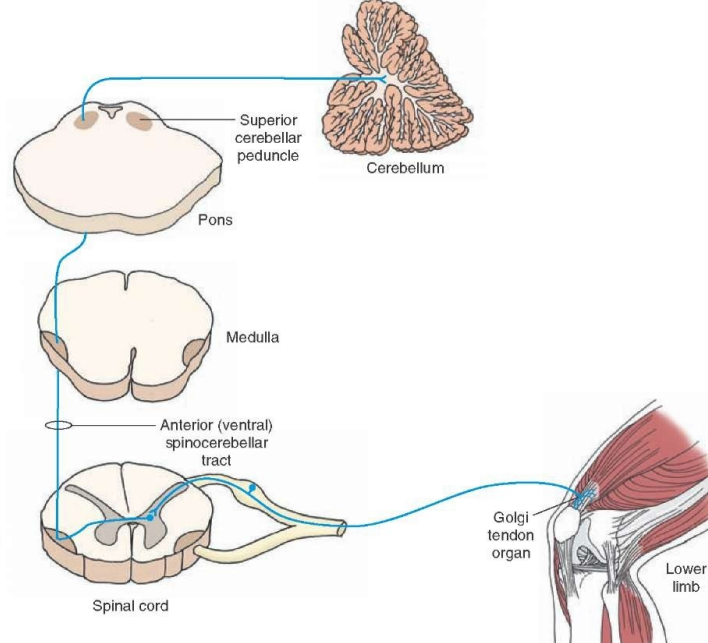
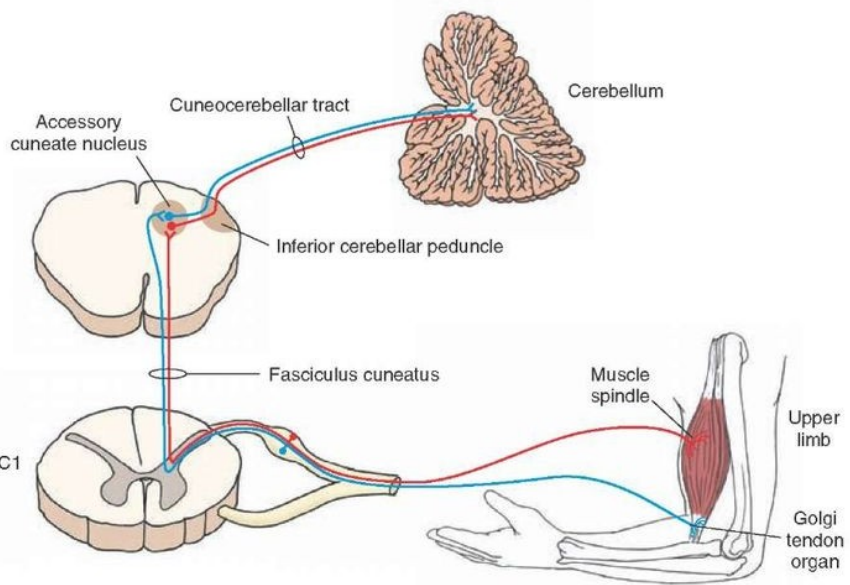
Crude touch and pressure sensations from right side of body



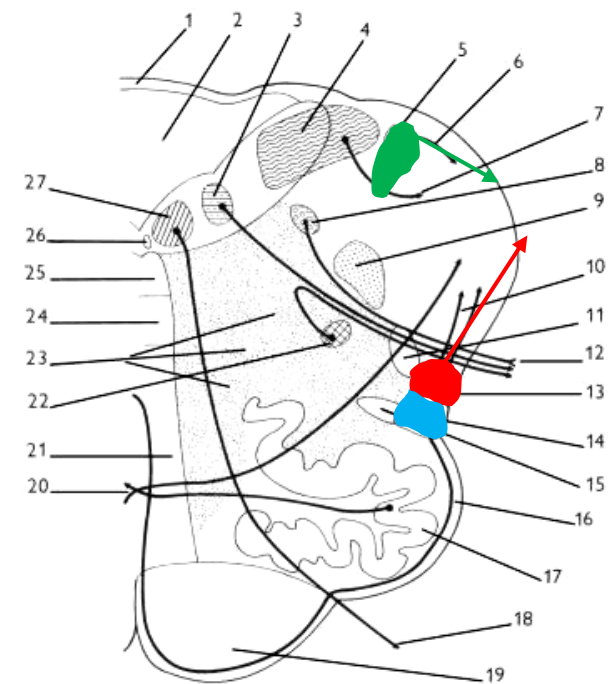
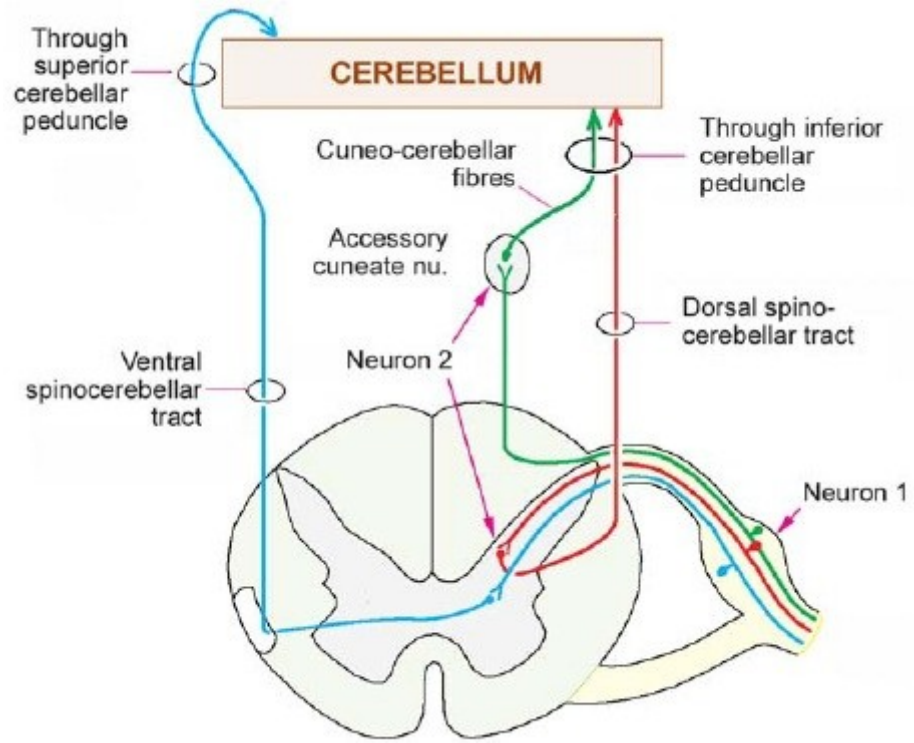
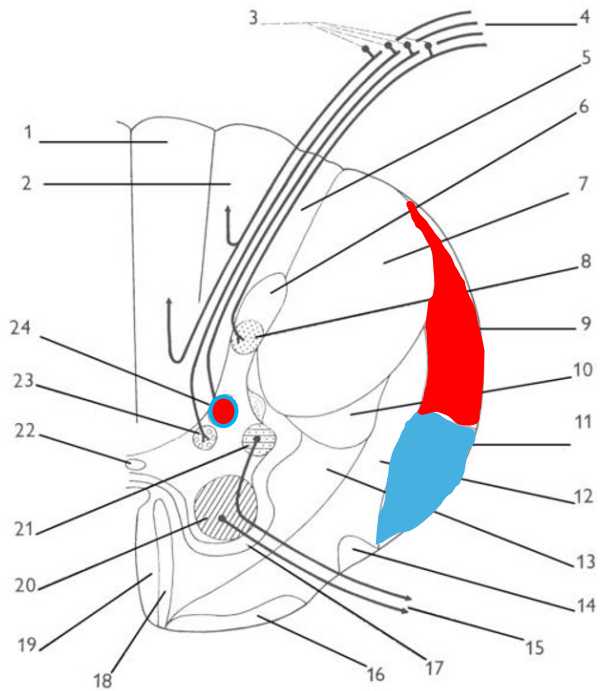
Pain and temperature sensations from right side of body



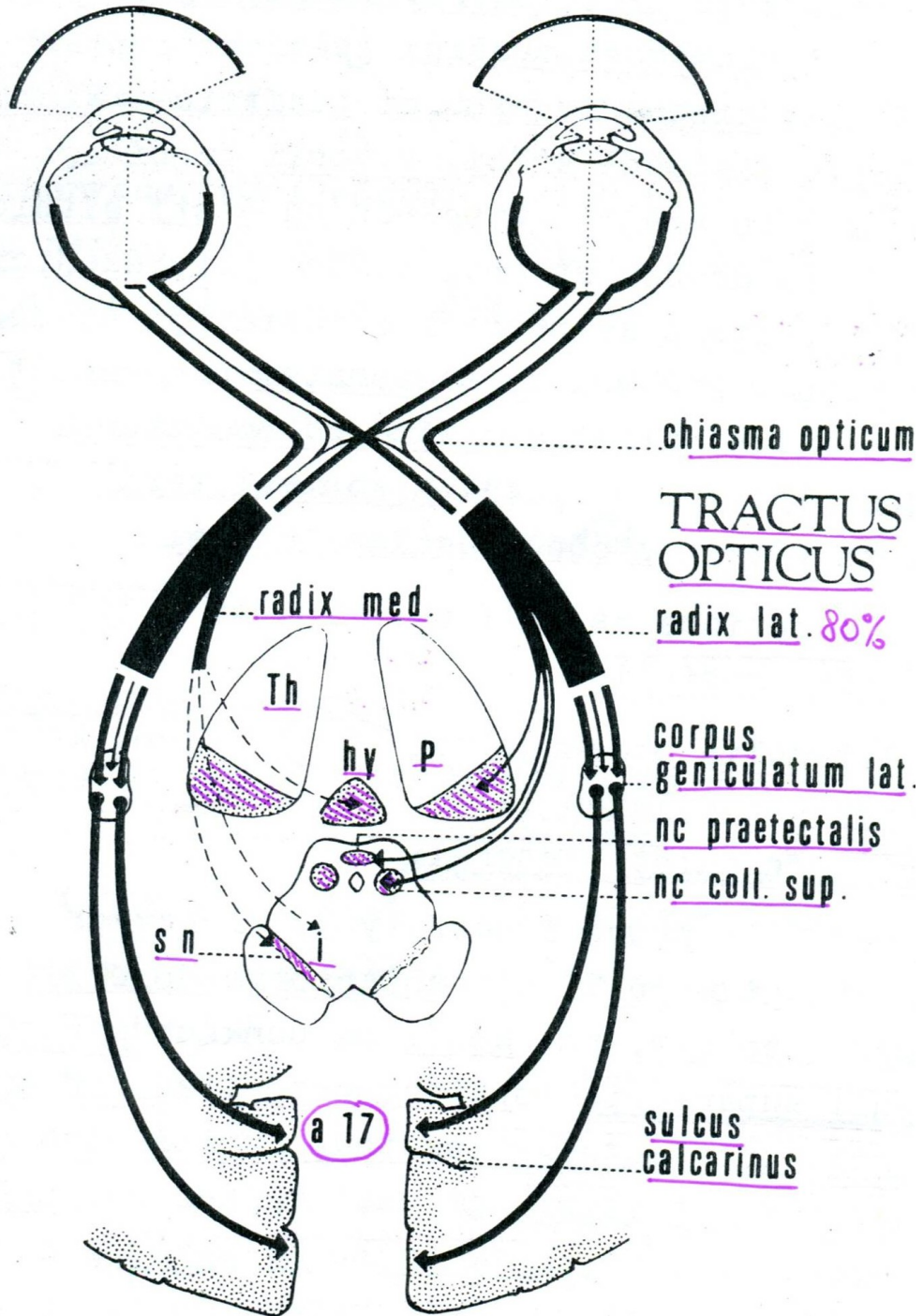




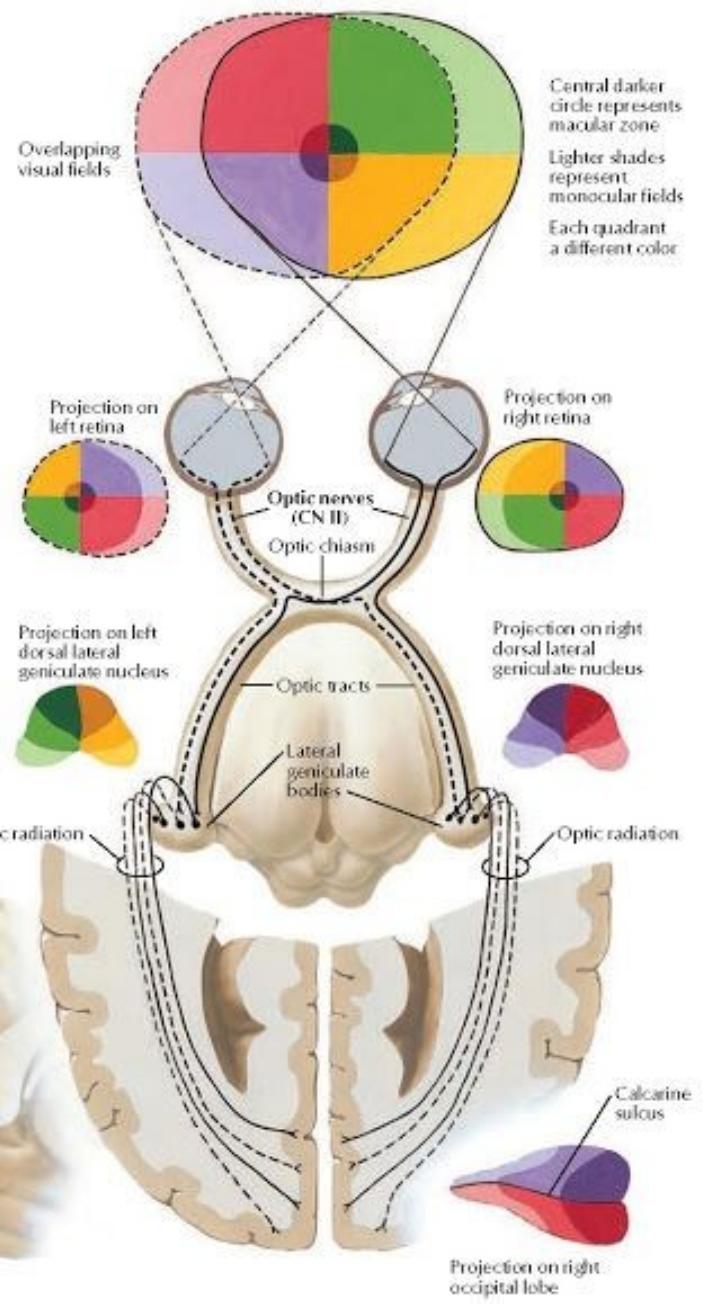
## SENSORIC (ASCENDING) PROPRIOCEPTION

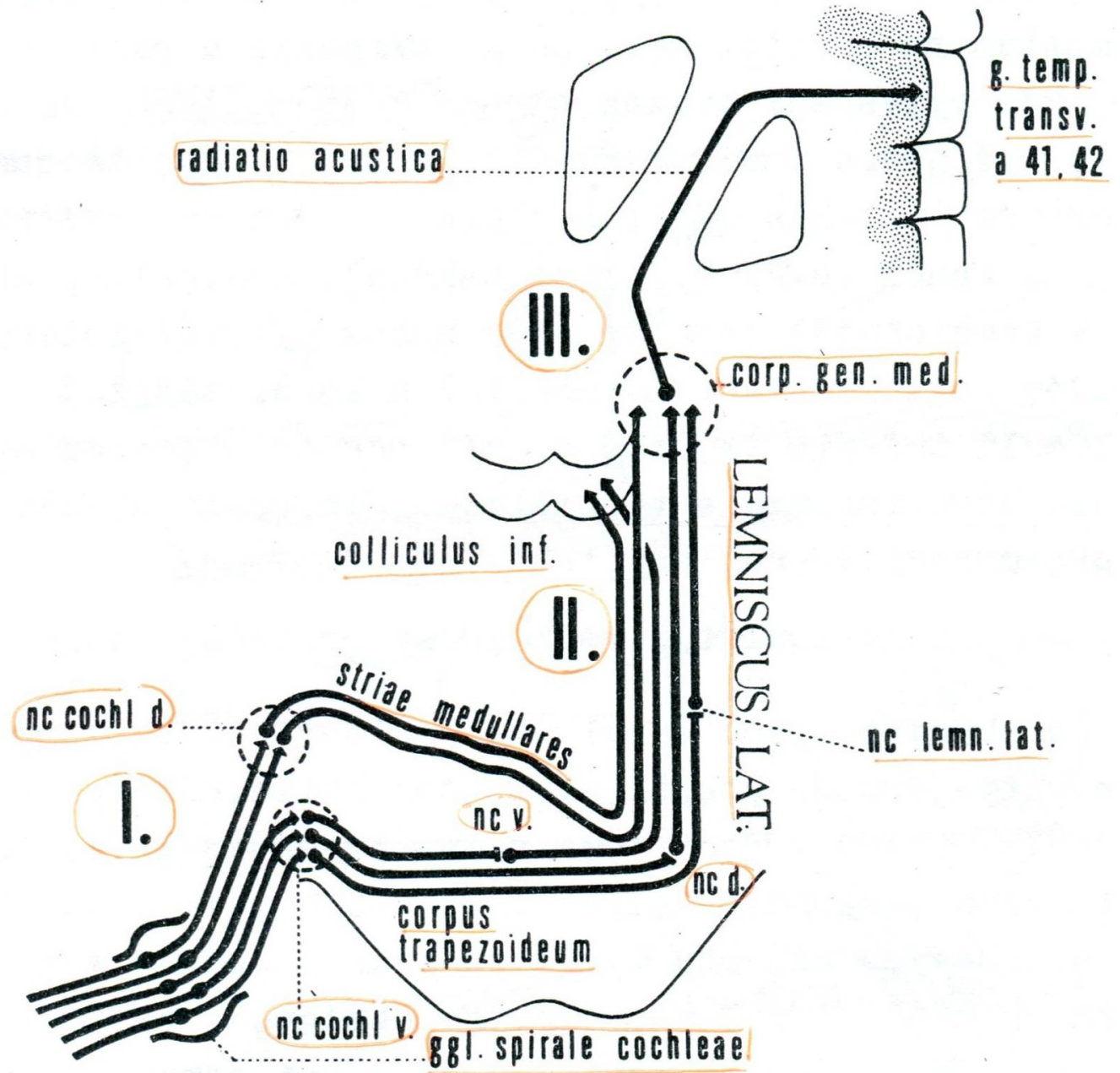
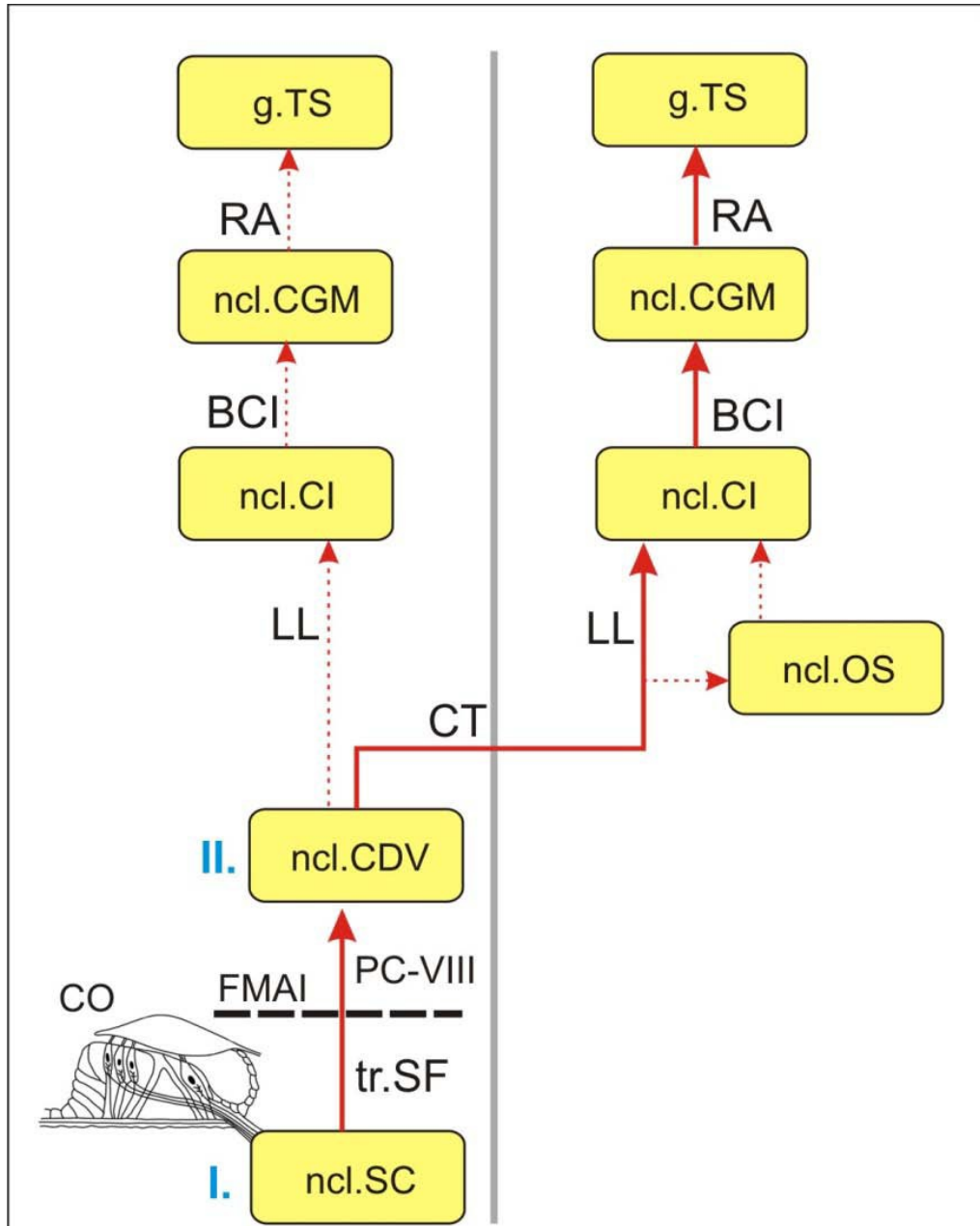




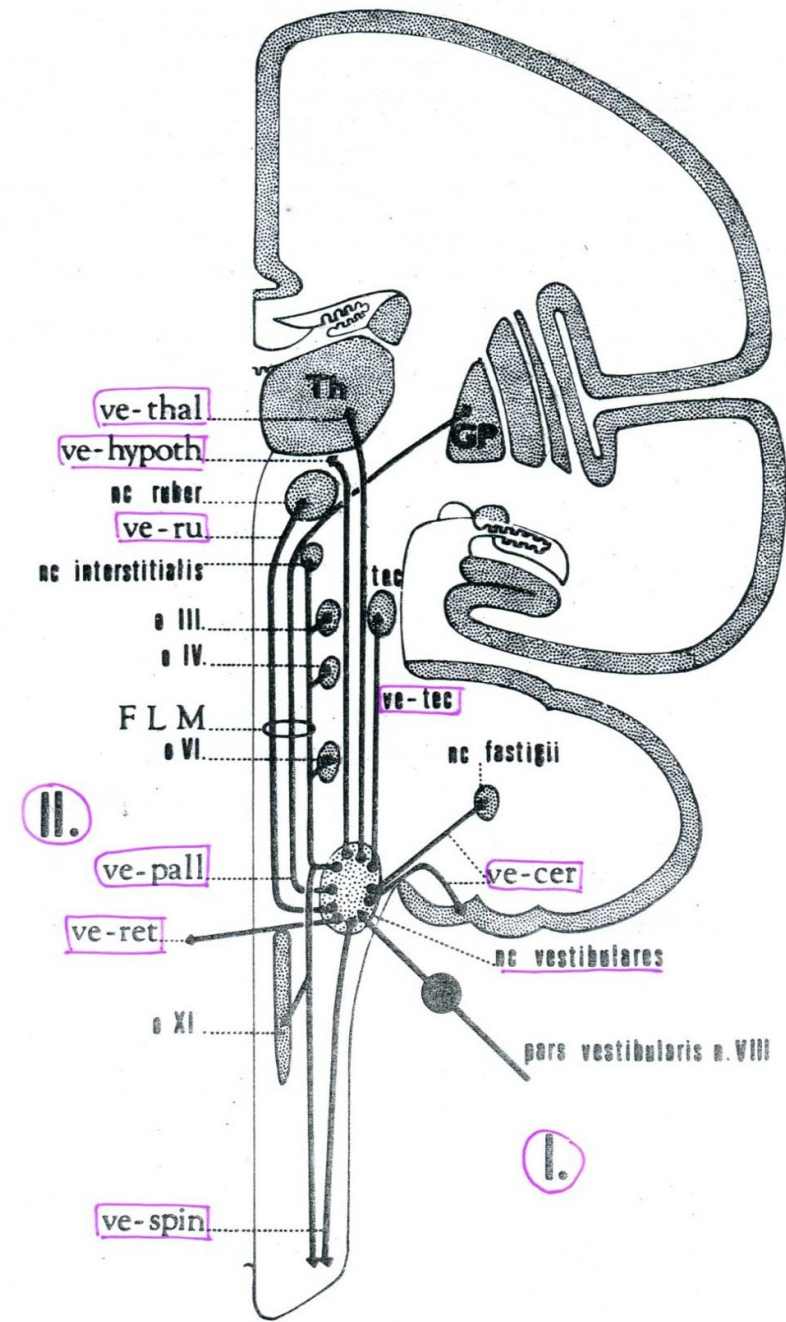
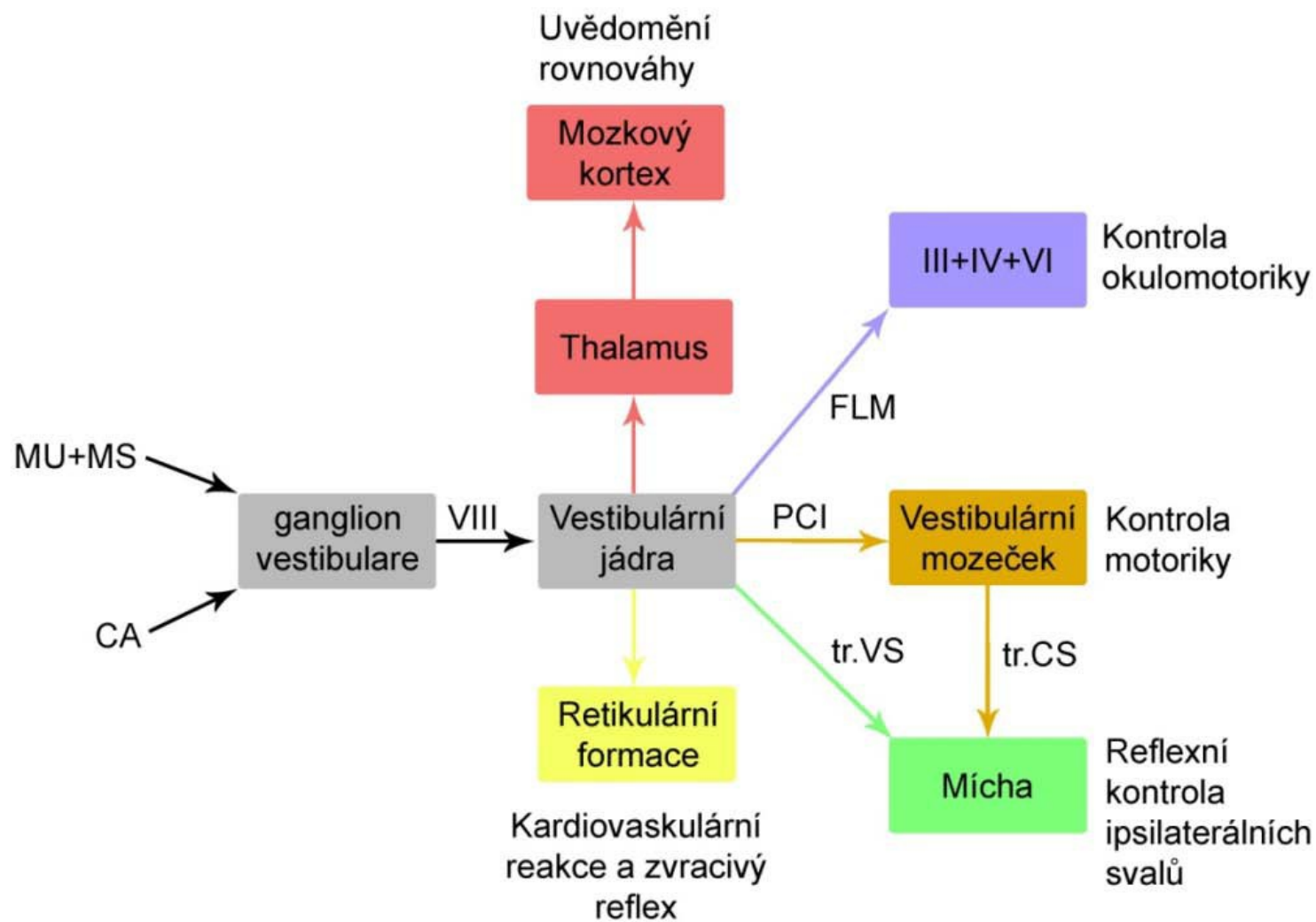


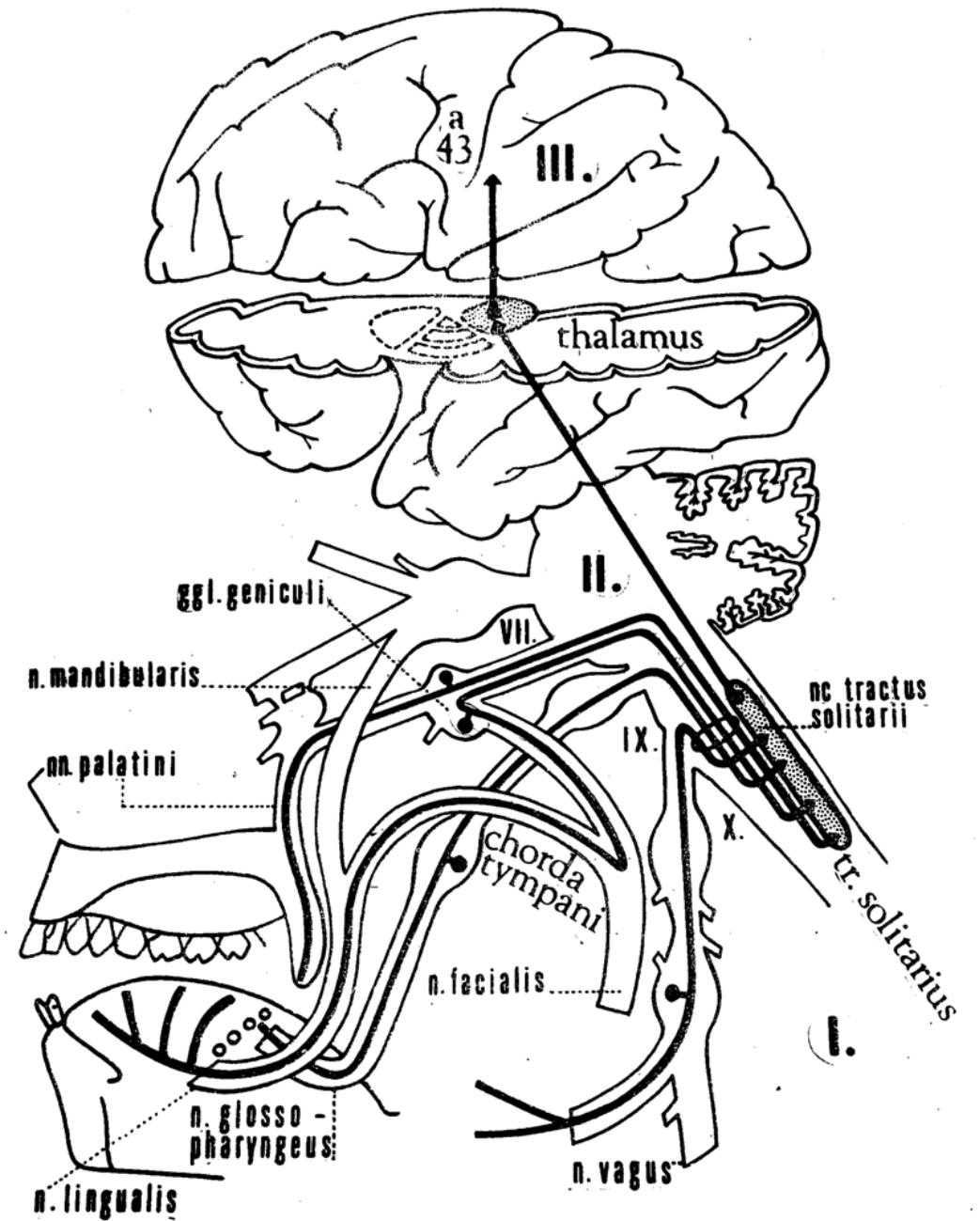
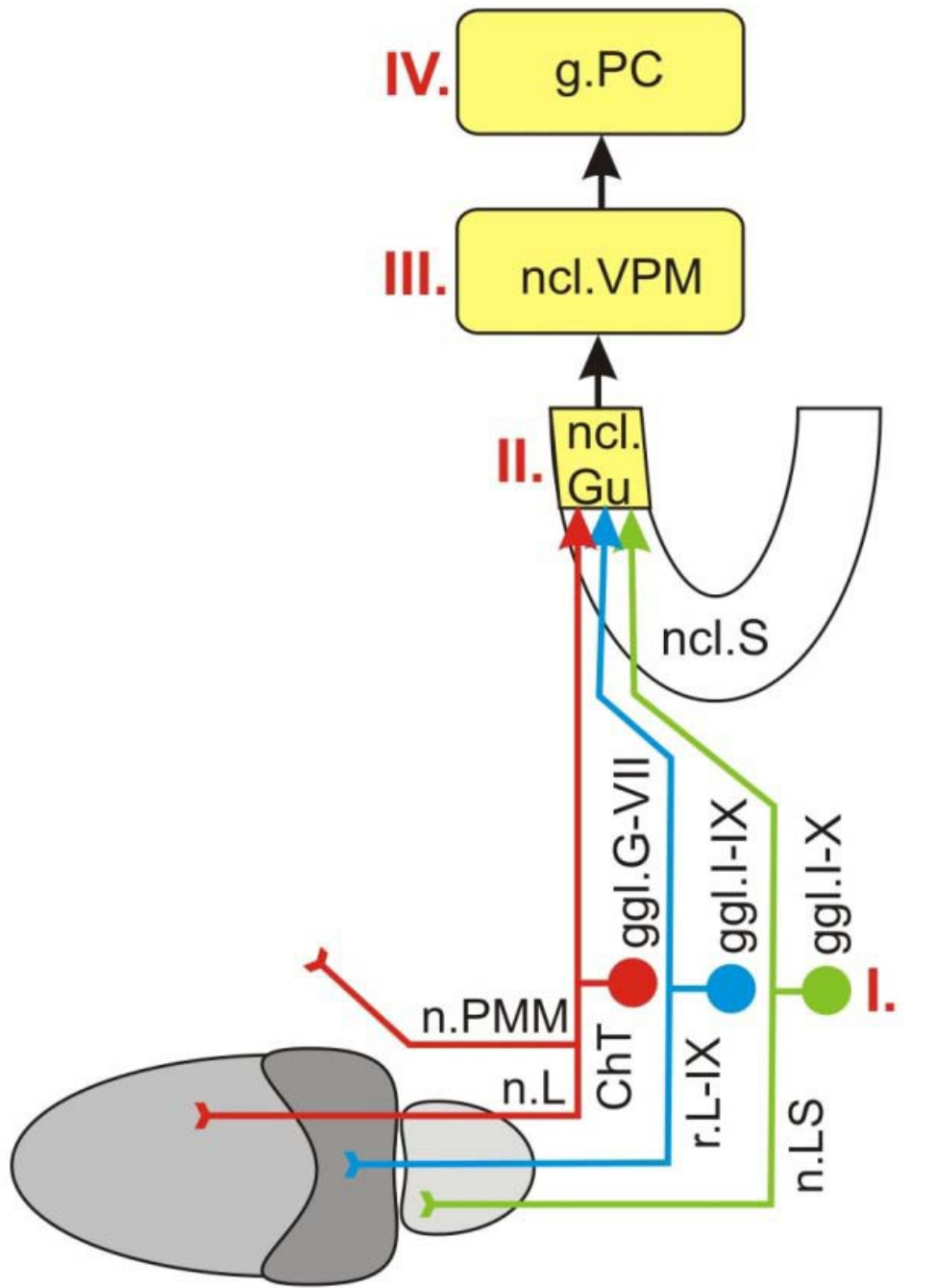
- Structure of retina: schema
- A Amacrine cells
  - B Bipolar cells
  - C Cones
  - G Ganglion cells
  - H Horizontal cells
  - P Pigment cells
  - R Rods

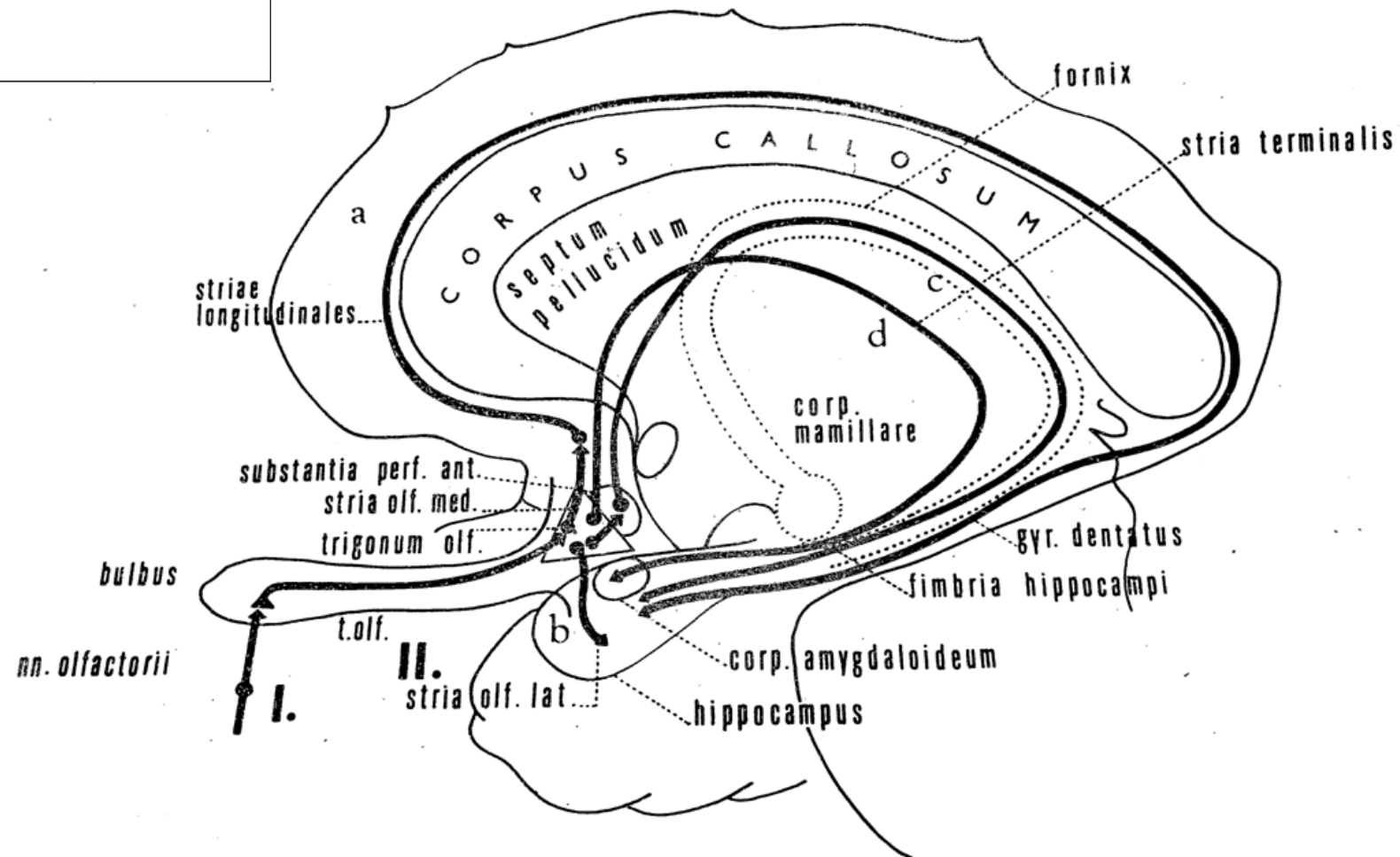
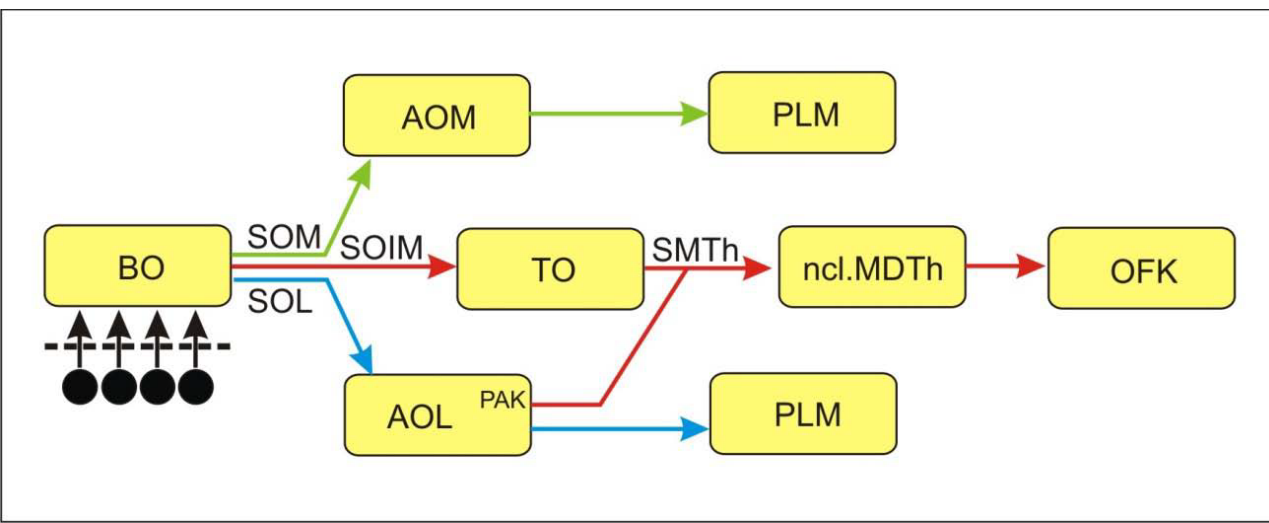












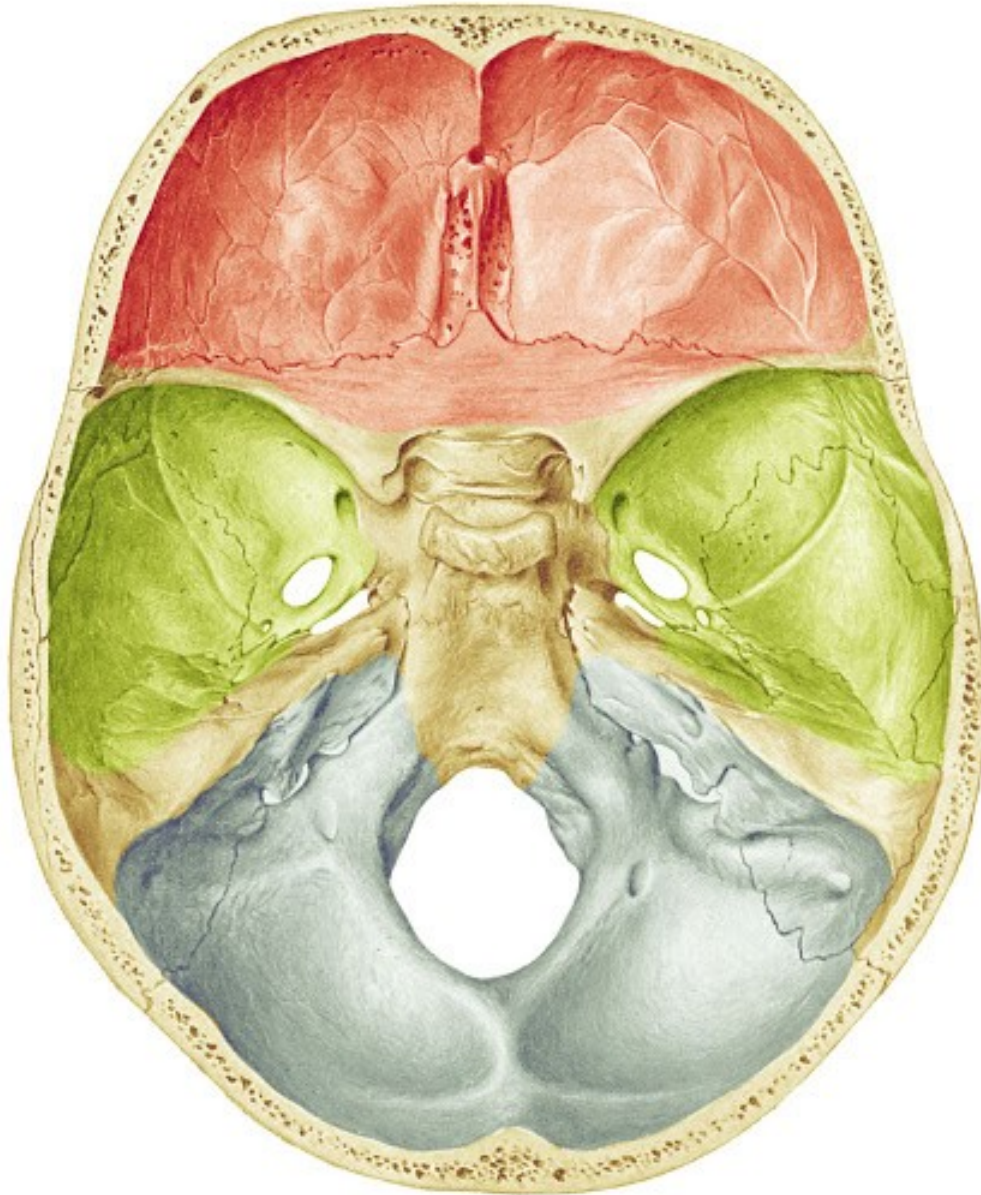
# TOPOGRAFIE

HLAVA A KRK



1. Reg. frontalis et parietalis (ohraničení a struktury)
2. Reg. temporalis (fossa temporalis – ohraničení a struktury)
3. Reg. occipitalis + stavba klenby lební
4. Fossa cranii anterior – ohraničení, struktury
5. Fossa cranii media – ohraničení, struktury
6. Fossa cranii posterior – ohraničení, struktury
7. Průchody skrze basis cranii externa
8. Regio orbitalis (s výjimkou retrobulbárního prostoru)
9. Regio orbitalis – retrobulbární prostor
10. Regio oralis
11. Reg. parotideomasseterica (ohraničení, struktury)
12. Reg. infratemporalis (ohraničení, struktury)
13. Fossa pterygopalatina (schéma, ohraničení, struktury)
14. Parafaryngeální prostor (ohraničení, struktury)
15. Prestyloidní prostor (struktury), styloidní septum
16. Retrostyloidní prostor (struktury)
17. Rozdělení krajin na krku (trojúhelníky)
18. Trigonum submandibulare (ohraničení, struktury)
19. Trigonum caroticum (ohraničení, struktury)
20. Trigonum submentale, omotracheale (ohraničení, struktury)
21. Trigonum scalenovertebrale (fisura scalenorum, ohraničení, struktury)
22. Trigonum colli laterale
23. Trigonum suboccipitale (ohraničení, struktury)
24. Trigonum Petiti et Grynfelti – ohraničení

# **BASIS CRANII INTERNA**



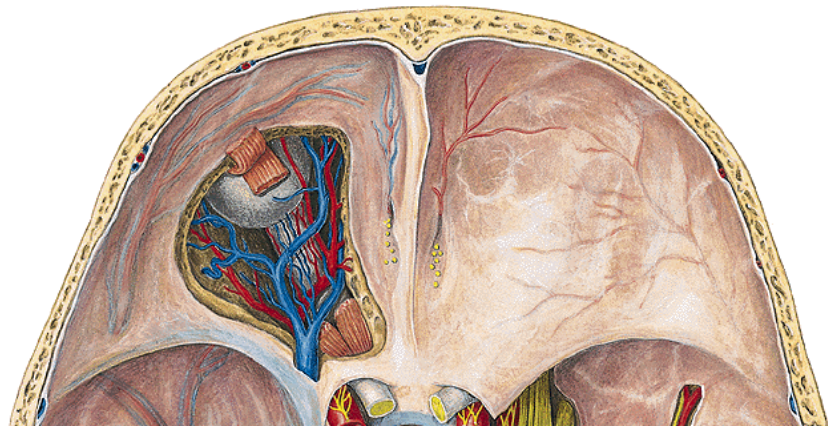
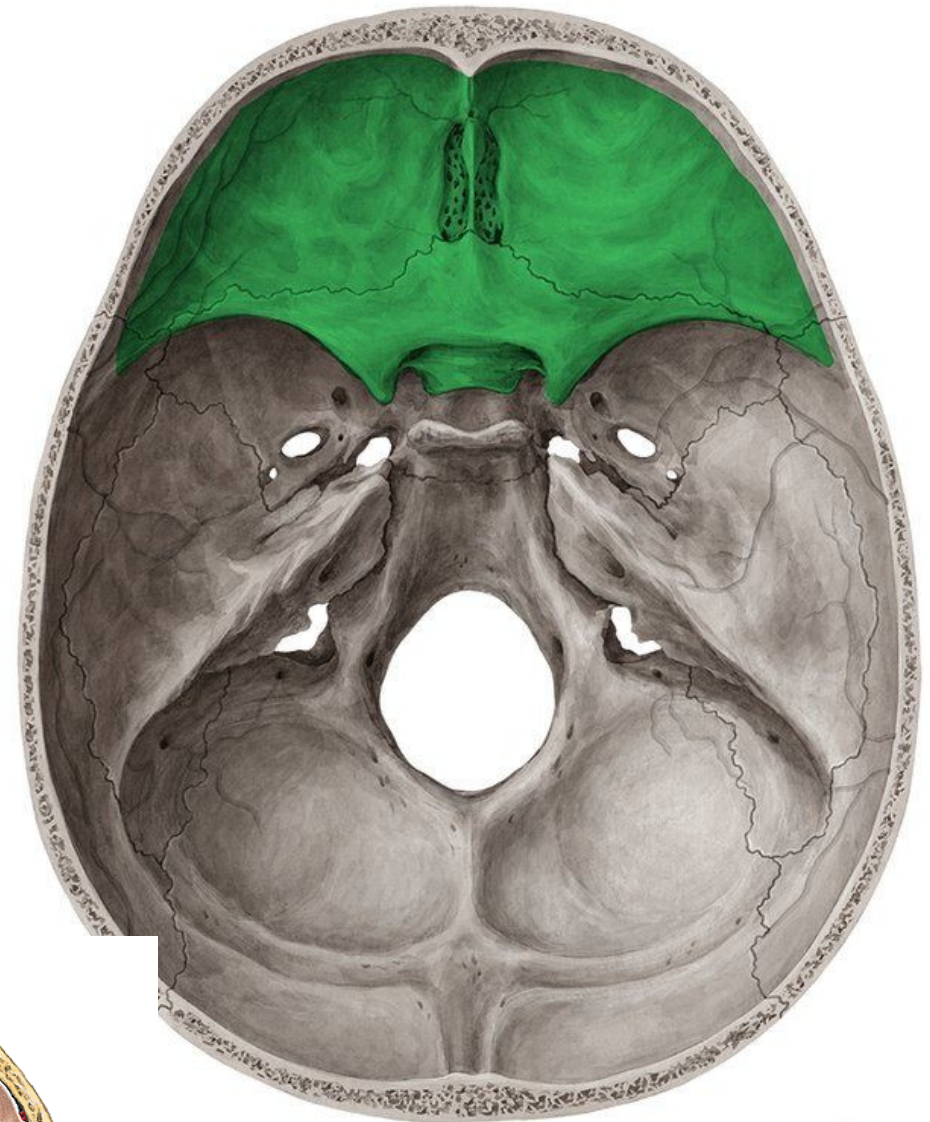
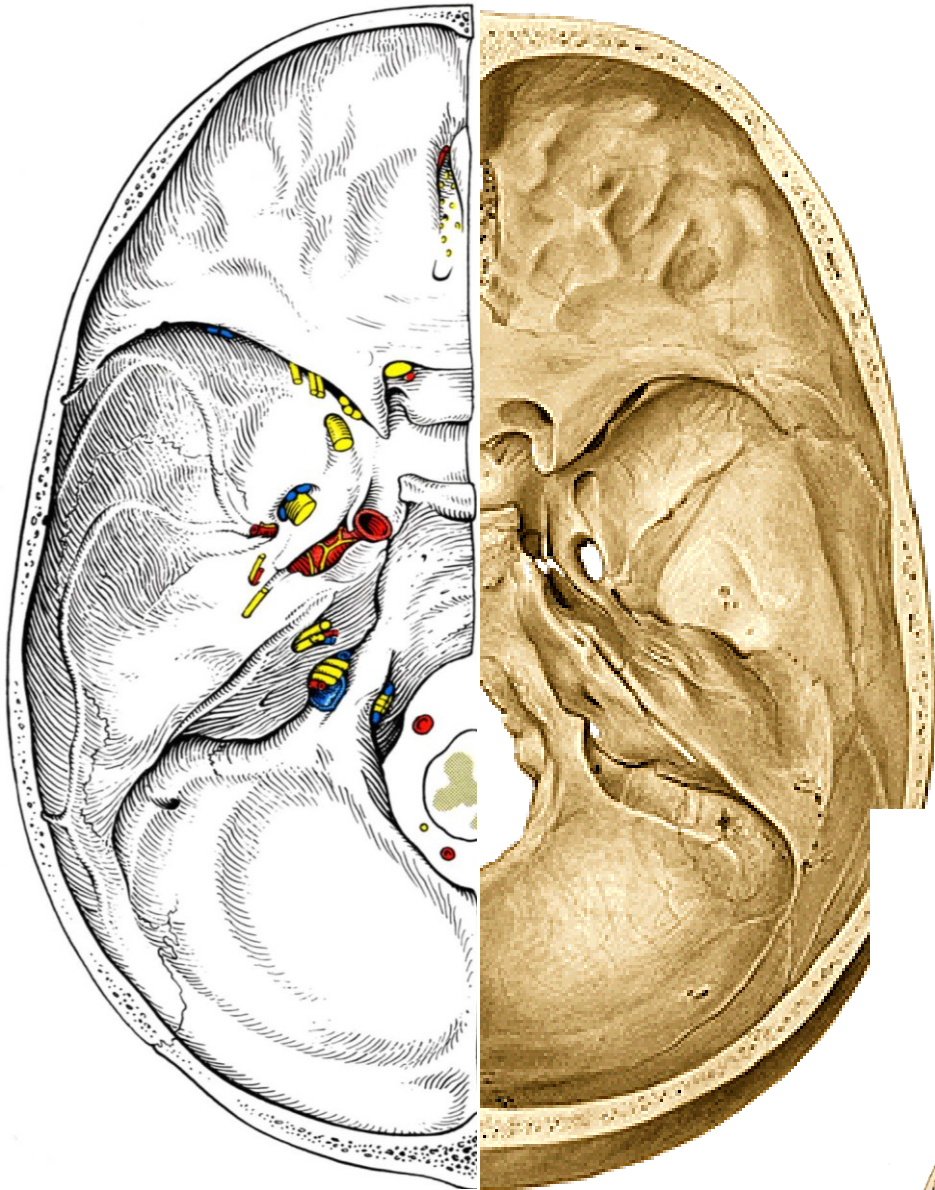
**Fossa cranii anterior**

**Fossa cranii media**

**Fossa cranii posterior**

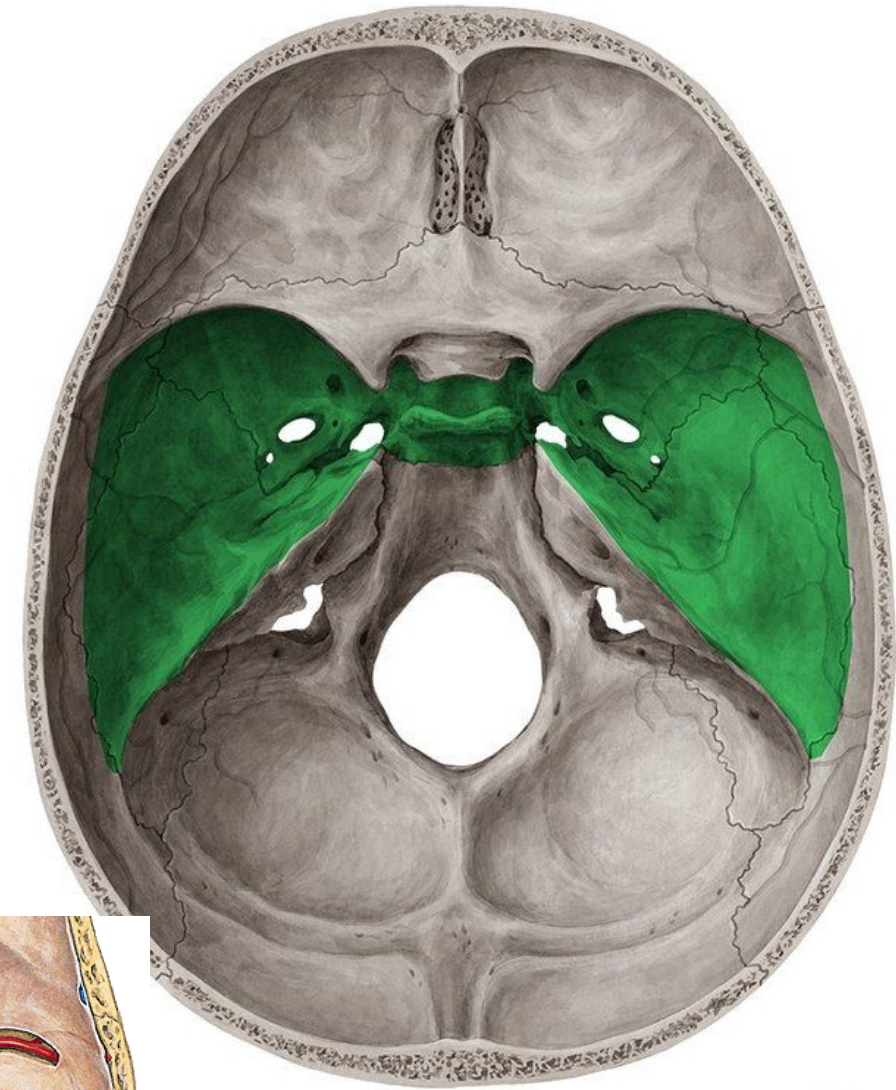
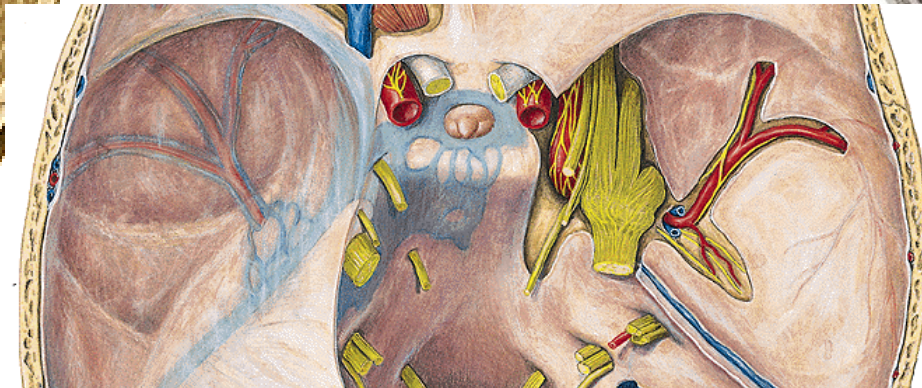
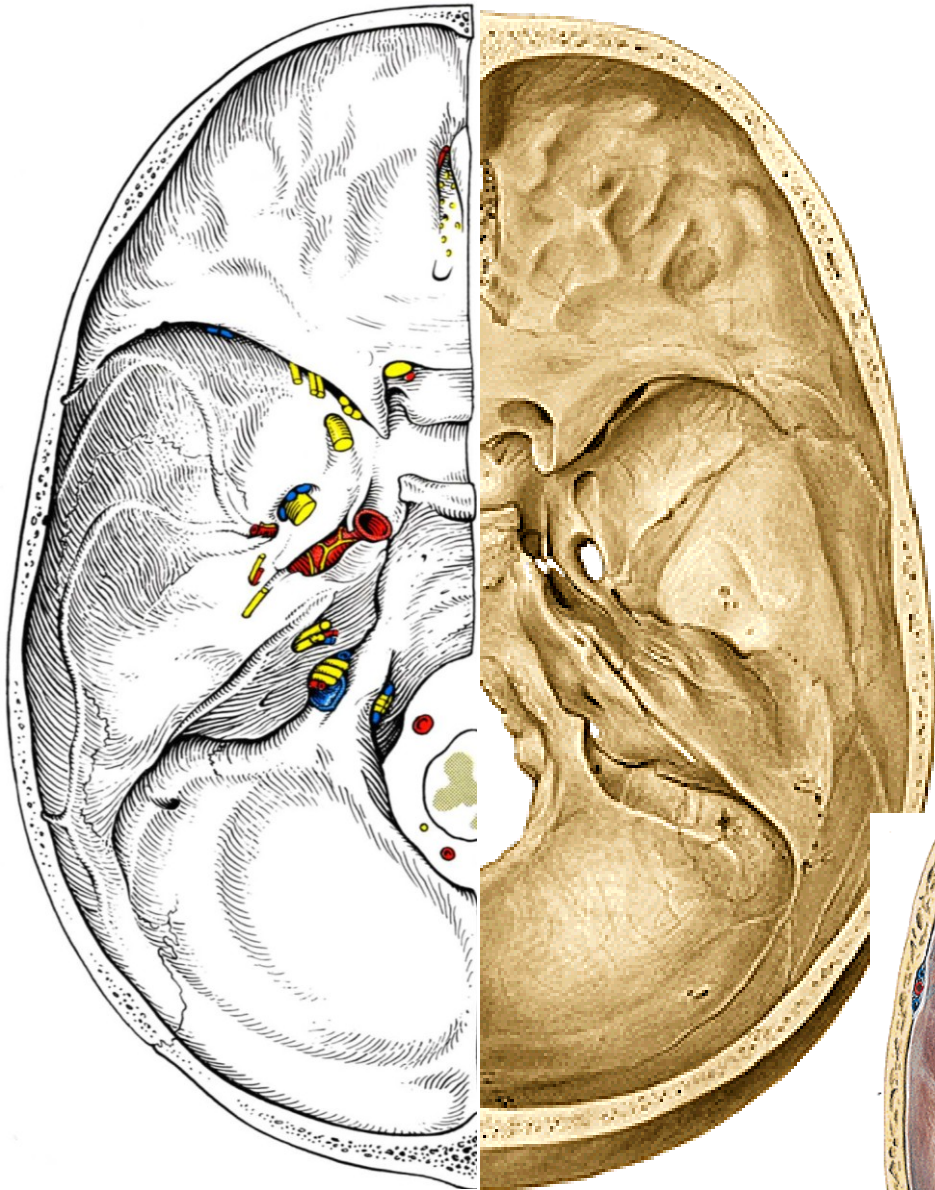


# BASIS CRANII INTERNA – Fossa cranii anterior



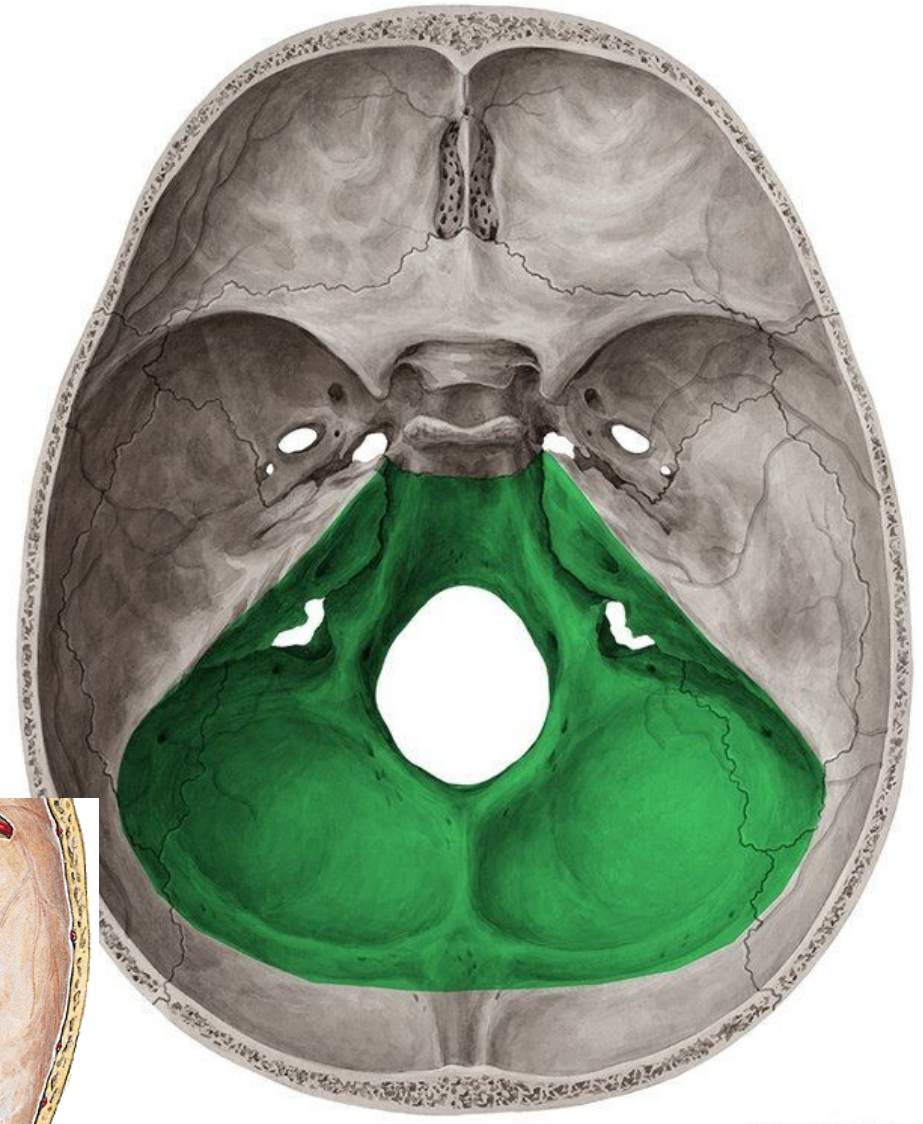
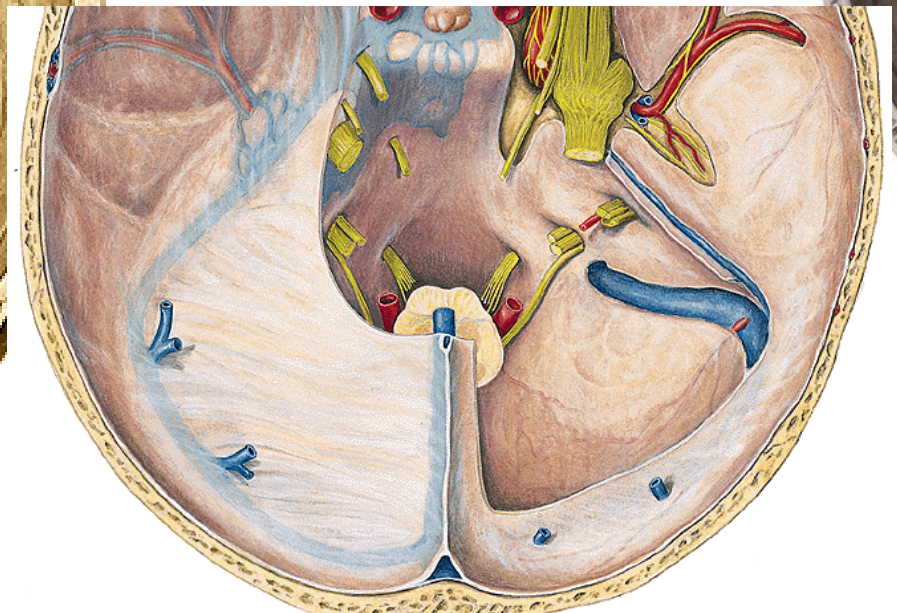
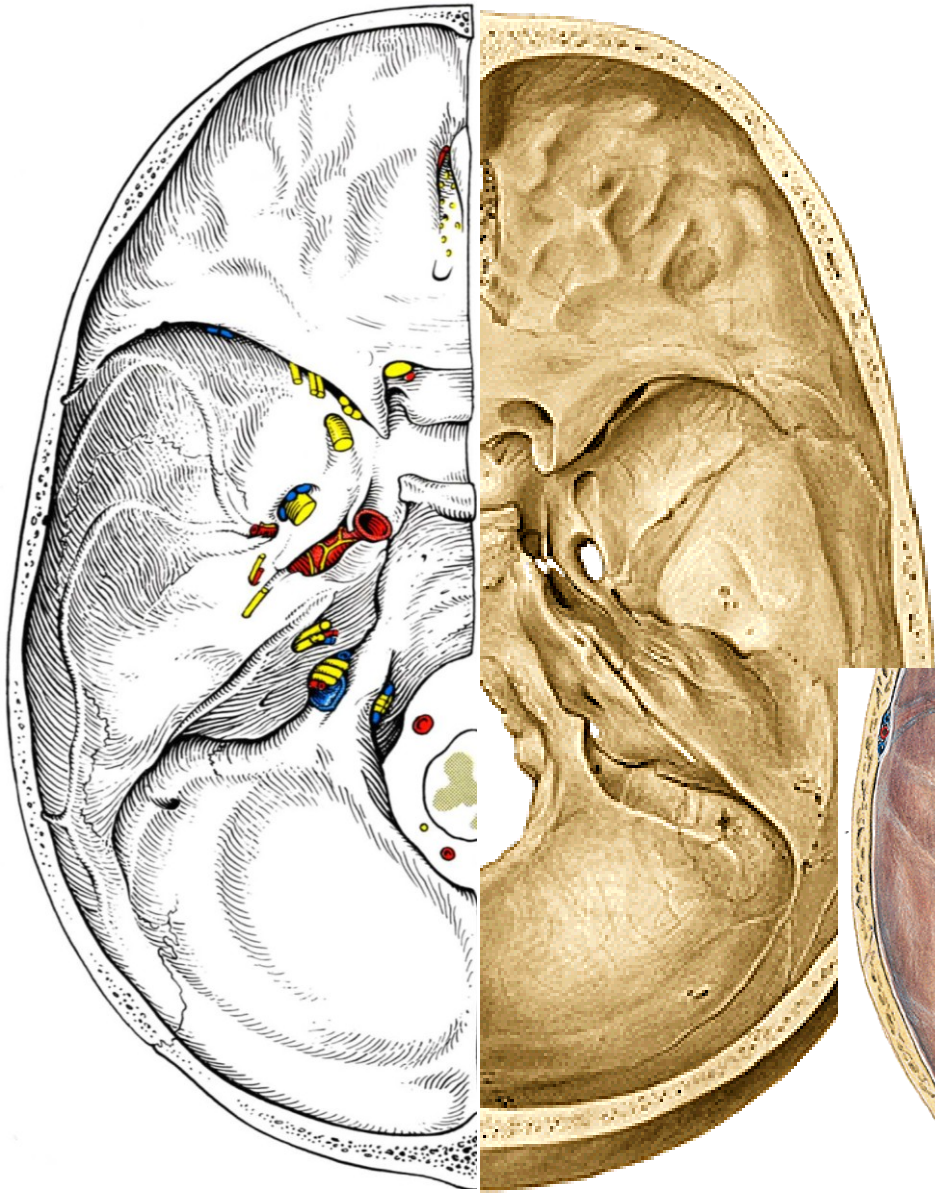


# BASIS CRANII INTERNA – Fossa cranii media





**BASIS CRANII INTERNA – Fossa cranii posterior**

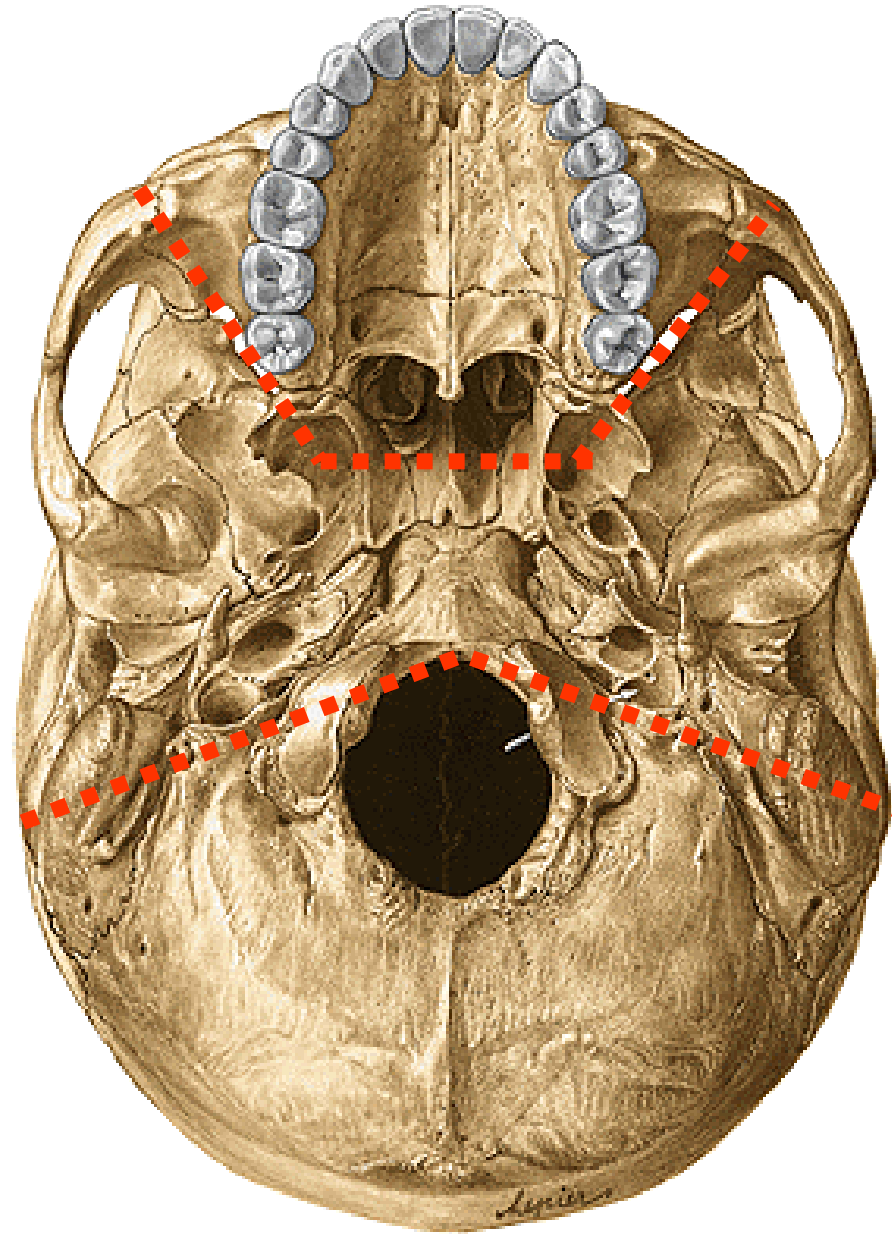


## **BASIS CRANII EXTERNA**

**Fossa cranii anterior**

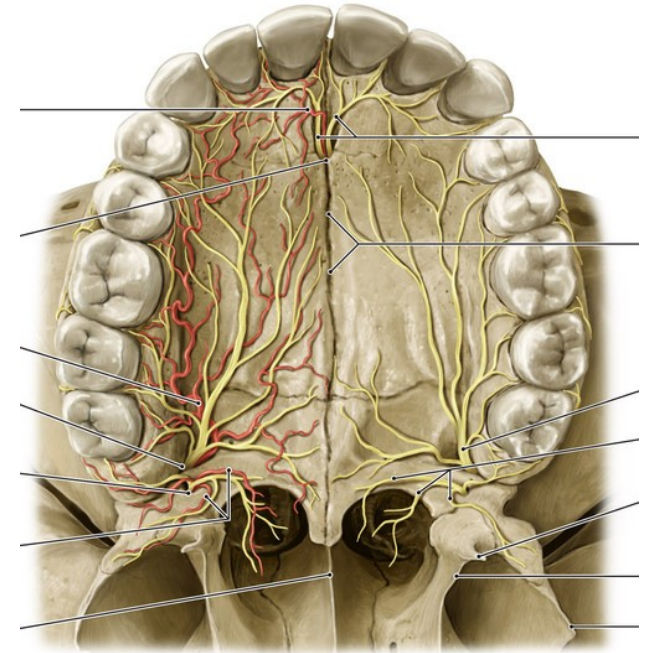
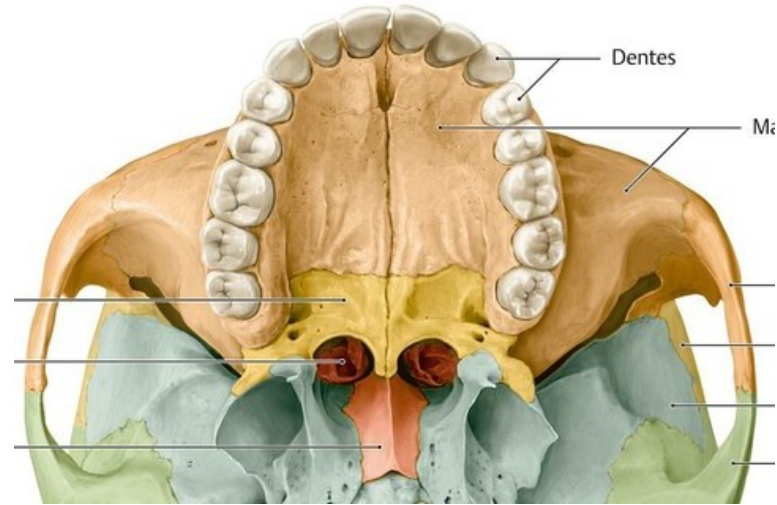
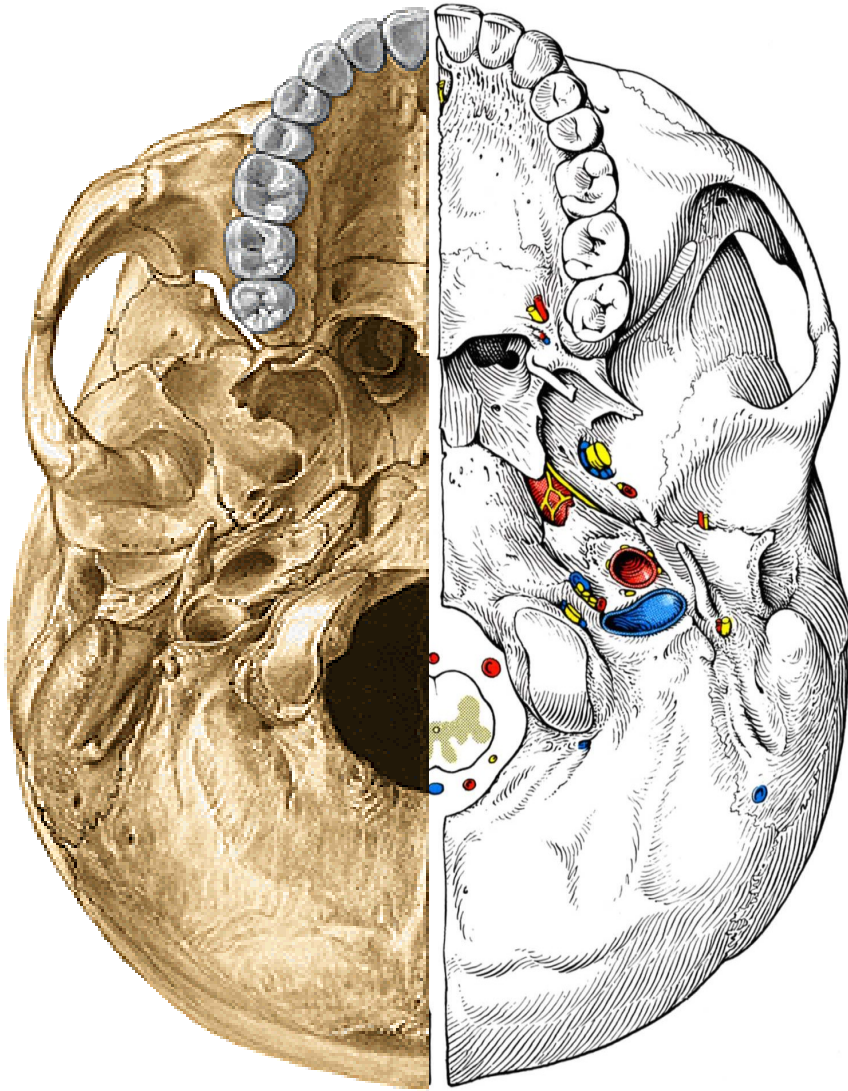
**Fossa cranii media**

**Fossa cranii posterior**

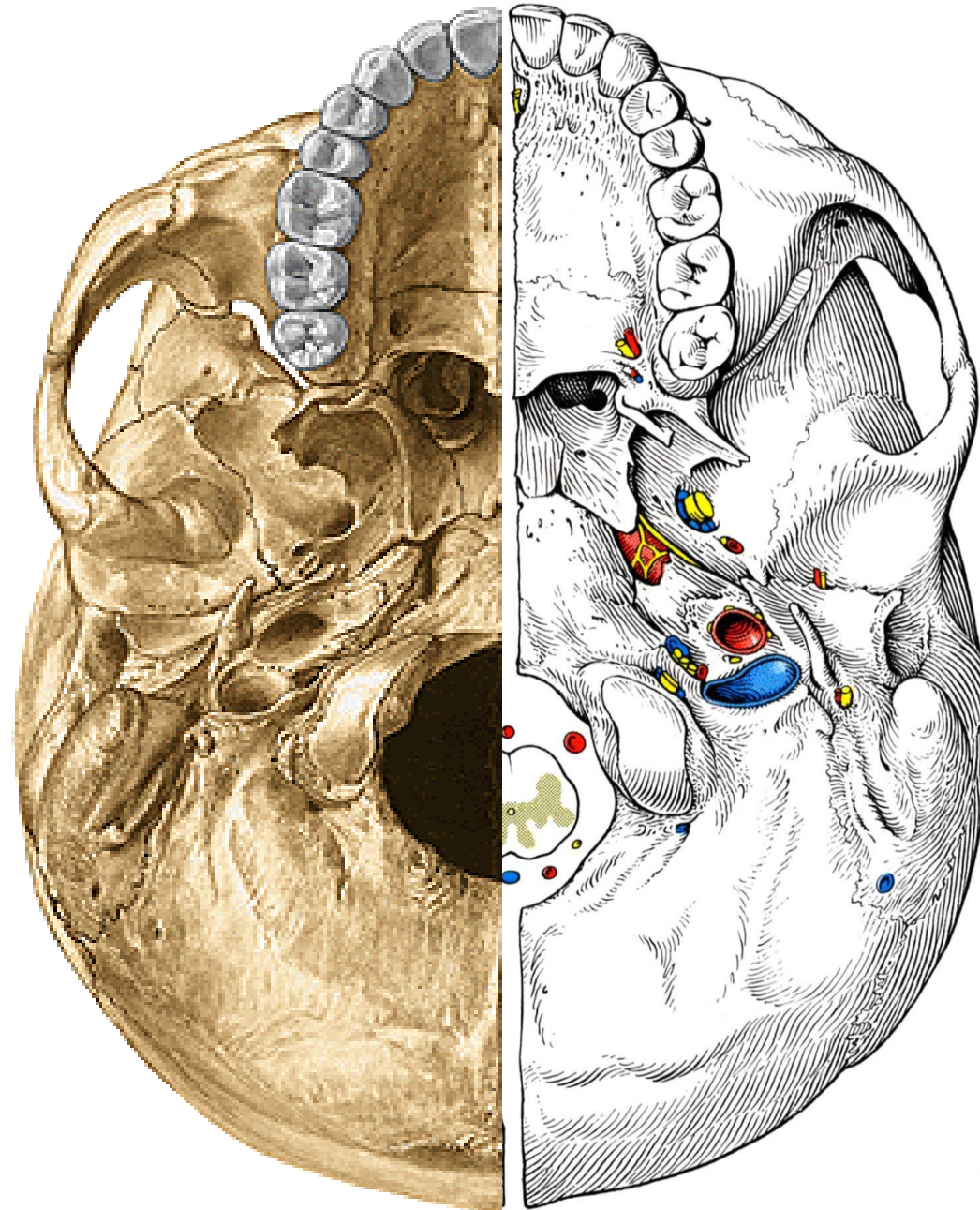




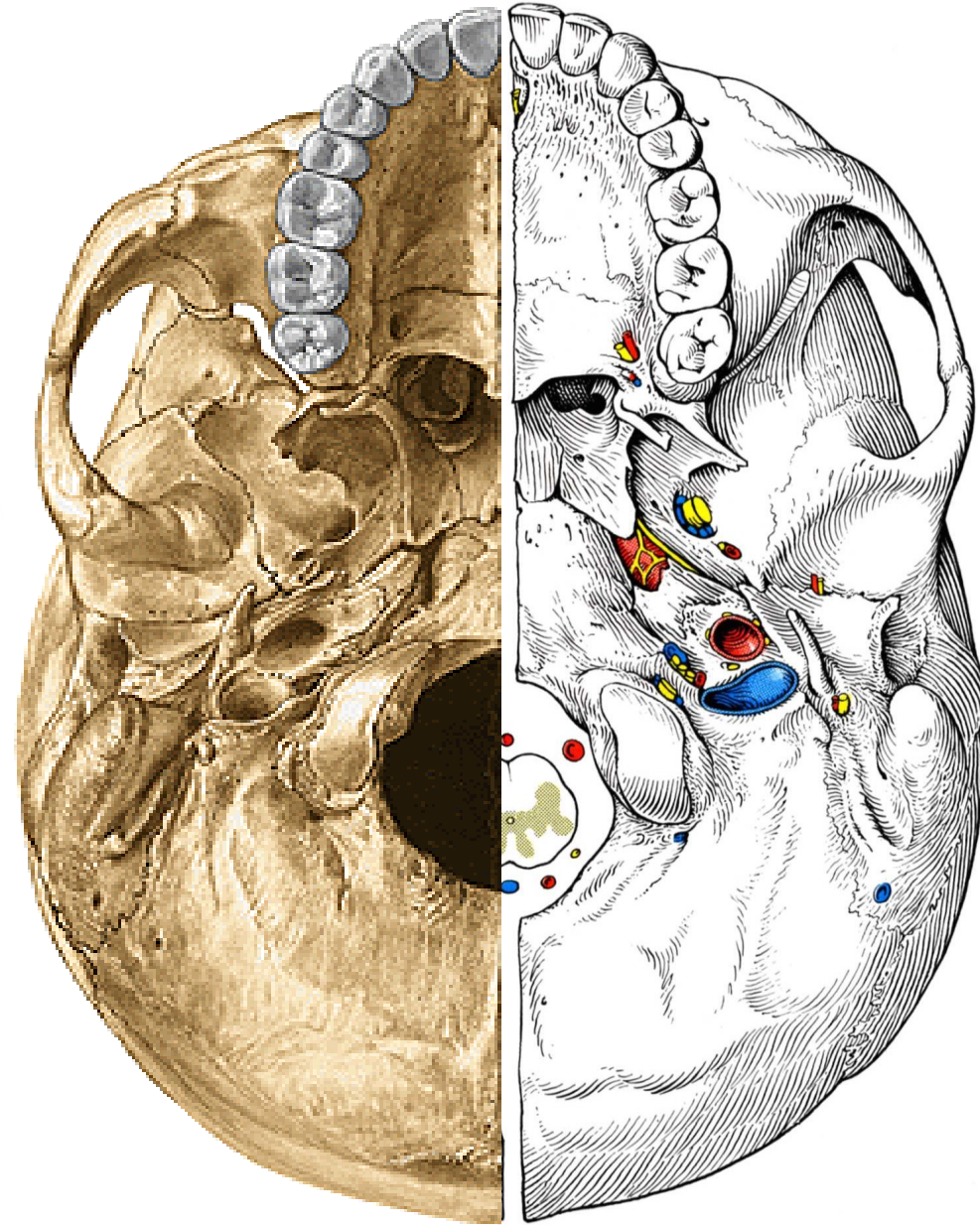
# BASIS CRANII EXTERNA – fossa cranii anterior



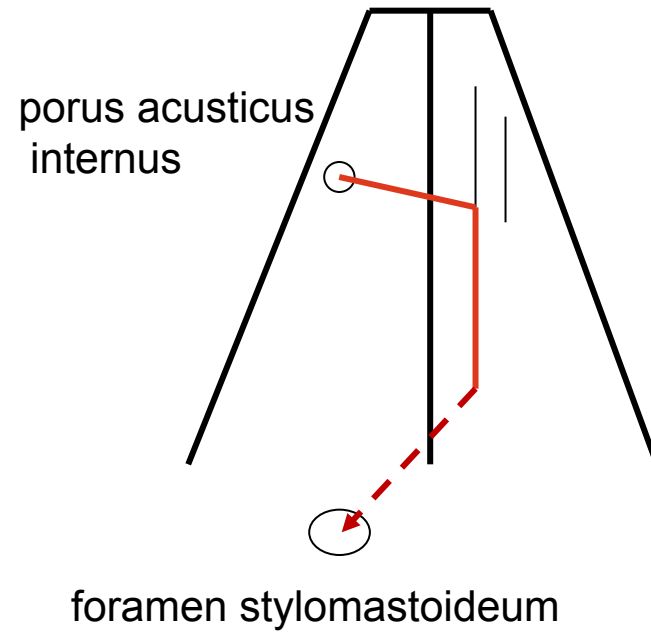
# BASIS CRANII EXTERNA – fossa cranii media



# BASIS CRANII EXTERNA – fossa cranii posterior (os occipitale)

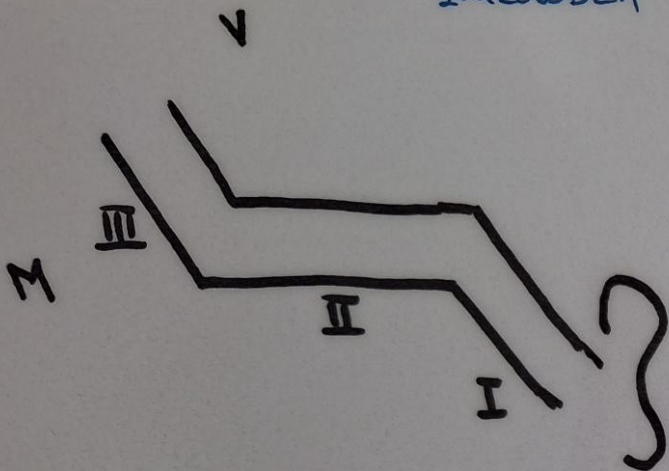


# Canalis n. facialis

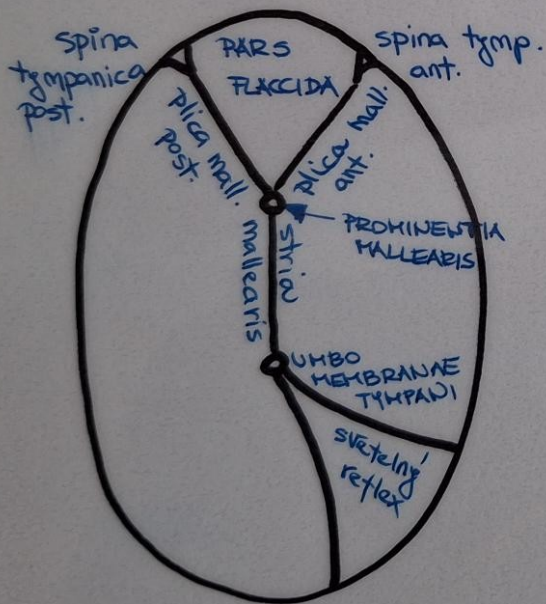
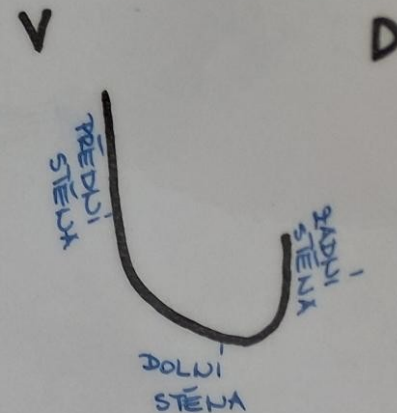
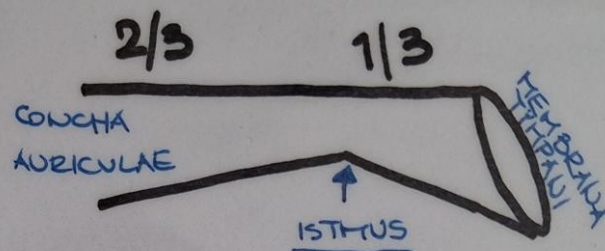




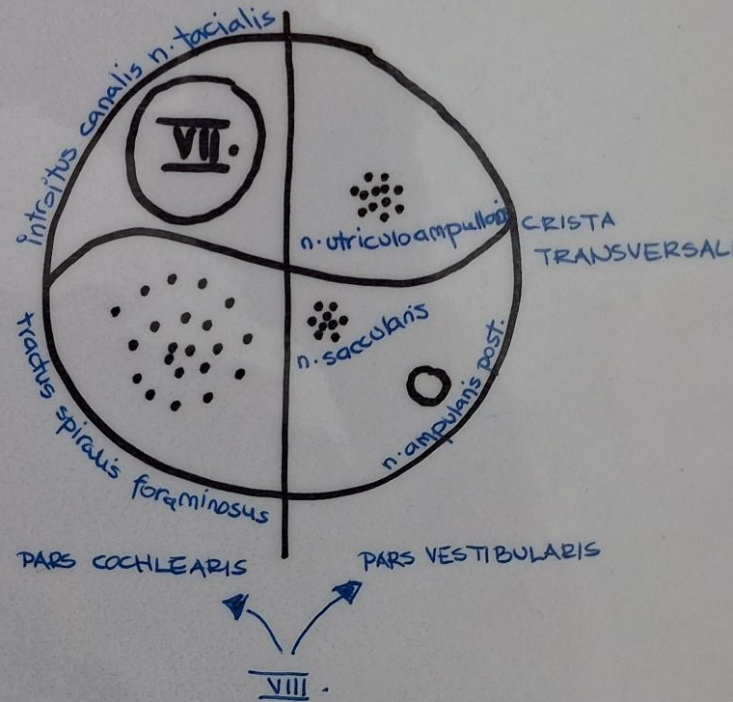
TRANSVERSÁLNÍ ŘEZ ZEVNÍM  
ZUŠKOVODEM

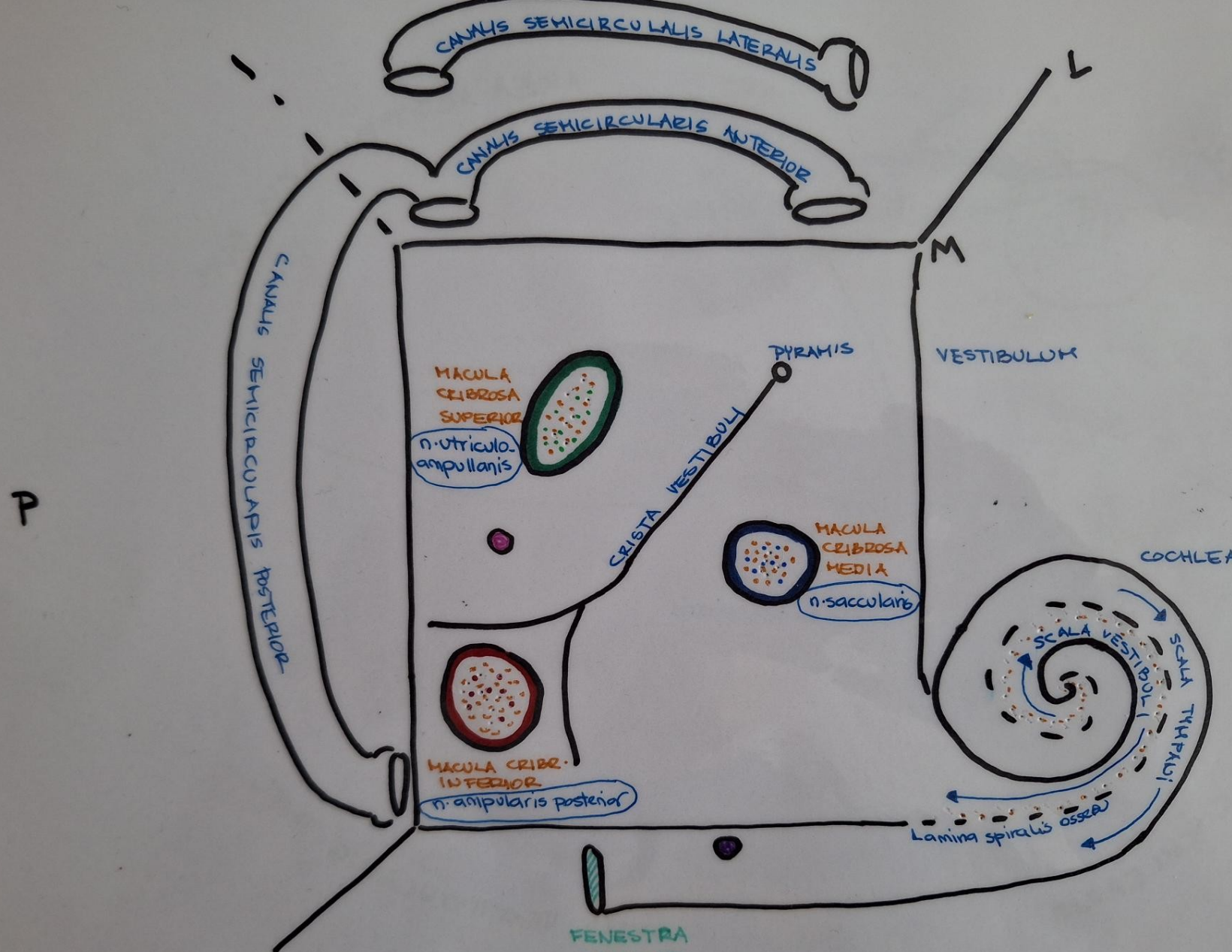


FRONTÁLNÍ ŘEZ ZEVNÍM  
ZUŠKOVODEM



MEMBRANA TYMPANI





- RECESSUS COCHLEARIS (CAECUM VESTIBULARE)
- RECESSUS ELIPTICUS (UTRICULI)
- RECESSUS SPHERICUS (SACULI)
- APERTURA INTERNA CANALICULI COCHLAE (ductus perilymphaticus)
- APERTURA INTERNA AQUEDUCTUS VESTIBULI (ductus endolymphaticus)



AREA N. VII.



INTROITUS CANALIS  
N. FACIALIS

AREA VESTIBULARIS SUP.

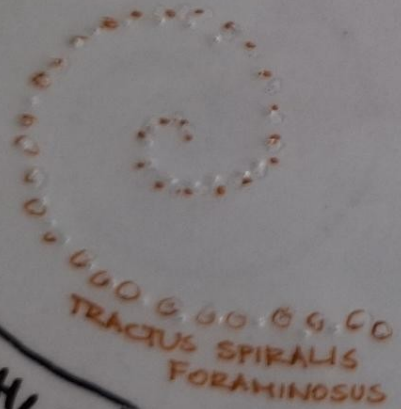
n. utriculoampularis =  
- n. utricularis  
- n. ampularis ant.  
- n. ampularis lat.

CRISTA TRANSVERSA

n. saccularis

n. ampularis post.  
foramen  
singulare

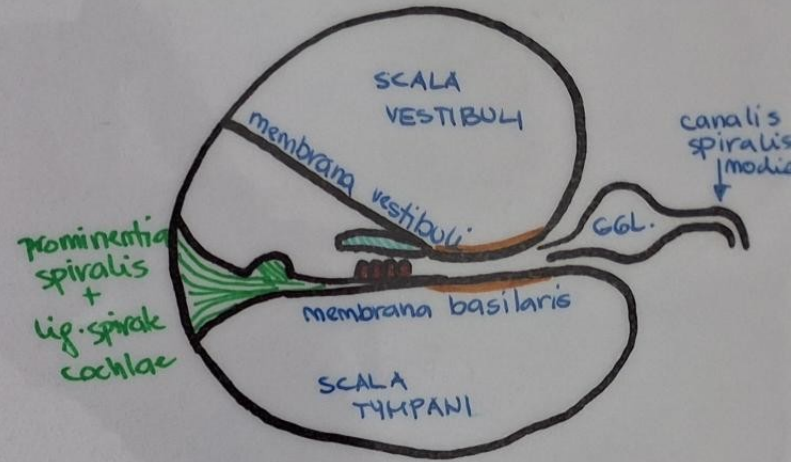
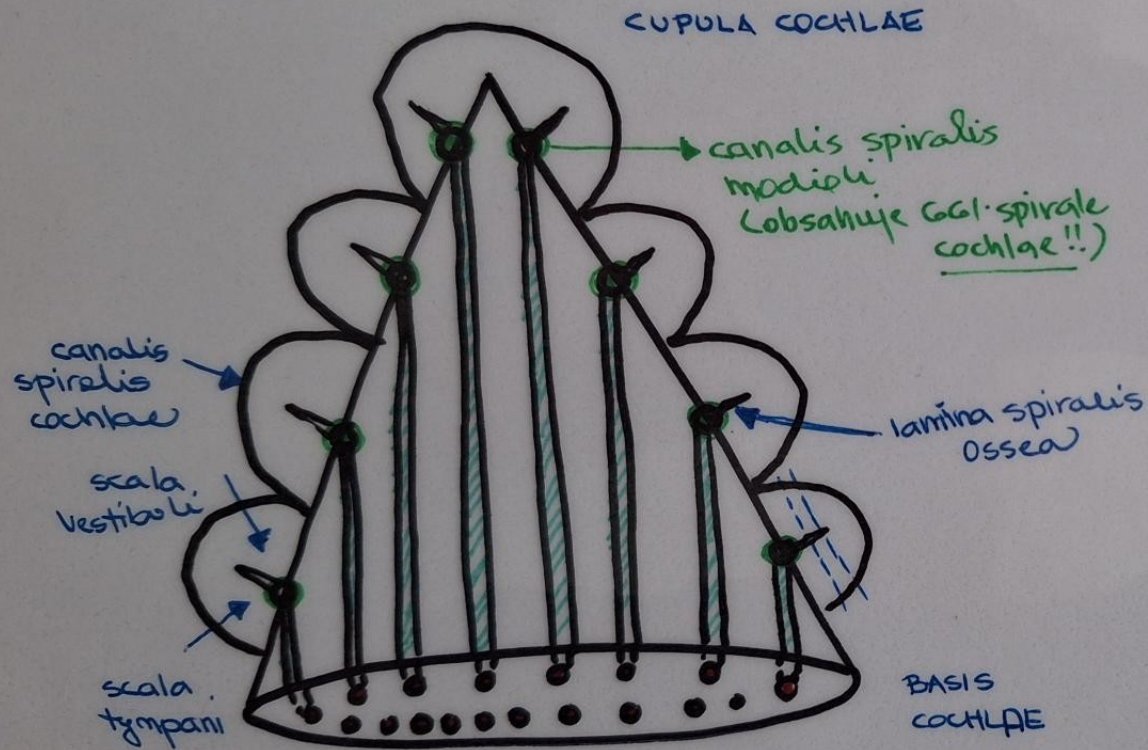
AREA COCHLEARIS



TRACTUS SPIRALIS  
FORAMINOSUS

AREA VESTIBULARIS INF.

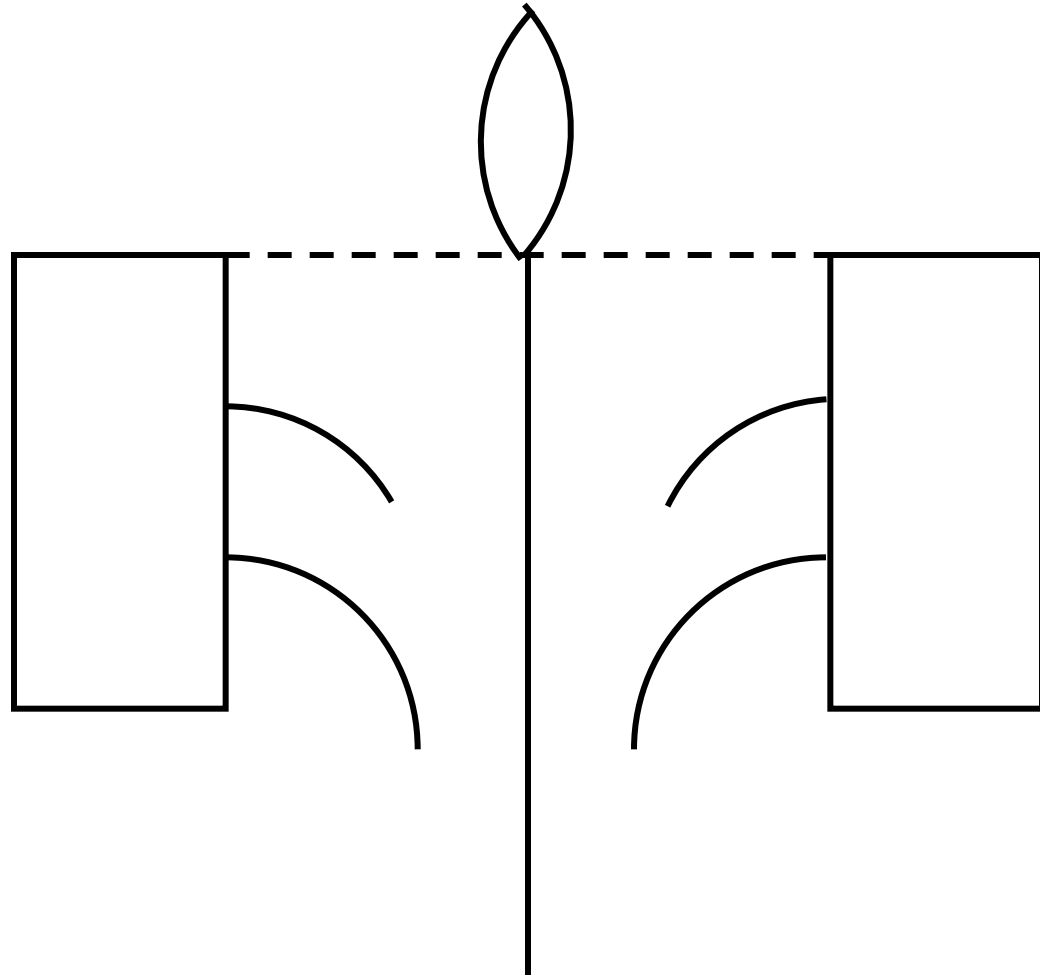
**MODIOLUS**



- \* membrana tectoria
- \* **CORTINO ORGAN**
- \* labium limbi vestibuli et tympani

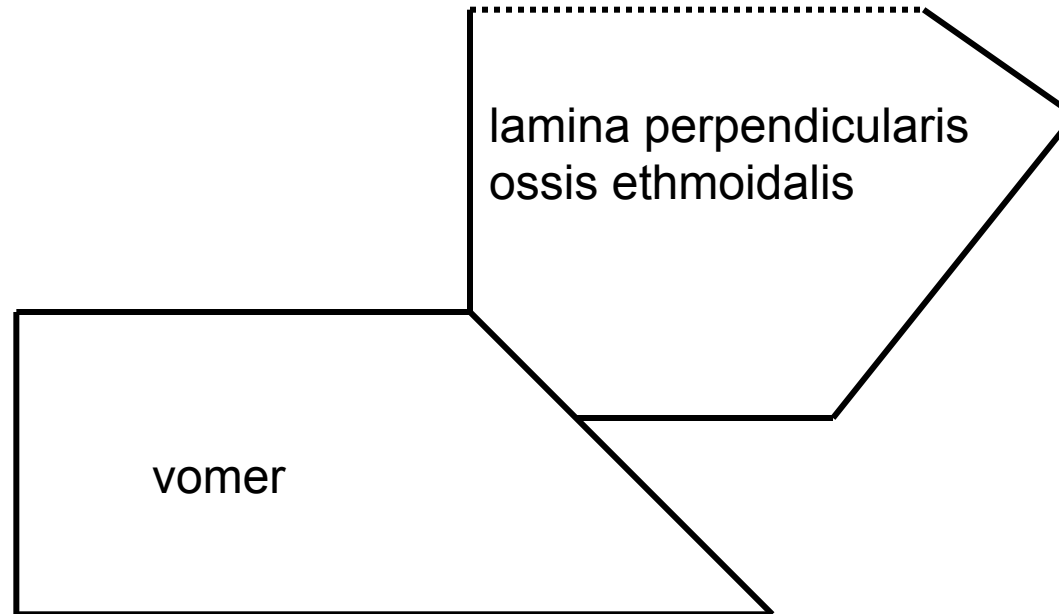
\* CAVALES LONGITUDINALES MODIOLI  
 \* **TRACTUS SPIRALIS FORAMINOSUS** = tvoreň na basis  
 modioli 2 canales longitudinales modioli

# Os ethmoidale

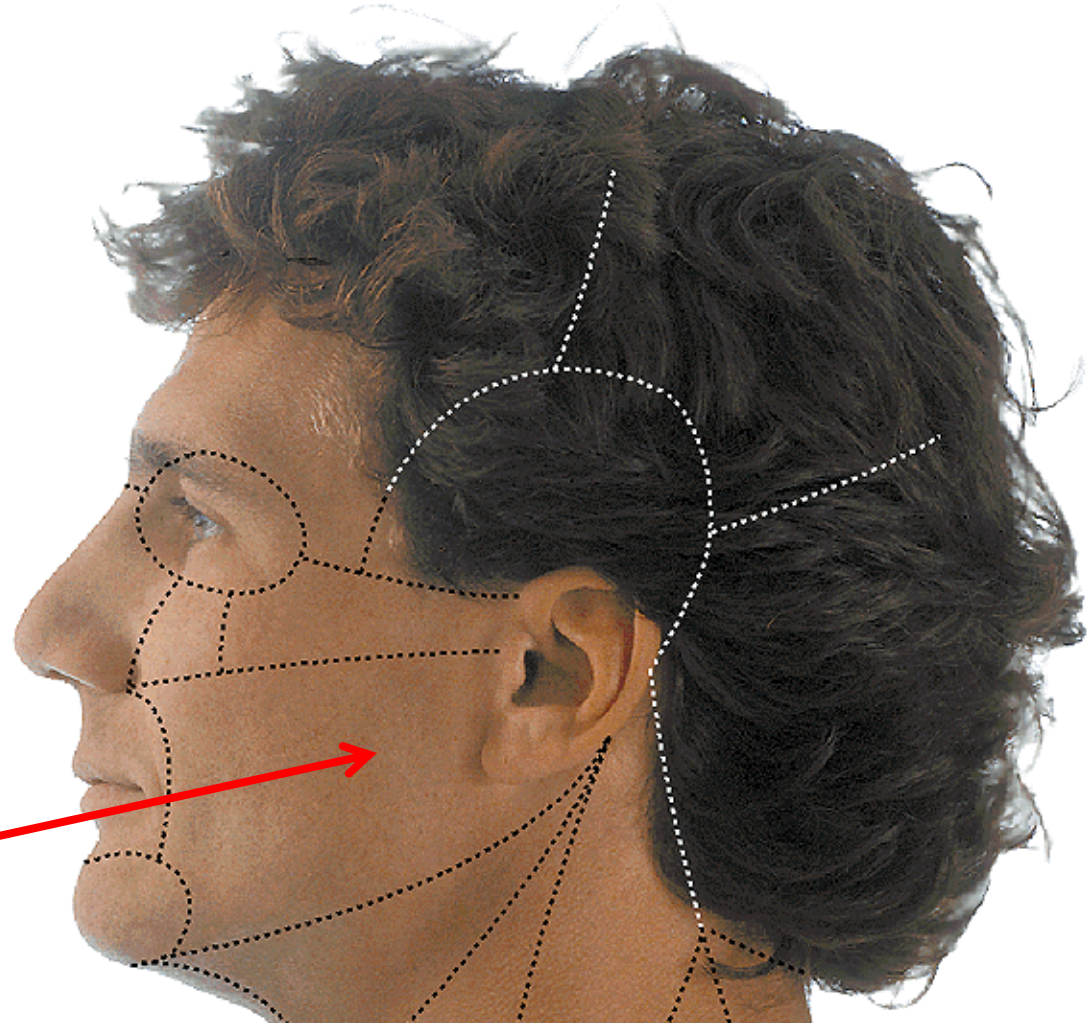
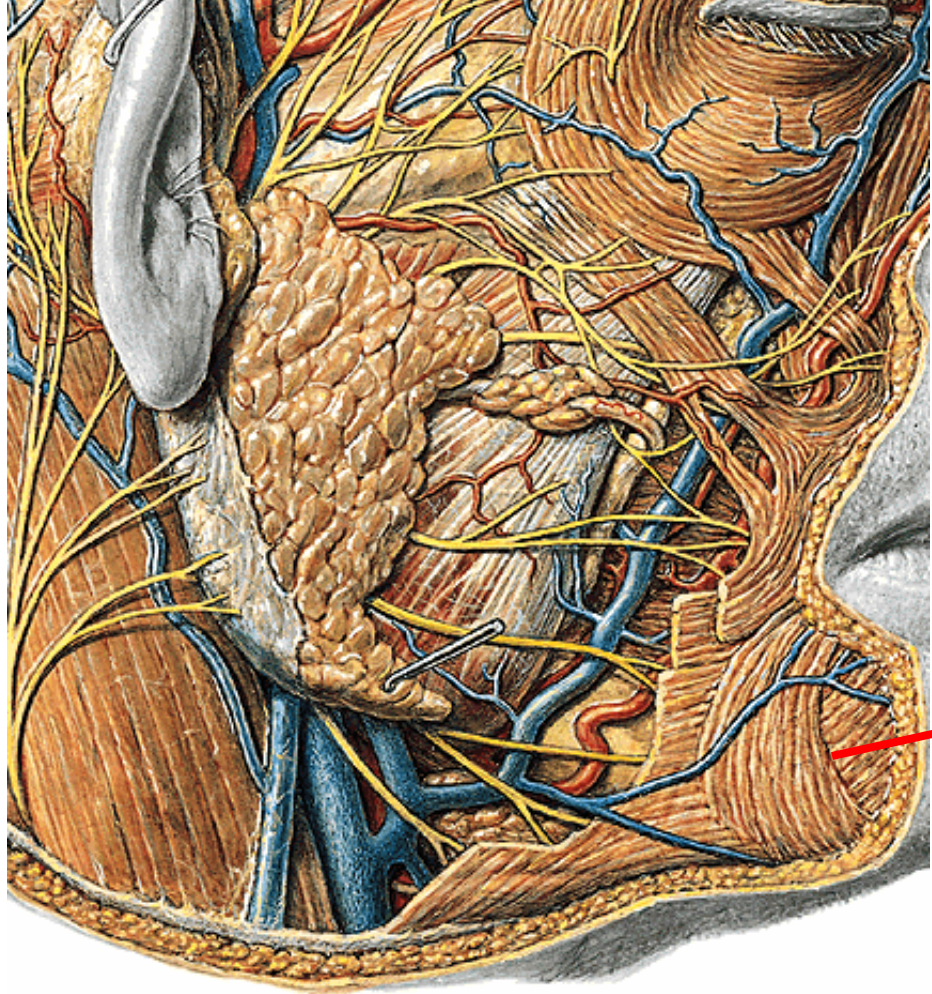




## SEPTUM NASI OSSEUM

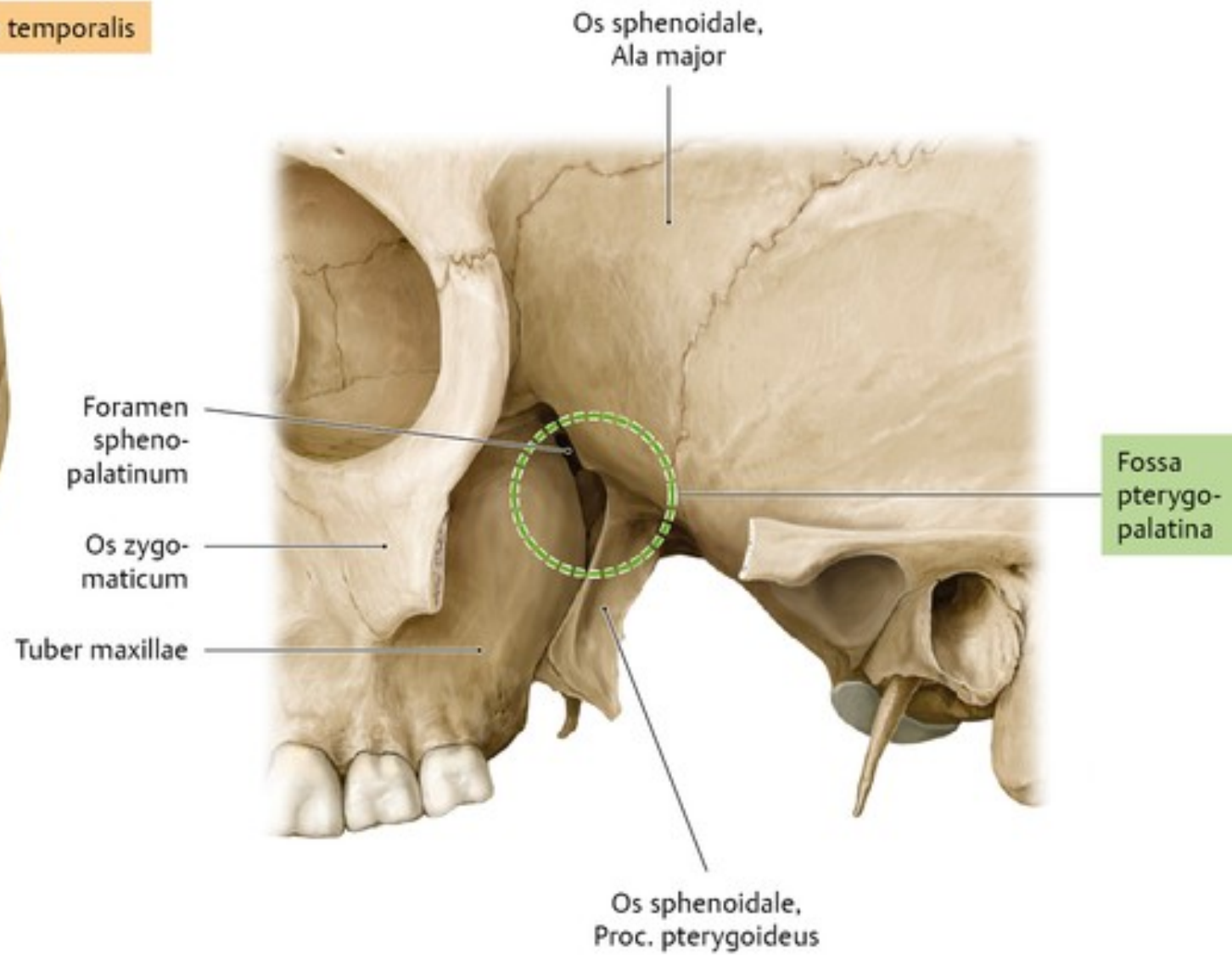
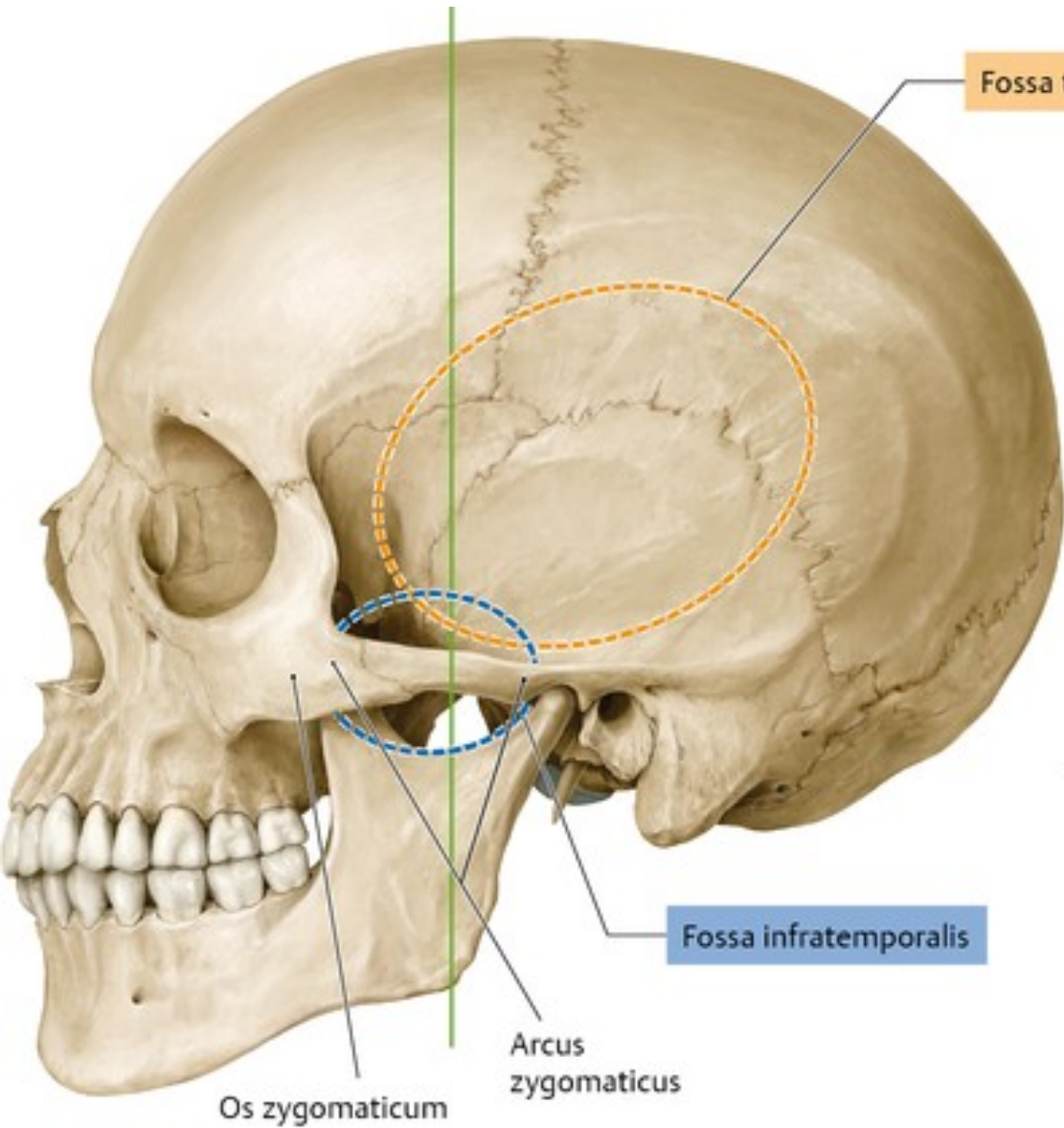


## Regio parotideomasseterica



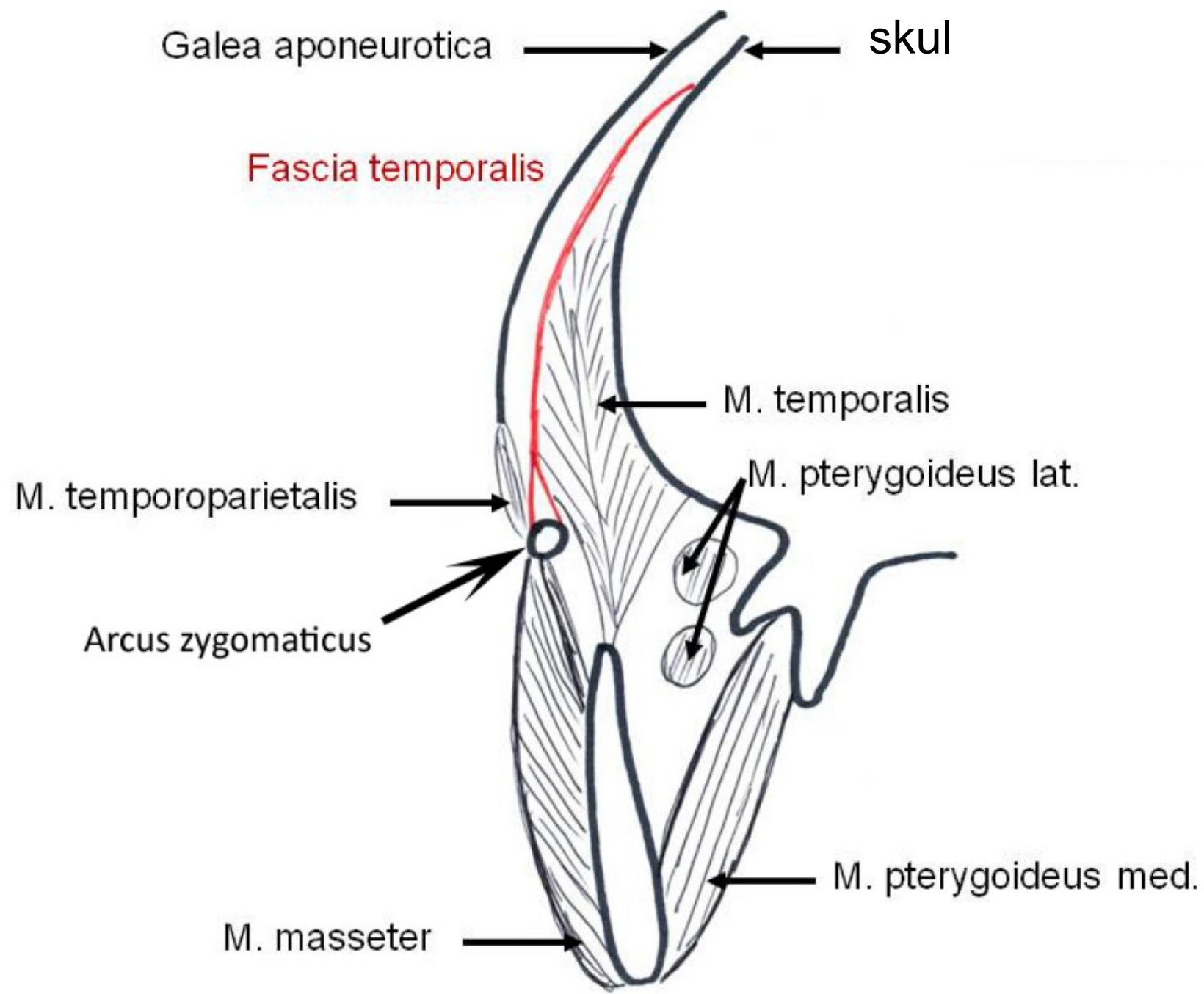


# Fossa temporalis

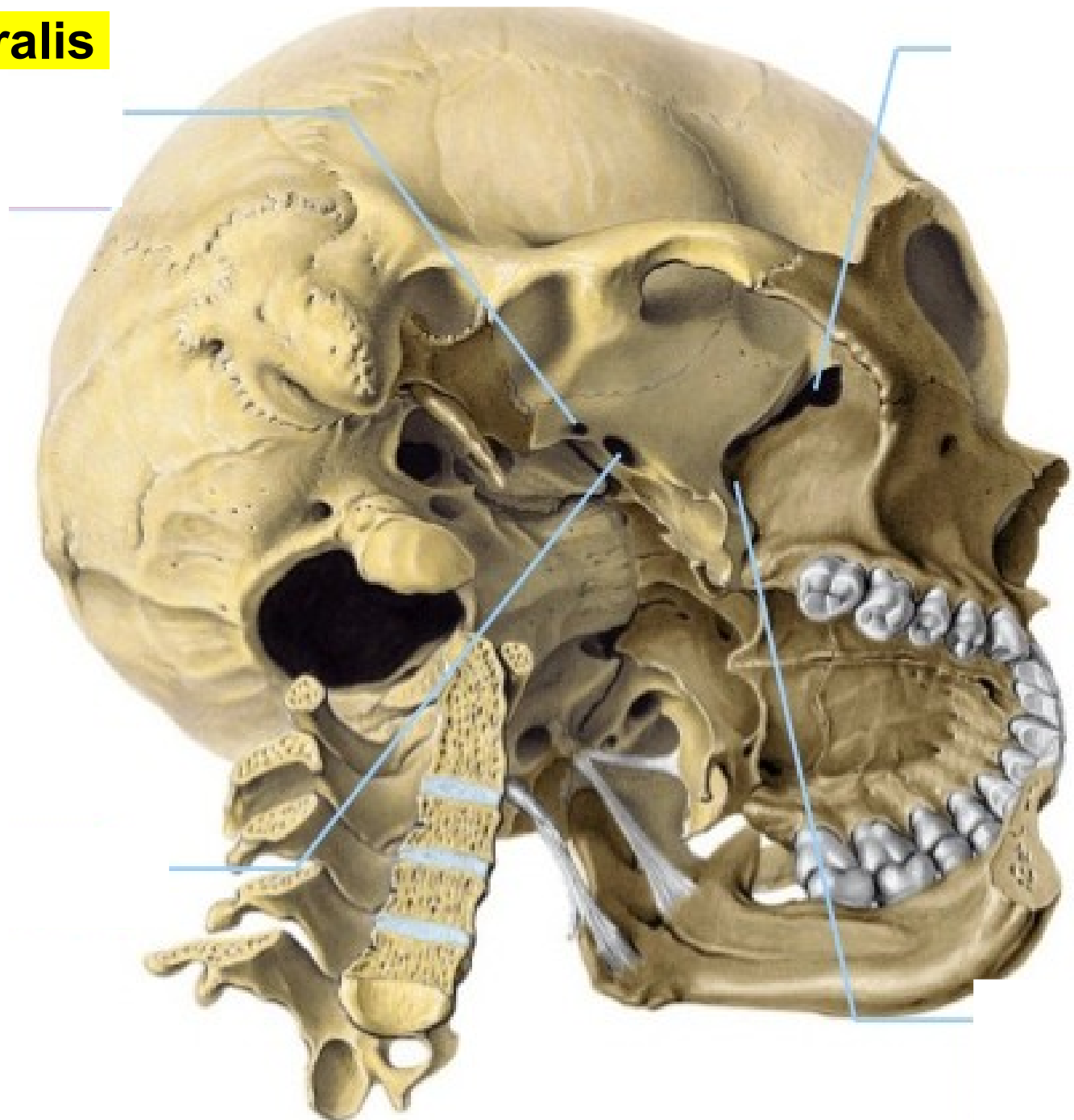




# FOSSA LEMPORALIS\_FRONTÁLNÍ ŘEZ



# Fossa infratemporalis

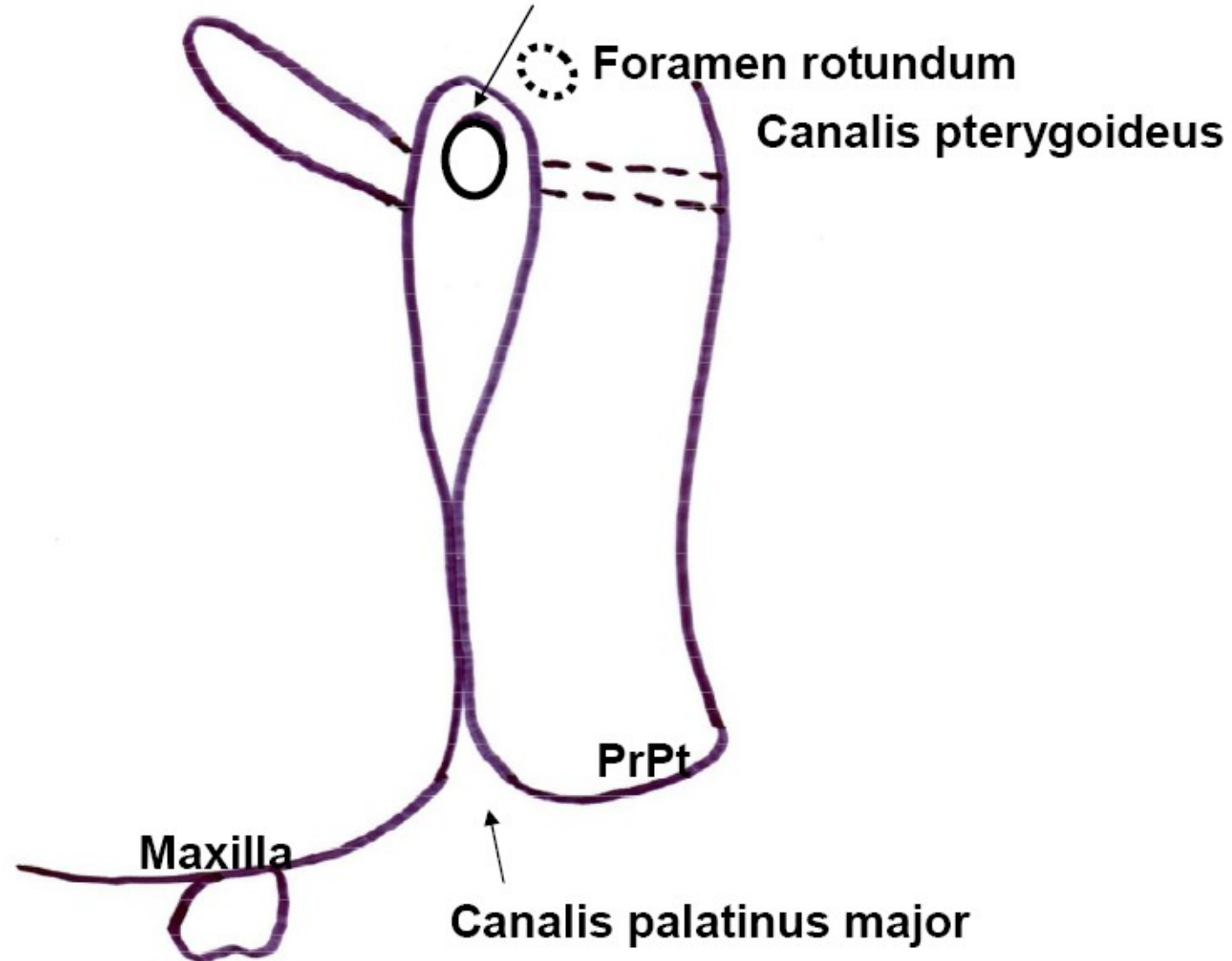


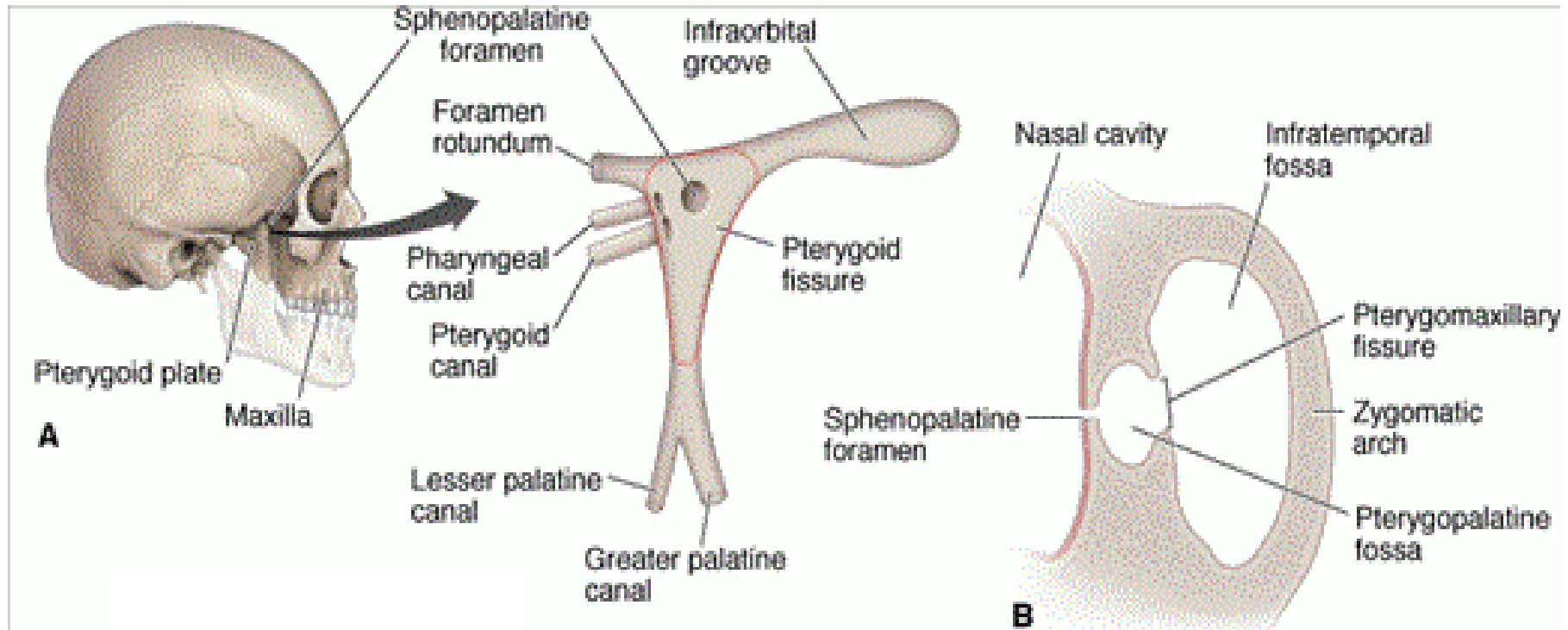
# Fossa pterygopalatina



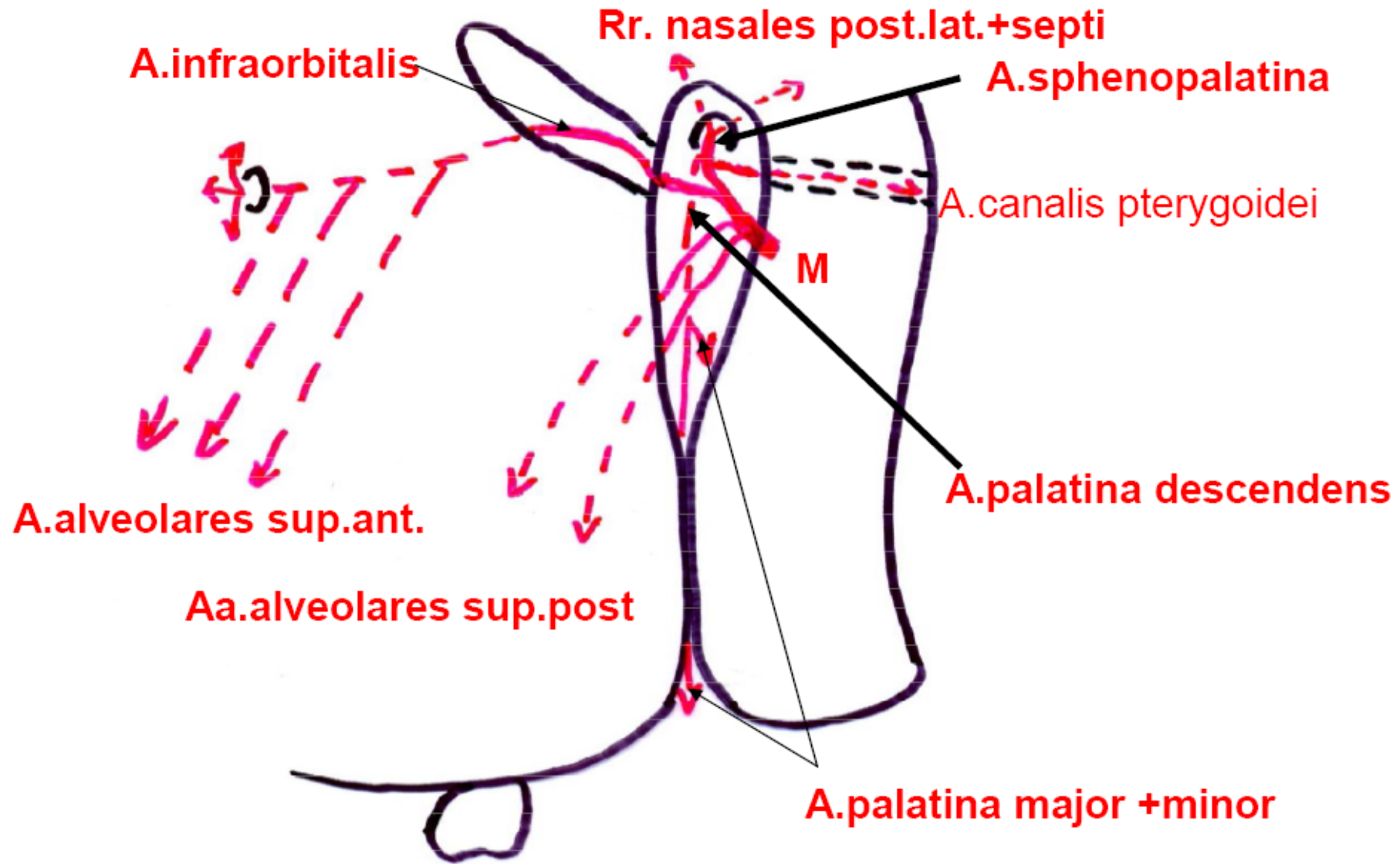
# Pohled na fossa pterygopalatina z boku

Fissura orbitalis inferior Foramen sphenopalatinum

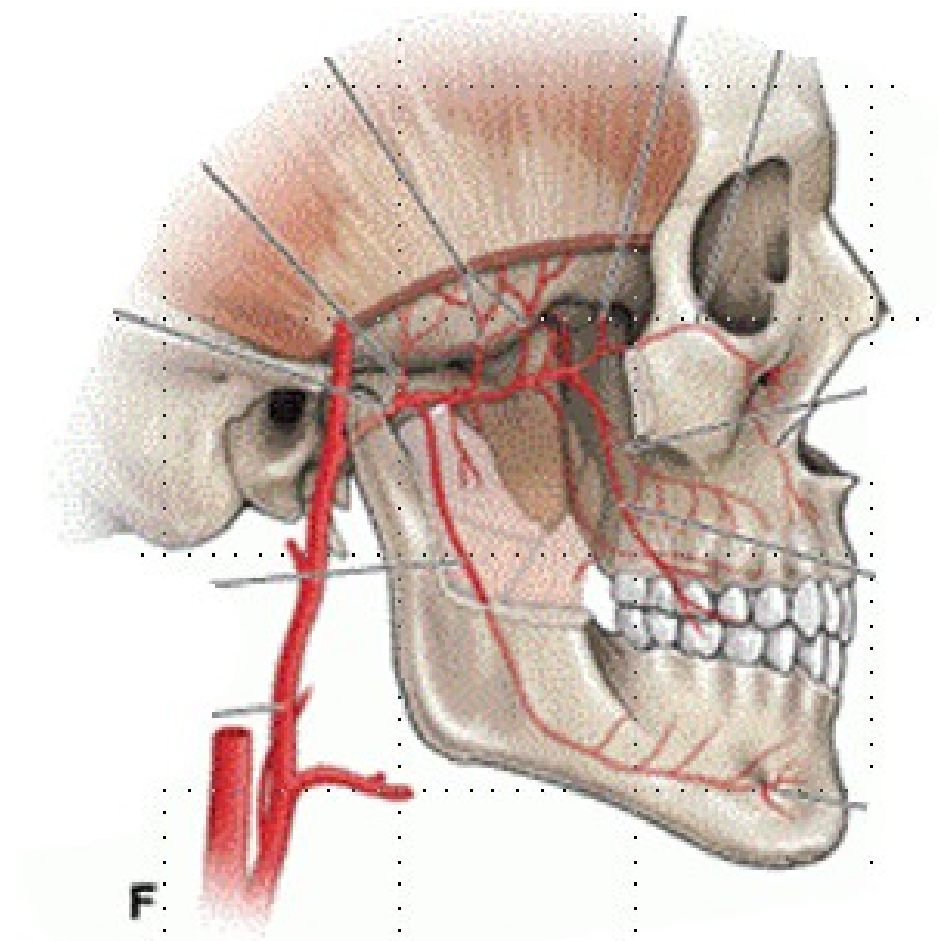
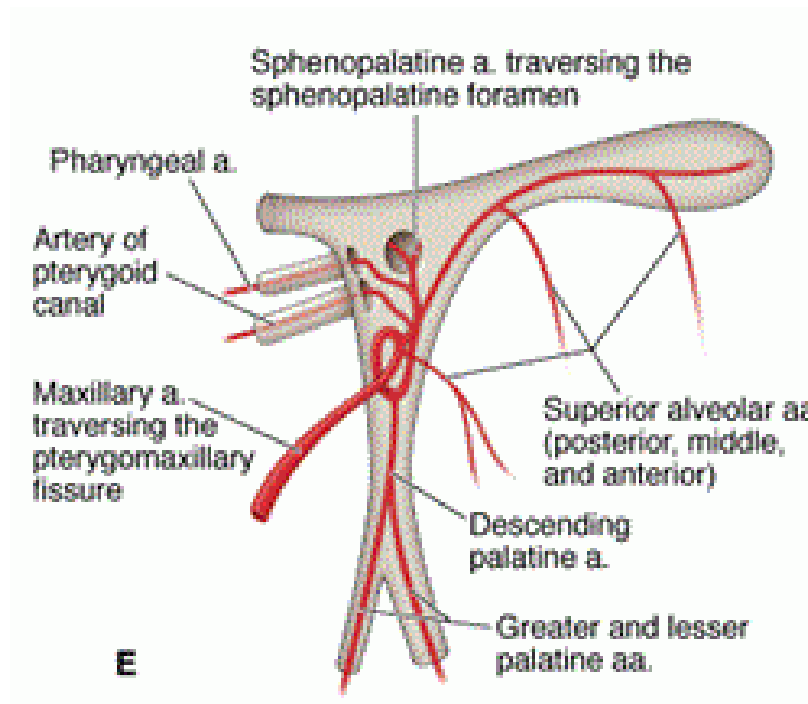




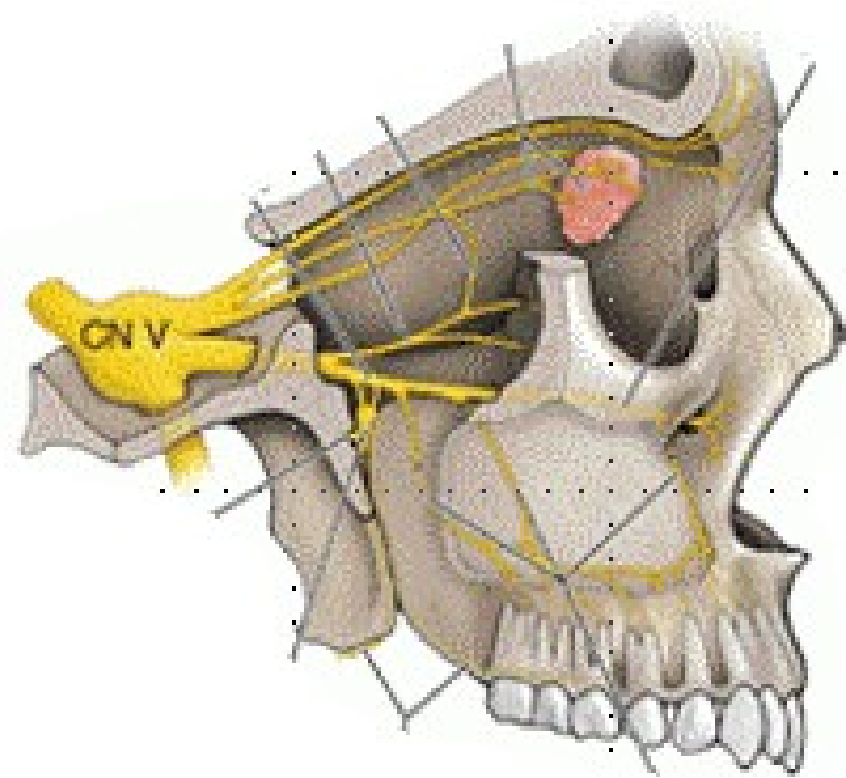
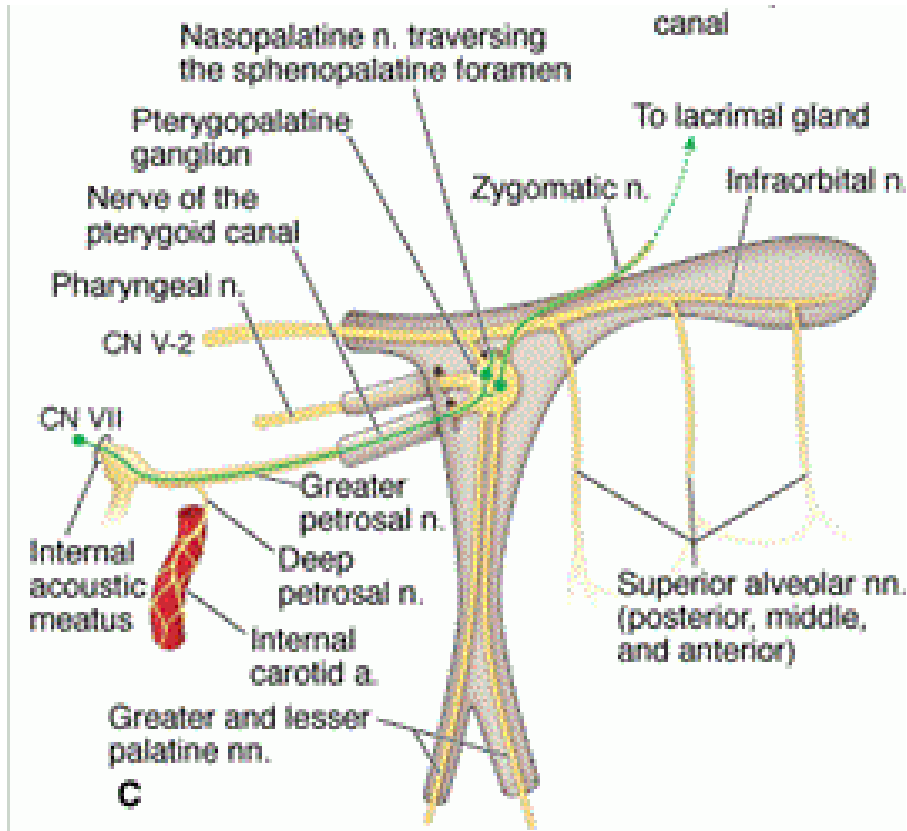
# Fossa pterygopalatina průchody větví a. maxillaris





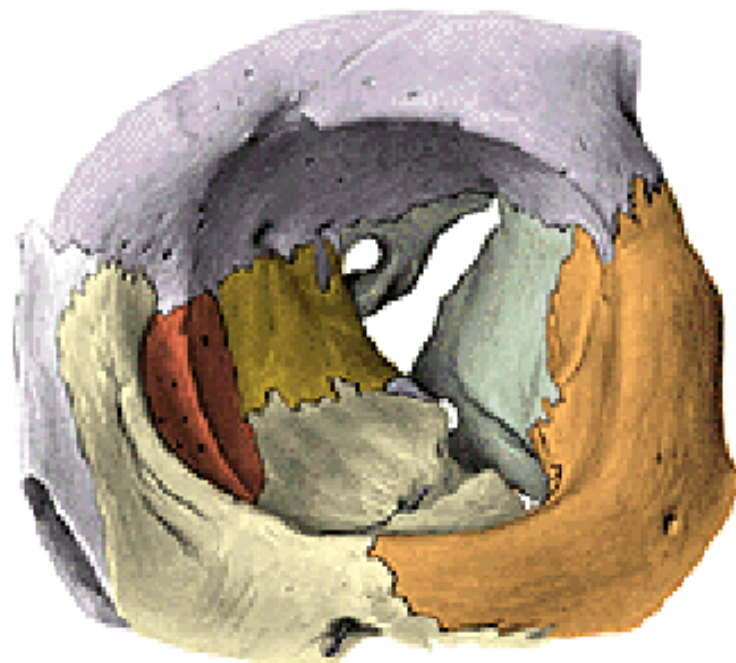
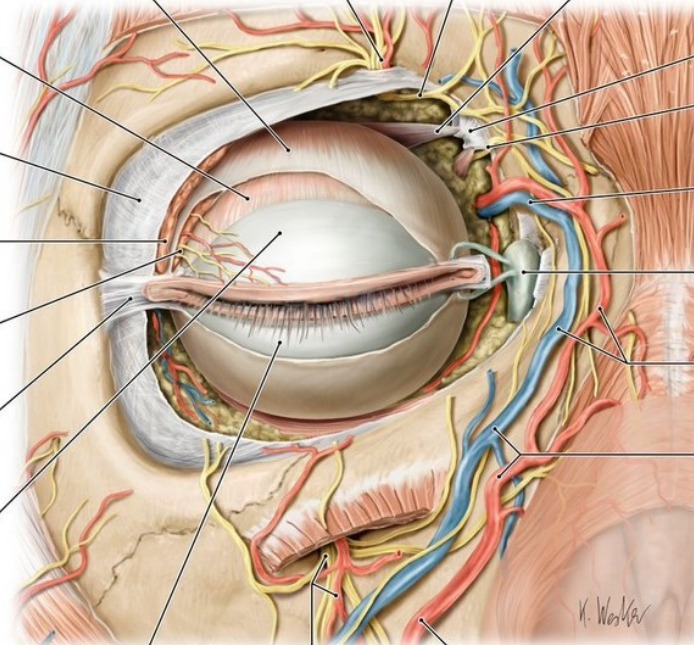
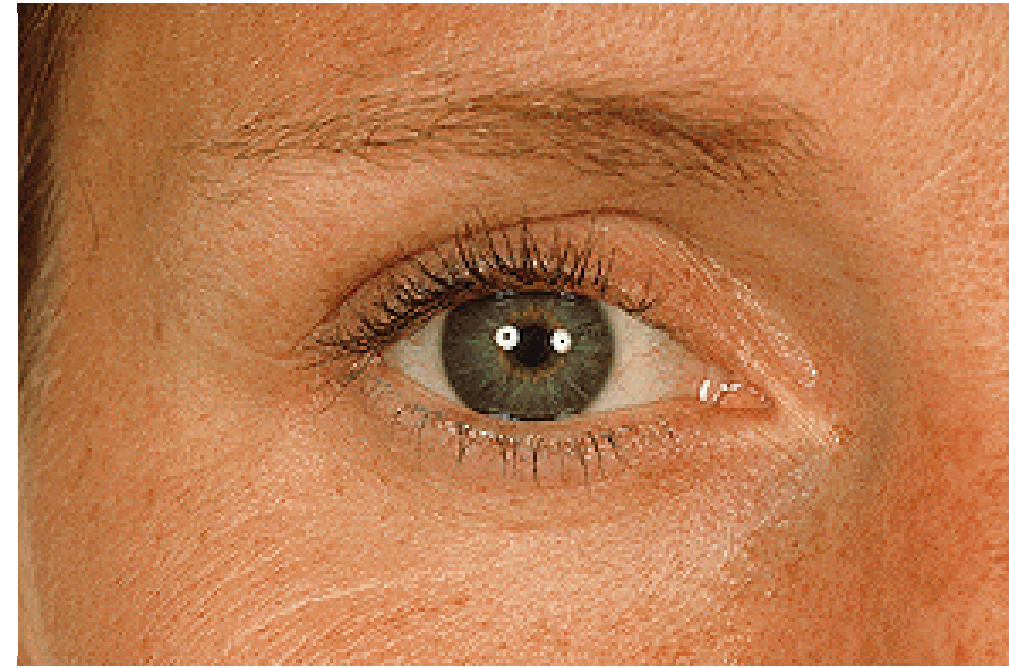
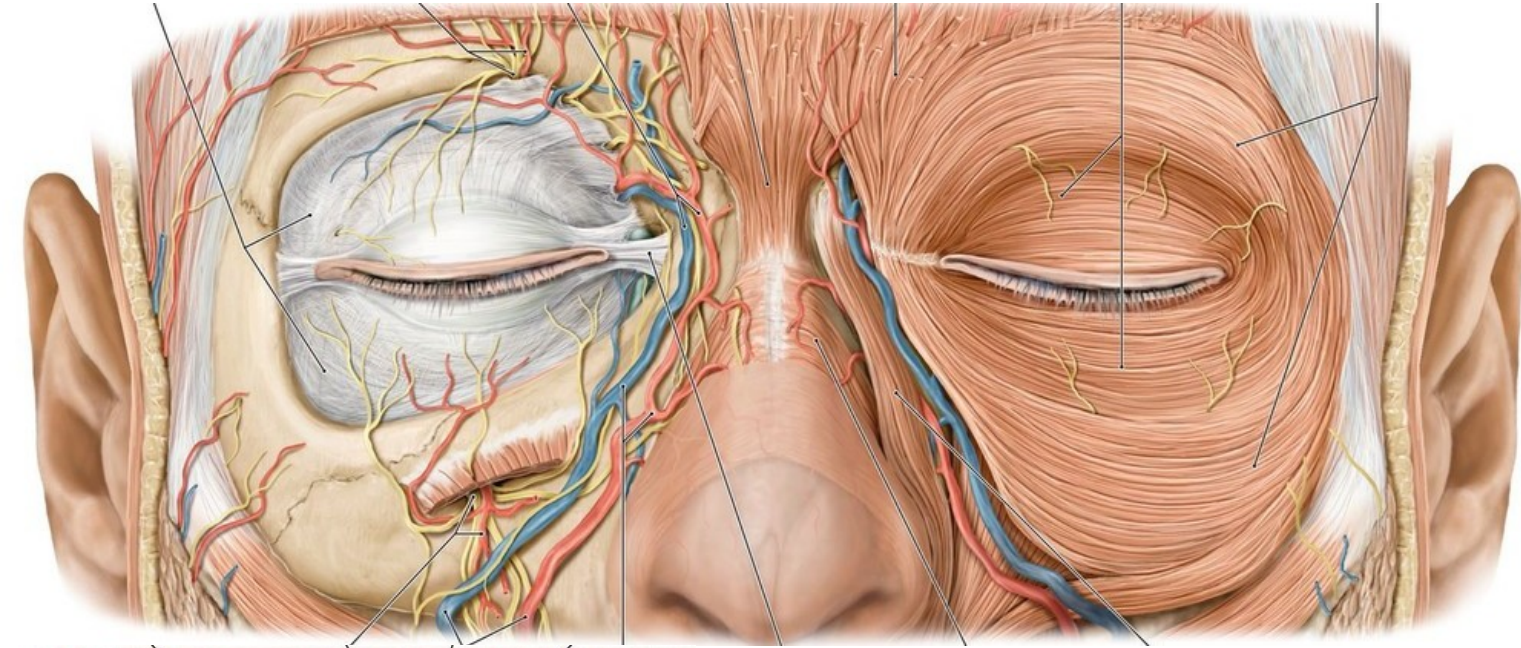




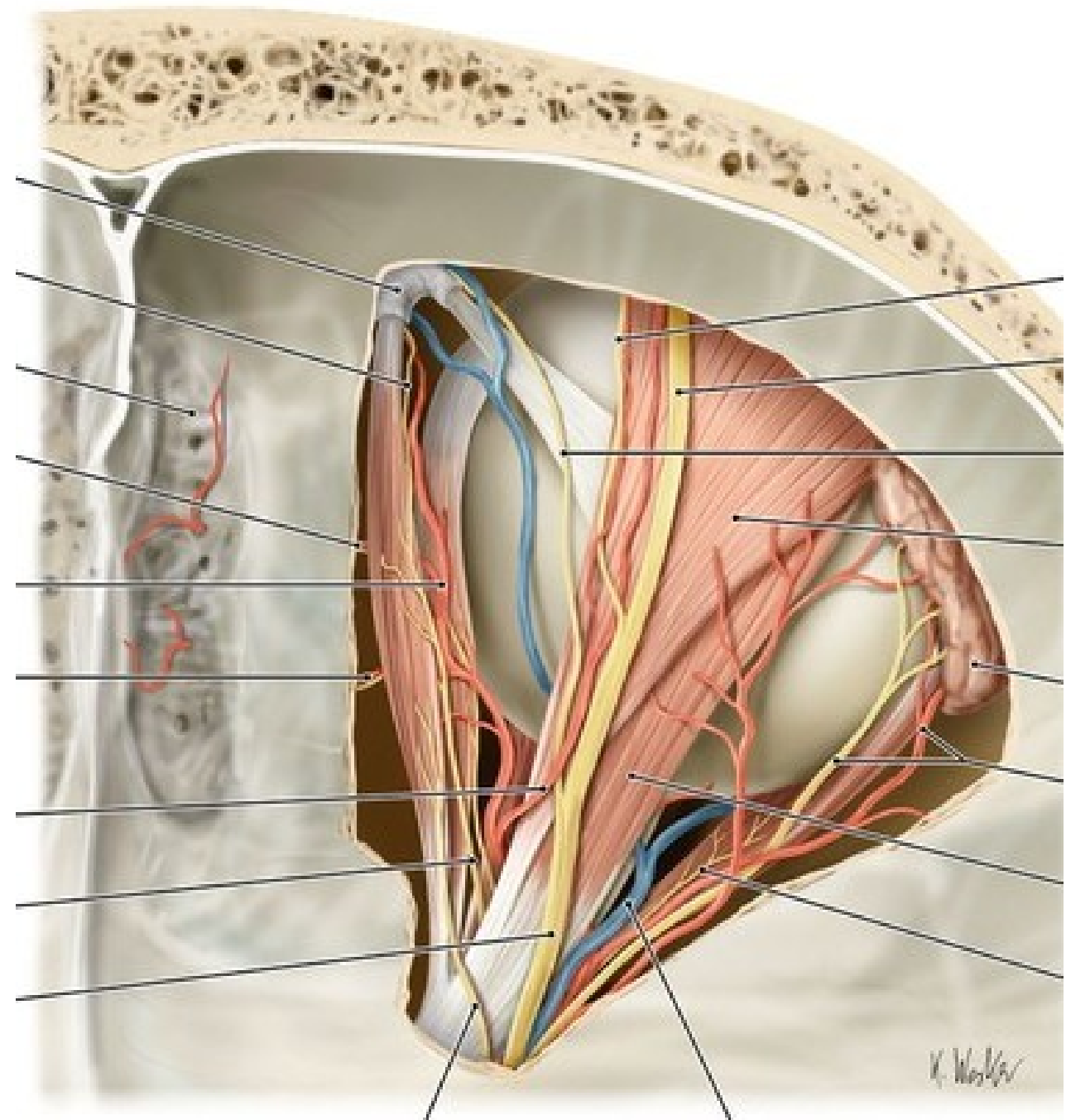
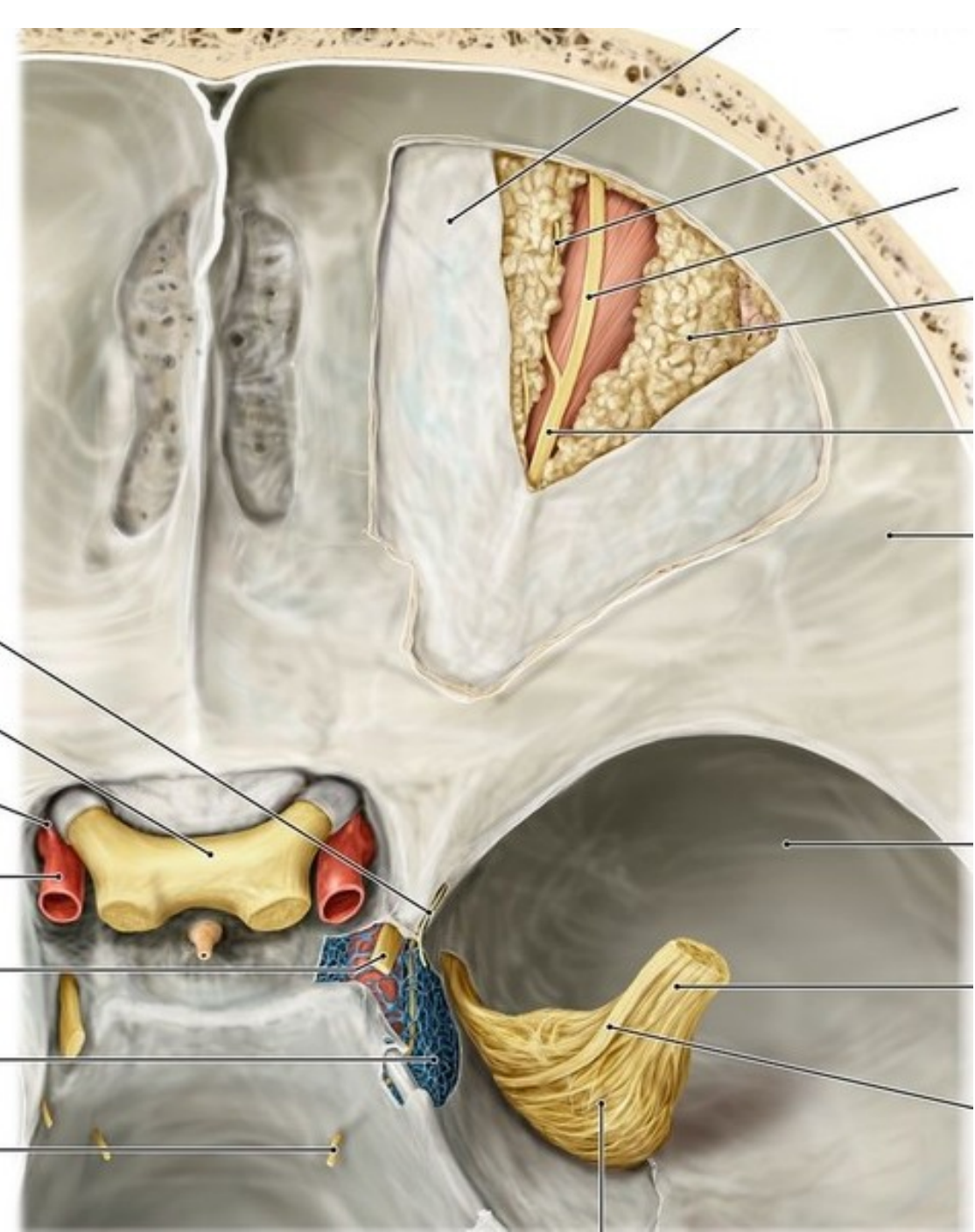




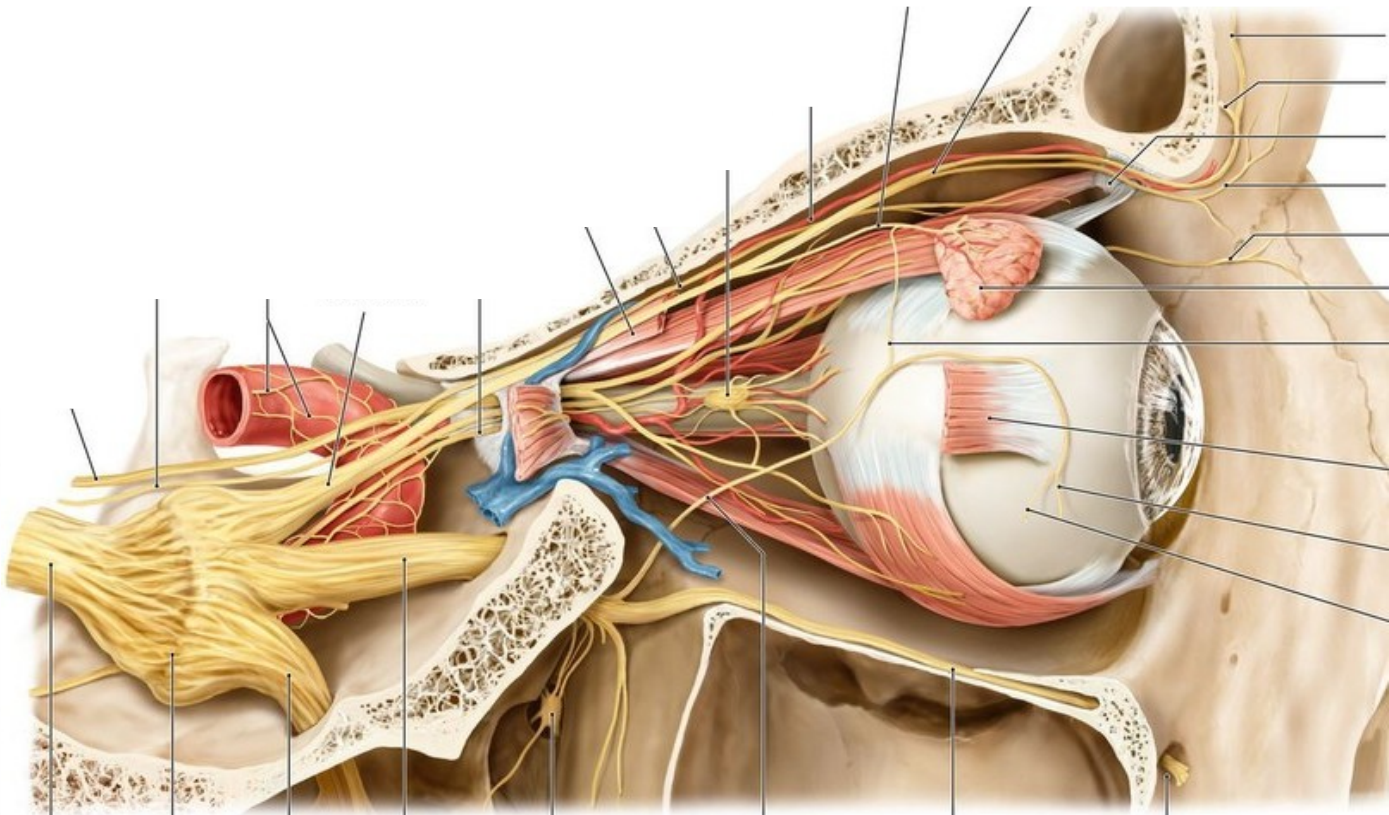
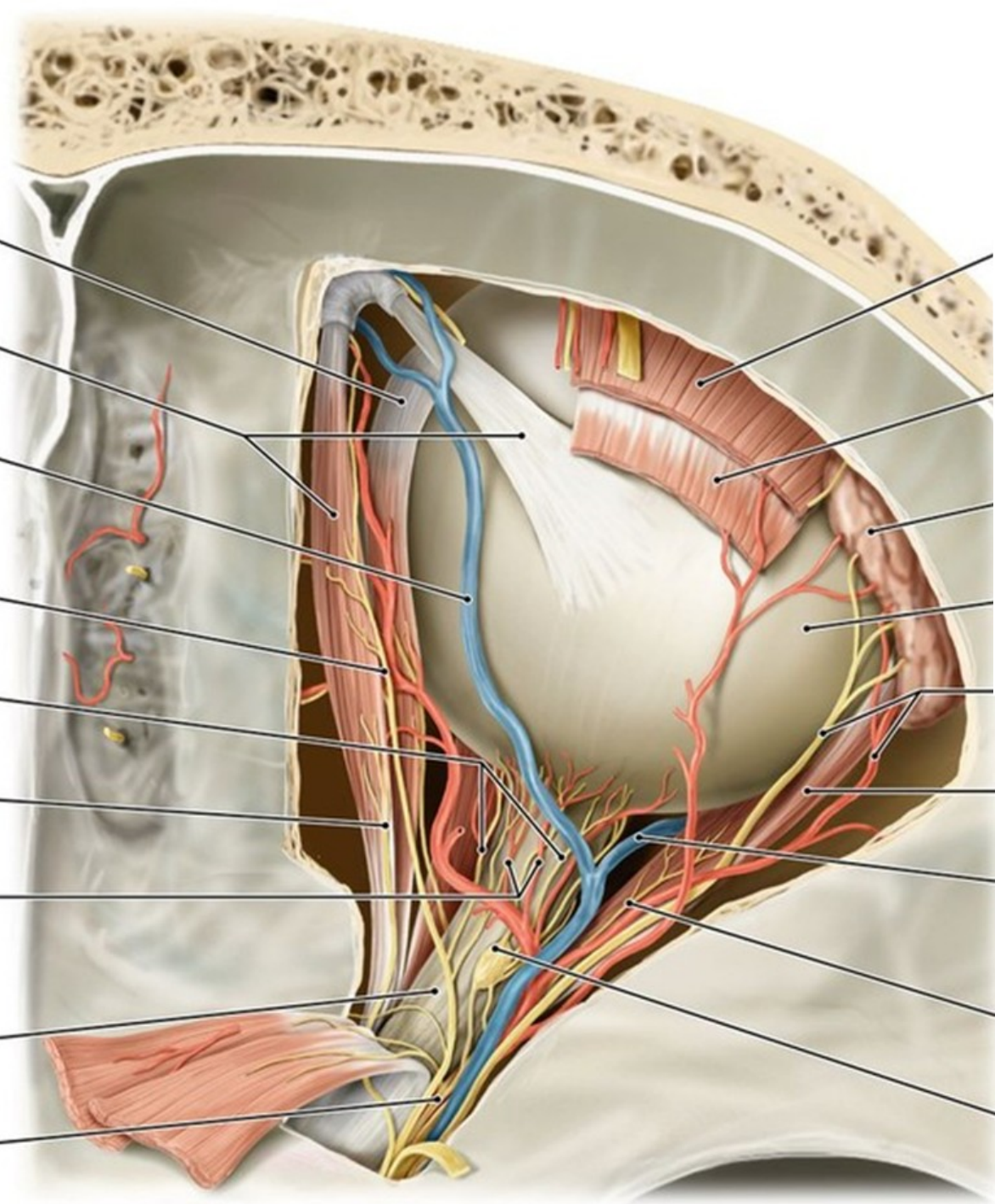
# Regio orbitalis





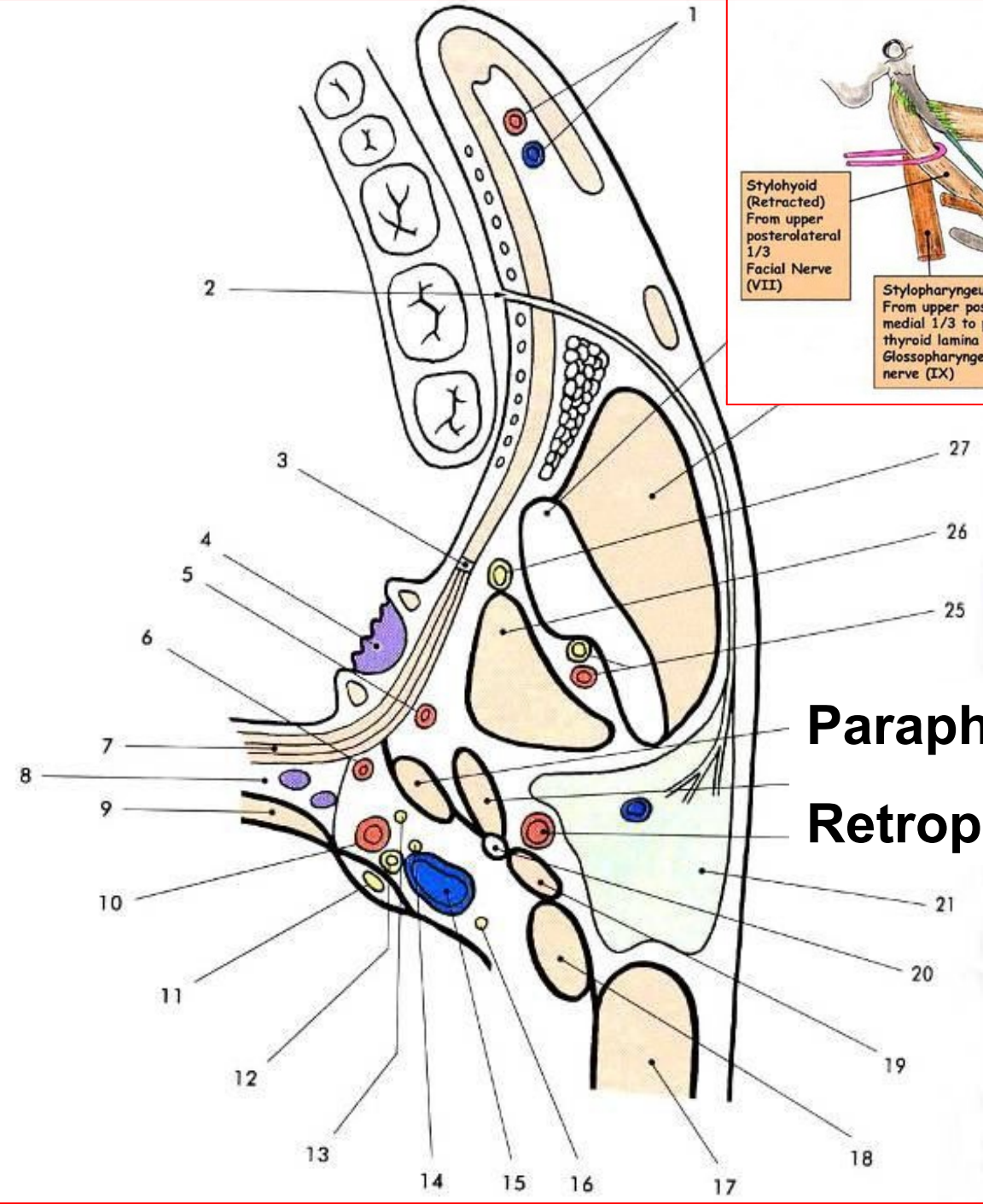
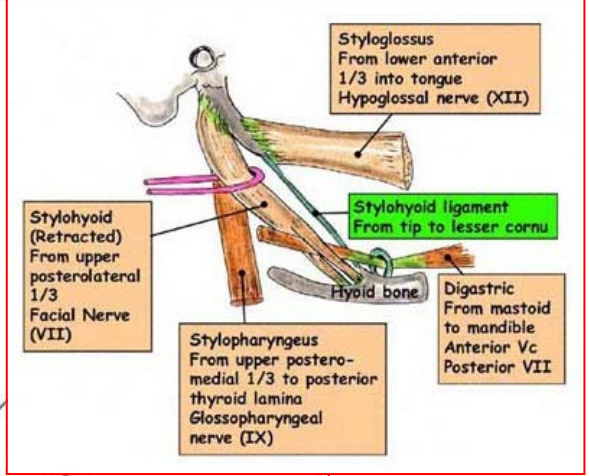
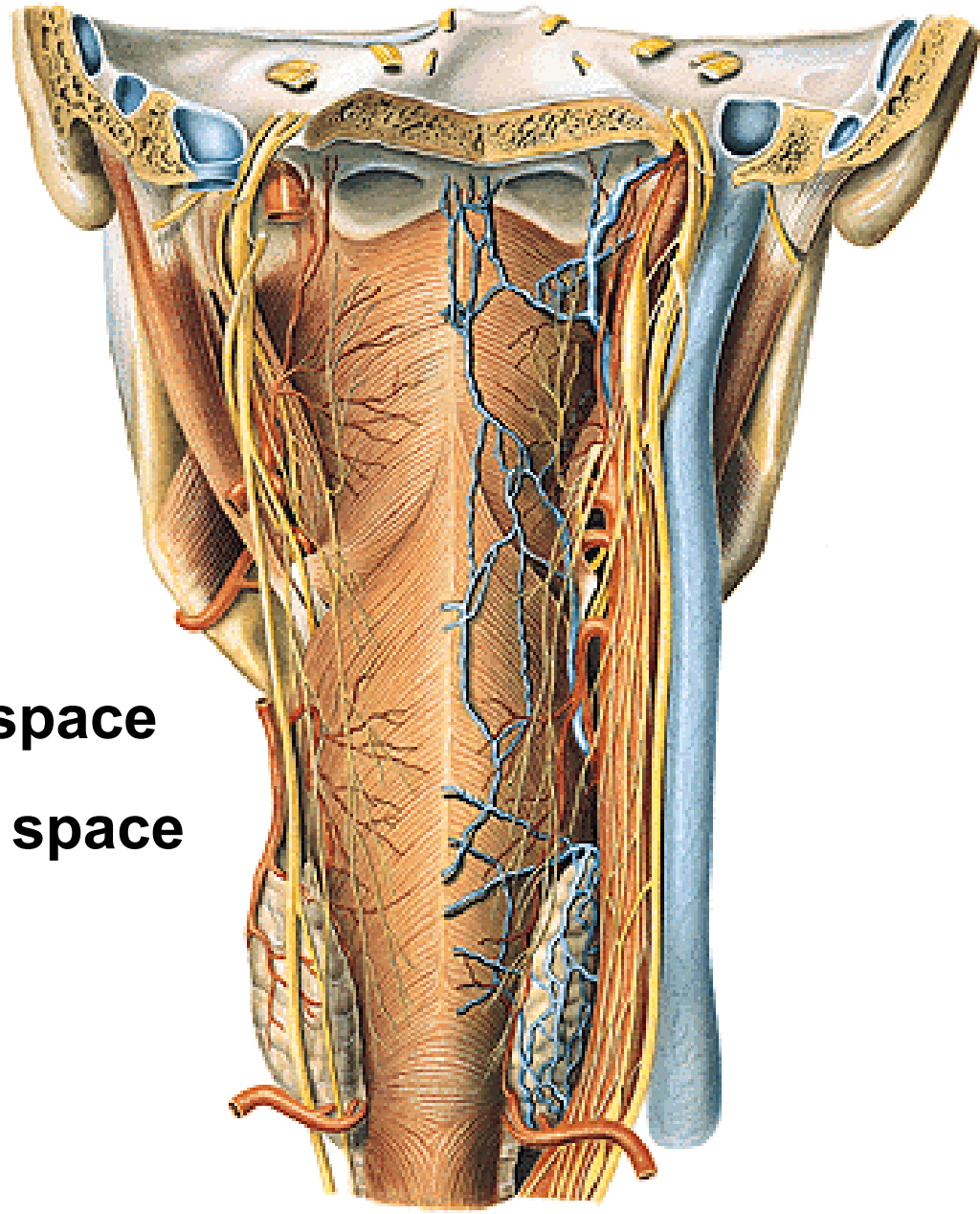






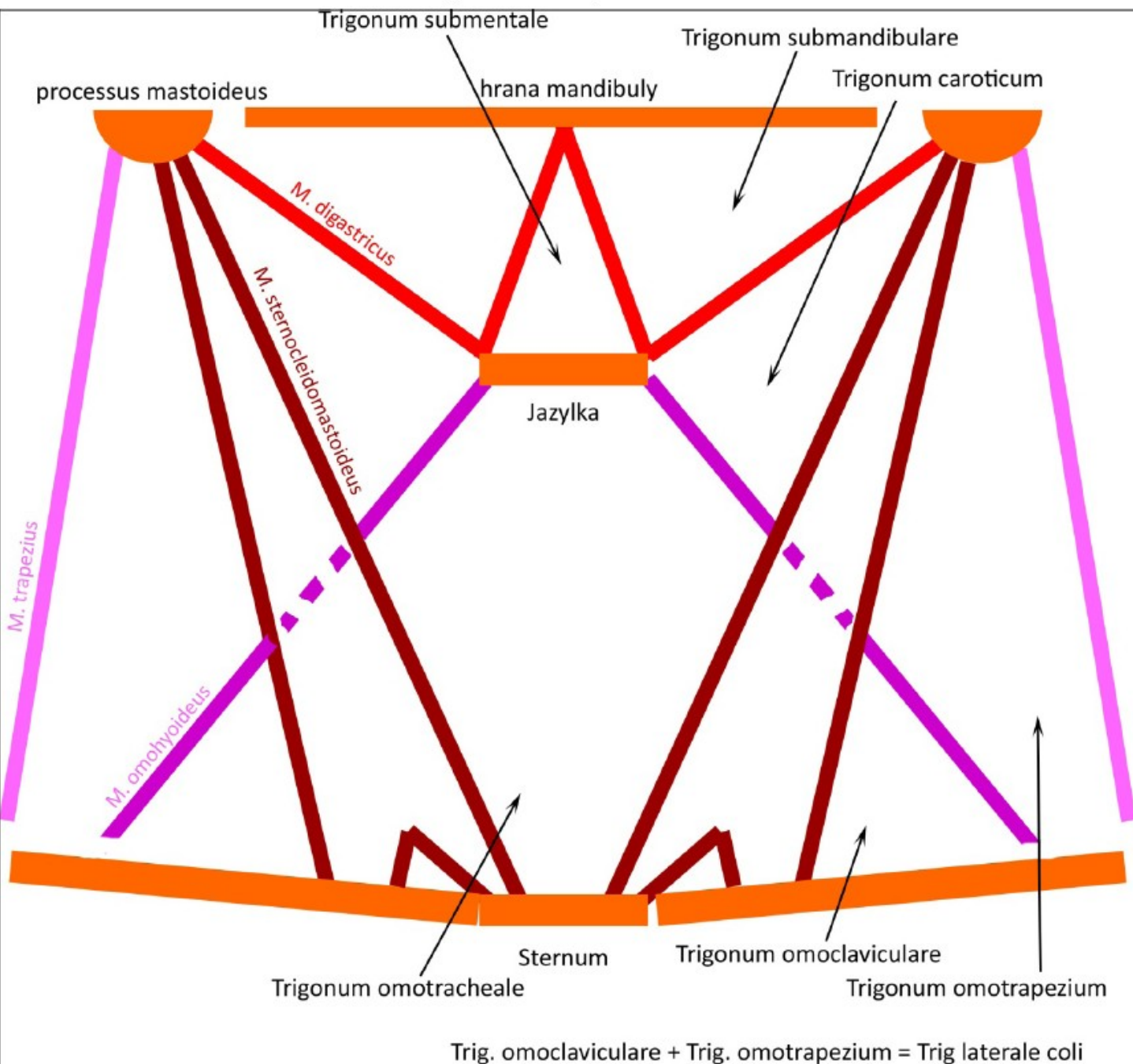


# STYLOIDNÍ SEPTUM

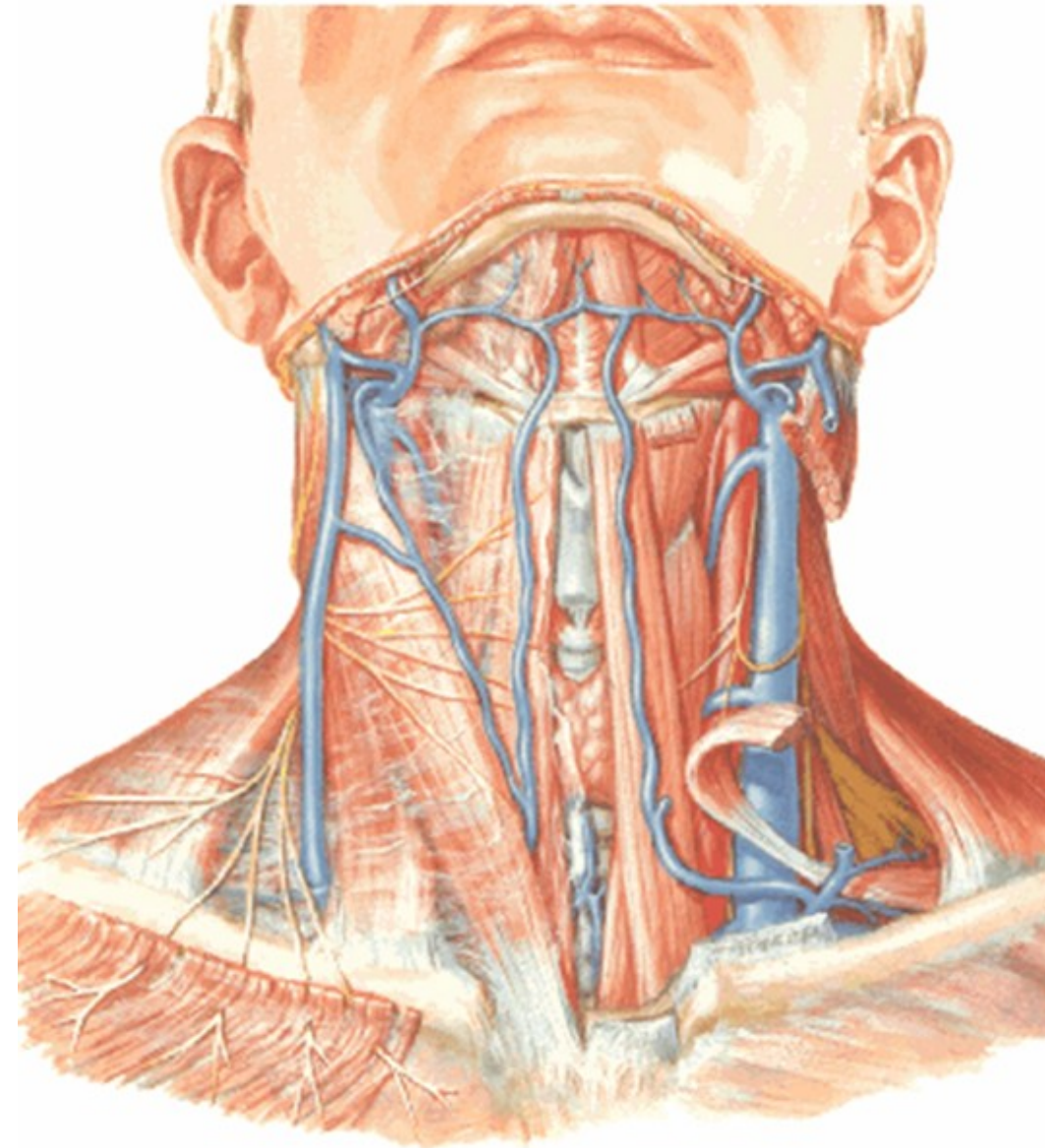


**Parapharyngeal space**  
**Retropharyngeal space**

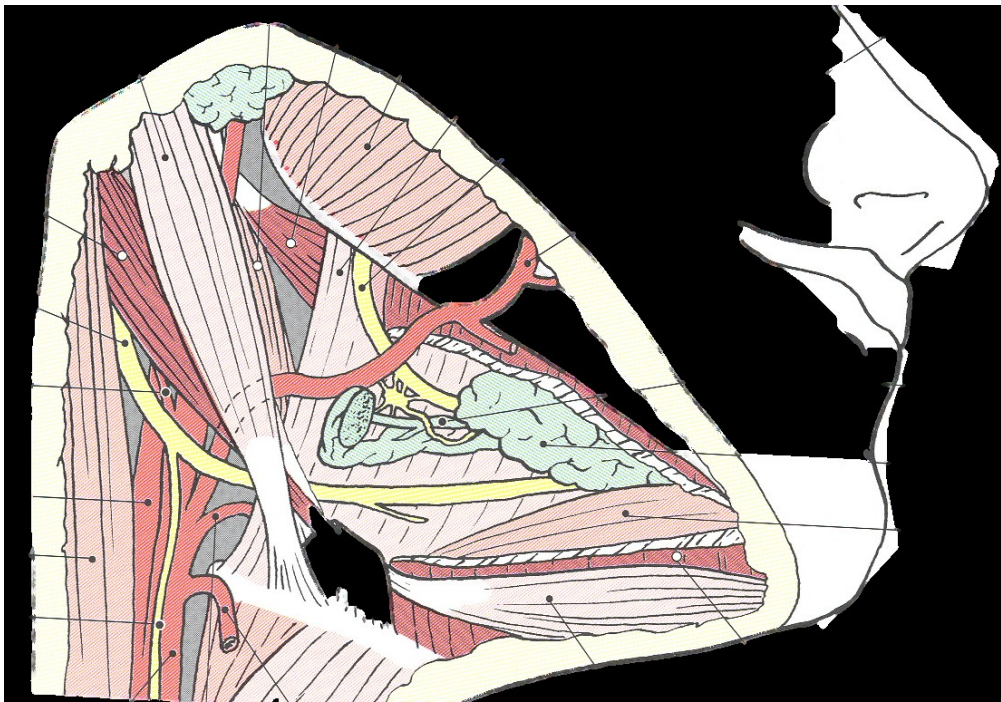
# Trojúhelníky na krku



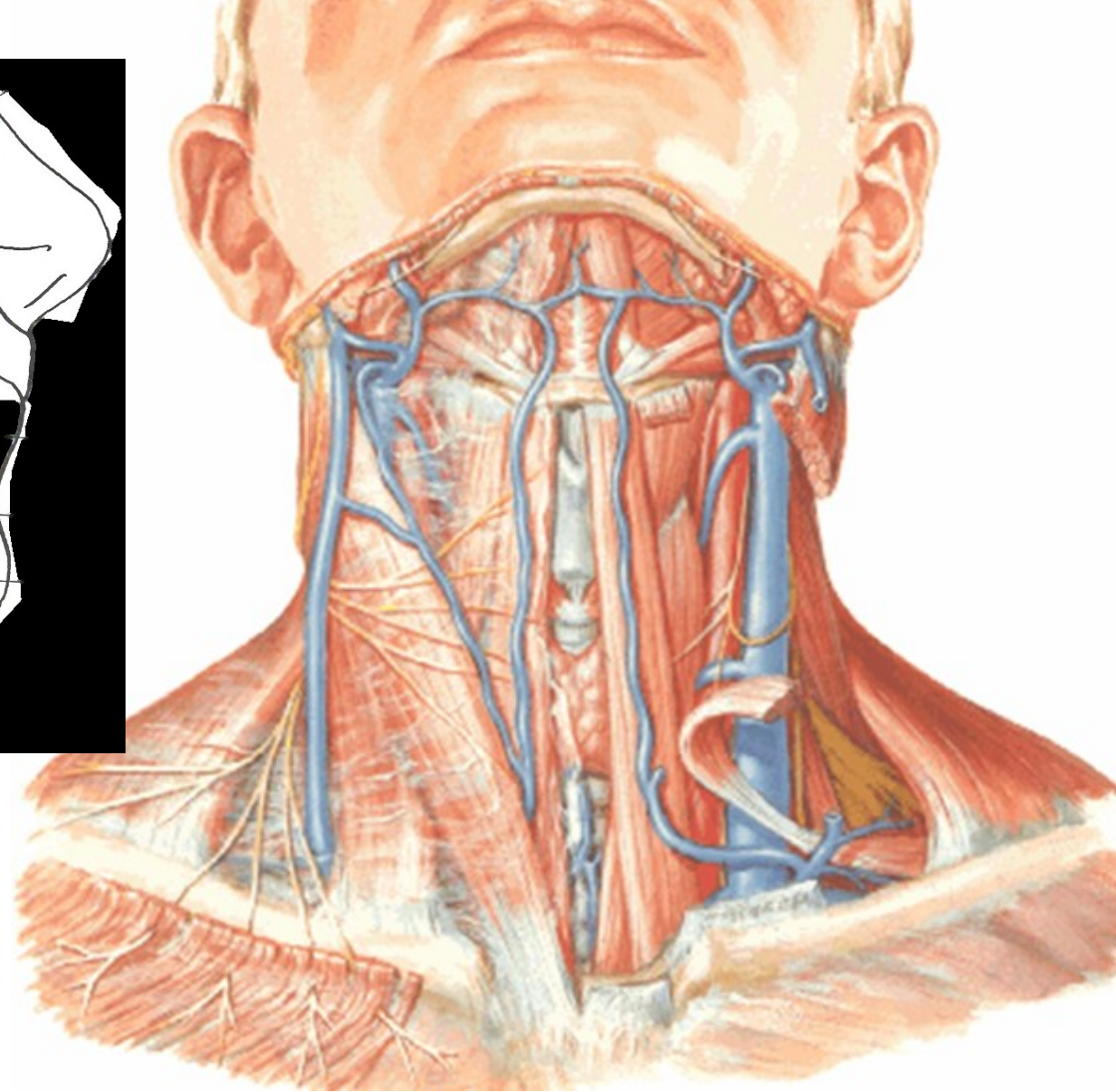
# REGIONES COLLI



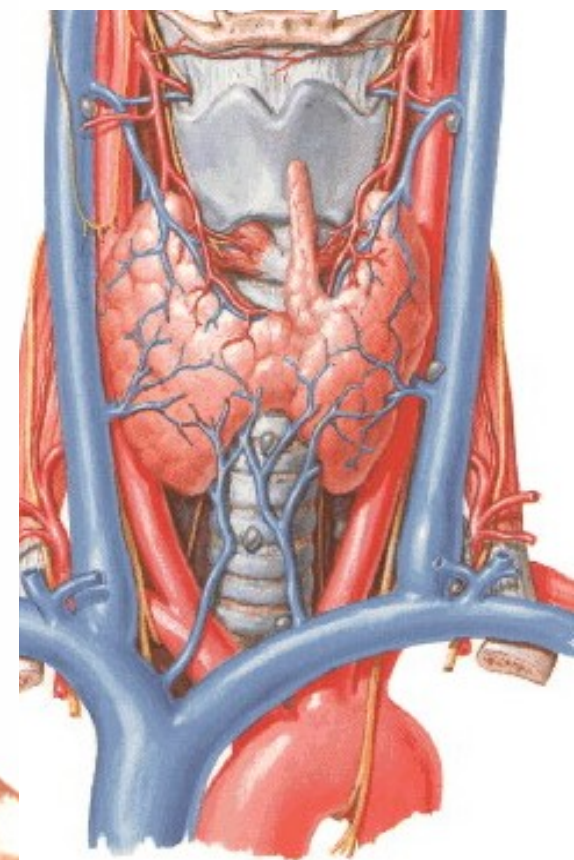




**Trigonum submandibulare**

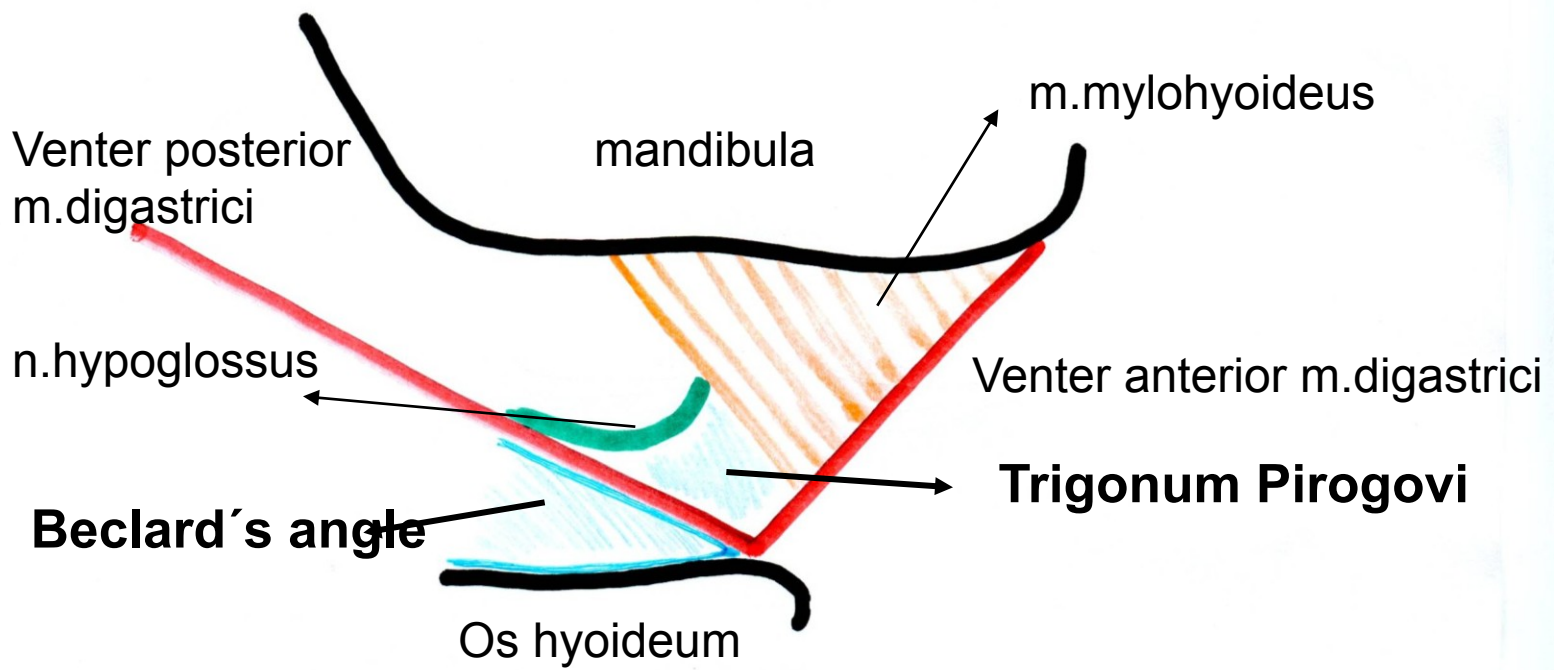
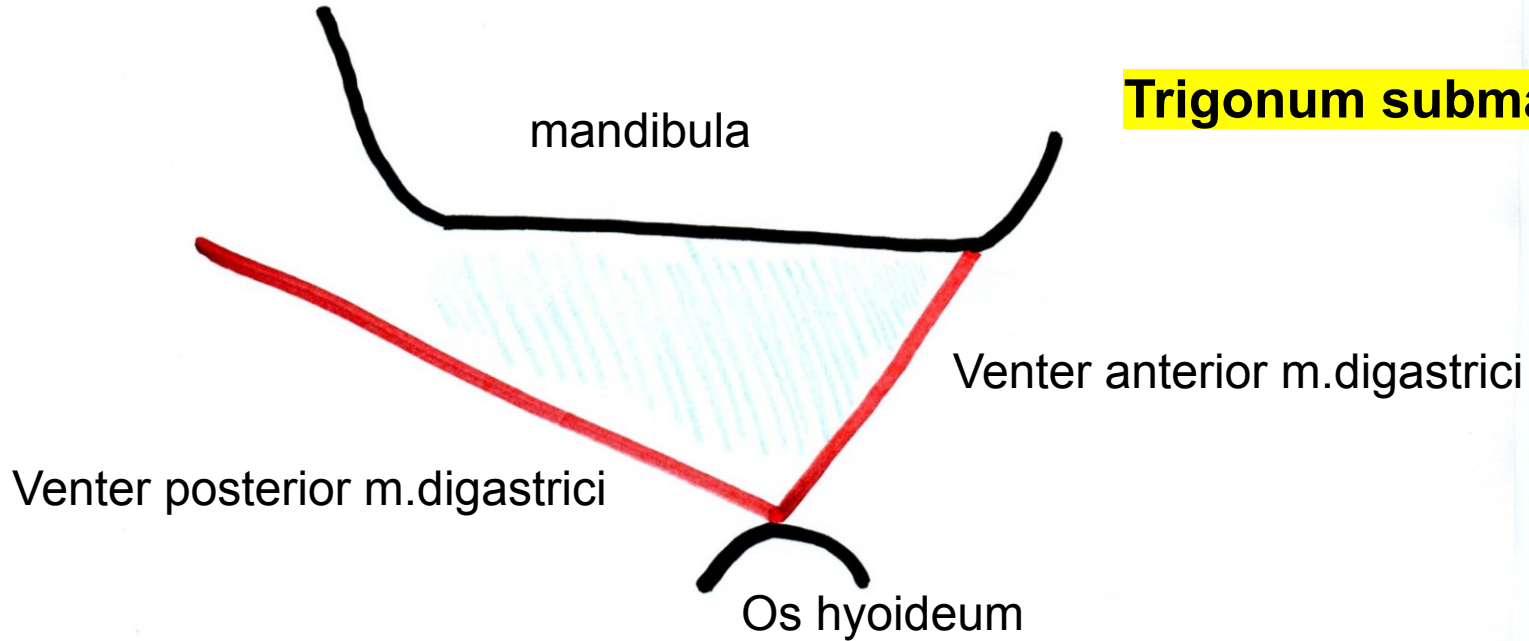


**Trigonum submentale, omotracheale**

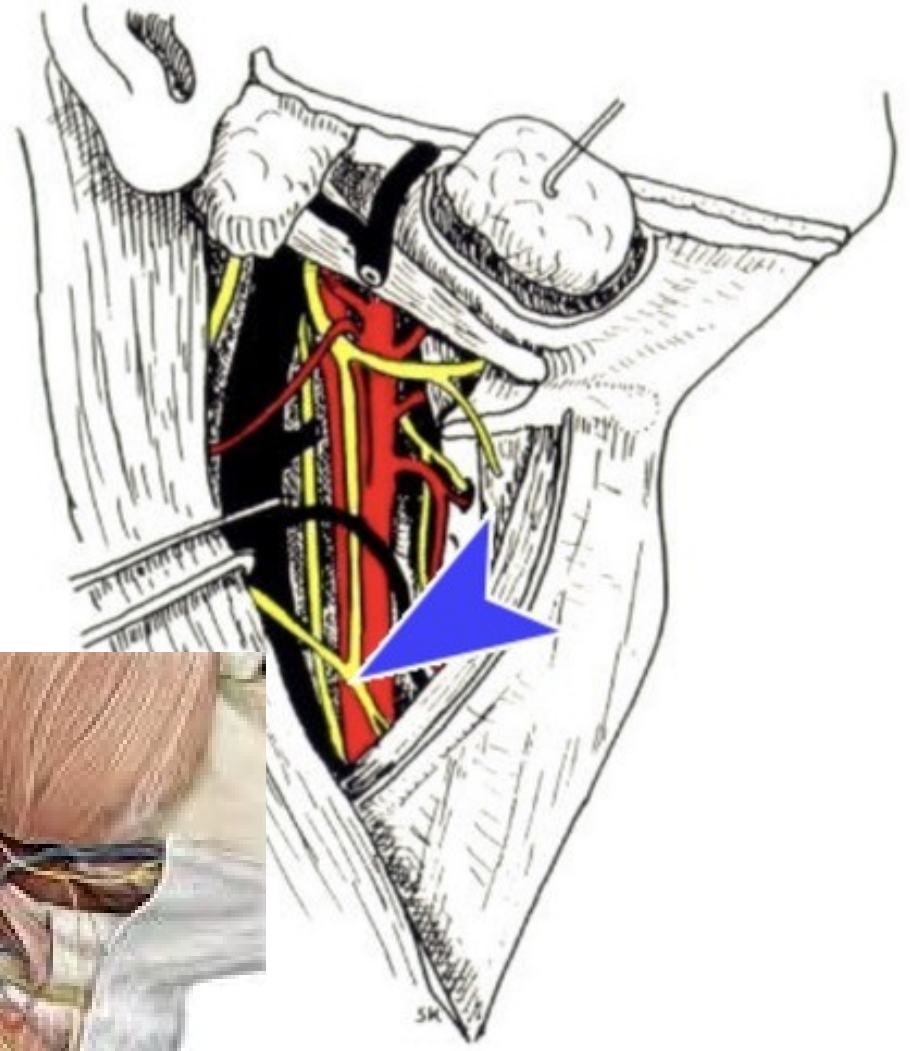
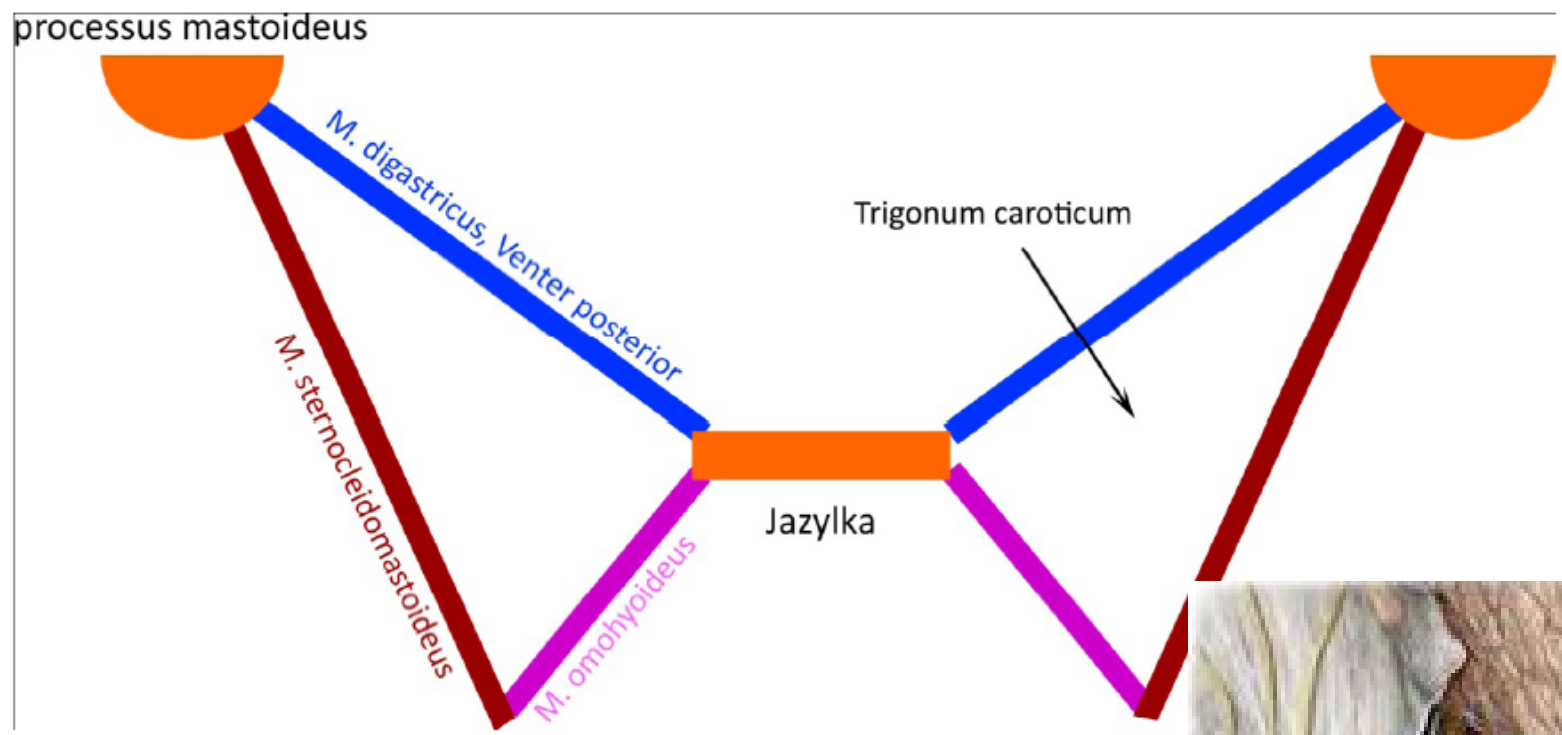




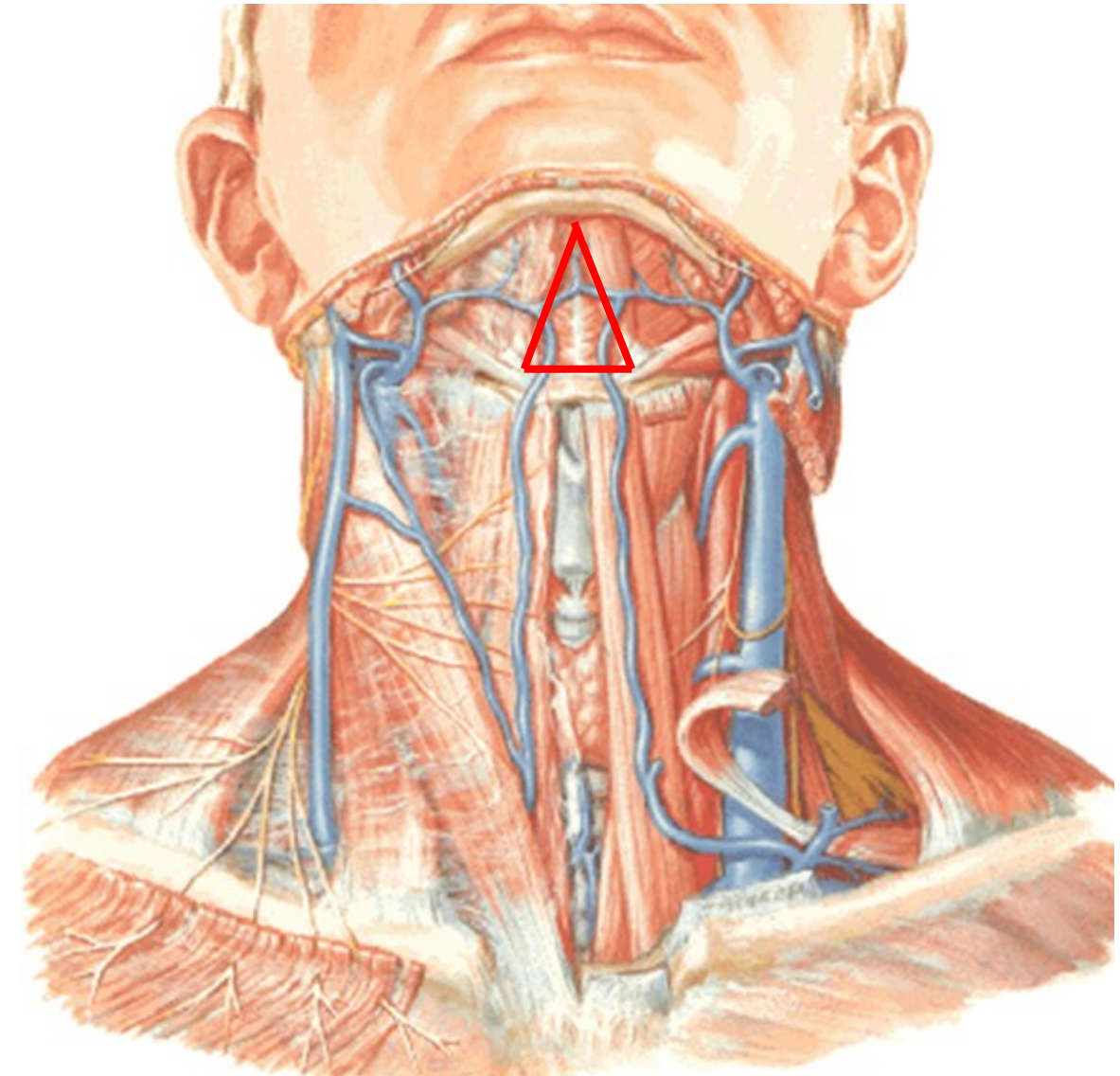
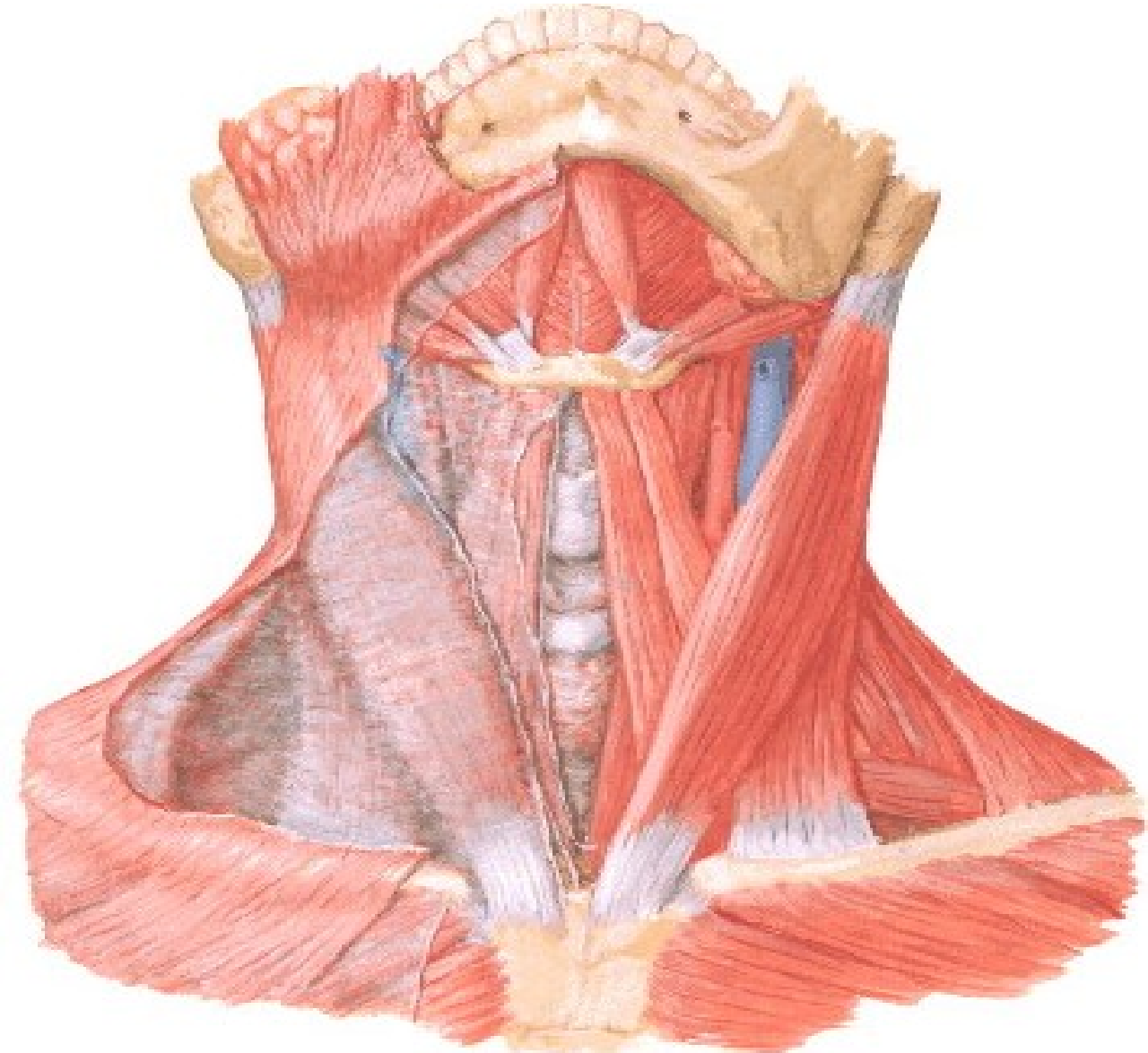
**Trigonum submandibulare**



# Trigonum caroticum

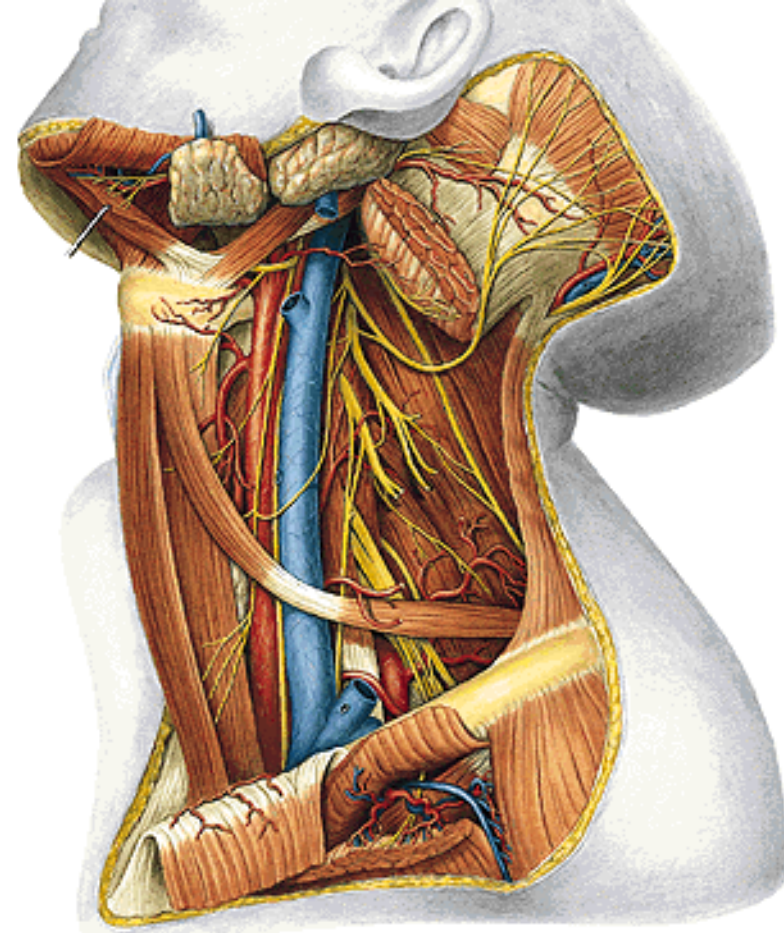
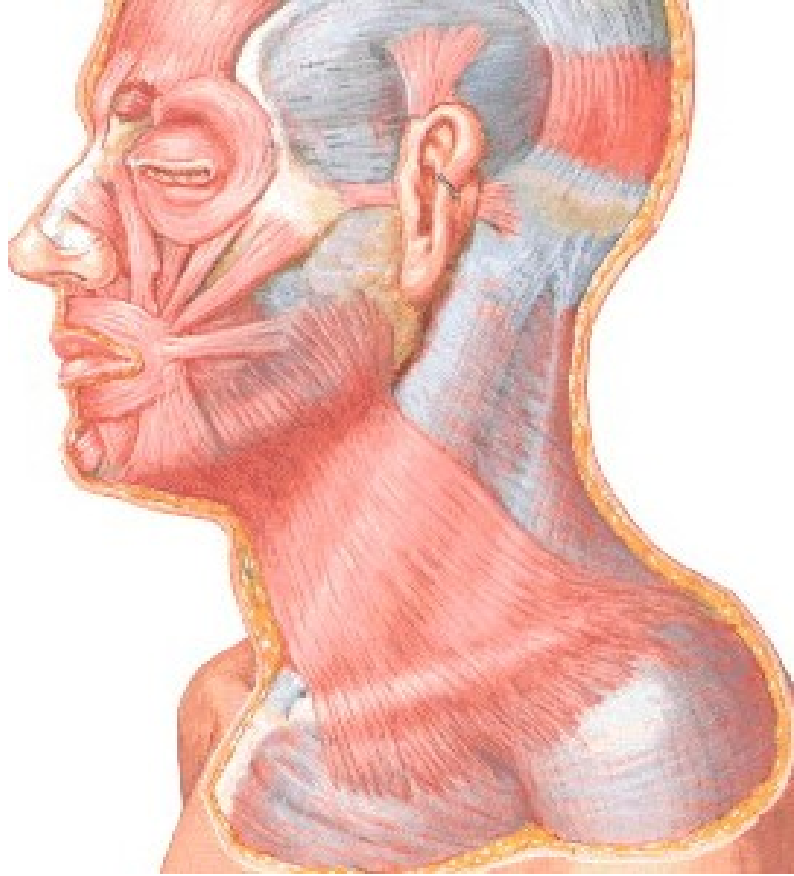


# Regio sternocleidomastoidea

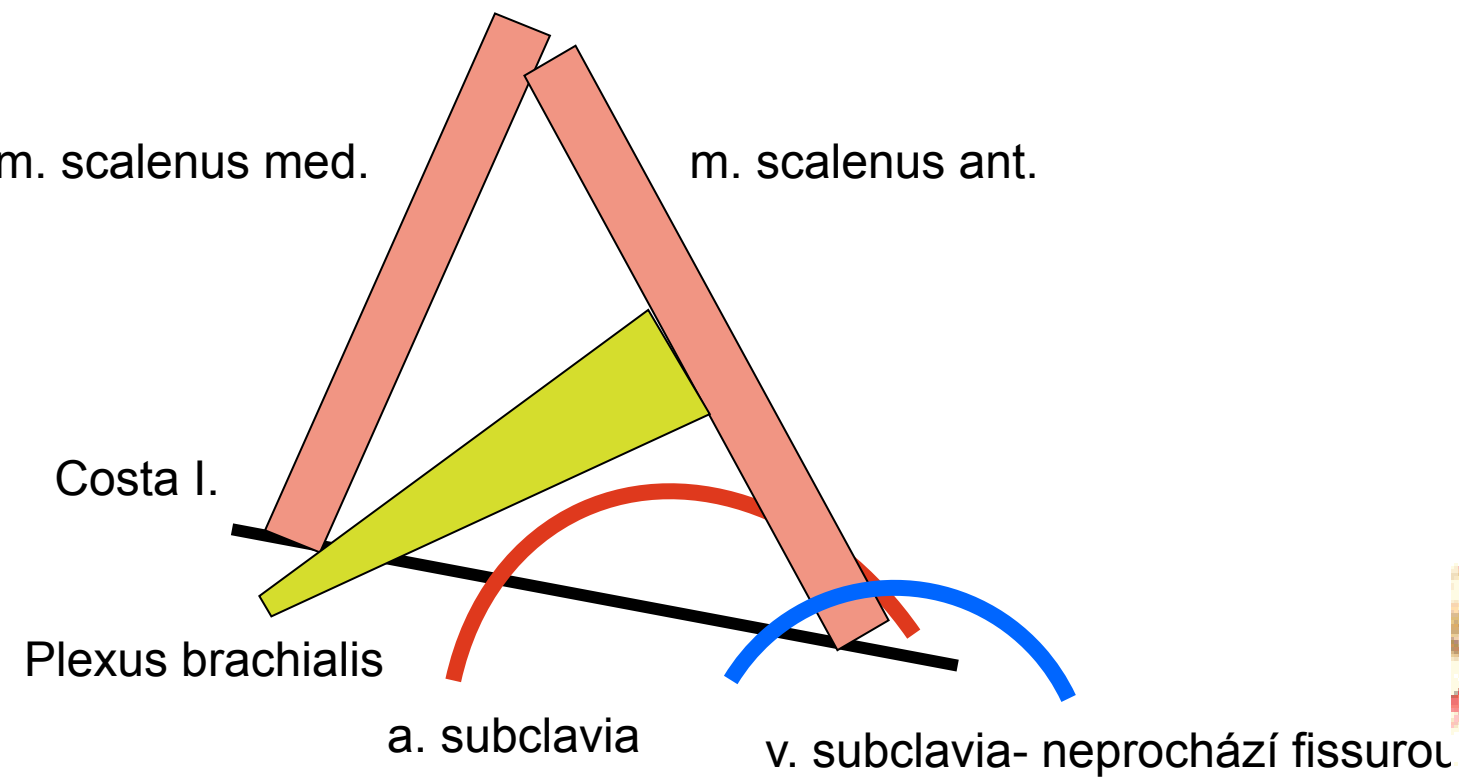




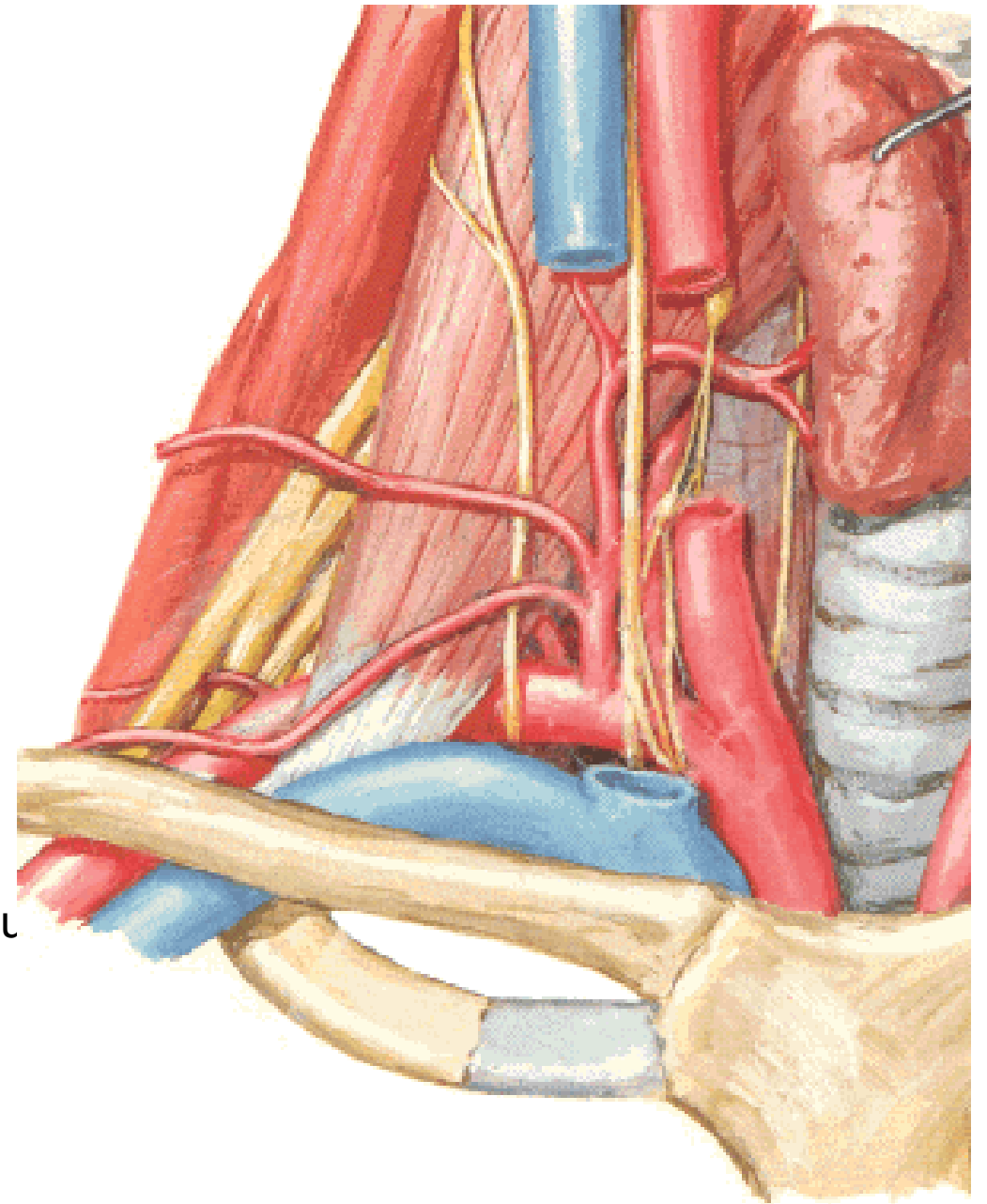
## Regio colli laterale



# Fissura scalenorum



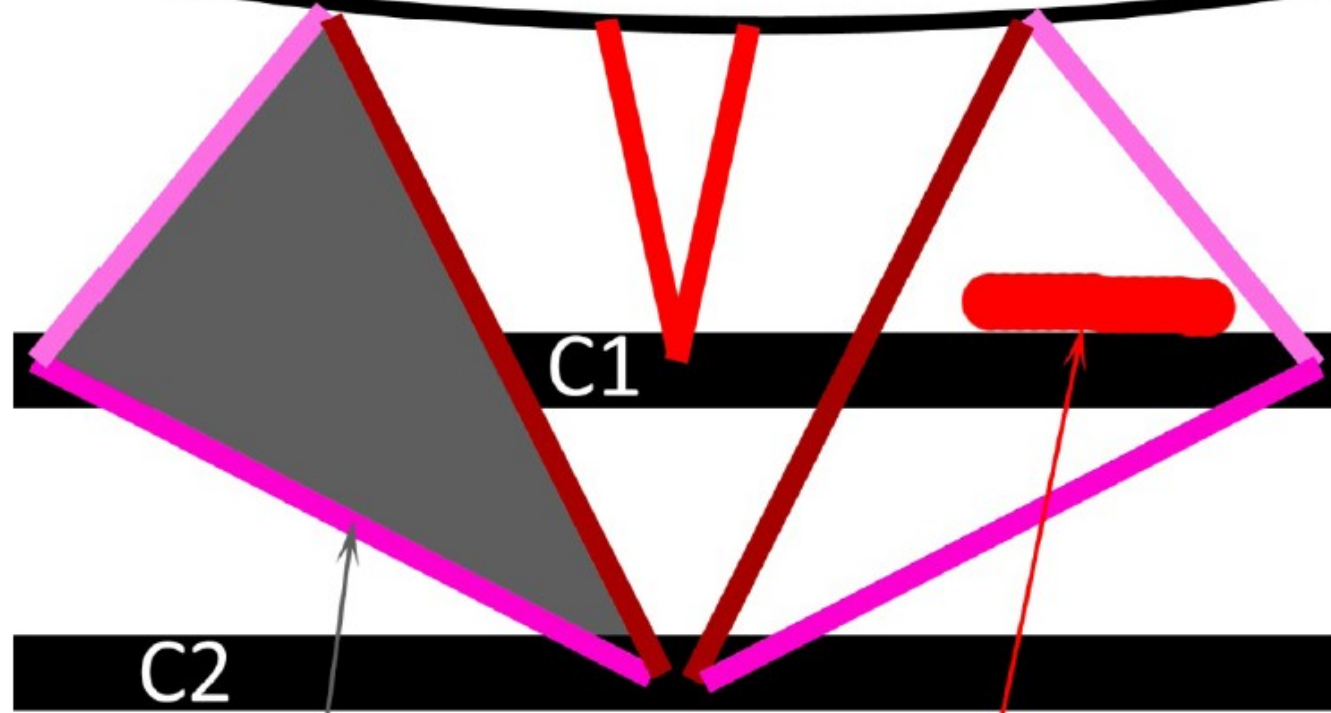
# Trigonum scalenoverterale





# Trigonum suboccipitale

Linea nuchae inferior



C1

C2

Trigonum suboccipitale

Arteria vertebralis

