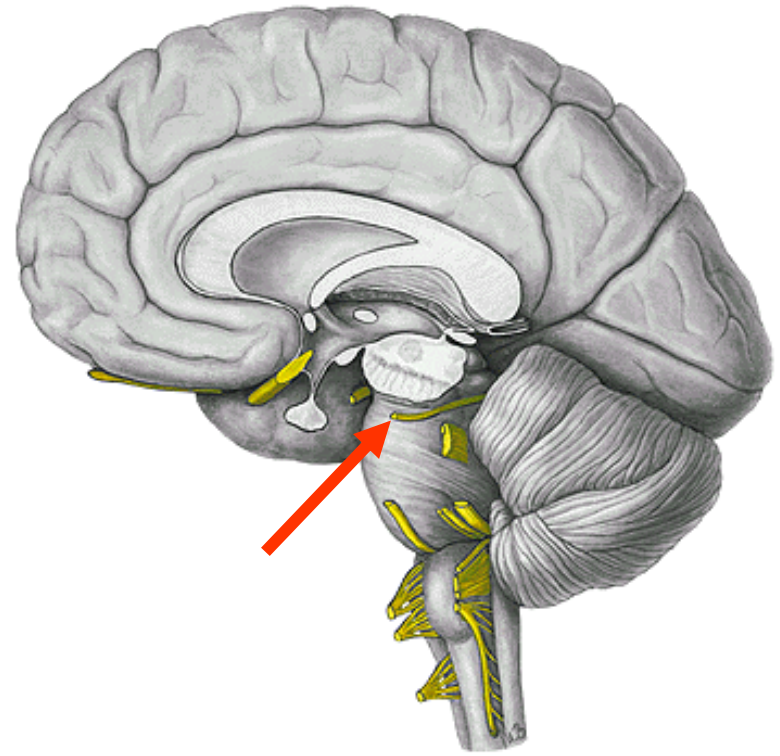
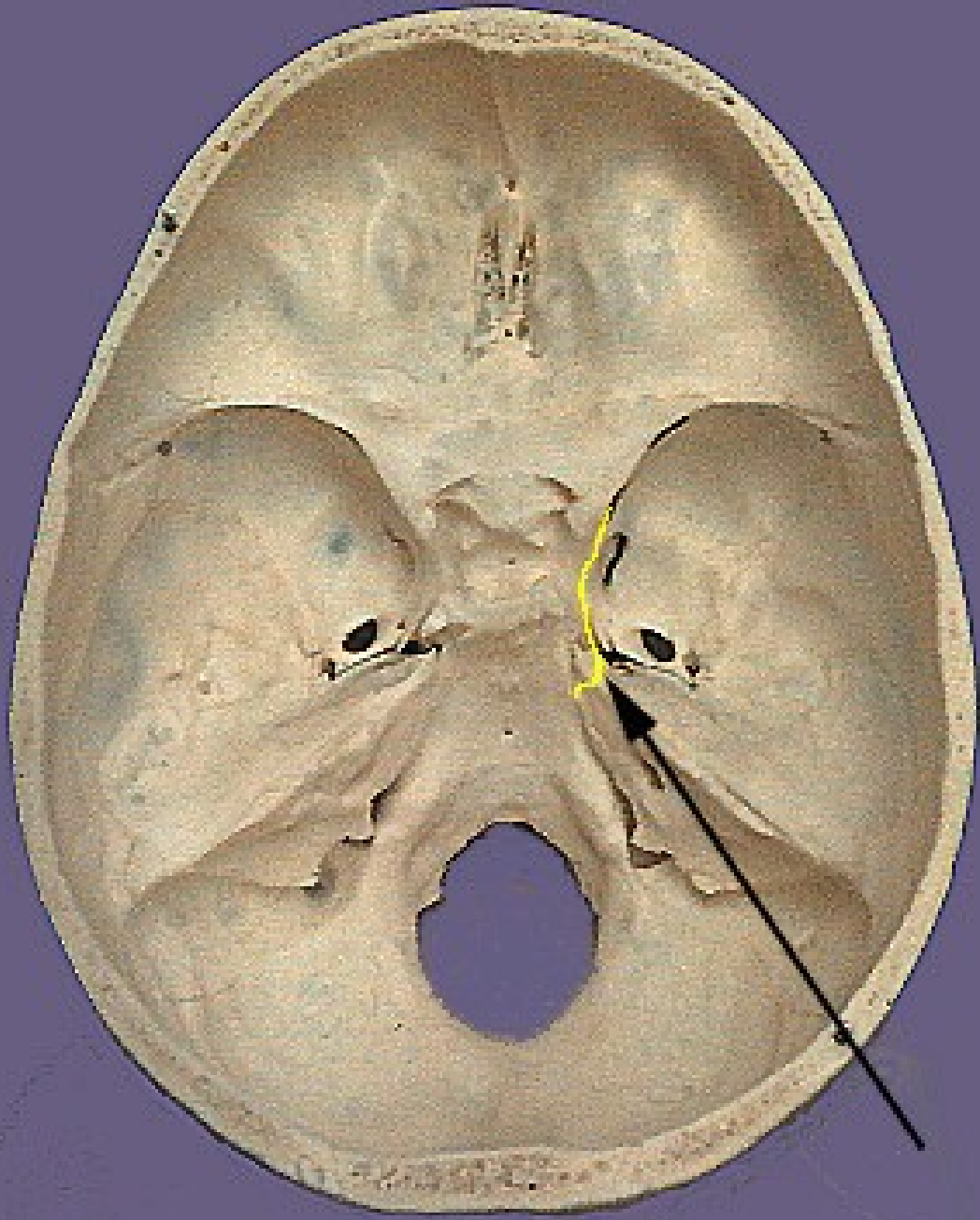
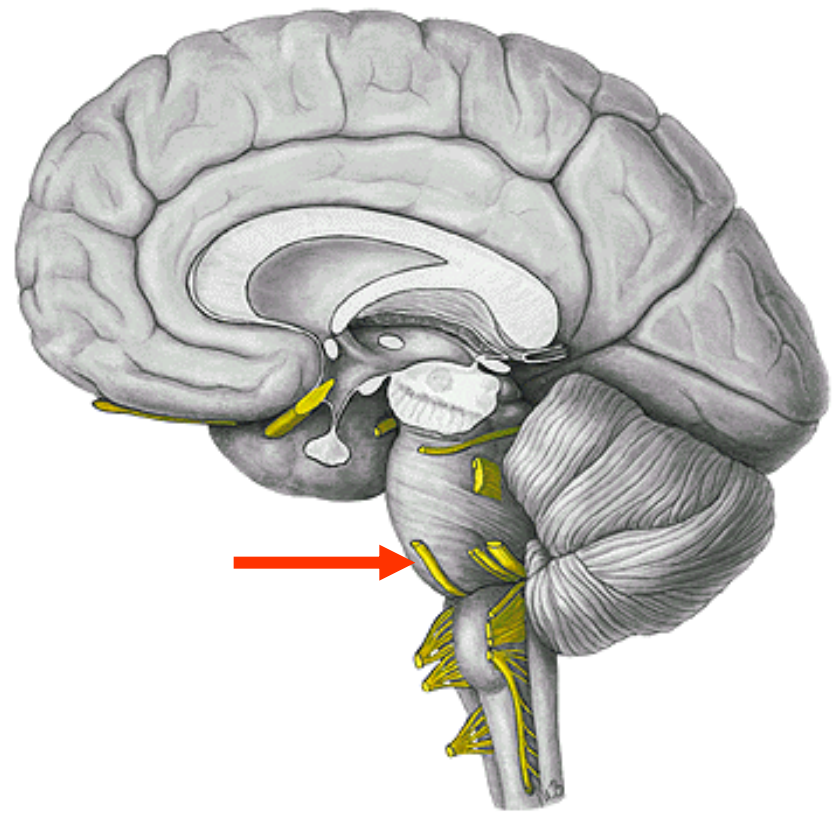
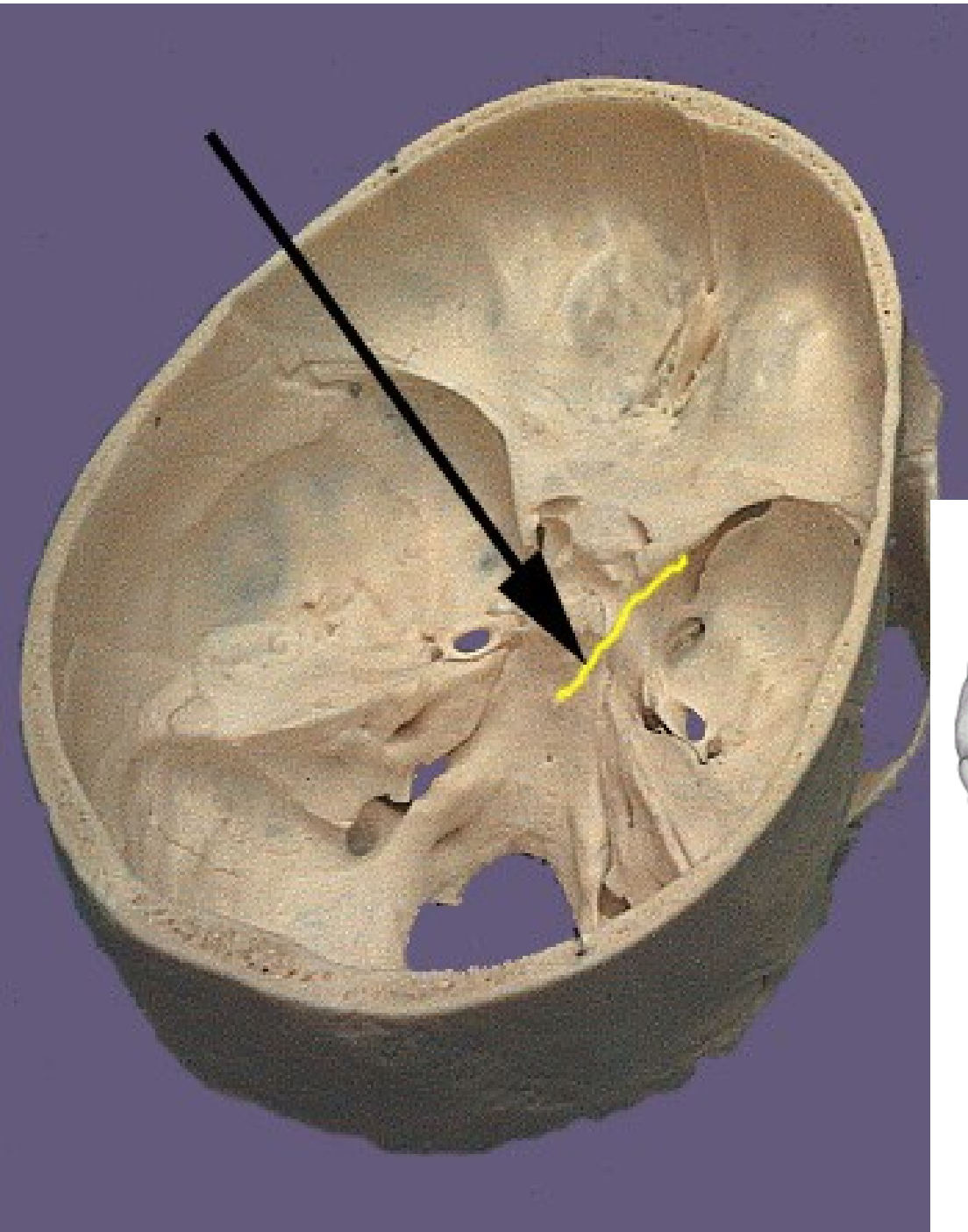


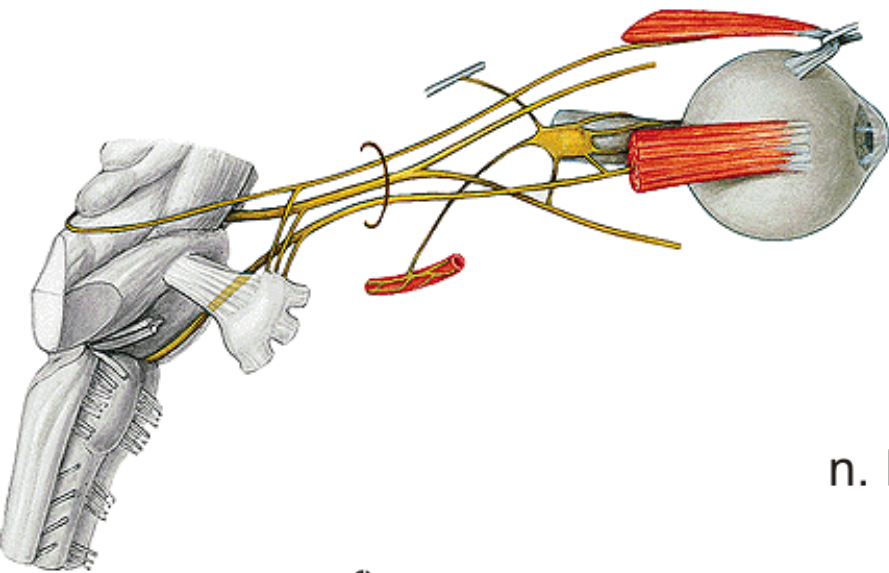
n.III.



n.IV.

n.VI.





Inervační oblasti n. III:

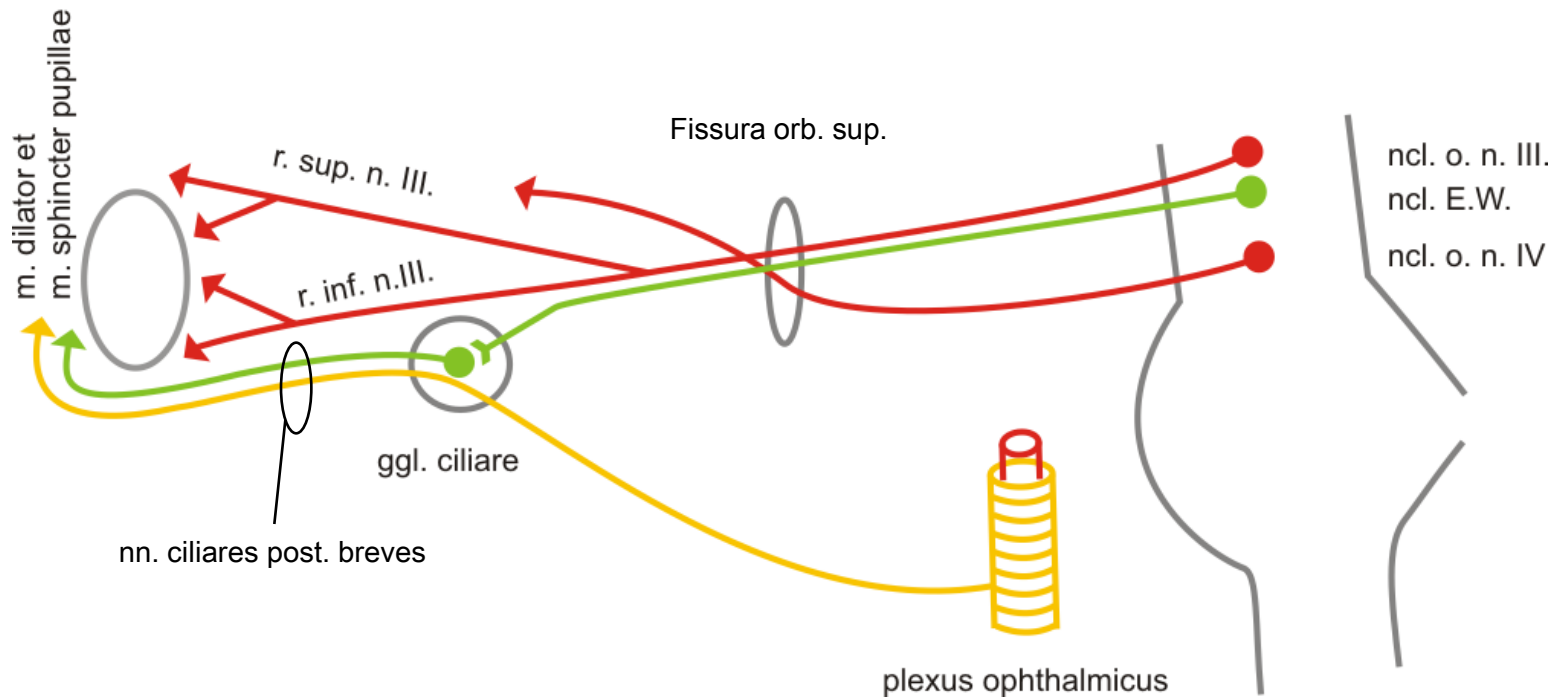
mm. recti orbitales mimo
m. rectus lat.

m. levator palpebrae sup.

m. obliquus inf.

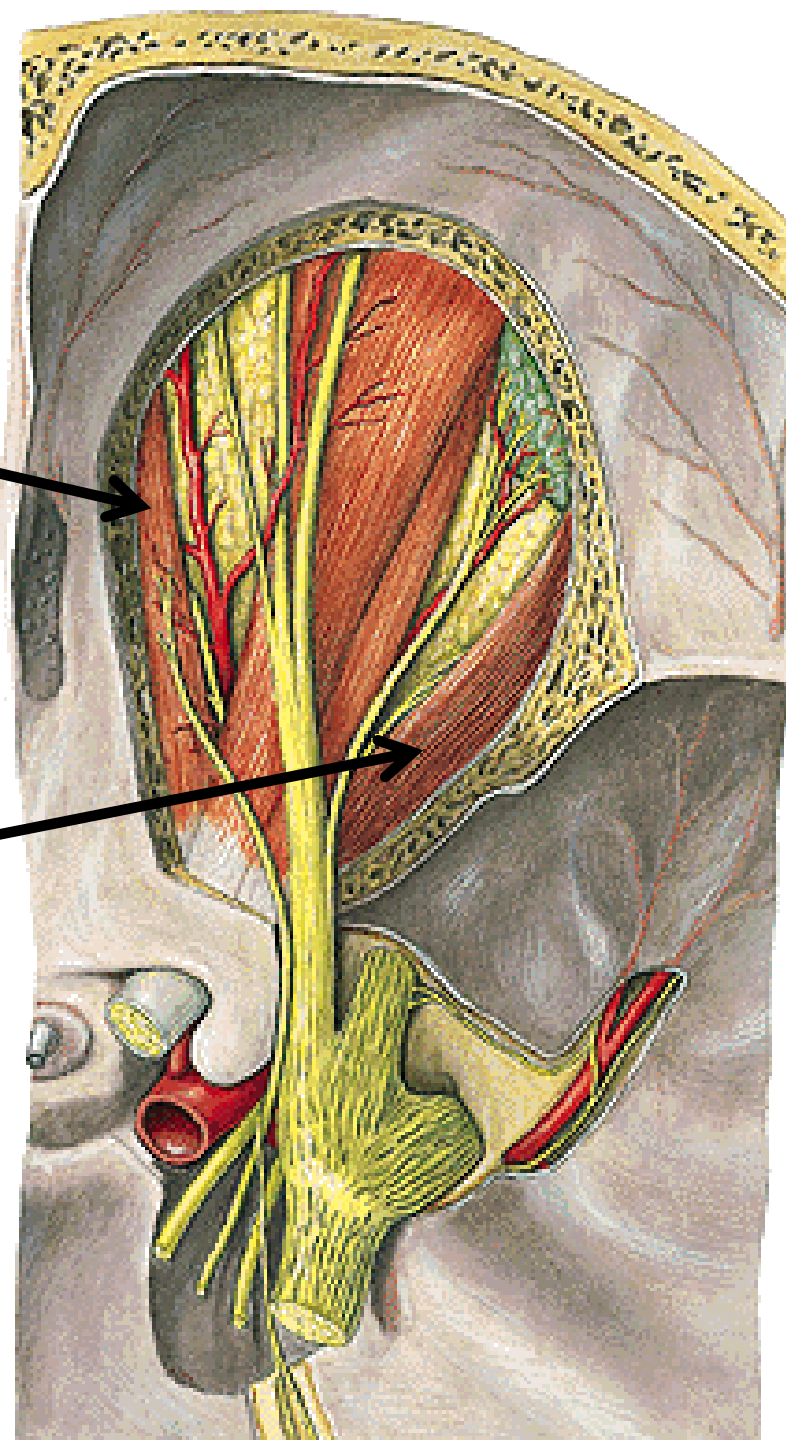
m. dilator (symp.) et sphincter pupillae
(parasymp.)

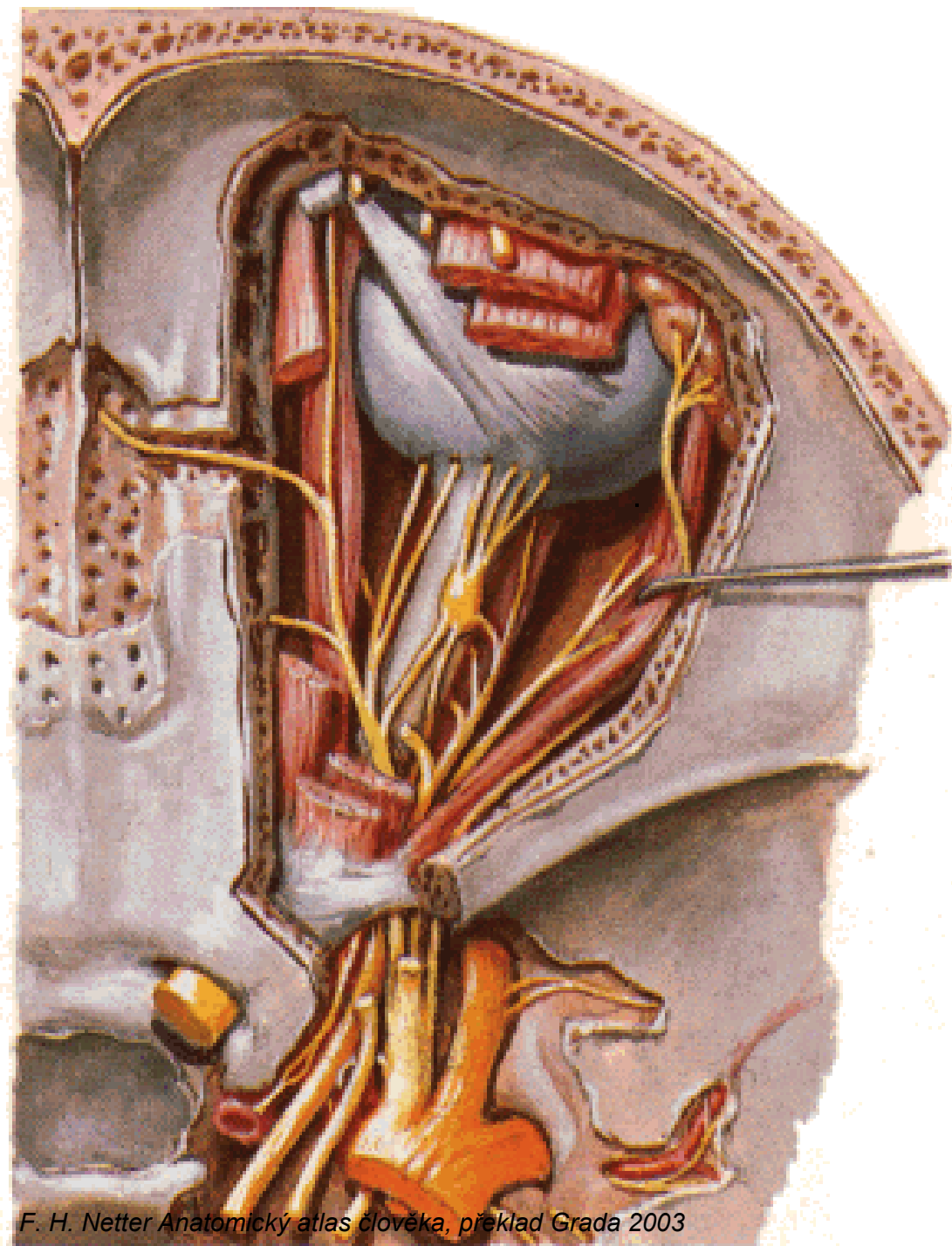
n. III. et IV.



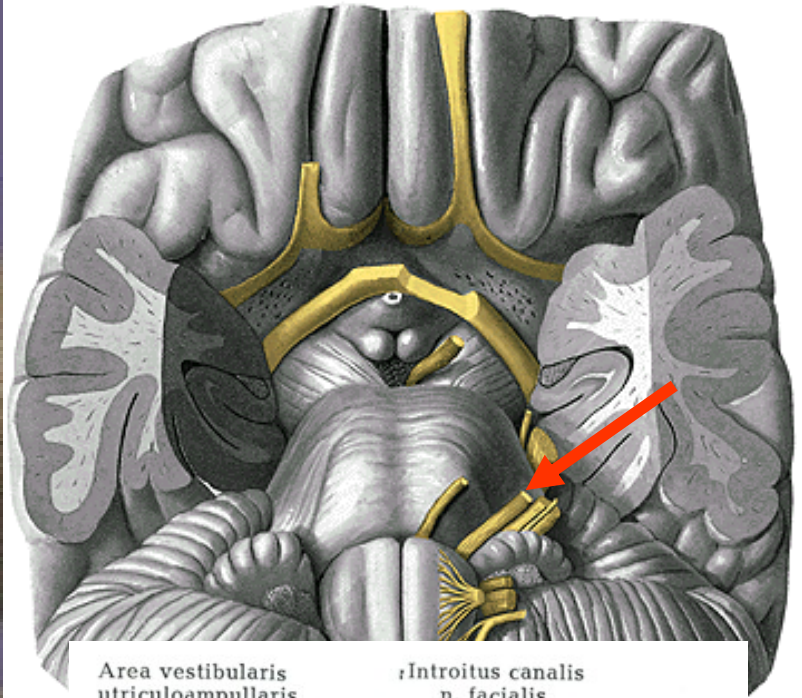
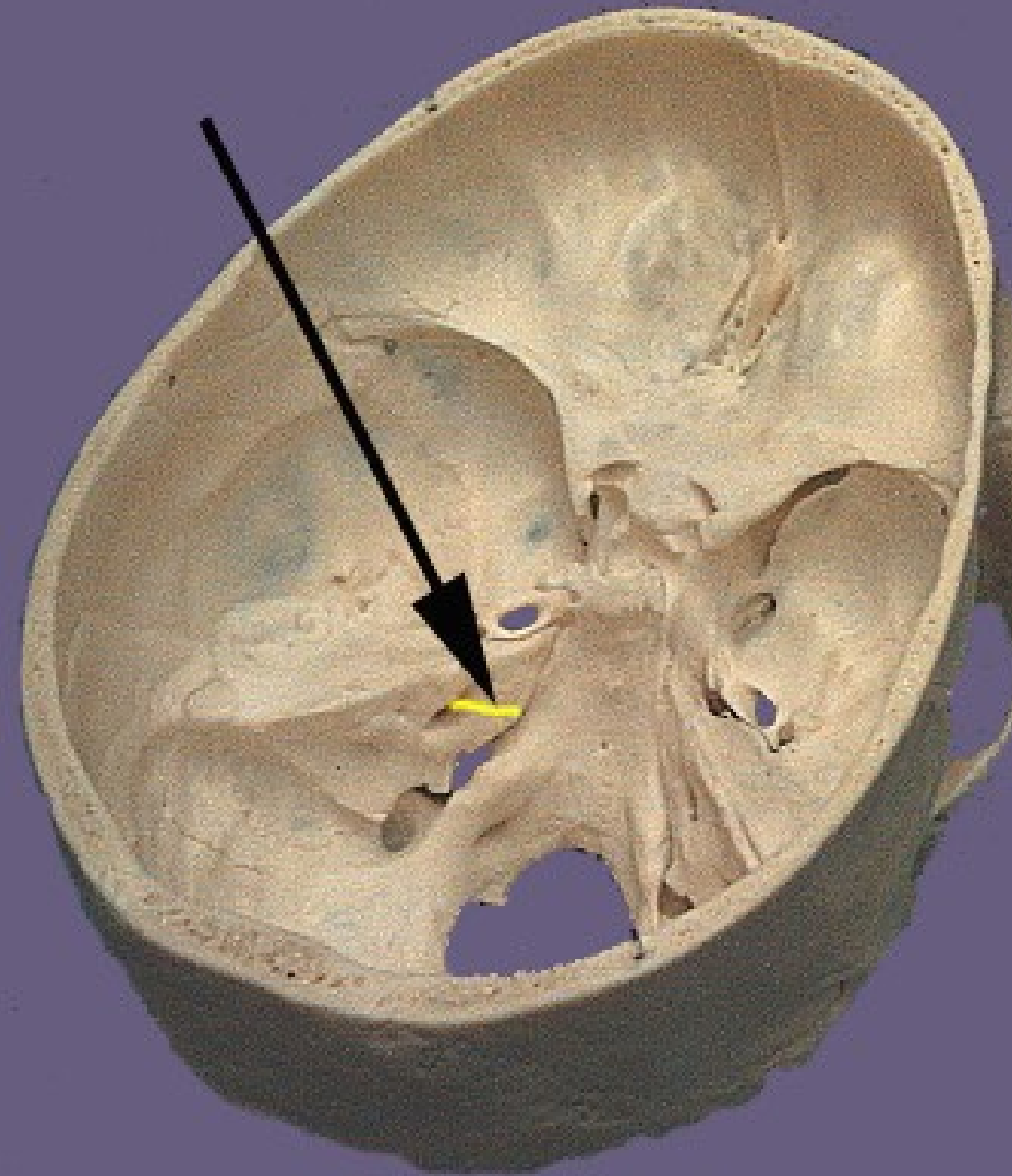
Inervační oblast n. IV.
m. obliquus sup.

Inervační oblast n. VI.
m. rectus lat.





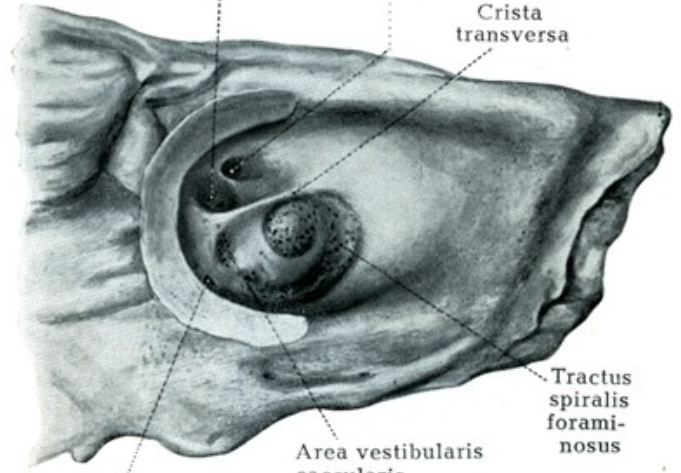
n. VII.



Area vestibularis
utrículoampullaris

Introitus canalis
n. facialis

Crista
transversa

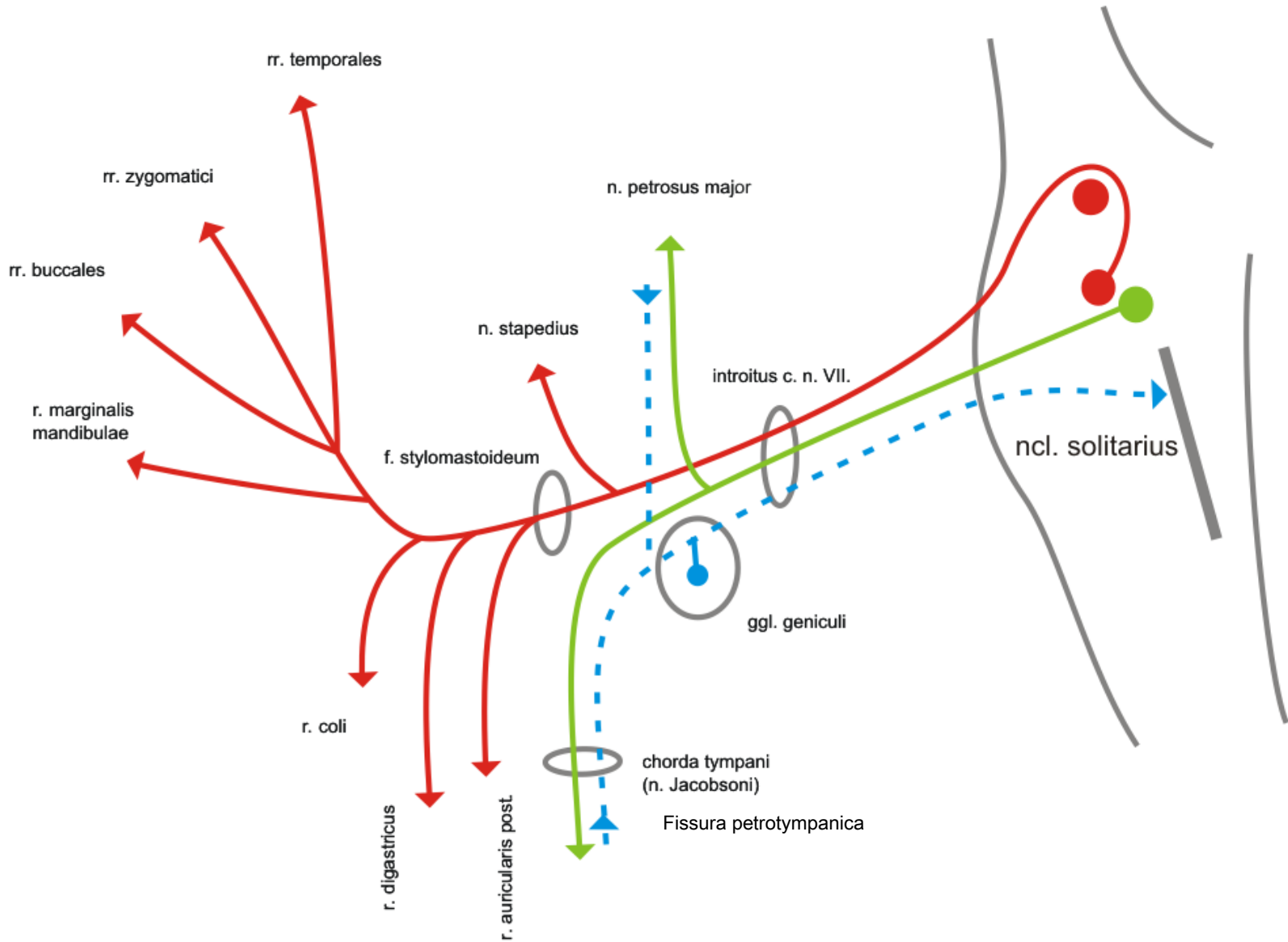


Foramen singulare

Area vestibularis
saccularis

Tractus
spiralis
forami-
nosus

n.VII.



Inervační oblasti n. VII:

Mimické svaly

1. Přes ggl. pterygopalatinum

gl. lacrimalis

drobné slinné žl. ve sliznici
měkkého a tvrdého patra

2. Cestou chorda tympani

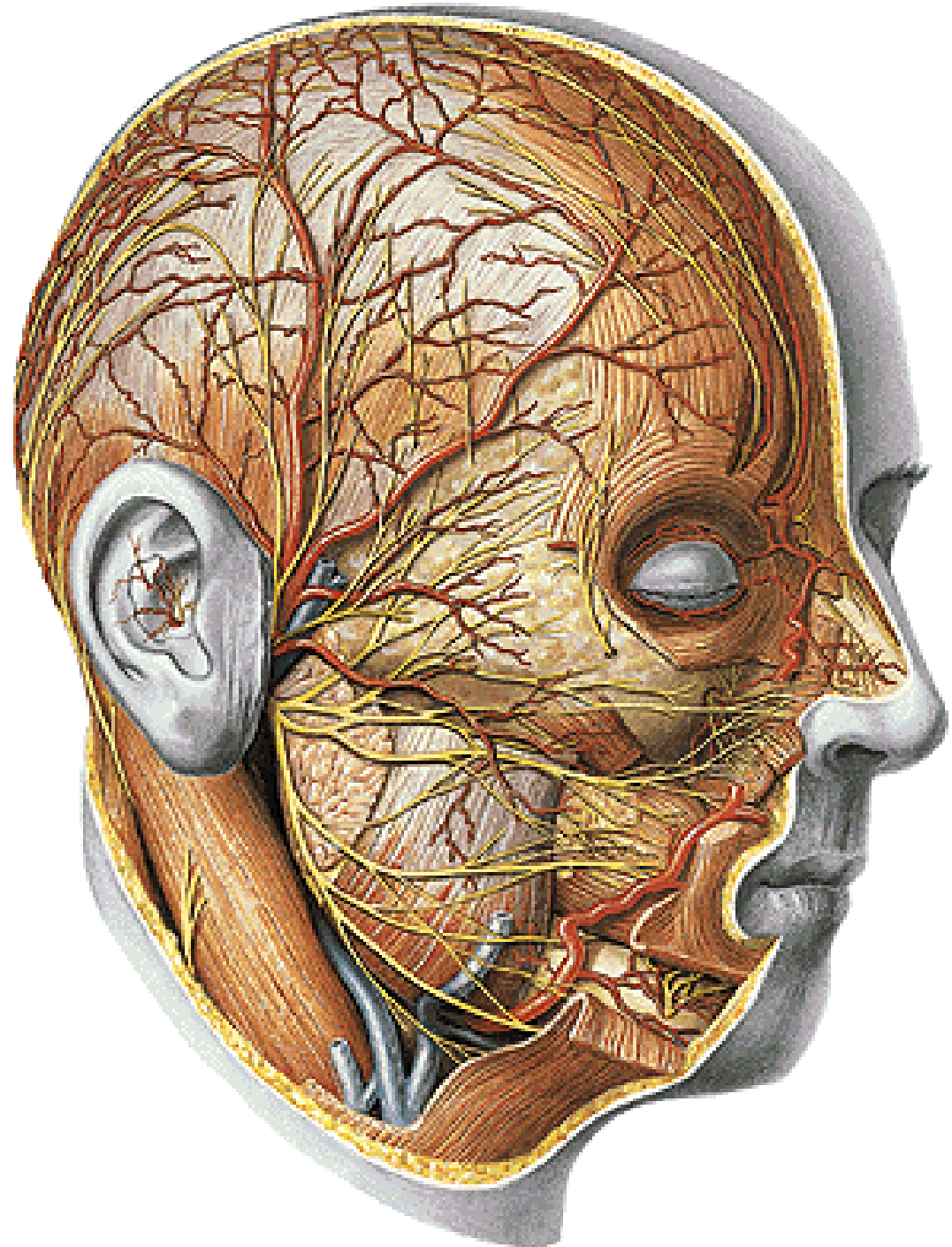
gl. submandibularis

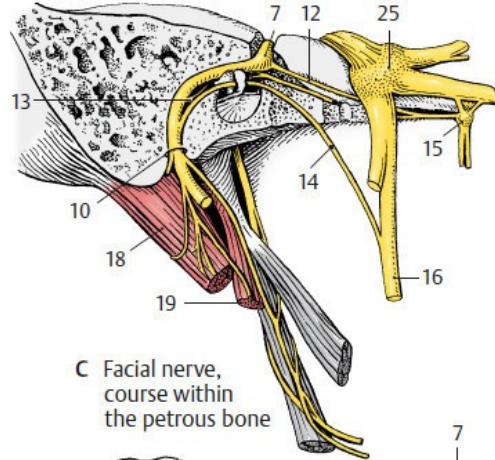
gl. sublingualis

chuťové pohárky

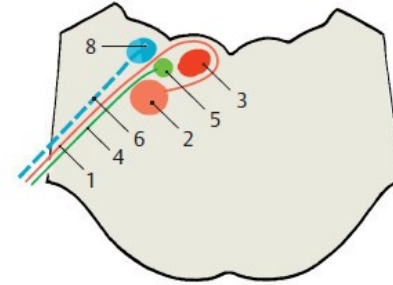
1. ve sliznici měkkého a
tvrdého patra

2. předních 2/3 jazyka

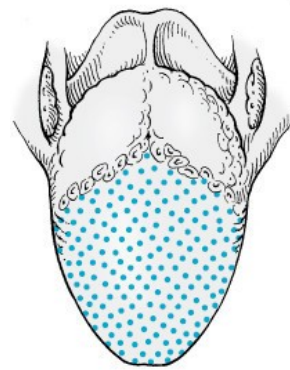




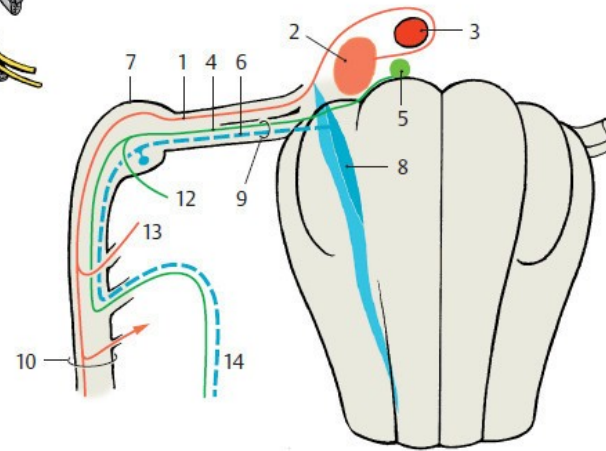
C Facial nerve, course within the petrous bone



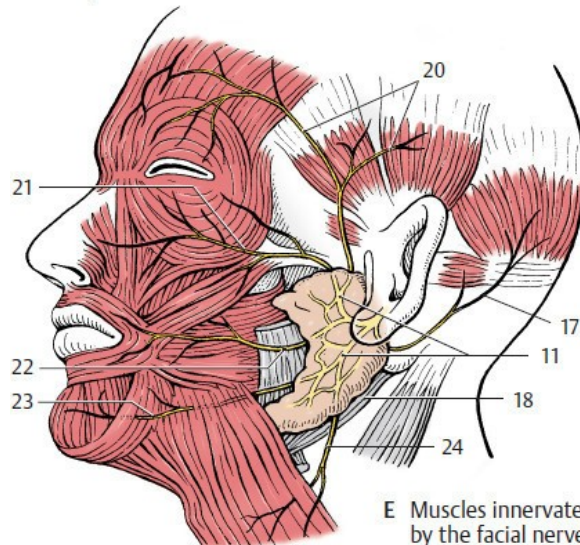
A Nuclear region of the facial nerve



D Tongue area supplied by taste fibers



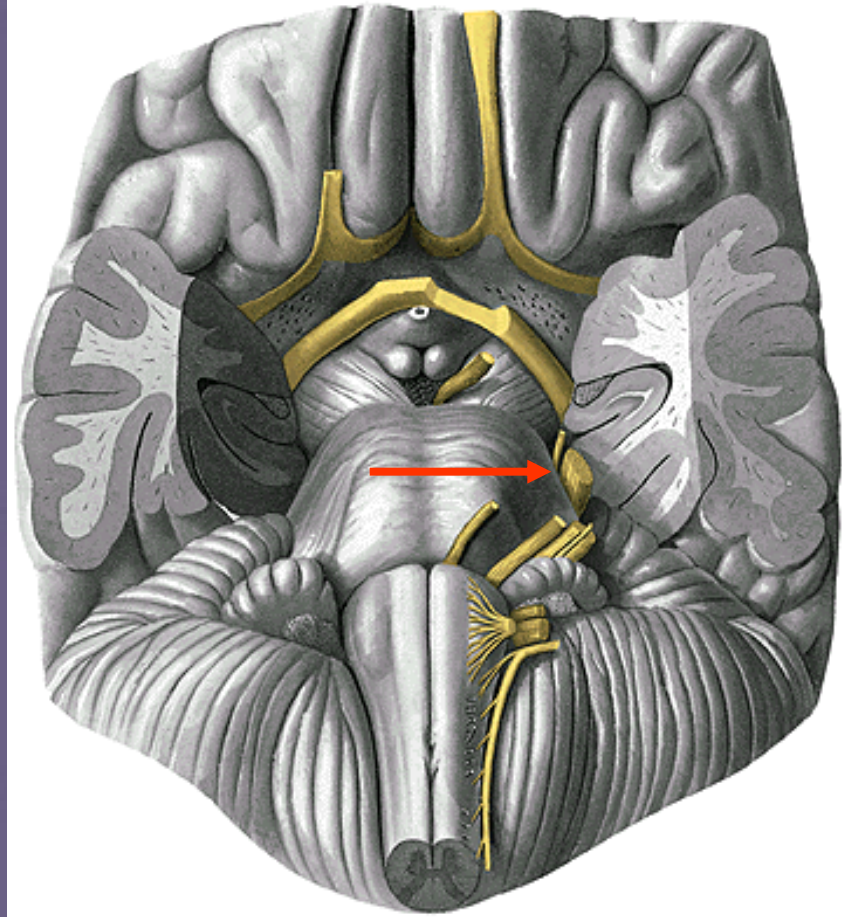
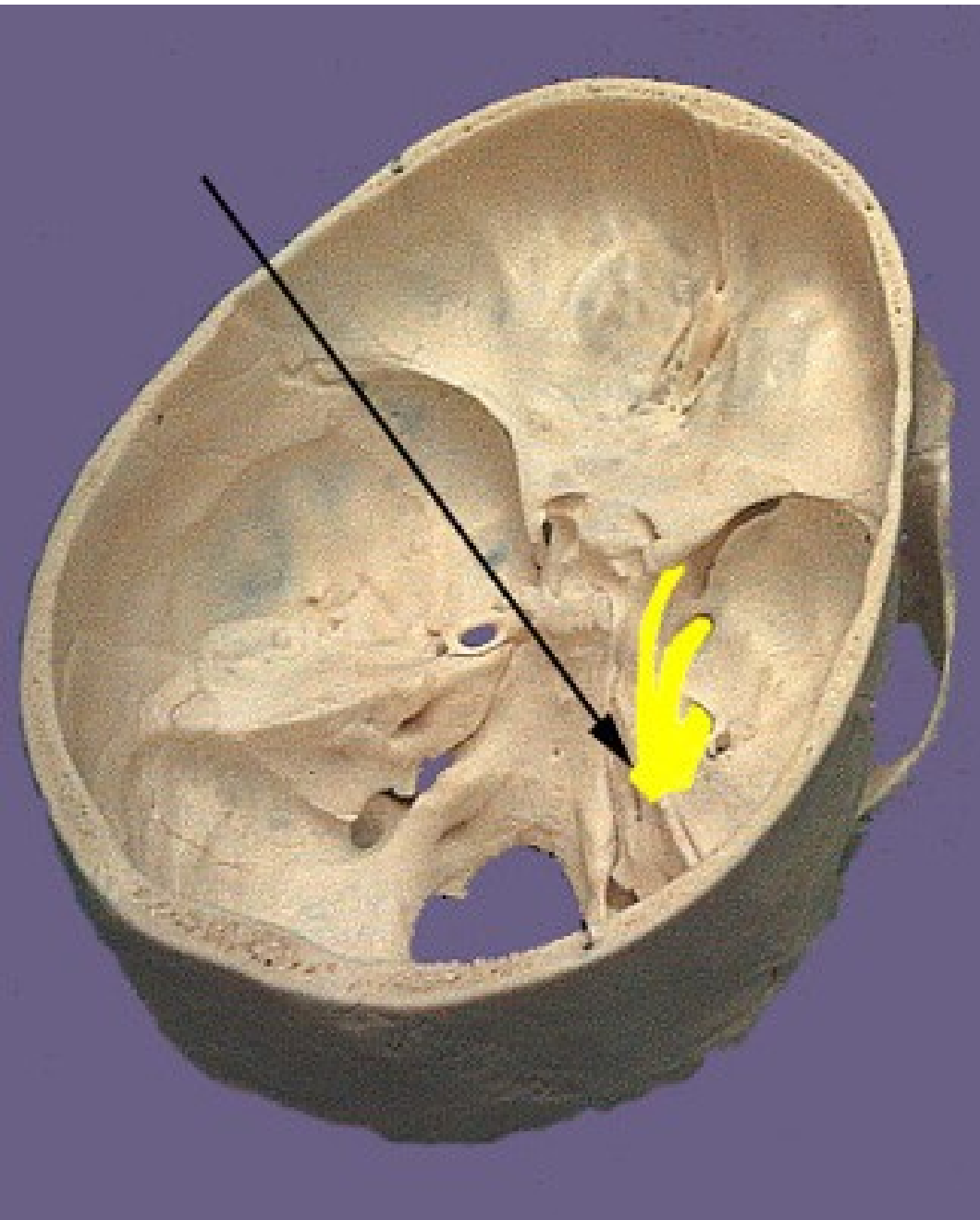
B Exit of the facial nerve



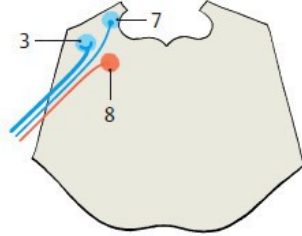
E Muscles innervated by the facial nerve



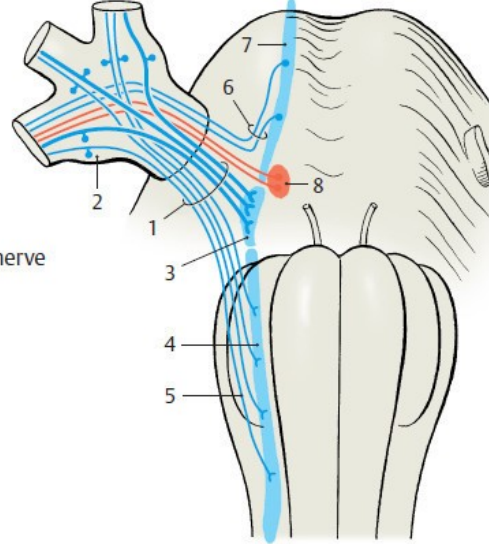
F Paralysis of the left facial nerve



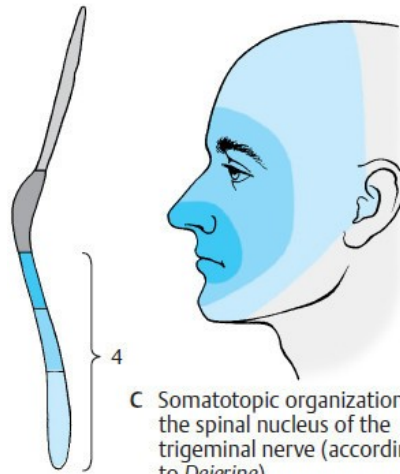
n.V.



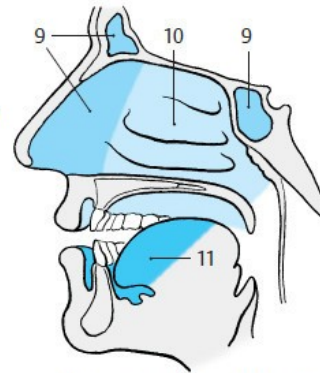
A Nuclear region of the trigeminal nerve



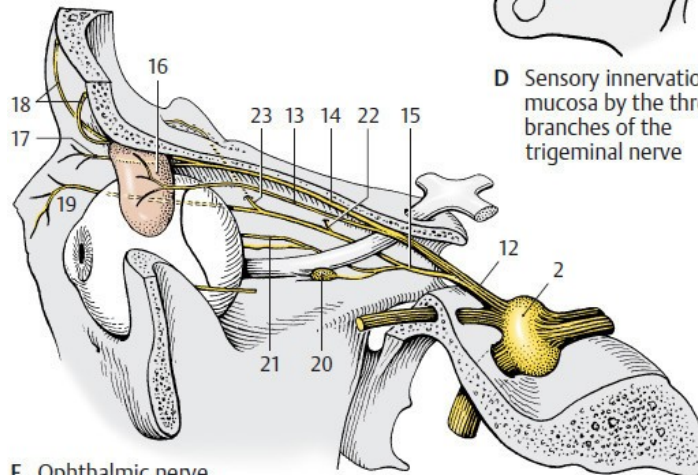
B Exit of the trigeminal nerve



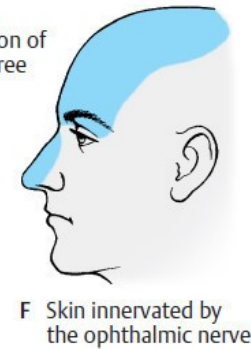
C Somatotopic organization of the spinal nucleus of the trigeminal nerve (according to Dejerine)



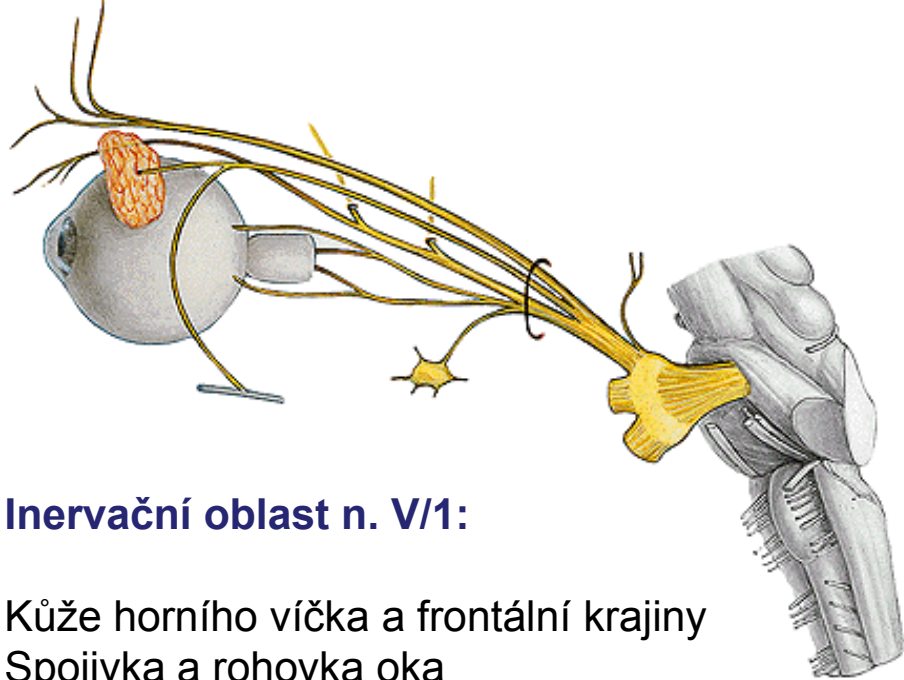
D Sensory innervation of mucosa by the three branches of the trigeminal nerve



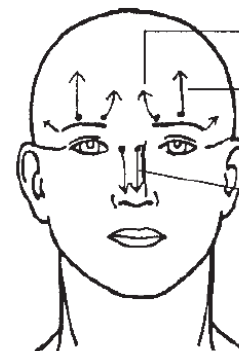
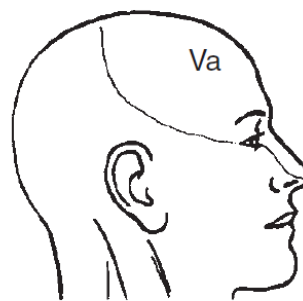
E Ophthalmic nerve (according to Feneis)



F Skin innervated by the ophthalmic nerve



Cutaneous distribution

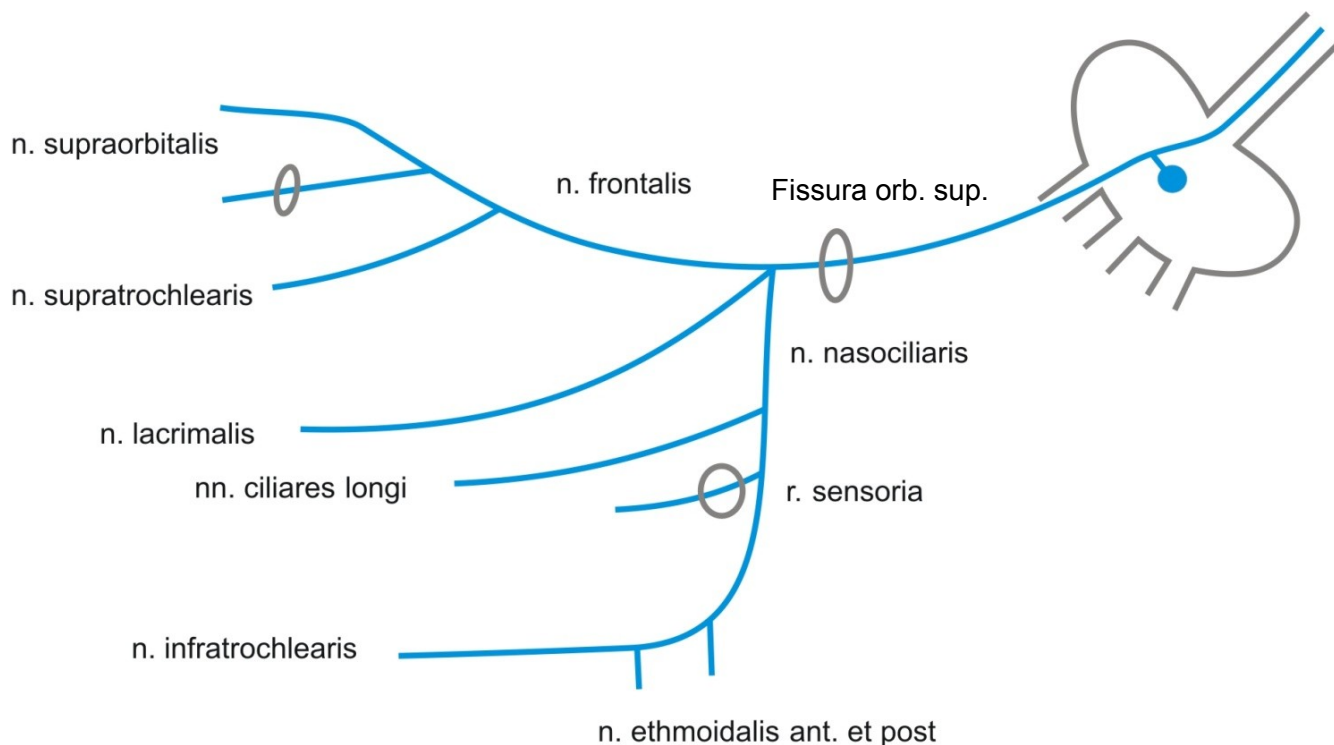


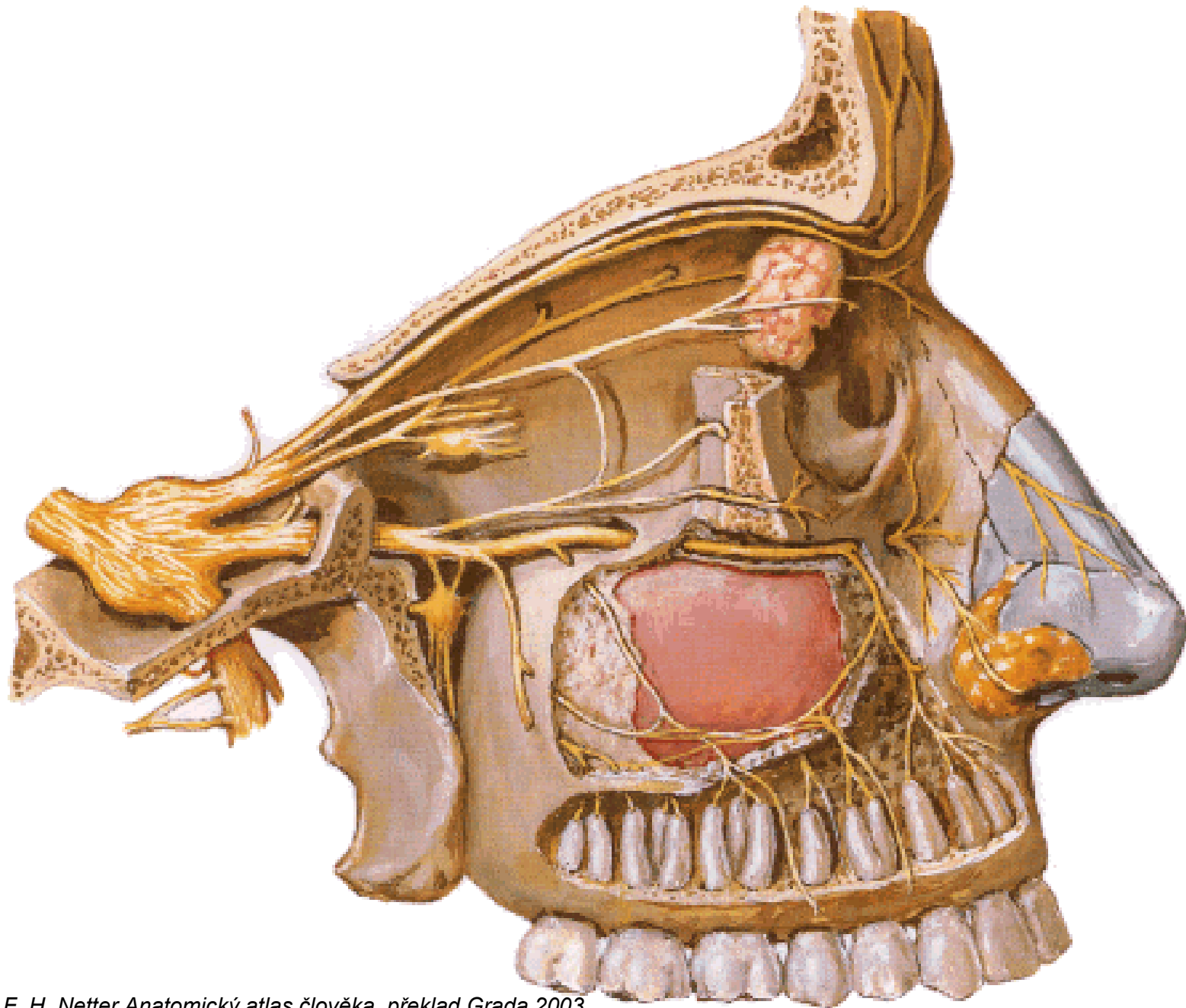
Sinus (broken circle)
 Supratrochlear
 (from frontal)
 Supraorbital
 (from frontal)
 External nasal
 (from nasociliary)

n. V/1 - n. ophthalmicus

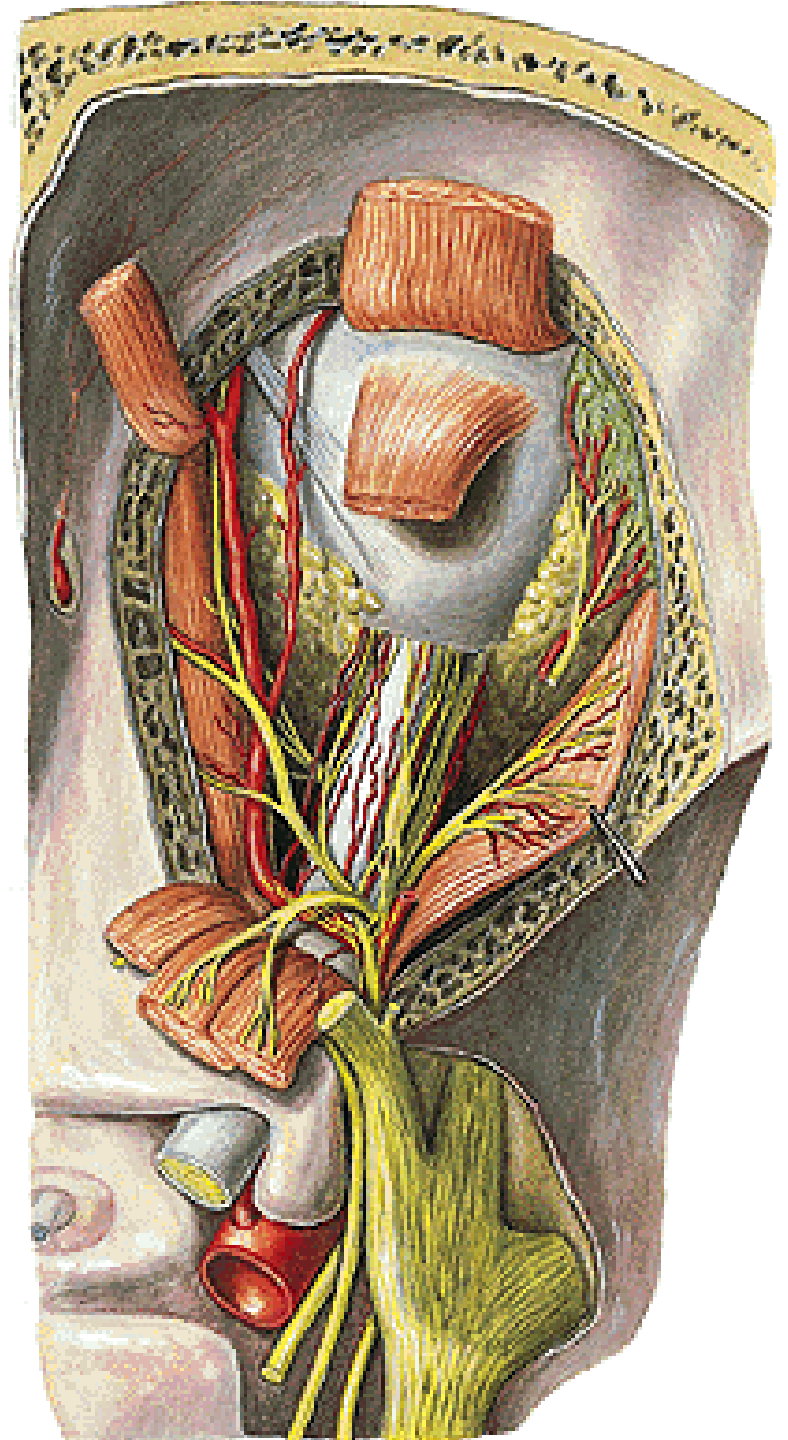
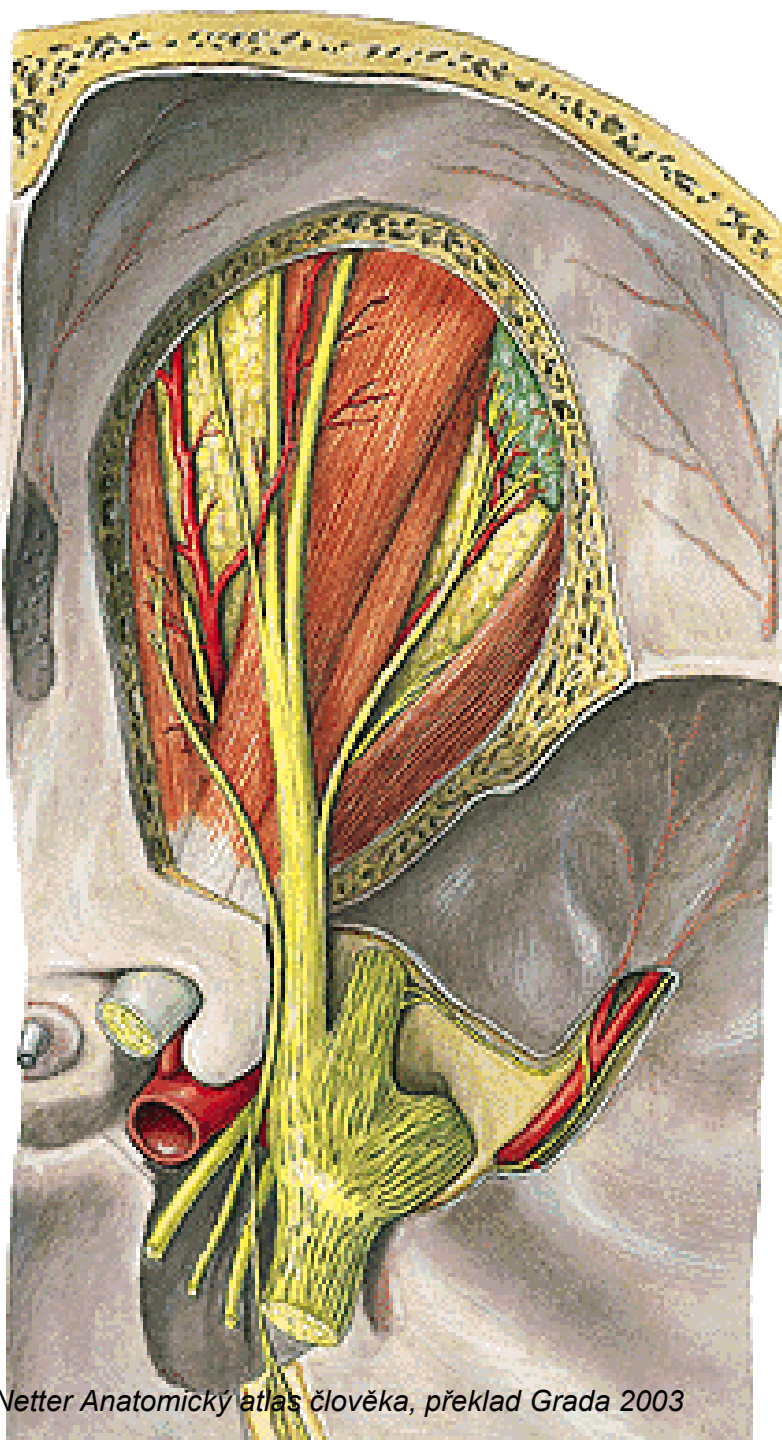
Inervační oblast n. V/1:

Kůže horního víčka a frontální krajiny
 Spojivka a rohovka oka
 Sliznice celulae ethmoidales

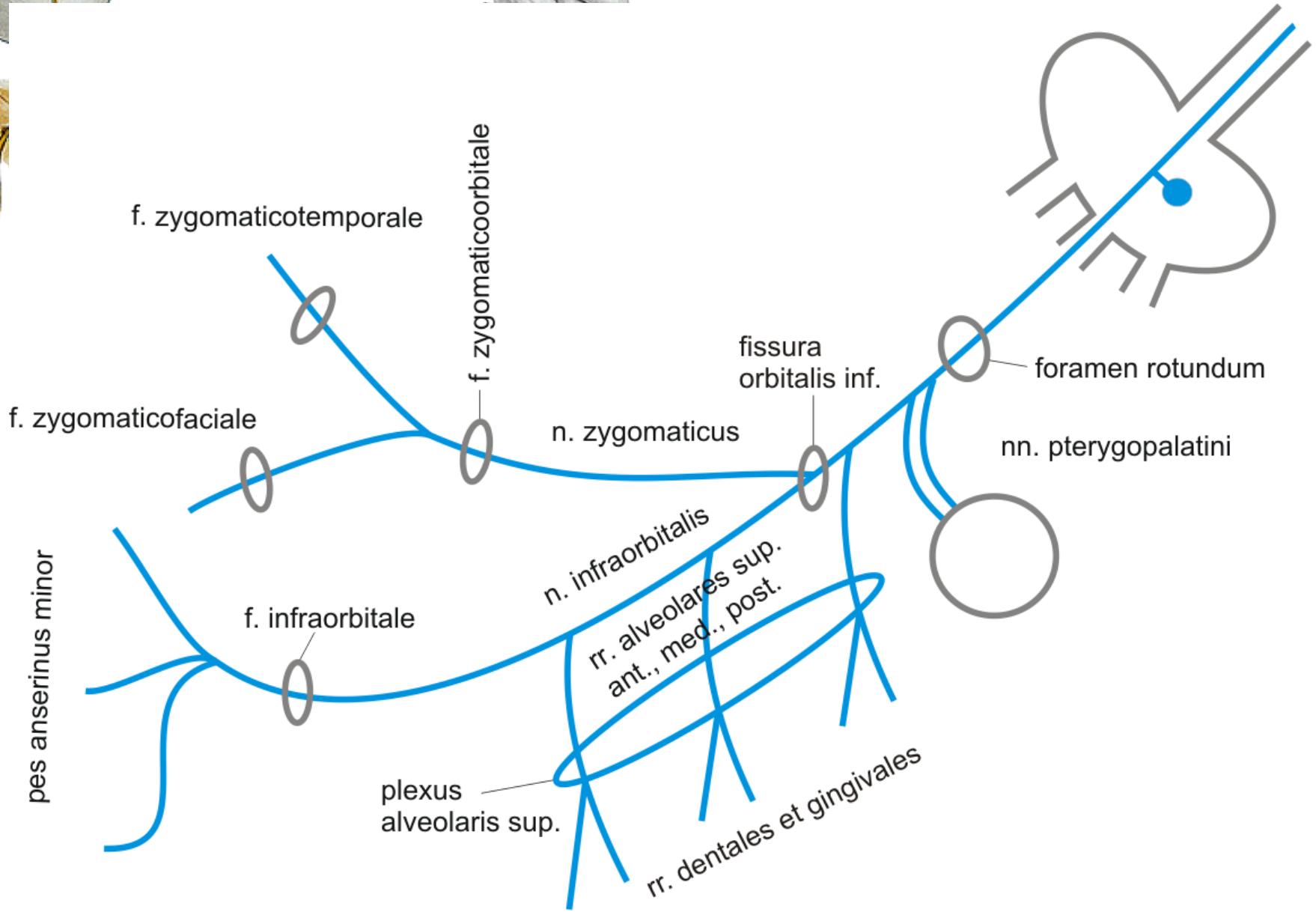


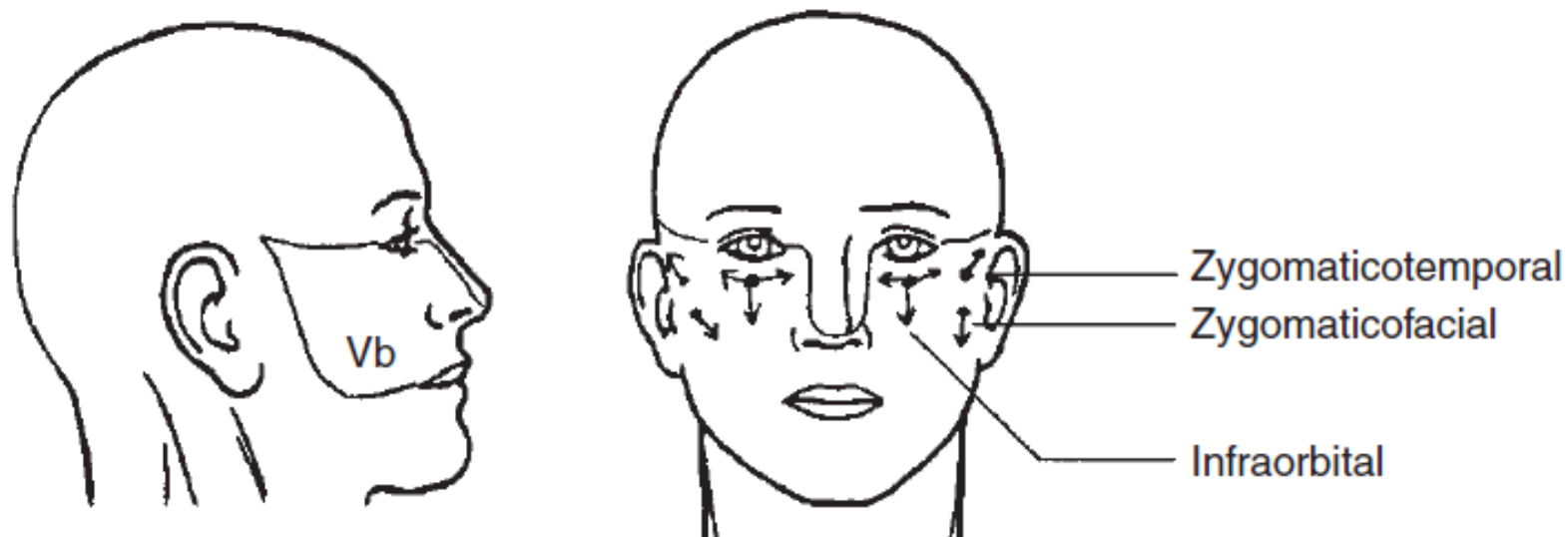


F. H. Netter Anatomický atlas člověka, překlad Grada 2003



n. V/2 - n. maxillaris

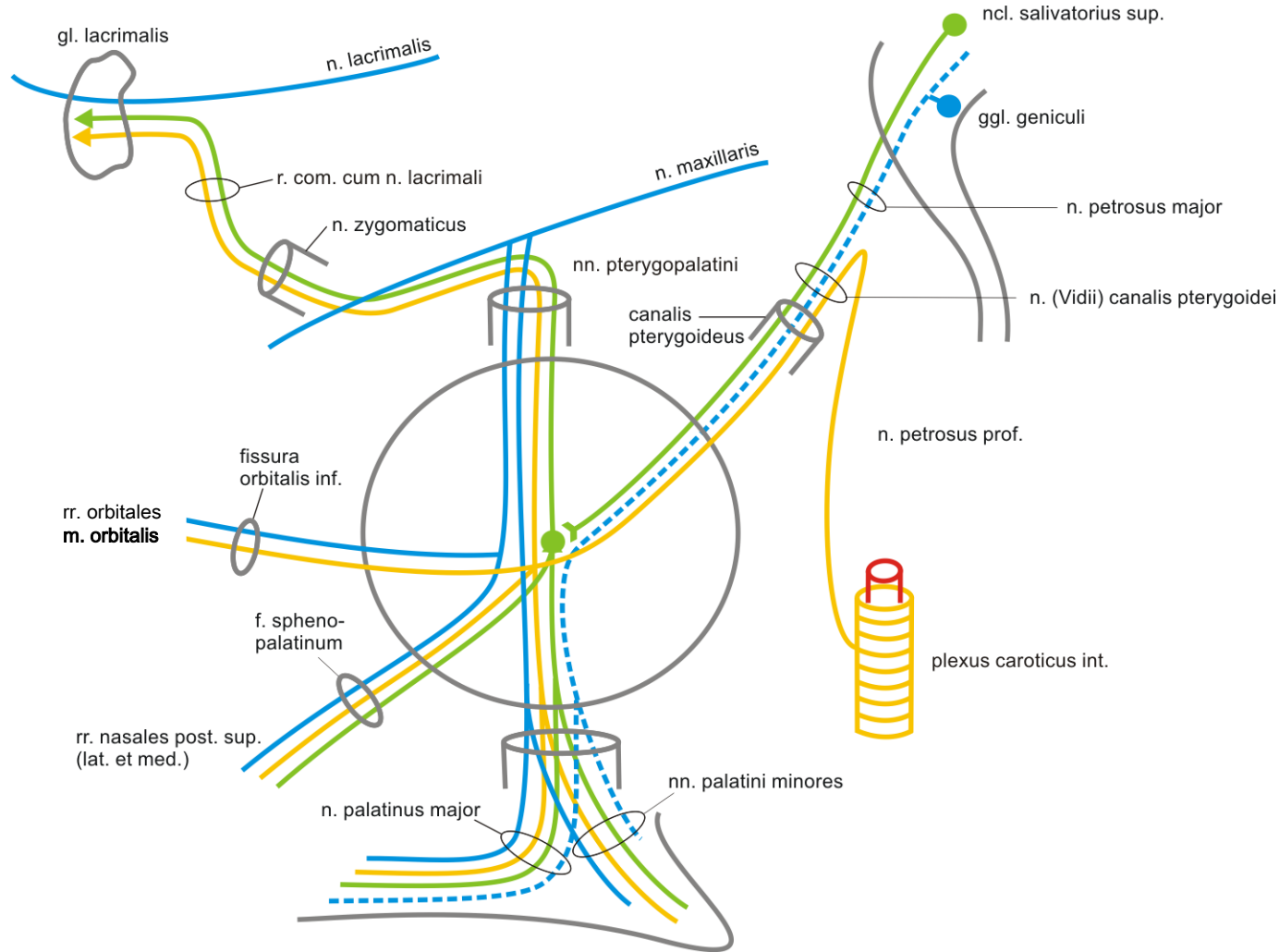




Somatosenzorická inervace n. V/2:

Kůže dolního víčka, křídel nosu, tváře,
gingiva a zuby horní čelisti

ggl. pterygopalatinum

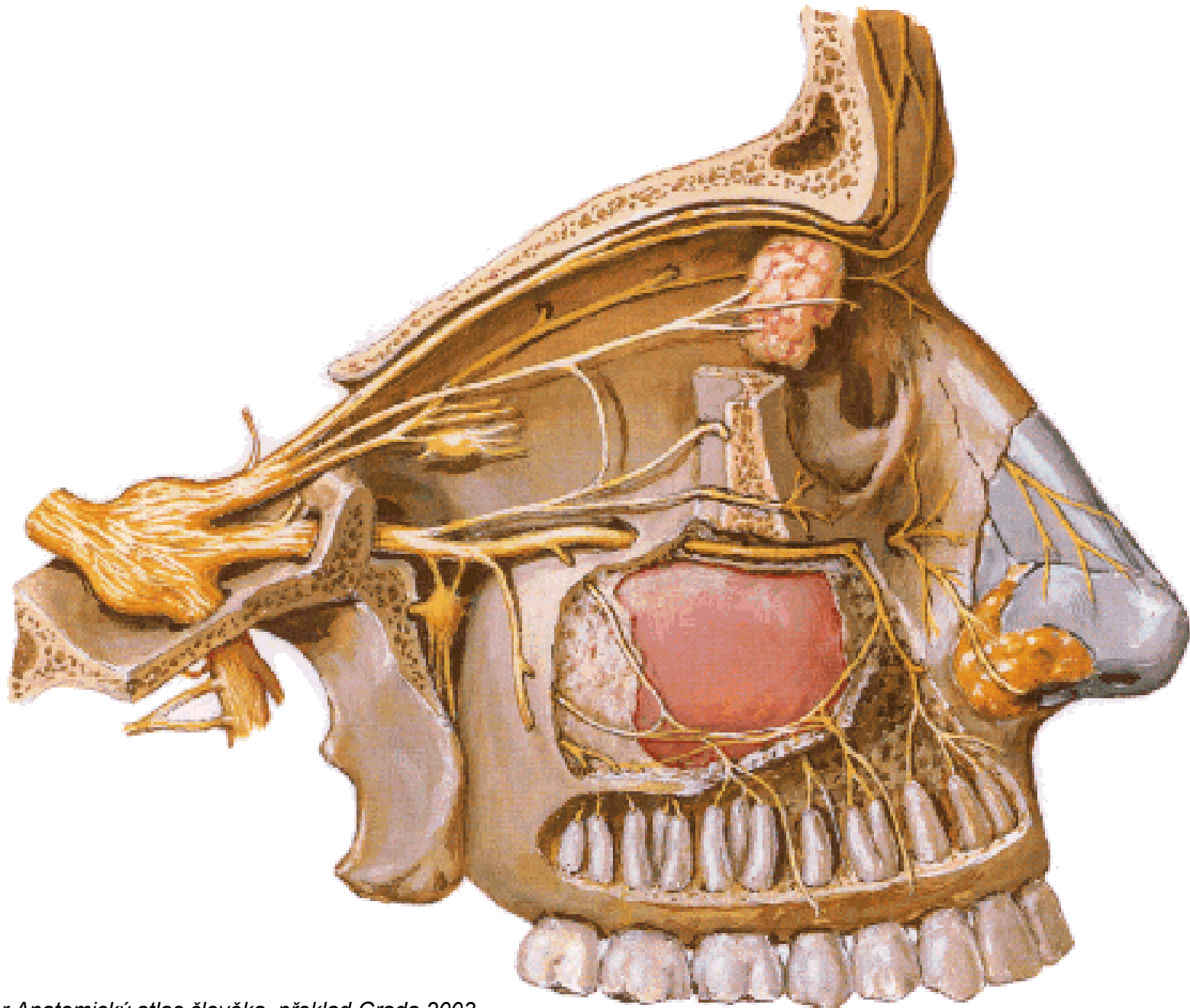


Inervační oblasti:

gl. lacrimalis
 m. orbitalis
 sliznice dutiny nosní
 sliznice měkkého a
 tvrdého patra

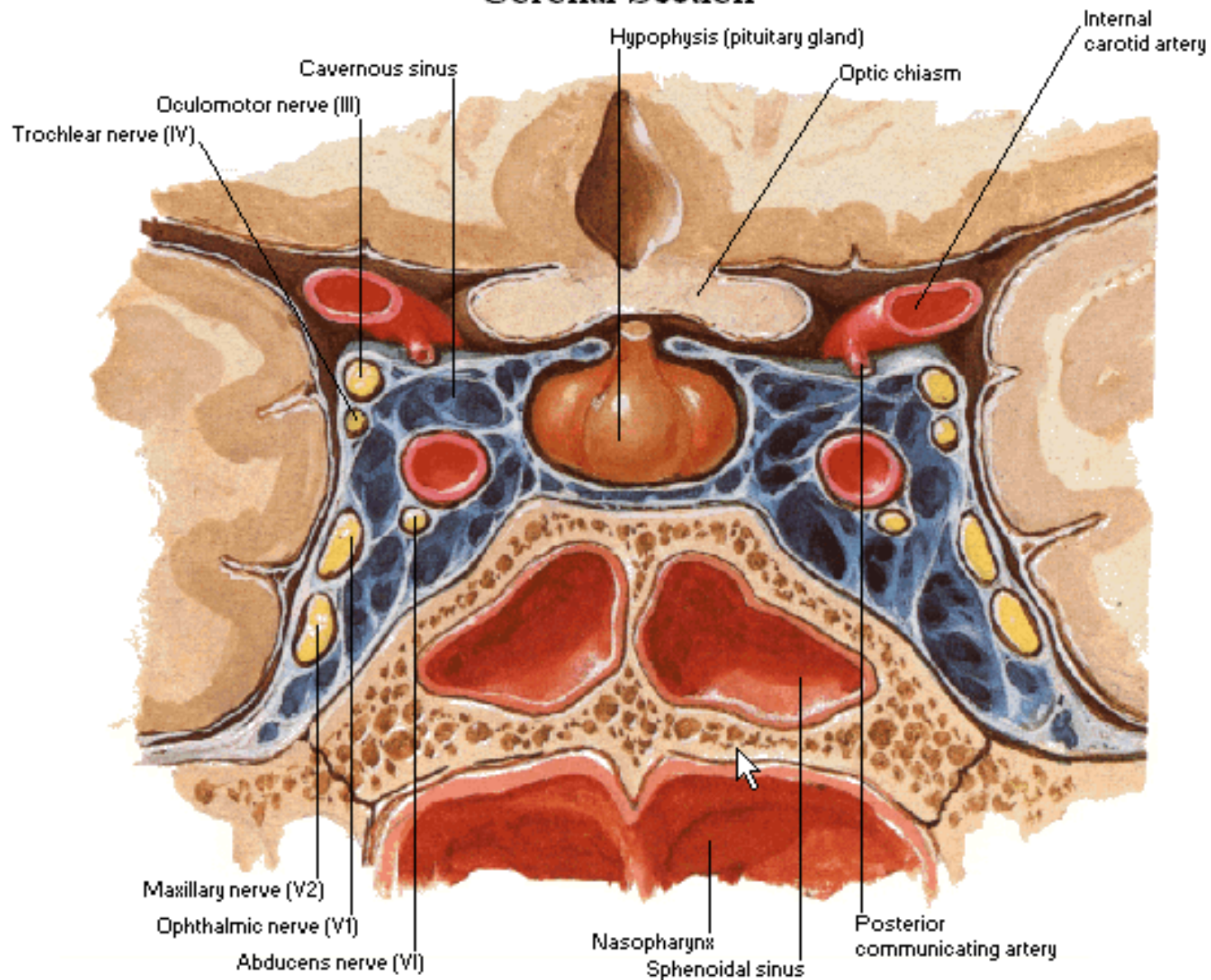
Typy nervových vláken

- senzorická
- somatosenzorická
- sympatická
- parasympatická

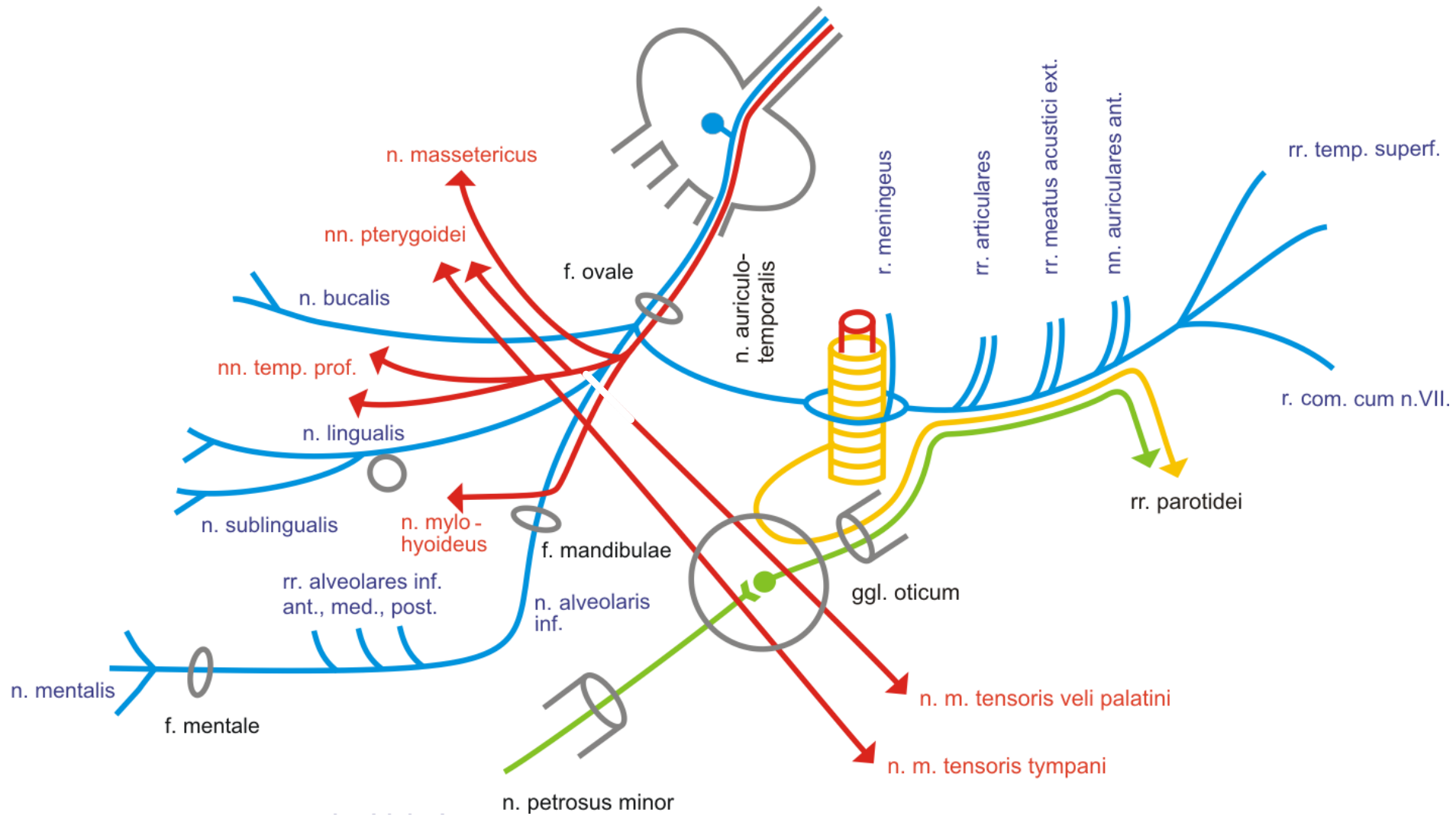


Cavernous Sinus

Coronal Section

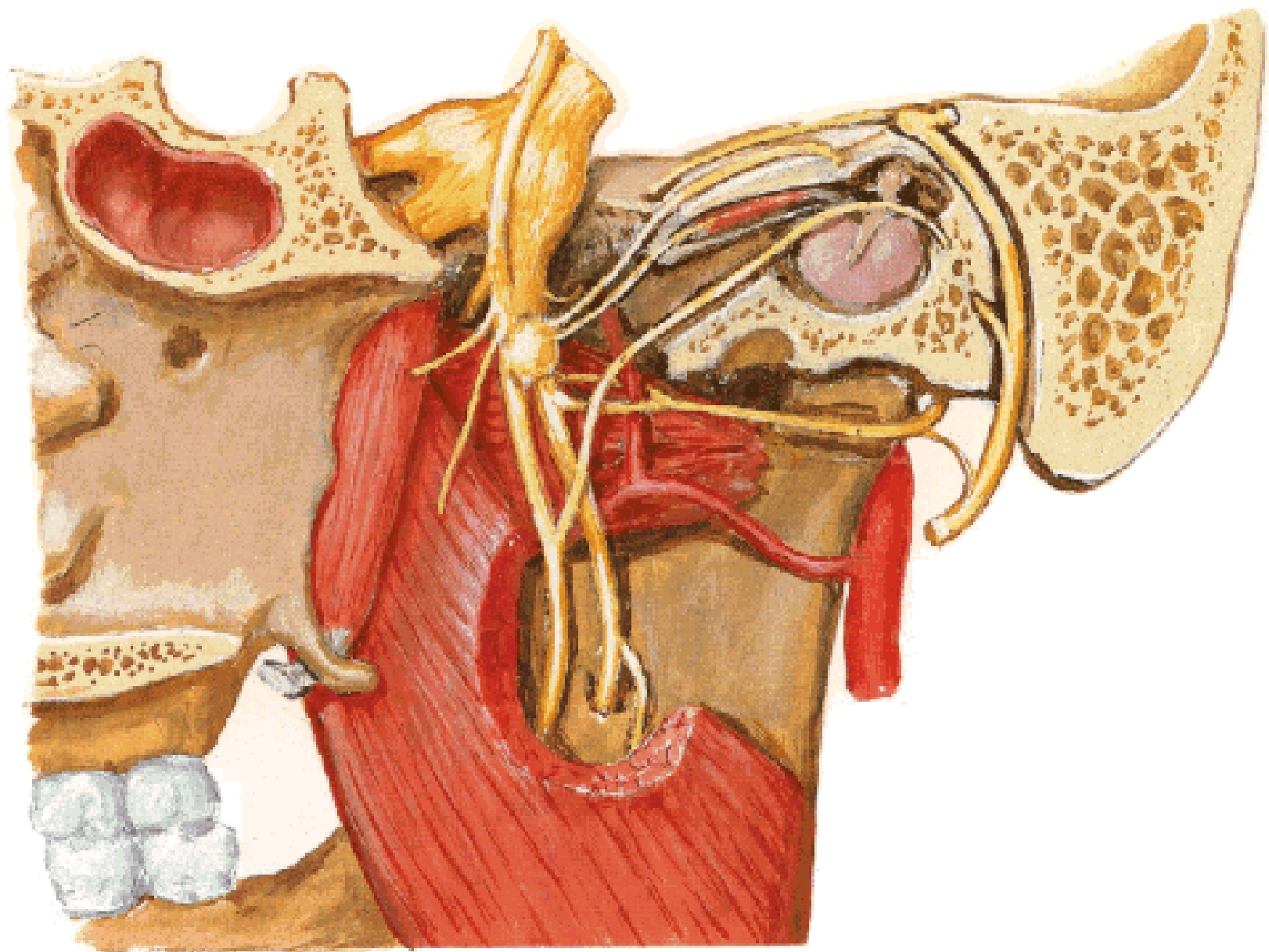


n. V/3 - n. mandibularis

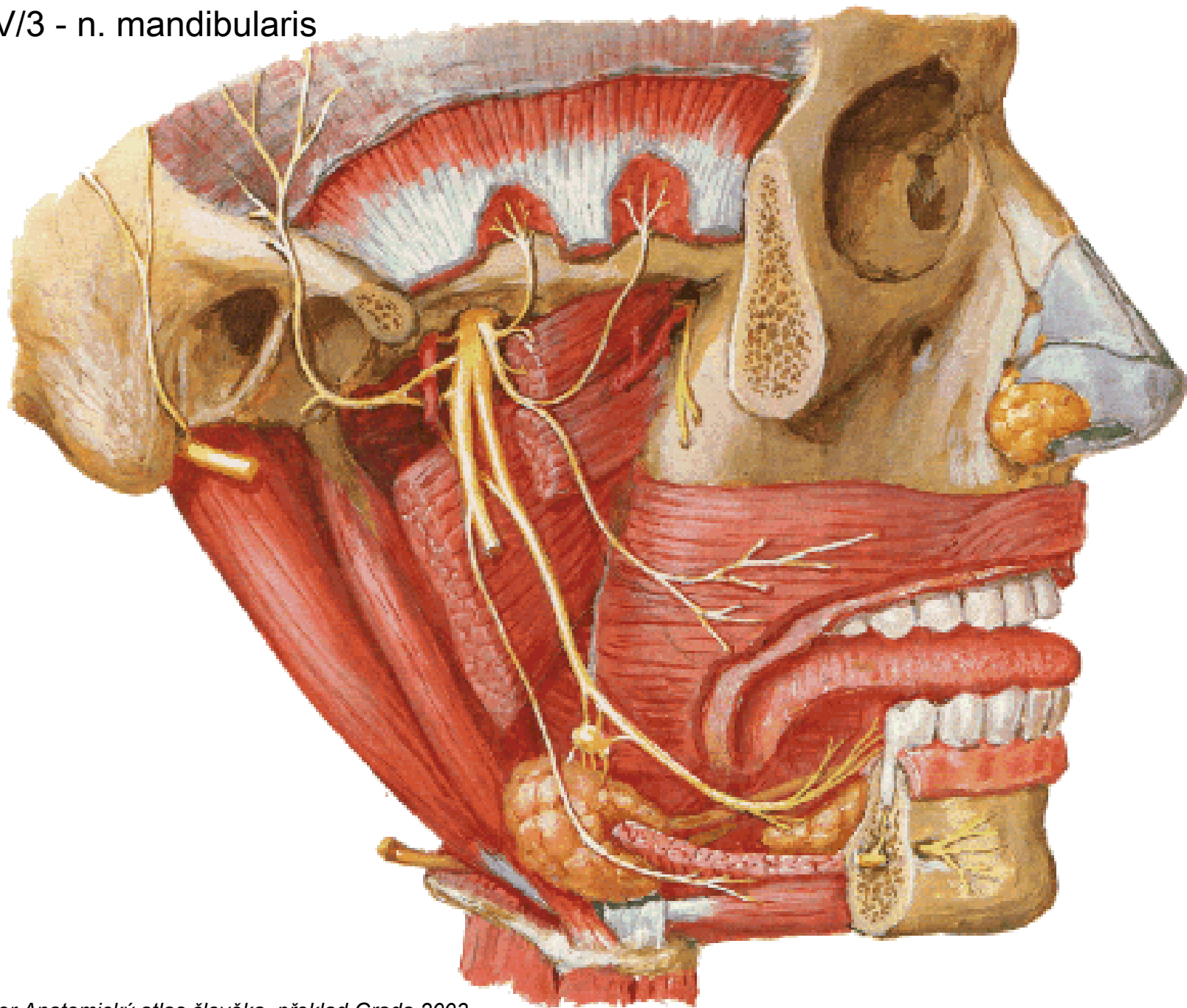


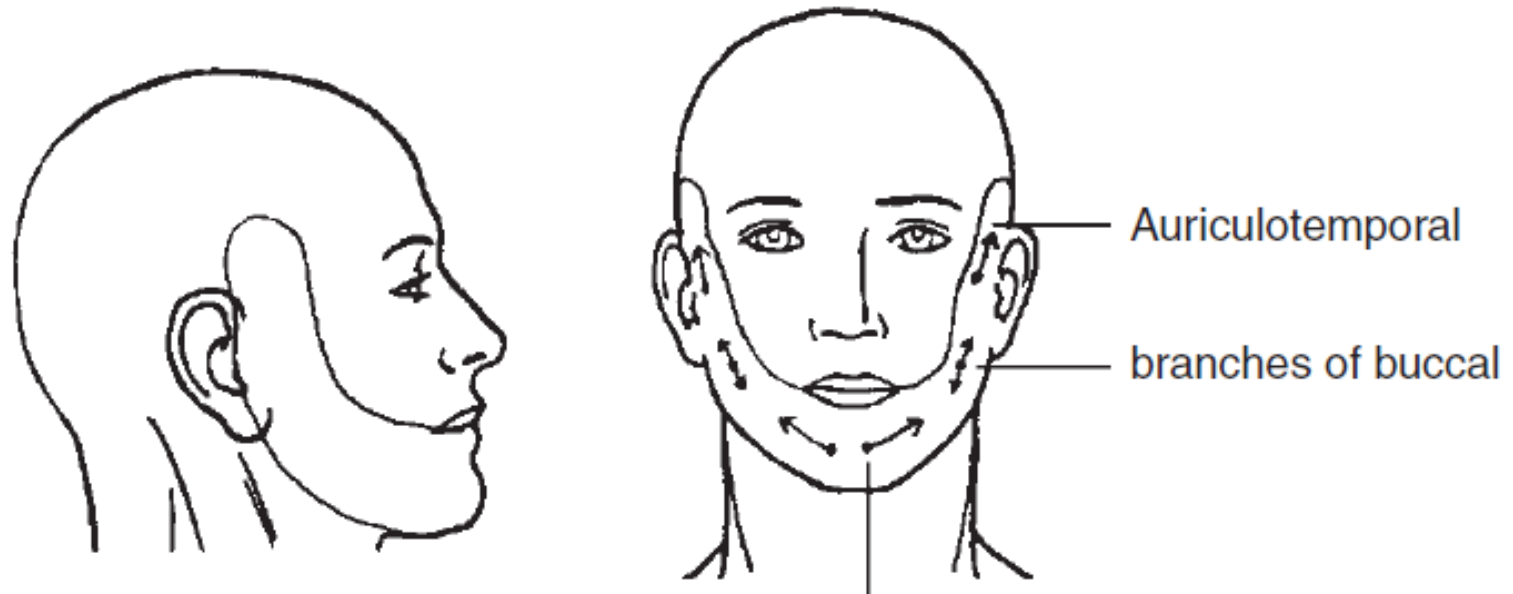
n. tympanicus – n. petrosus minor – ggl. oticum = *Jacobsonova anastomóza*

n. V/3 - n. mandibularis



n. V/3 - n. mandibularis





Mental, continuation of inferior alveolar

Somatosenzorická inervace n. V/3:

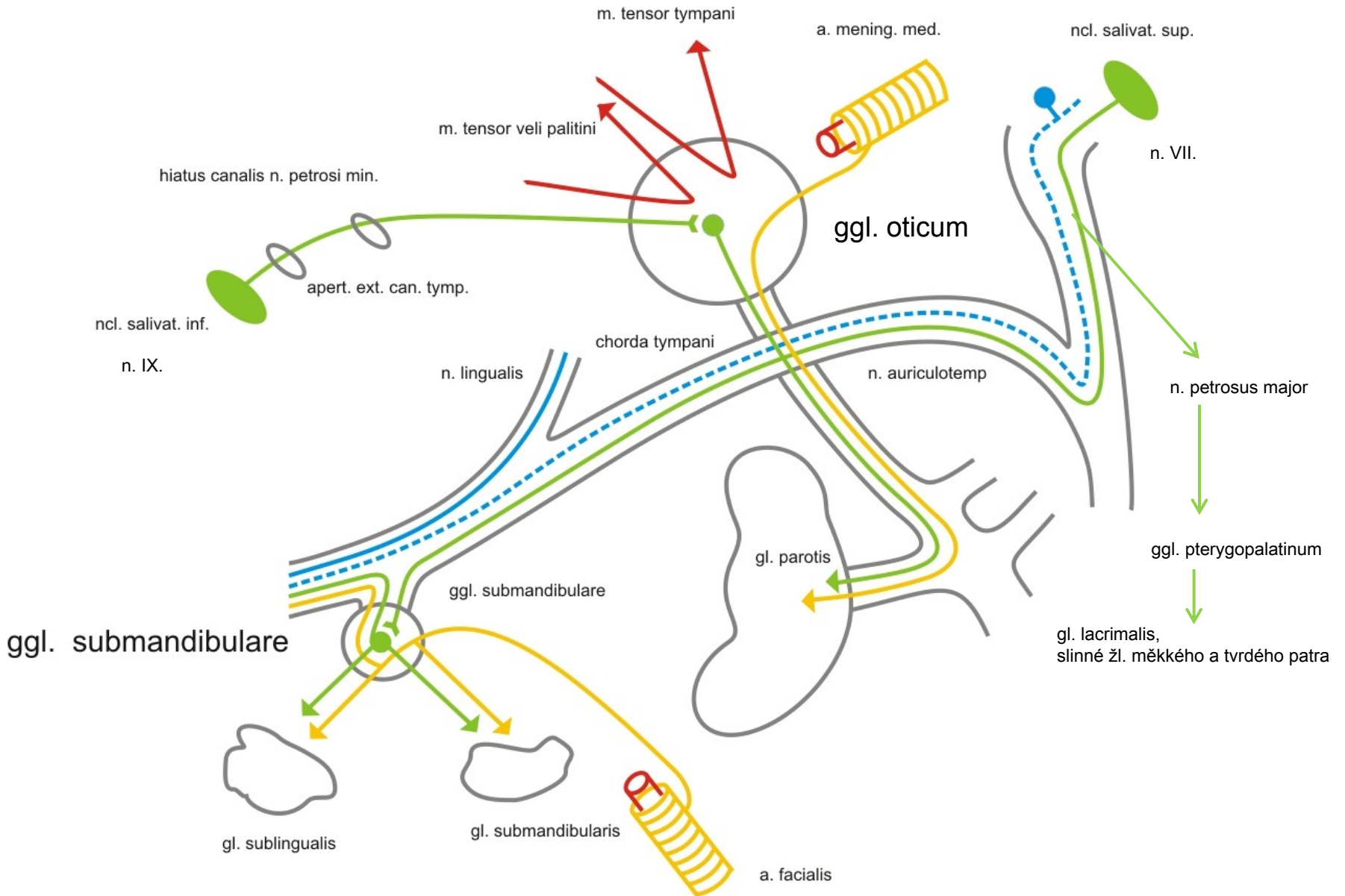
Kůže dolní čelisti a před ušním boltcem

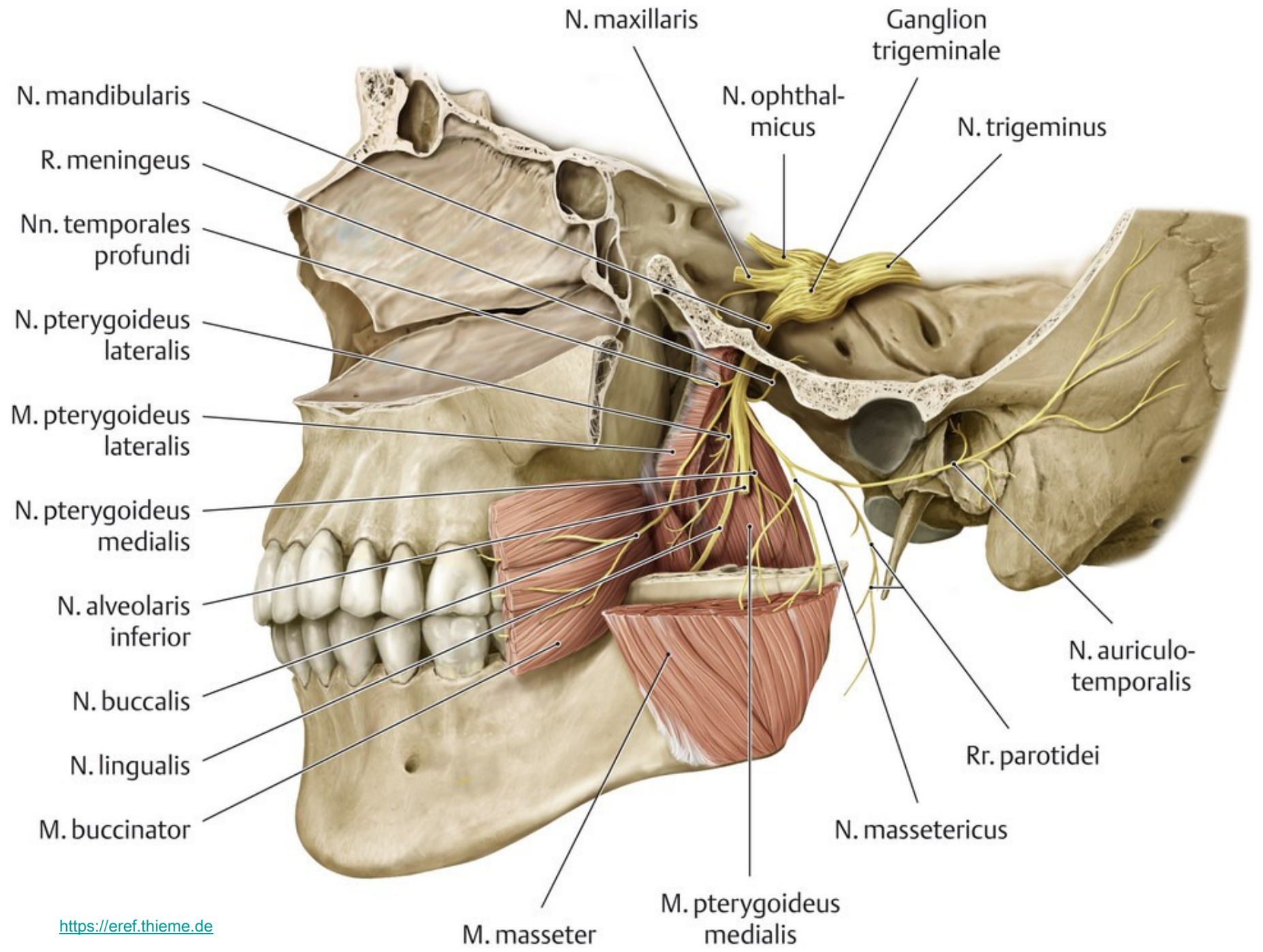
Gingiva a zuby dolní čelisti

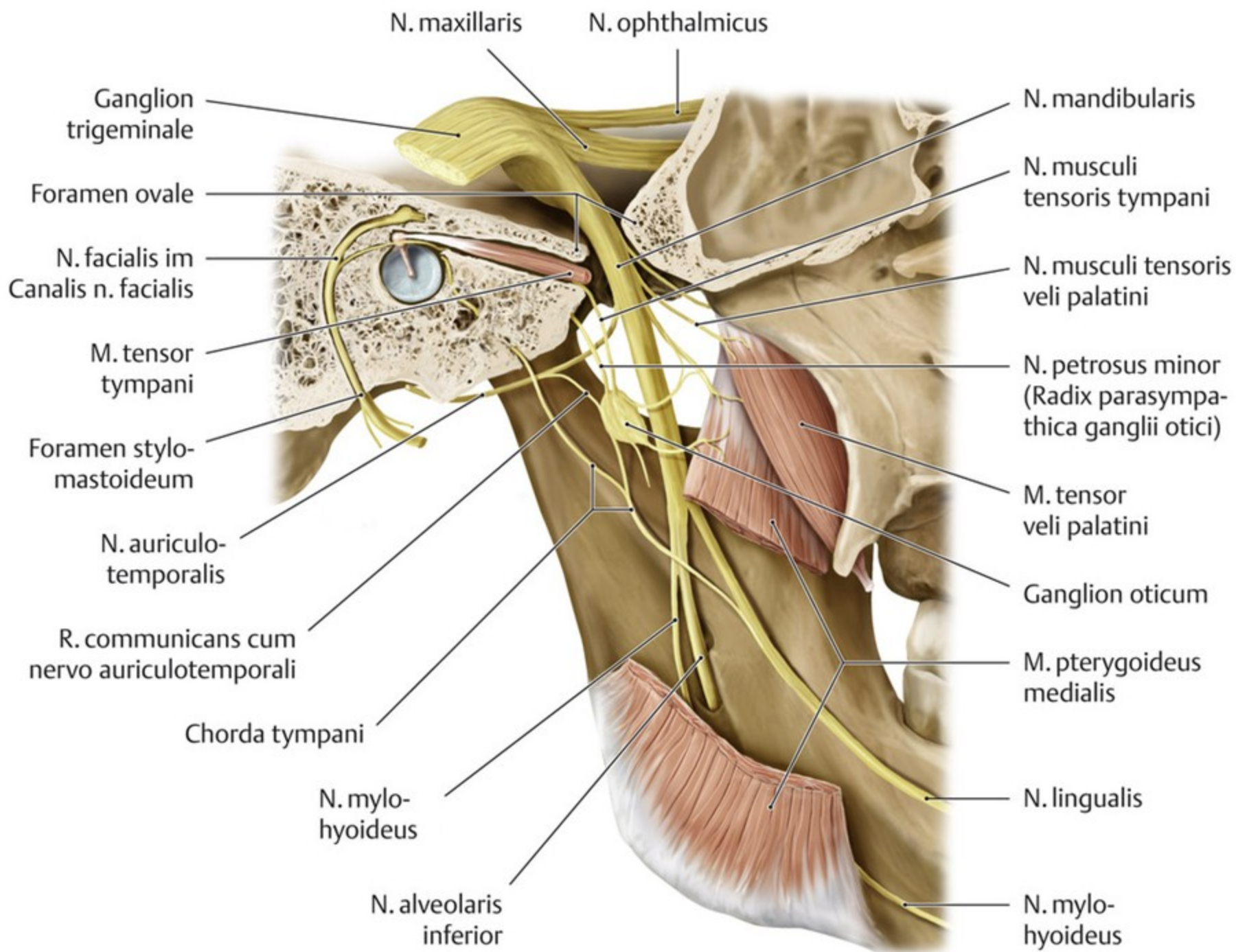
Motorická inervace n. V/3

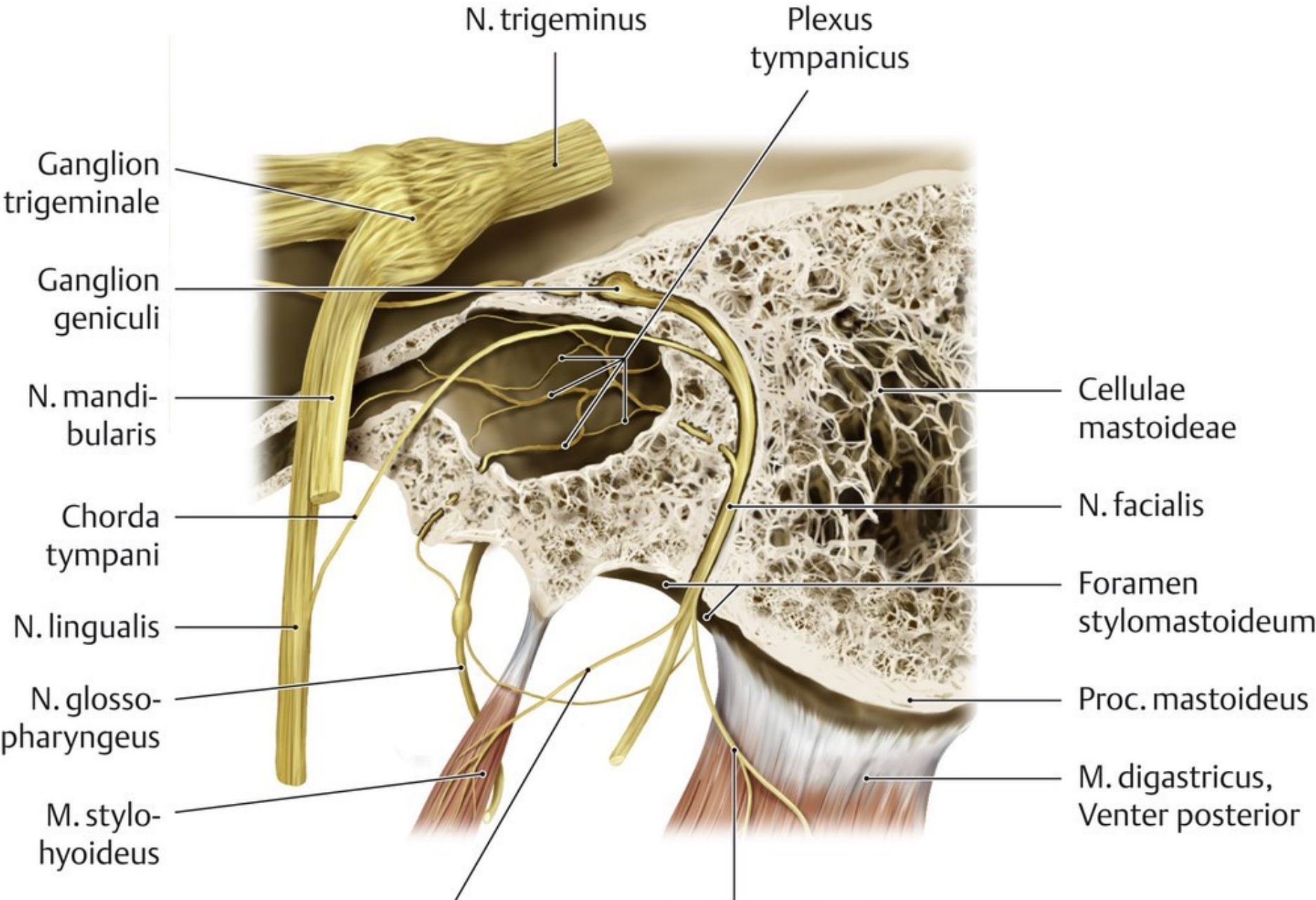
žvýkací svaly, m. mylohyoides, venter anterior m. digastrici

Ggl. oticum et submandibulare









N. trigeminus

Plexus tympanicus

Ganglion trigeminale

Ganglion geniculi

N. mandibularis

Chorda tympani

N. lingualis

N. glosso-pharyngeus

M. stylo-hyoideus

Cellulae mastoideae

N. facialis

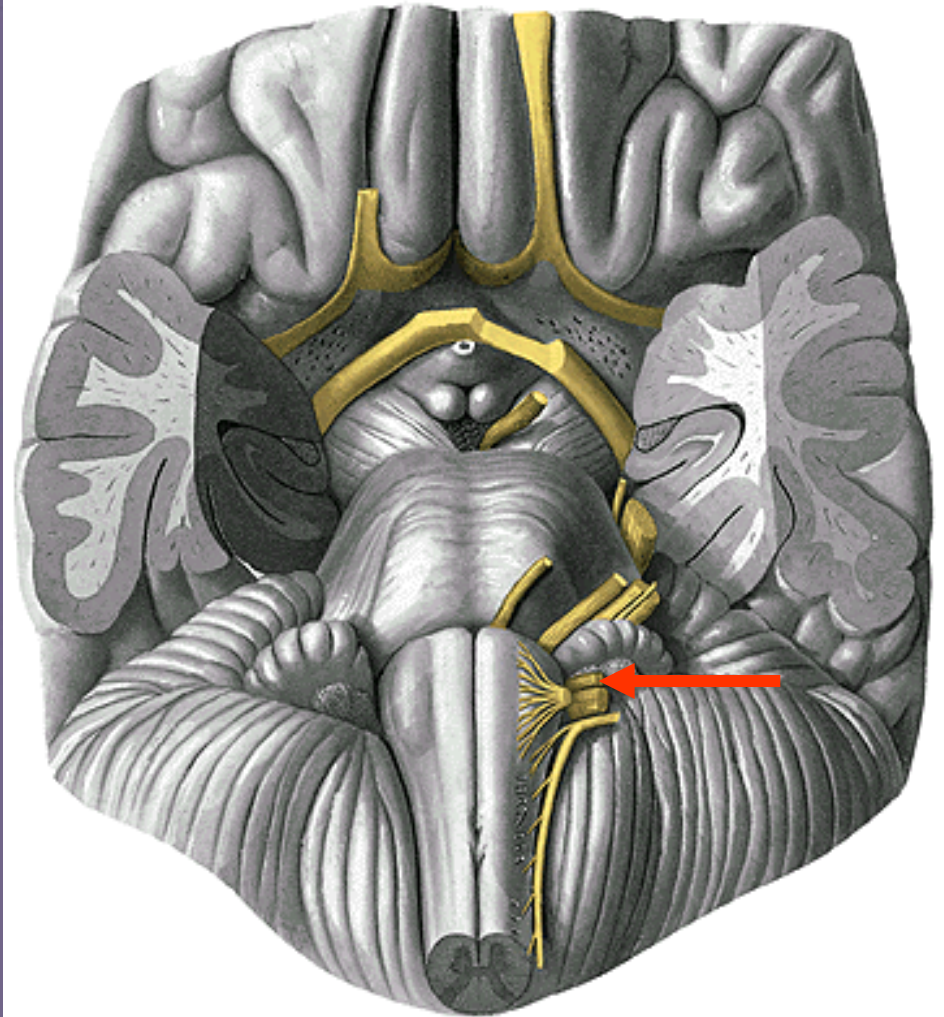
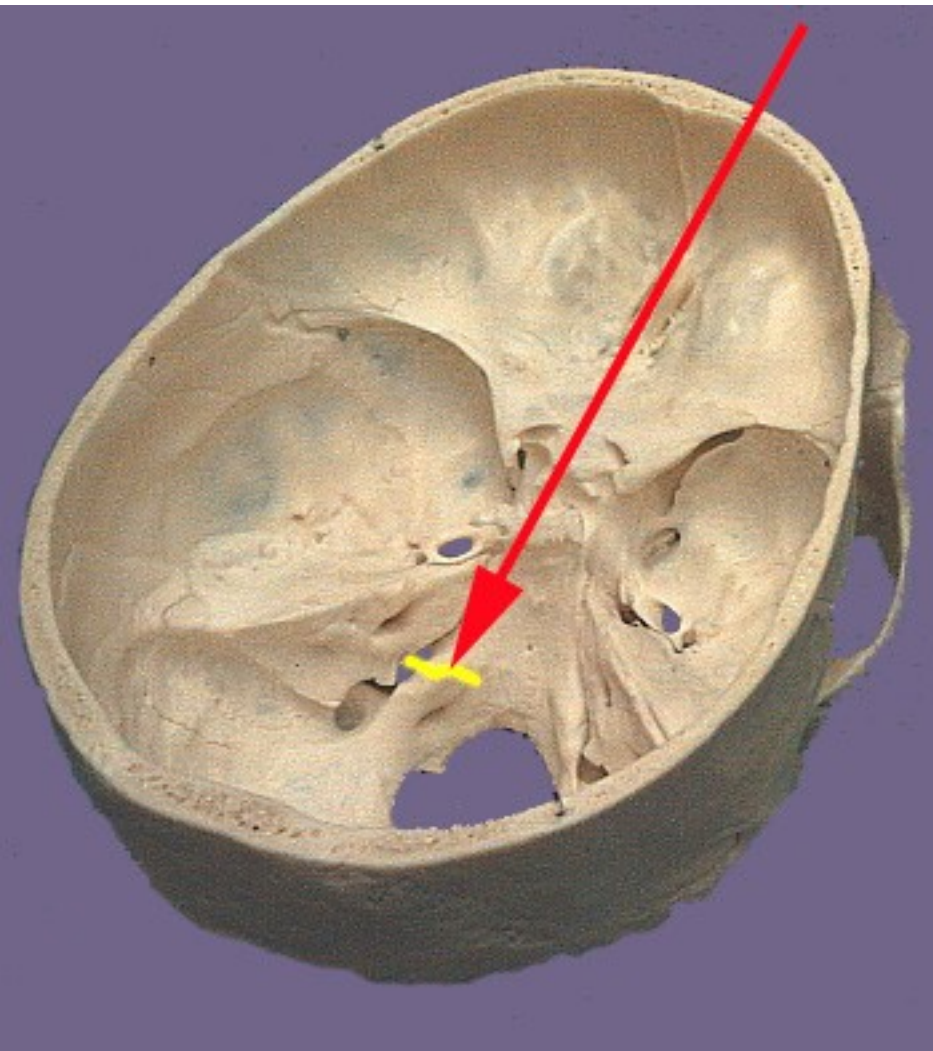
Foramen stylomastoideum

Proc. mastoideus

M. digastricus, Venter posterior

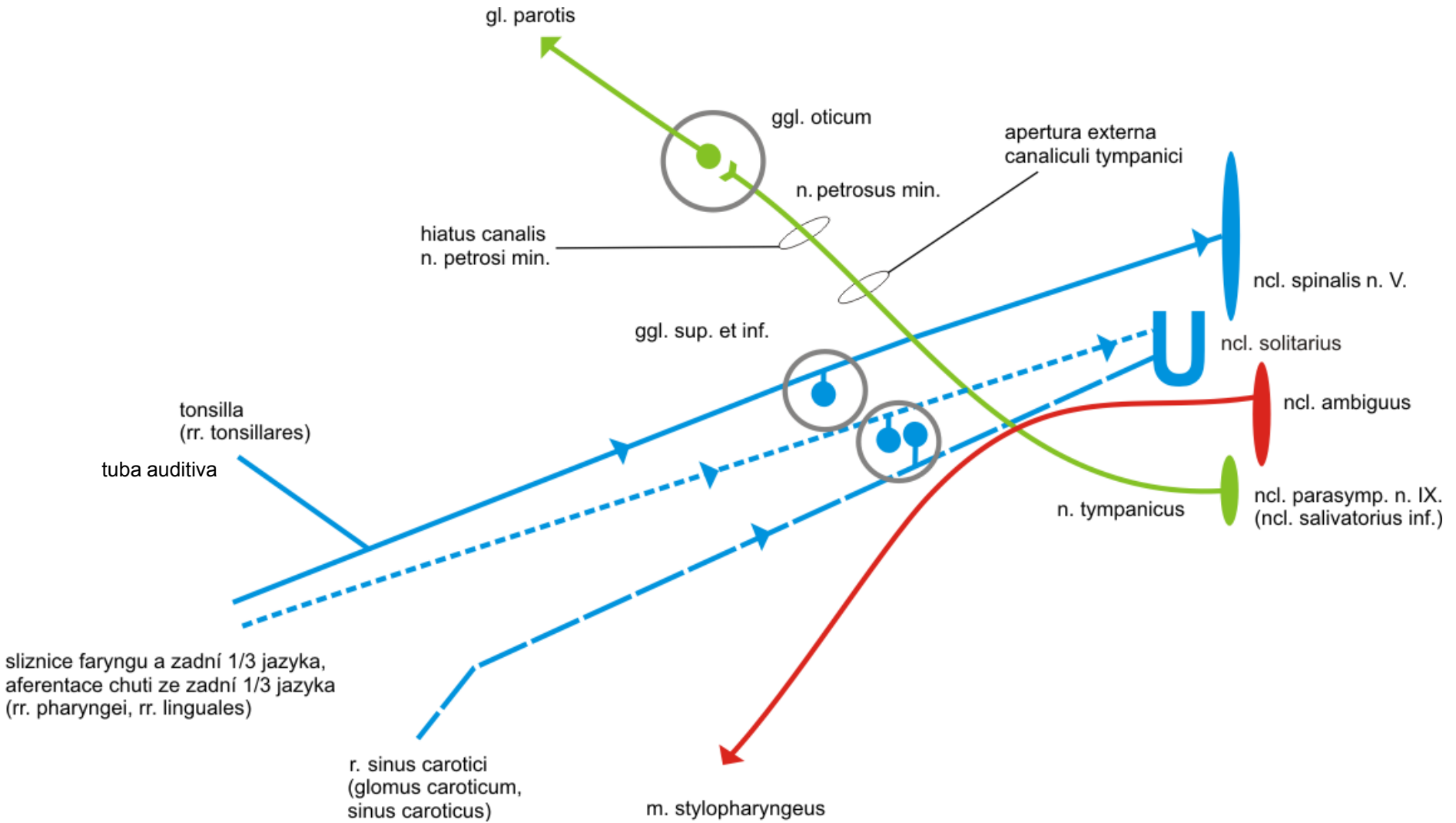
N. facialis, R. stylohyoideus

N. facialis, R. digastricus



n. IX.

n. IX.



Inervační oblasti n. IX:

Somatosenzoricky

- Sliznice faryngu
- Tonsilla palatina, tuba auditiva
- Sliznice zadní třetiny jazyka

Senzoricky (chuť)

- Chuťové pohárky
- zadní třetiny jazyka

Viscerosenzoricky

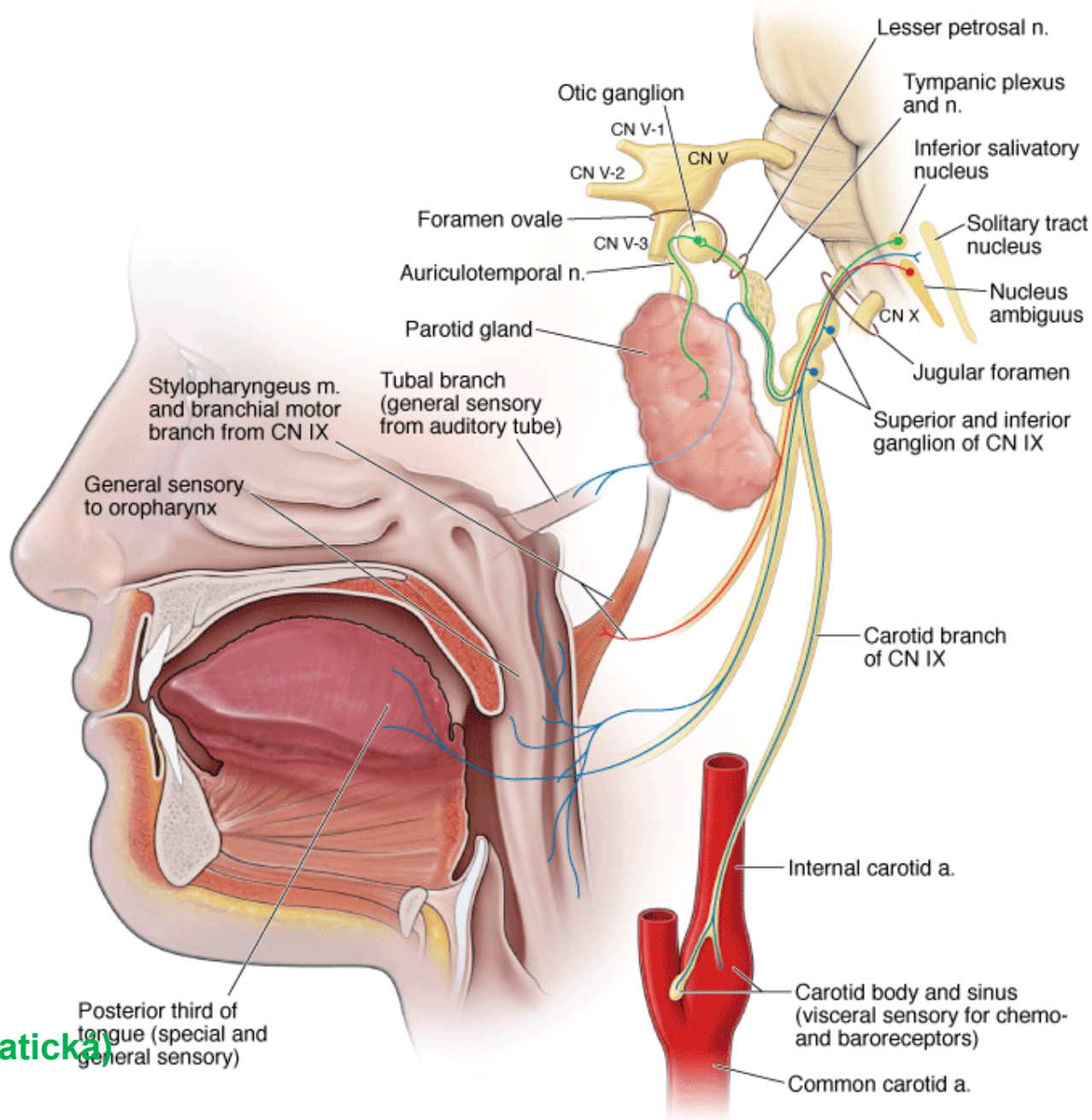
- Glomus caroticum
- Sinus caroticus

Motoricky (Branchiomotor.)

m. stylopharyngeus

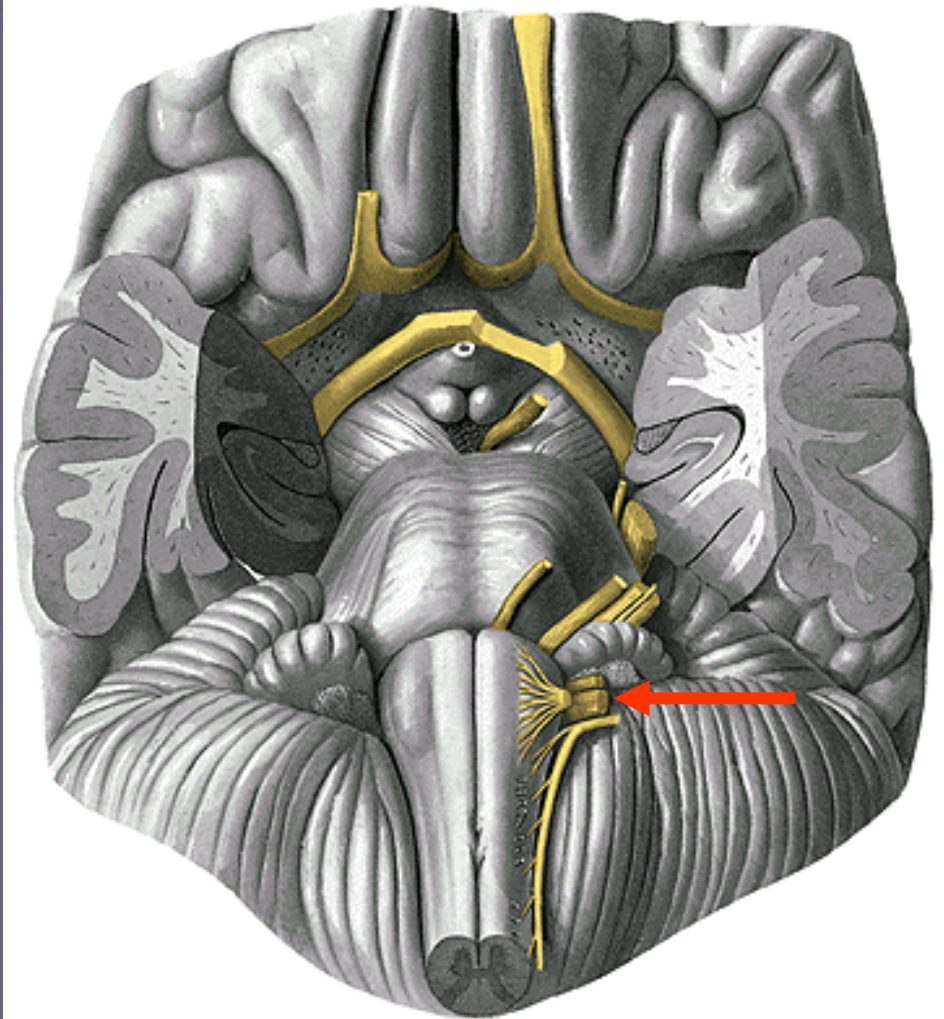
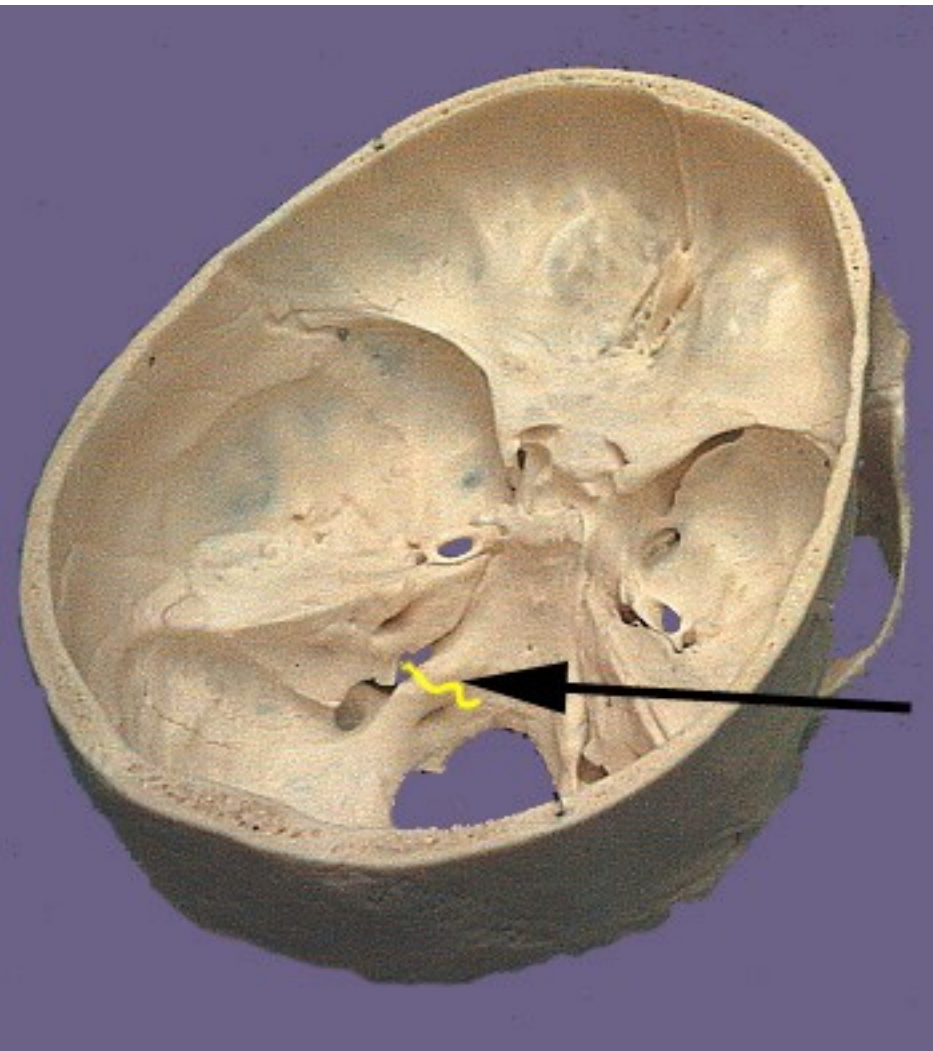
Visceromotorická (parasymptická)

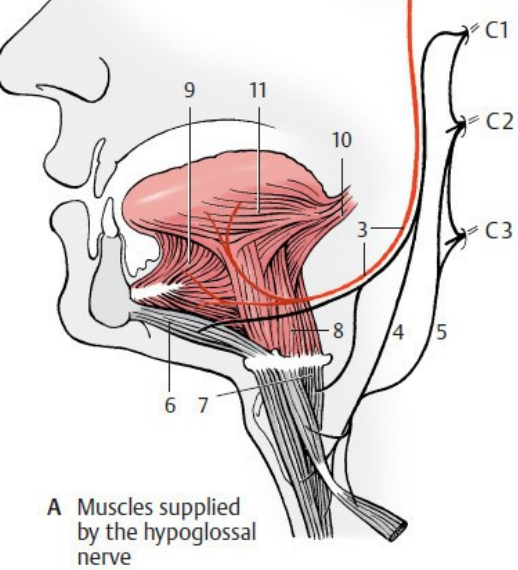
gl. parotis



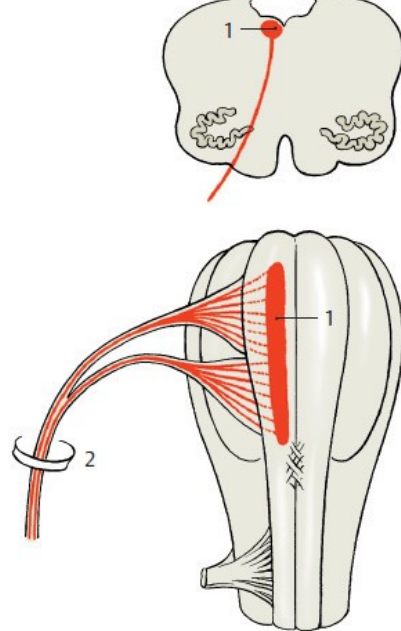
Source: Morton DA, Foreman KB, Albertine KH: *The Big Picture: Gross Anatomy*: www.accessmedicine.com
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n. X.

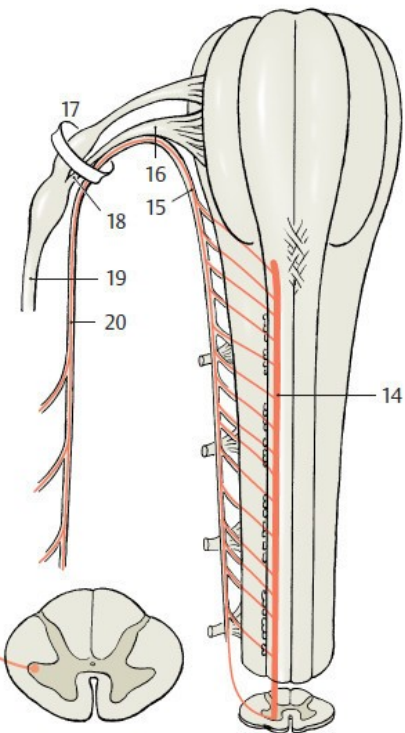




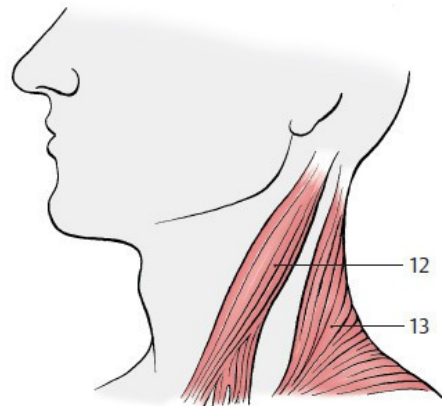
A Muscles supplied by the hypoglossal nerve



B Nuclear region and exit of the hypoglossal nerve



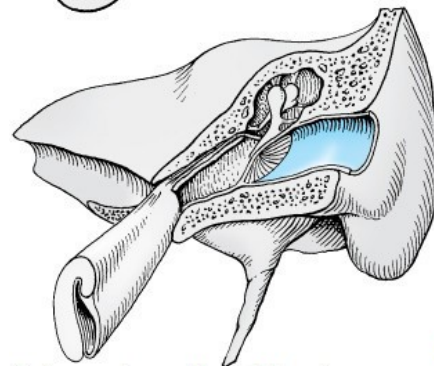
C Nuclear region and exit of the accessory nerve



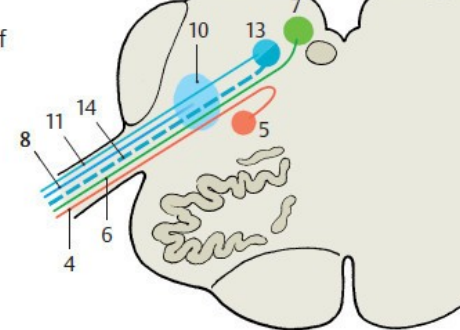
D Muscles supplied by the accessory nerve



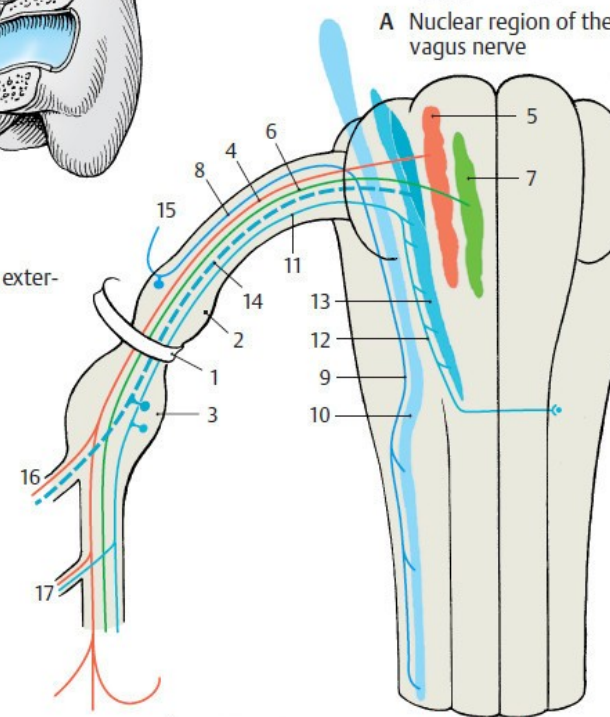
C Sensory innervation of the external ear



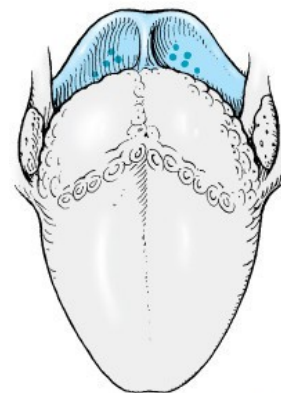
D Sensory innervation of the external acoustic meatus



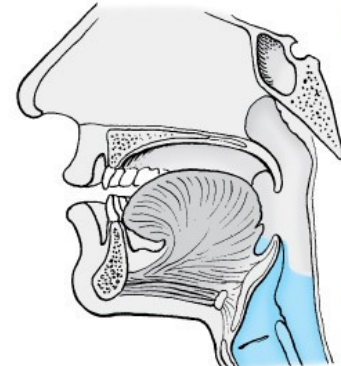
A Nuclear region of the vagus nerve



B Exit of the vagus nerve

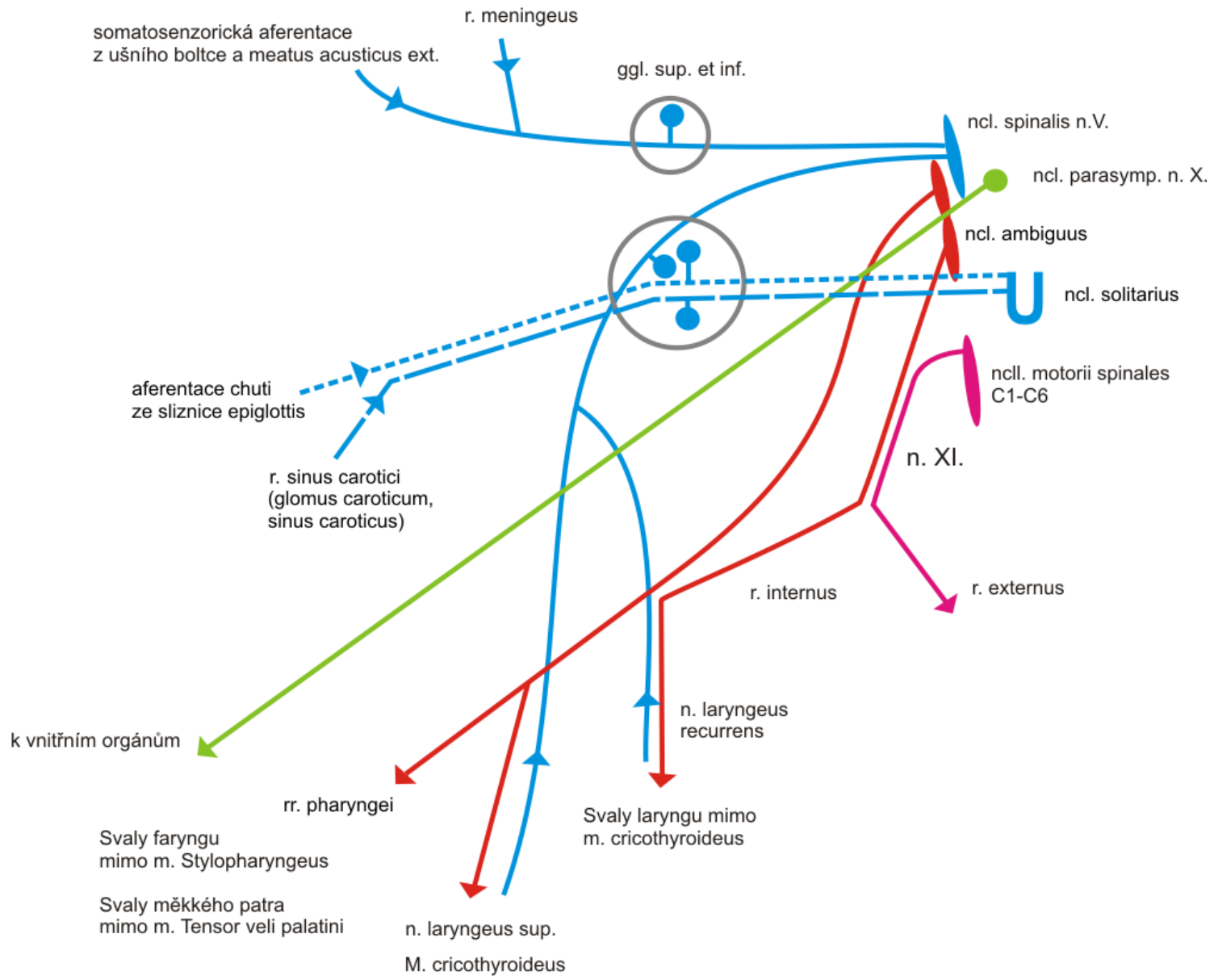


E Sensory innervation of the tongue; taste



F Sensory innervation of the pharynx

n. X.



Inervační oblasti n. X:

Somatosensorická

Ušní boltec a meatus acusticus ext.
Meningy, sliznice laryngu

Sensorická (chut')

Chuťové pohárky epiglottis

Viscerosenzorická

Glomus caroticum
Sinus caroticus

Motoricky (Branchiomotor.)

Svaly faryngu mimo m. stylopharyngeus

Svaly měkkého patra mimo m. tensor veli palatini

Svaly laryngu

m. cricothyroideus – n. laryngeus sup., r. externus

Ostatní svaly laryngu – n. laryngeus recurrens (zdroj r. internus n. XI.)

Visceromotorická (parasymptická)

Vnitřní orgány

Větve n. vagus

Malé auto **faráře**, láme kamarádům **rekord**, kamarád **brojí esem**, gangsterskou cestou k **Heleně rezavé**.

r. **meningeus**

rr **auriculares**

rr. **pharyngei**

rr. **laryngei sup.**

rr. **cardiaci cervicales sup.**

n. laryngeus **reccurens**, n. lar. inf.

rr. **cardiaci cervicales inf.**

rr. **cardiaci thoracici**

rr. **bronchiales**

rr. **tracheales**,

rr. **oesophagei**, plexus oesophageus,

plexus pulmonalis

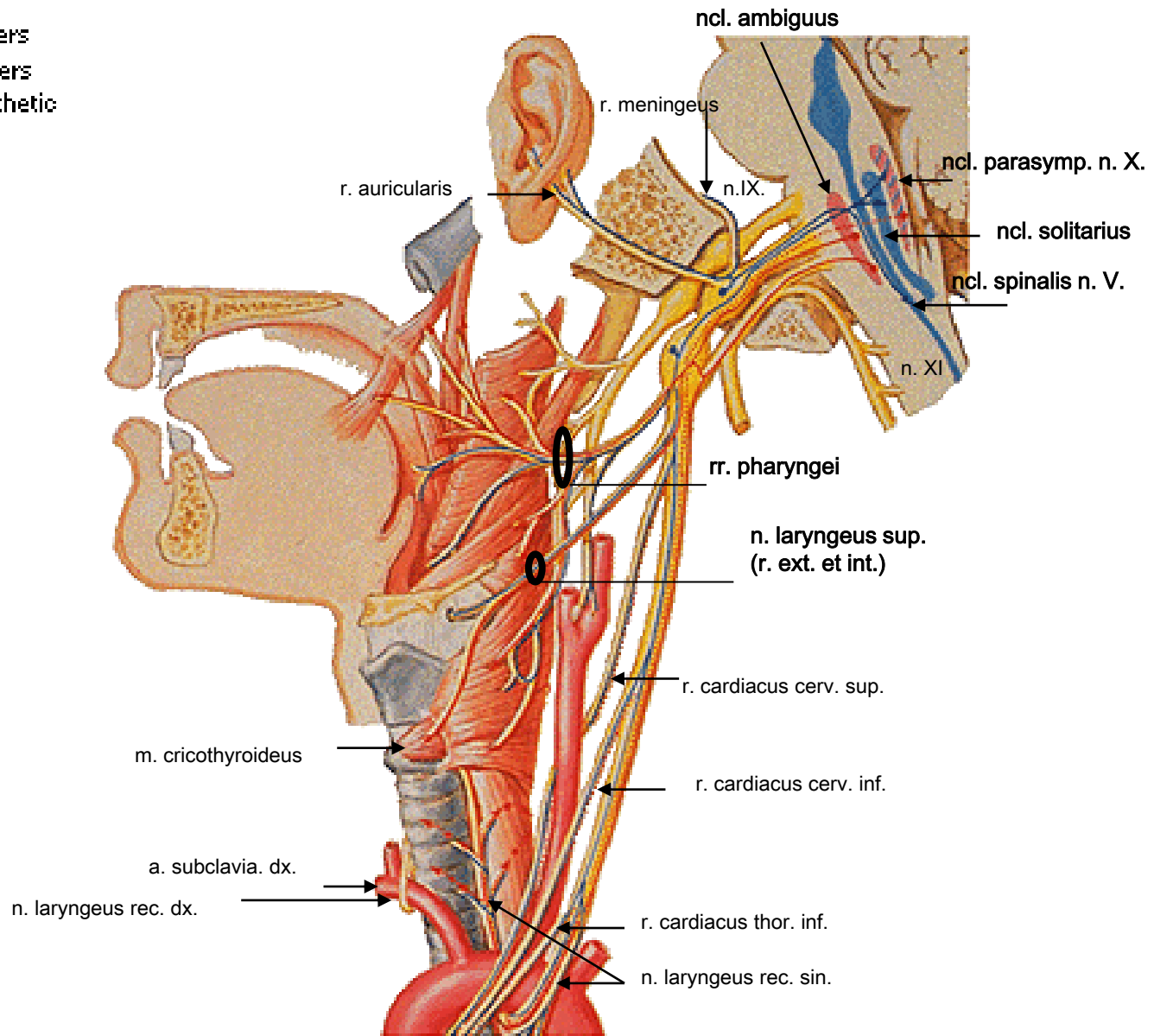
truncus vagalis ant., post. -----rr. **gastrici ant. post.**,

rr. **coeliaci**

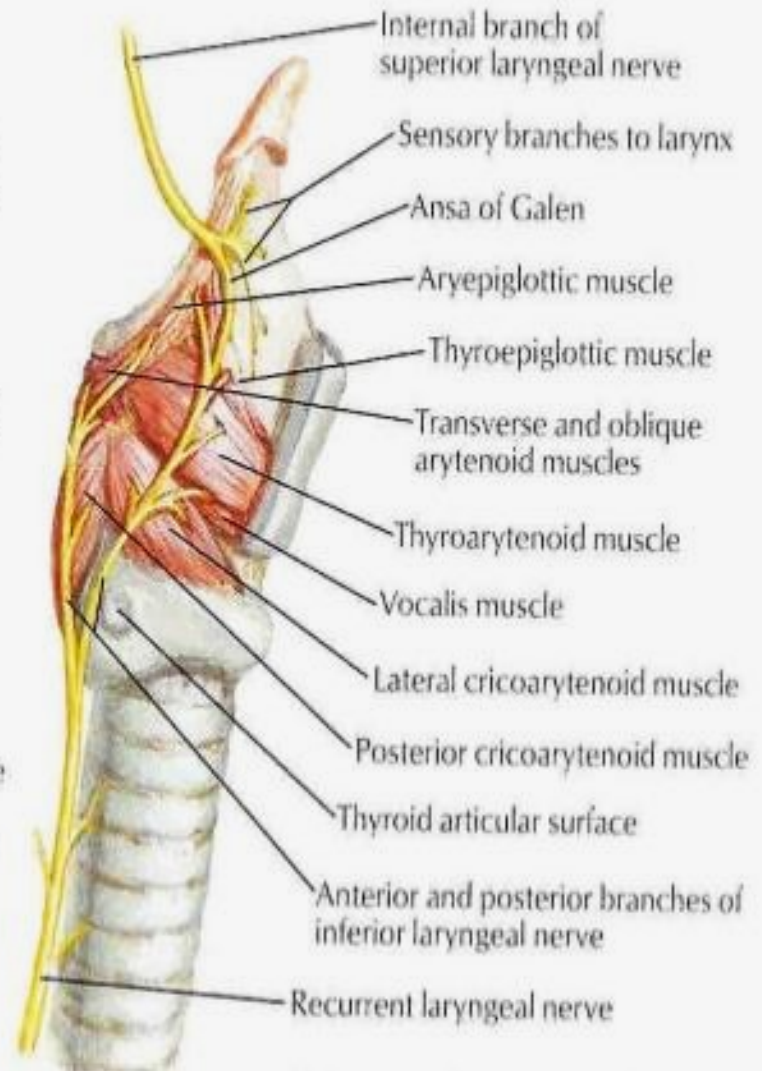
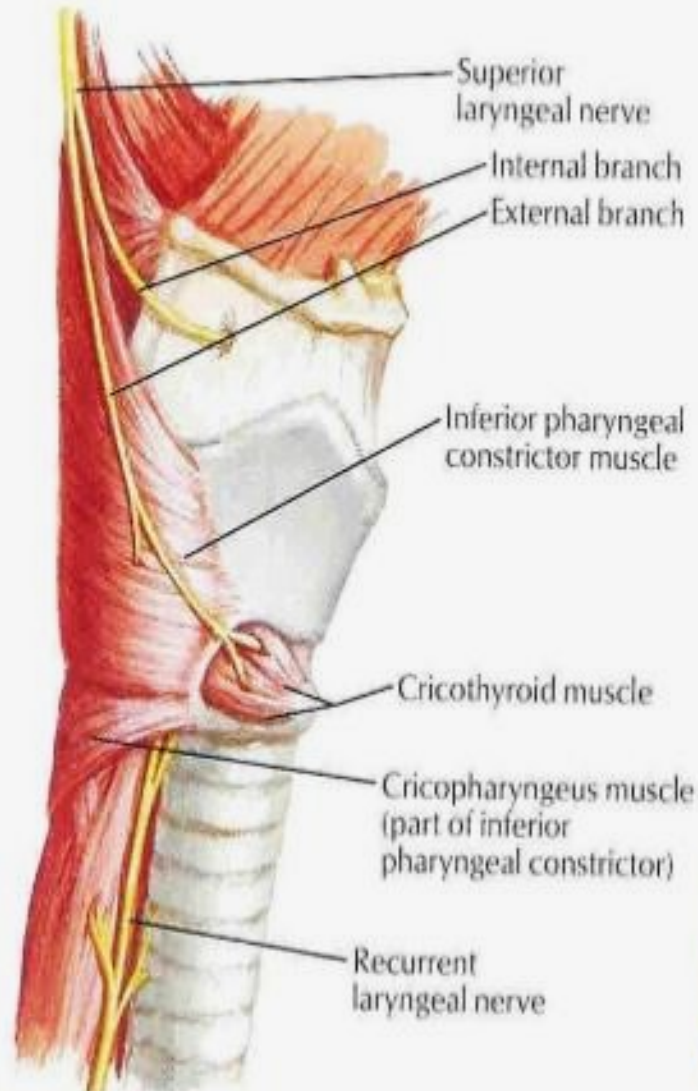
rr. **hepatici**

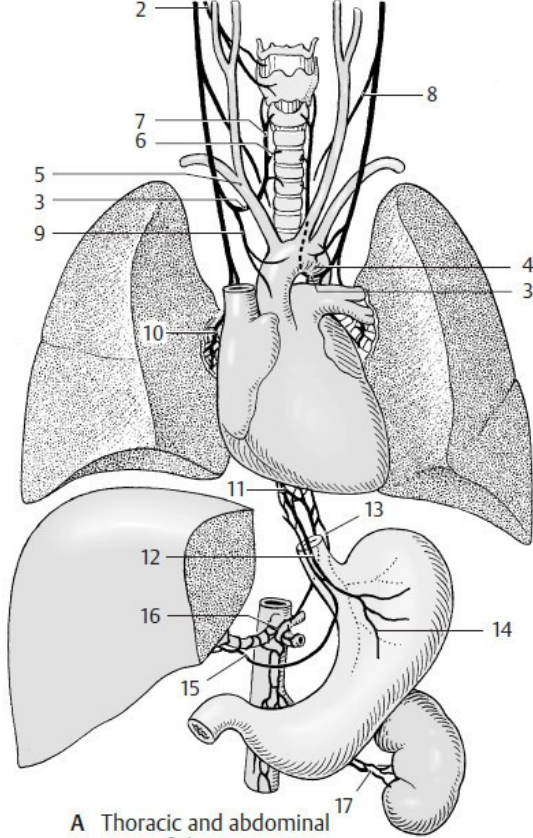
rr. **renales**

- Efferent fibers
- Afferent fibers
- ⋯ Parasympathetic fibers

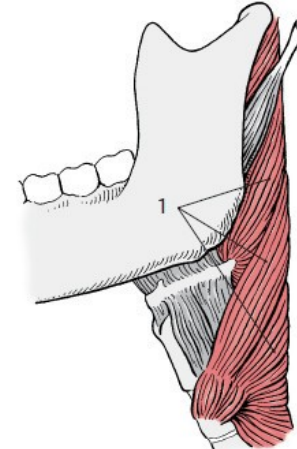


NERVE SUPPLY OF LARYNX

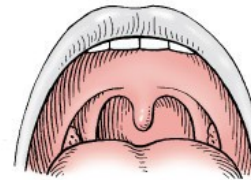




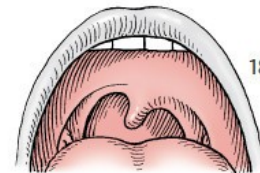
A Thoracic and abdominal parts of the vagus nerve (according to *Feneis*)



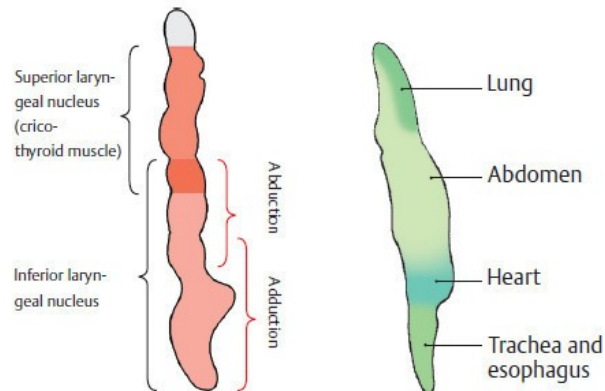
B Muscles innervated by the vagus nerve



E Velum palatinum and vocal cords (normal)



F Velum palatinum and vocal cords in case of paralysis of the left vagus nerve

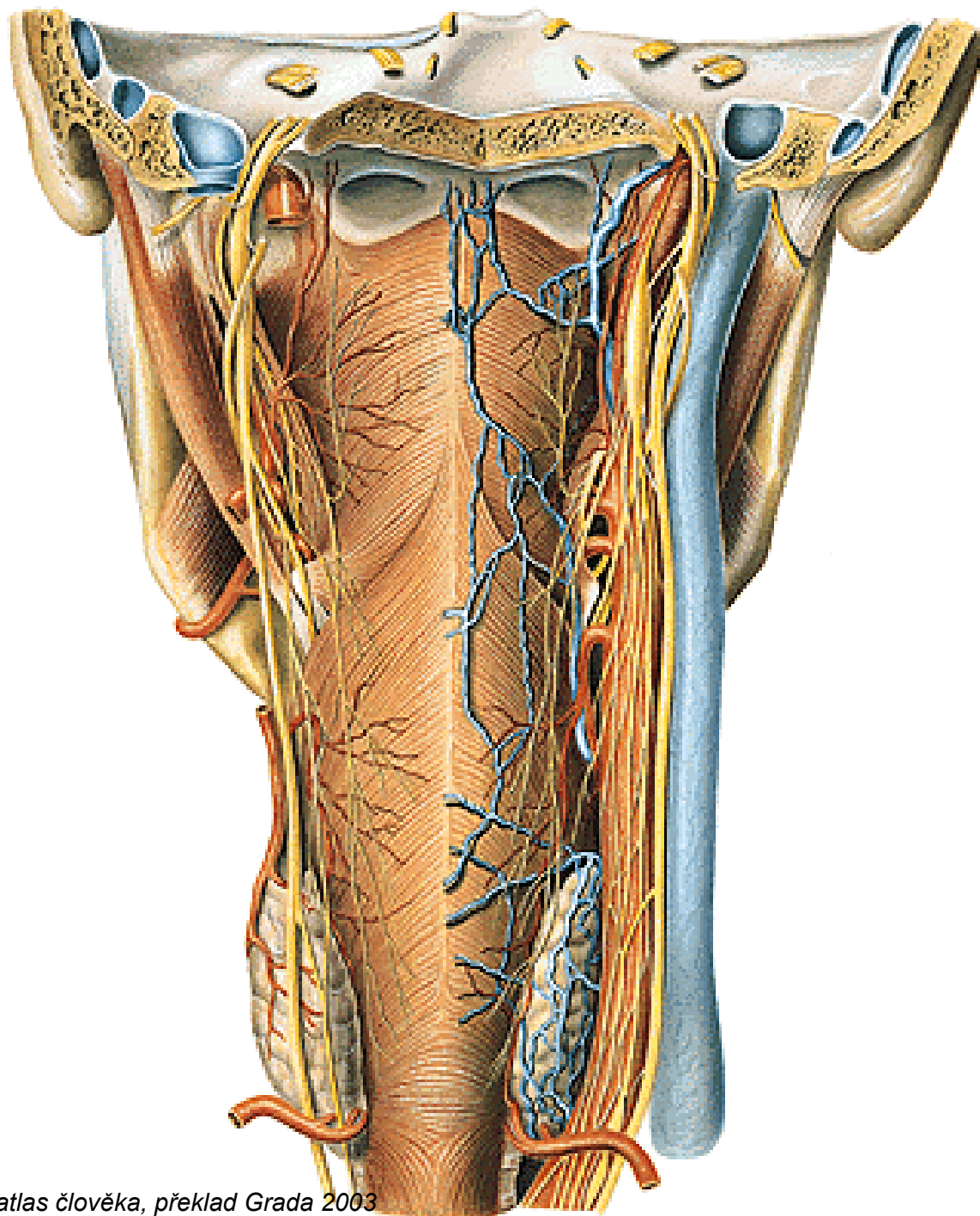


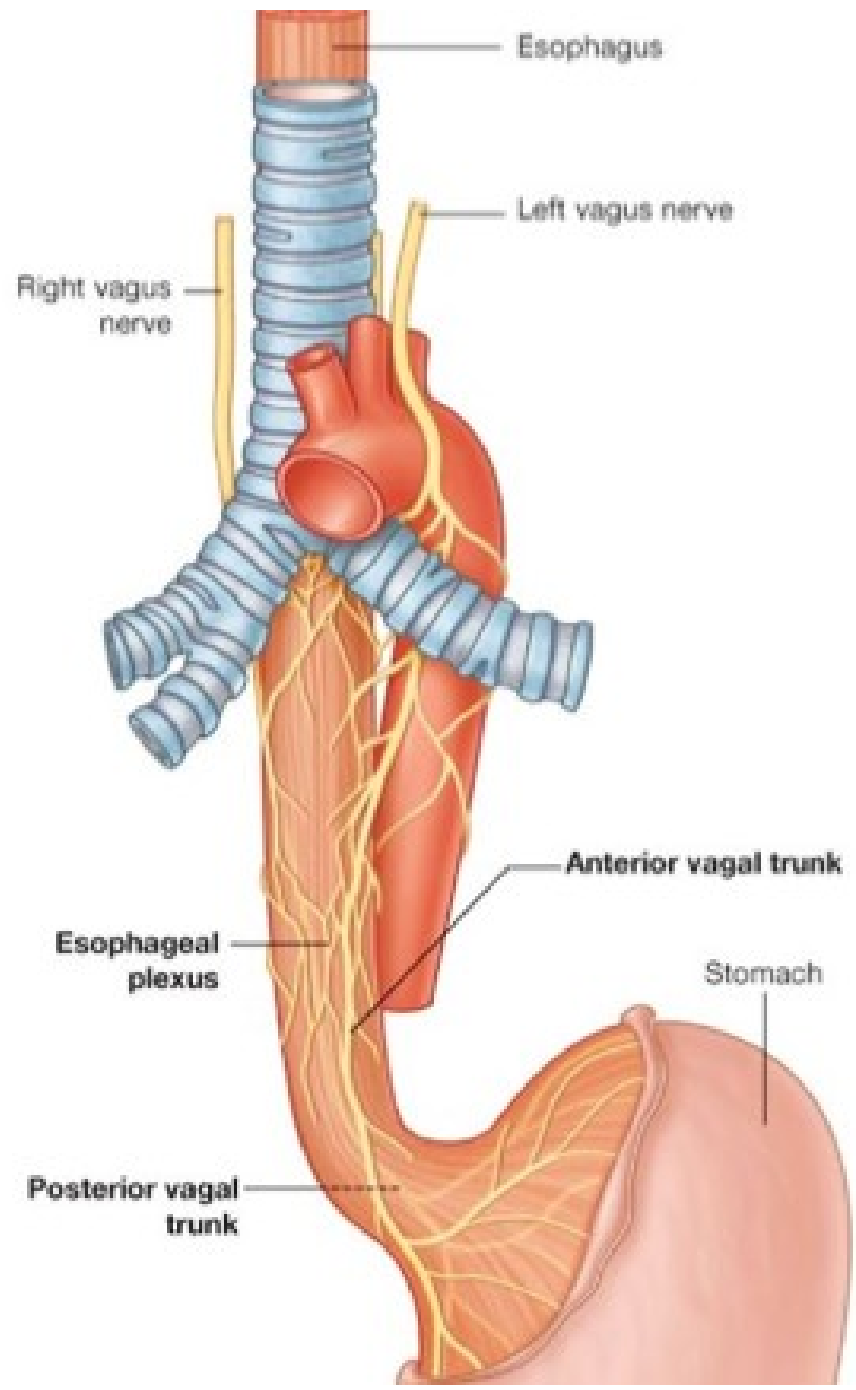
C Somatotopic organization of the ambiguous nucleus (according to *Crosby, Humphrey, and Lauer*)

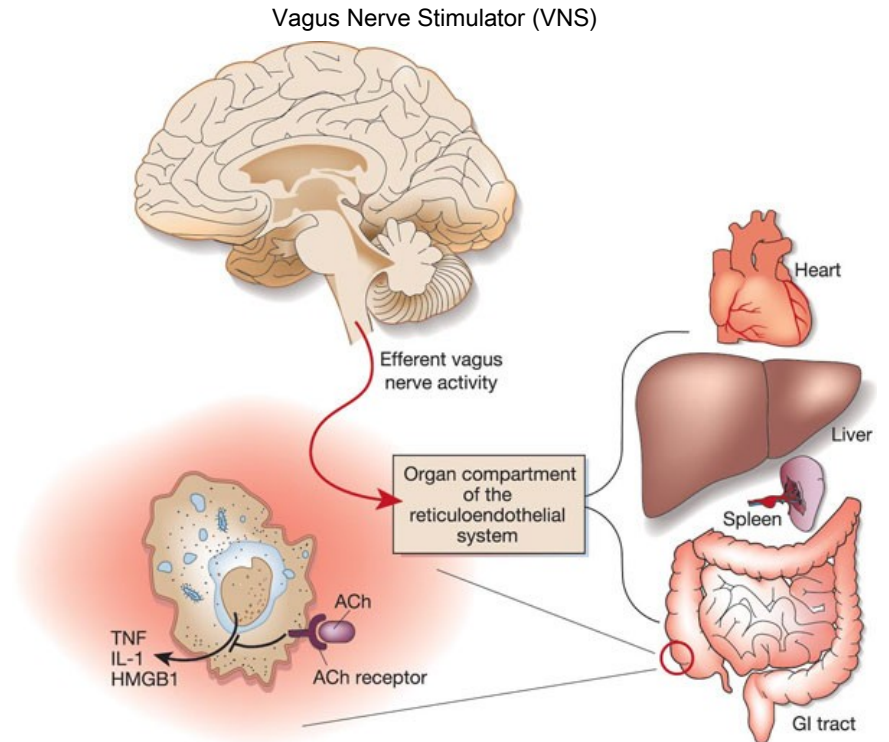
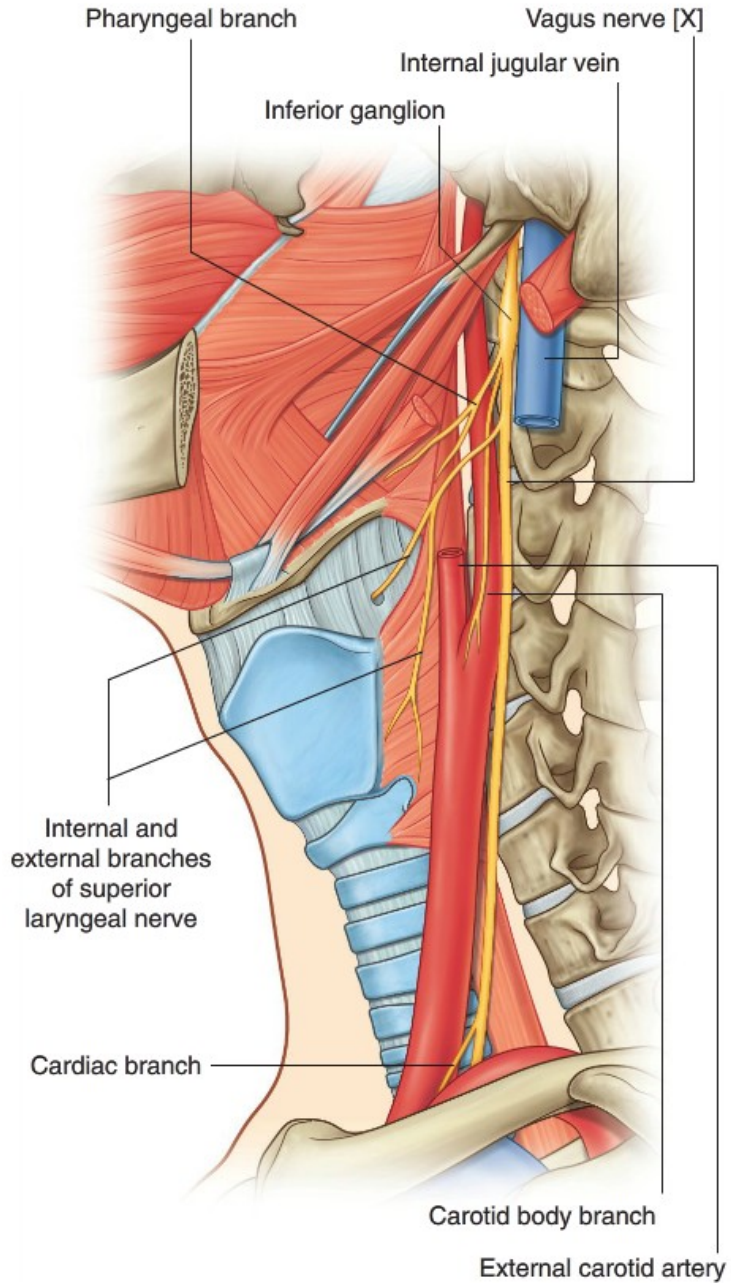
D Somatotopic organization of the posterior nucleus of the vagus nerve (according to *Getz and Siemes*)

18

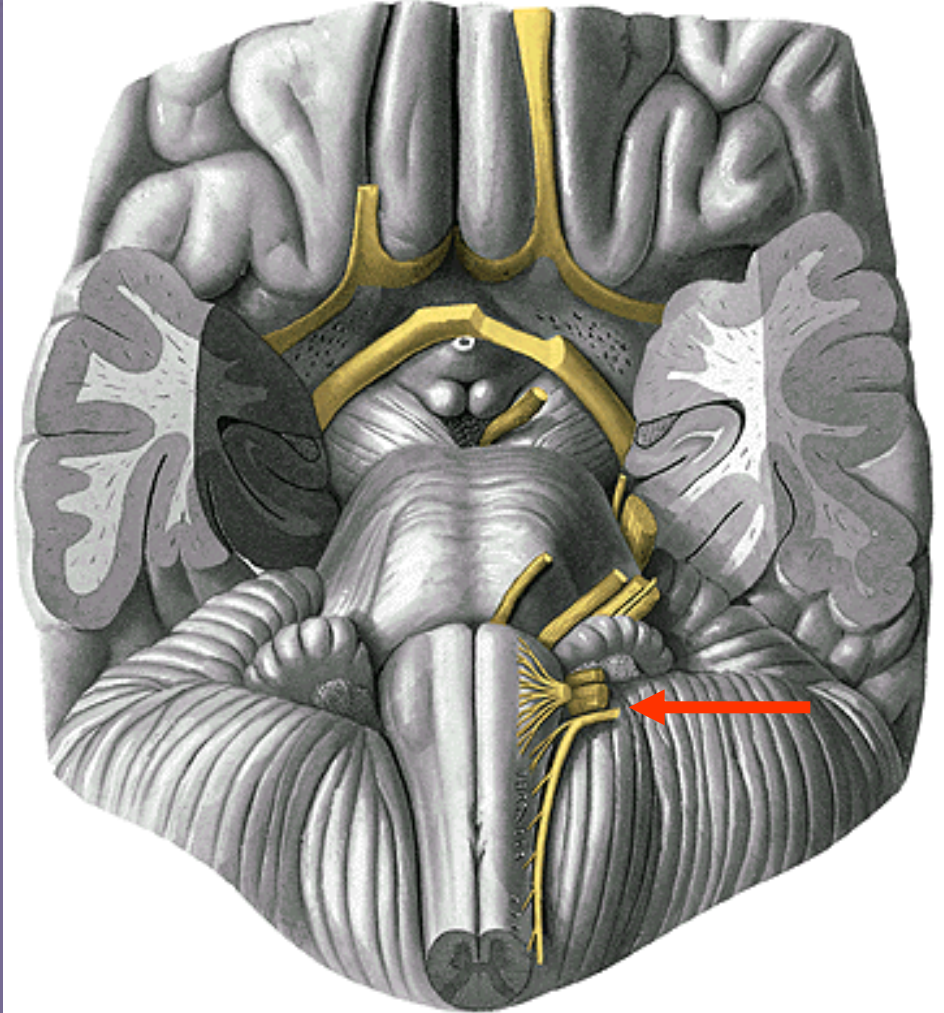
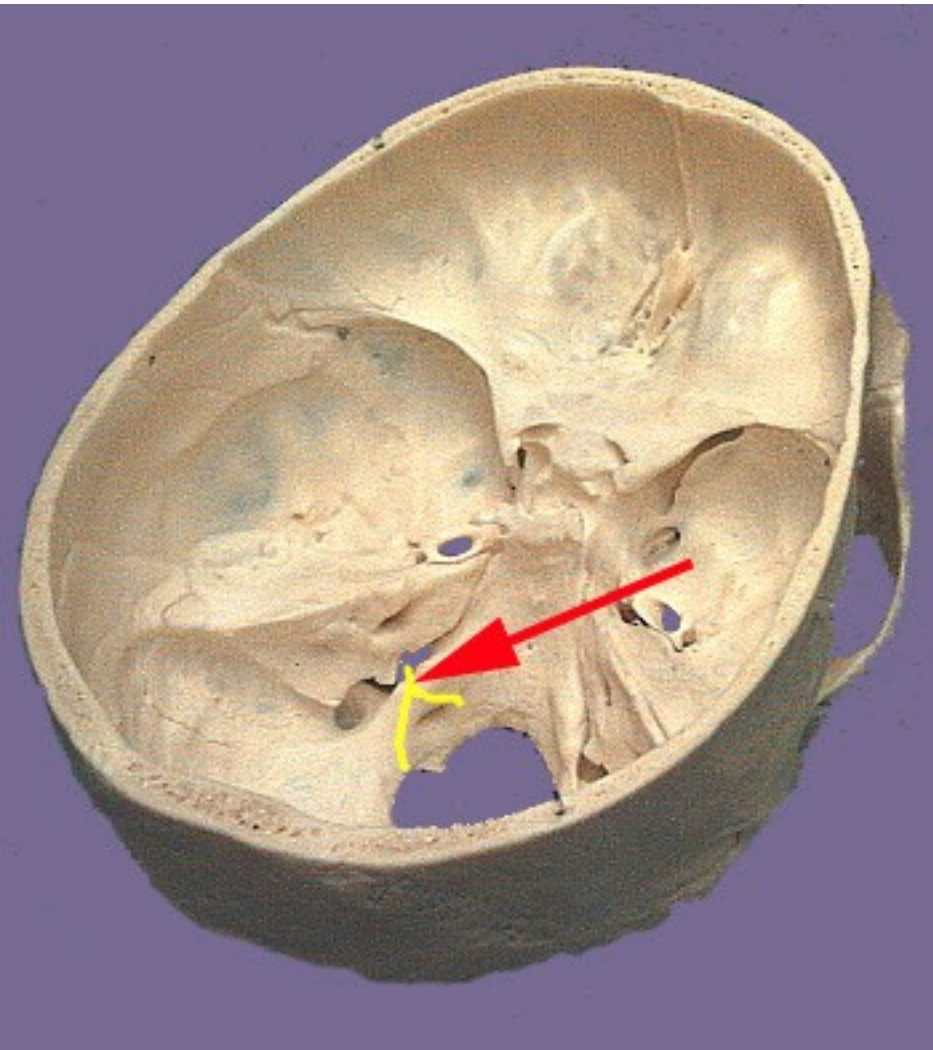
19



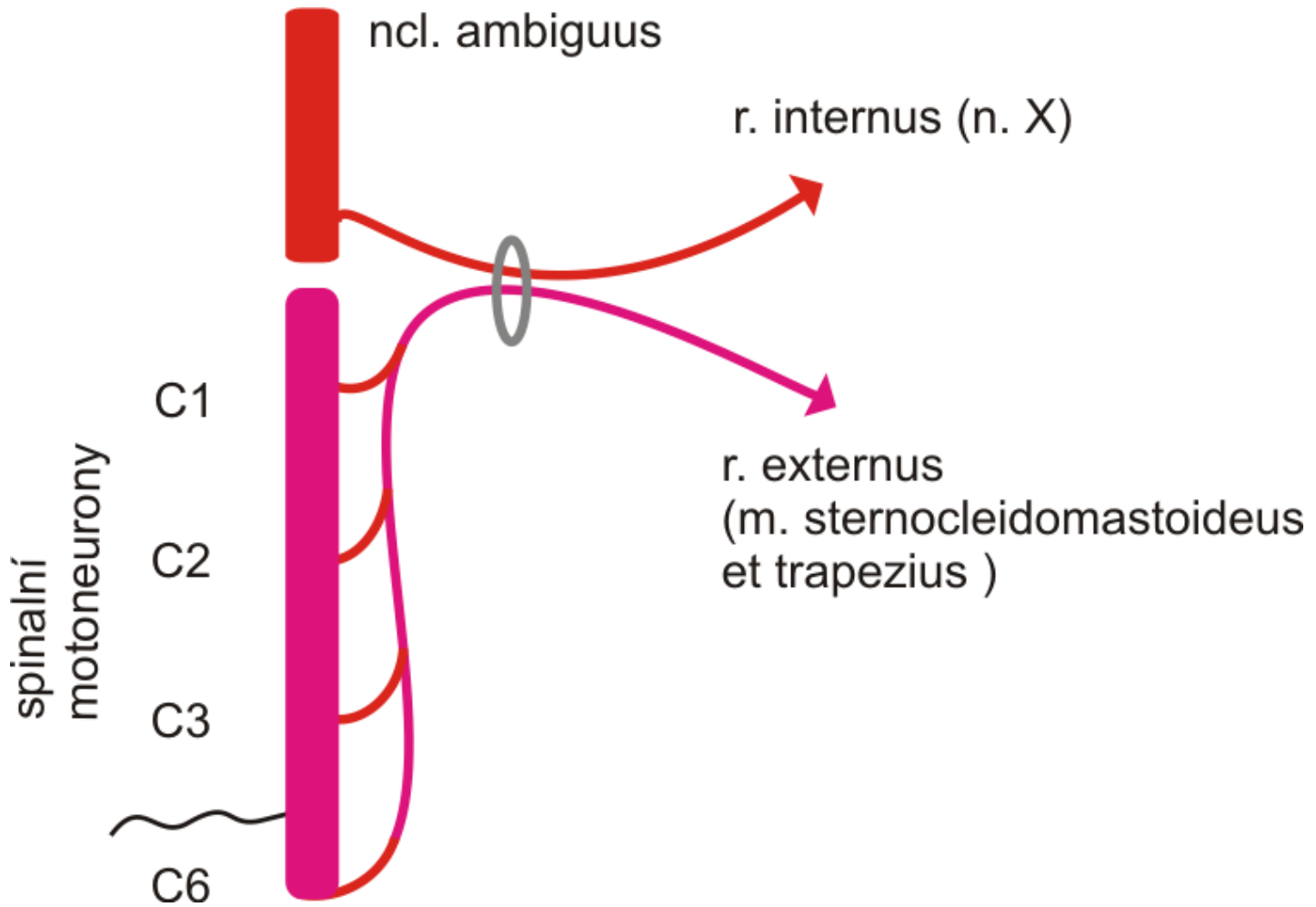


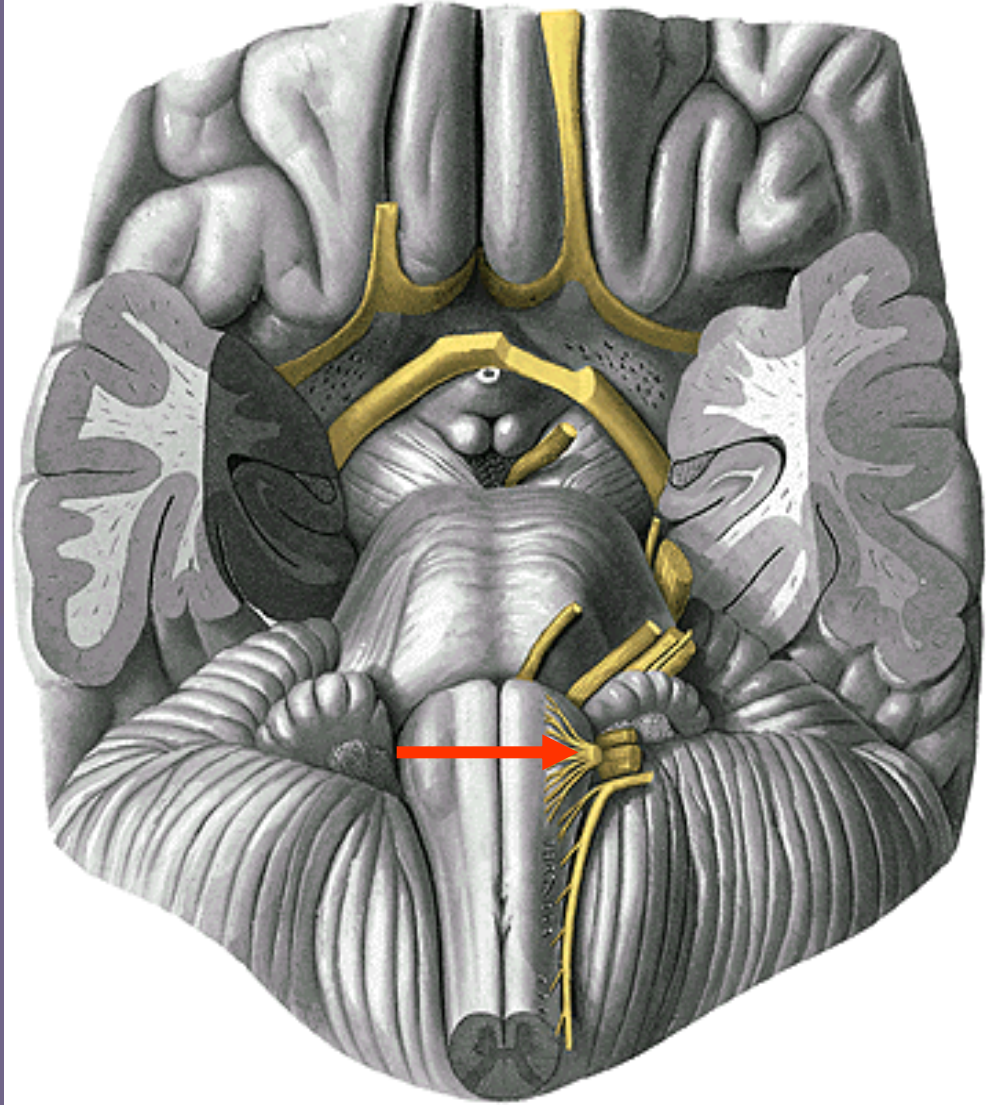
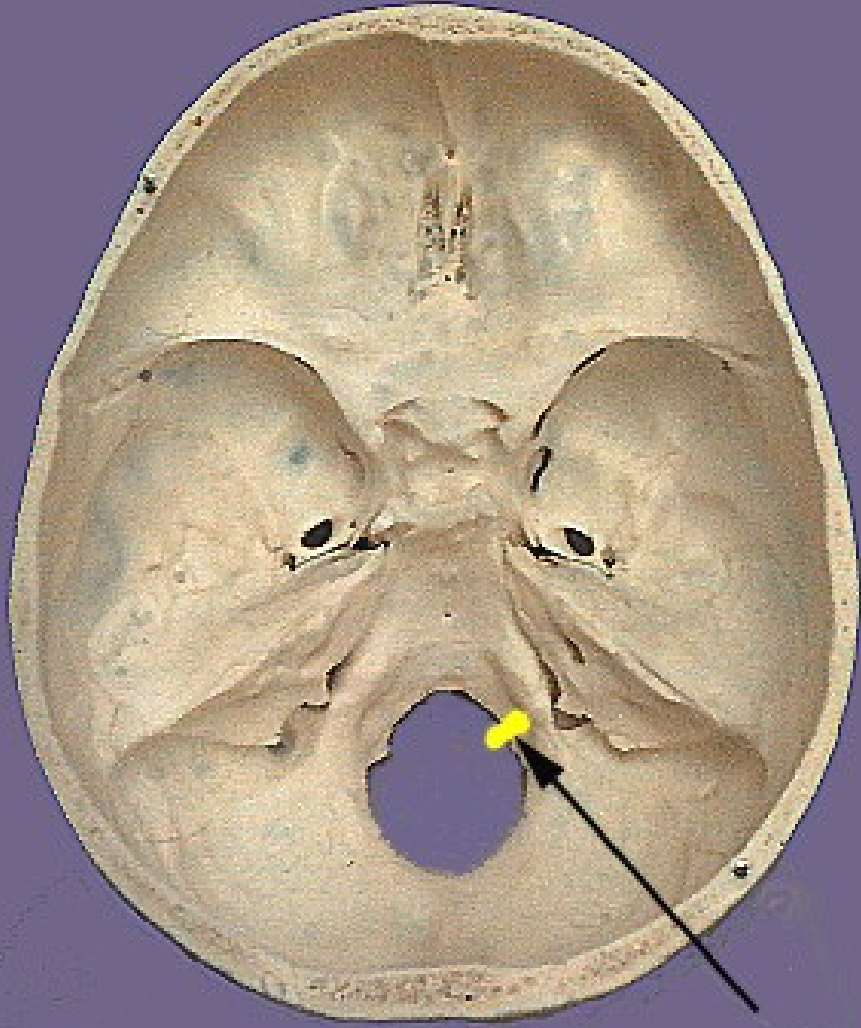


n. XI.



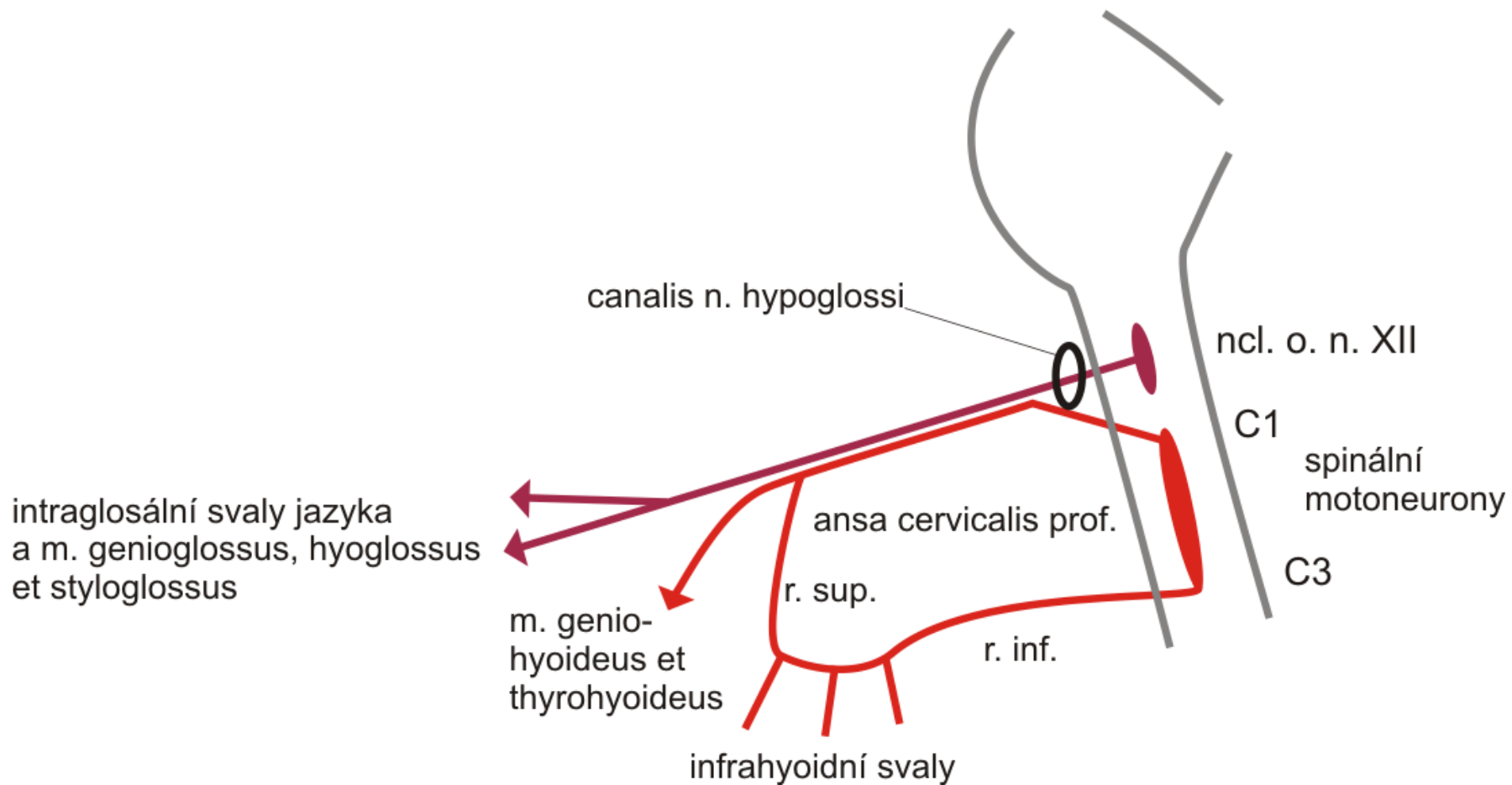
n. XI.

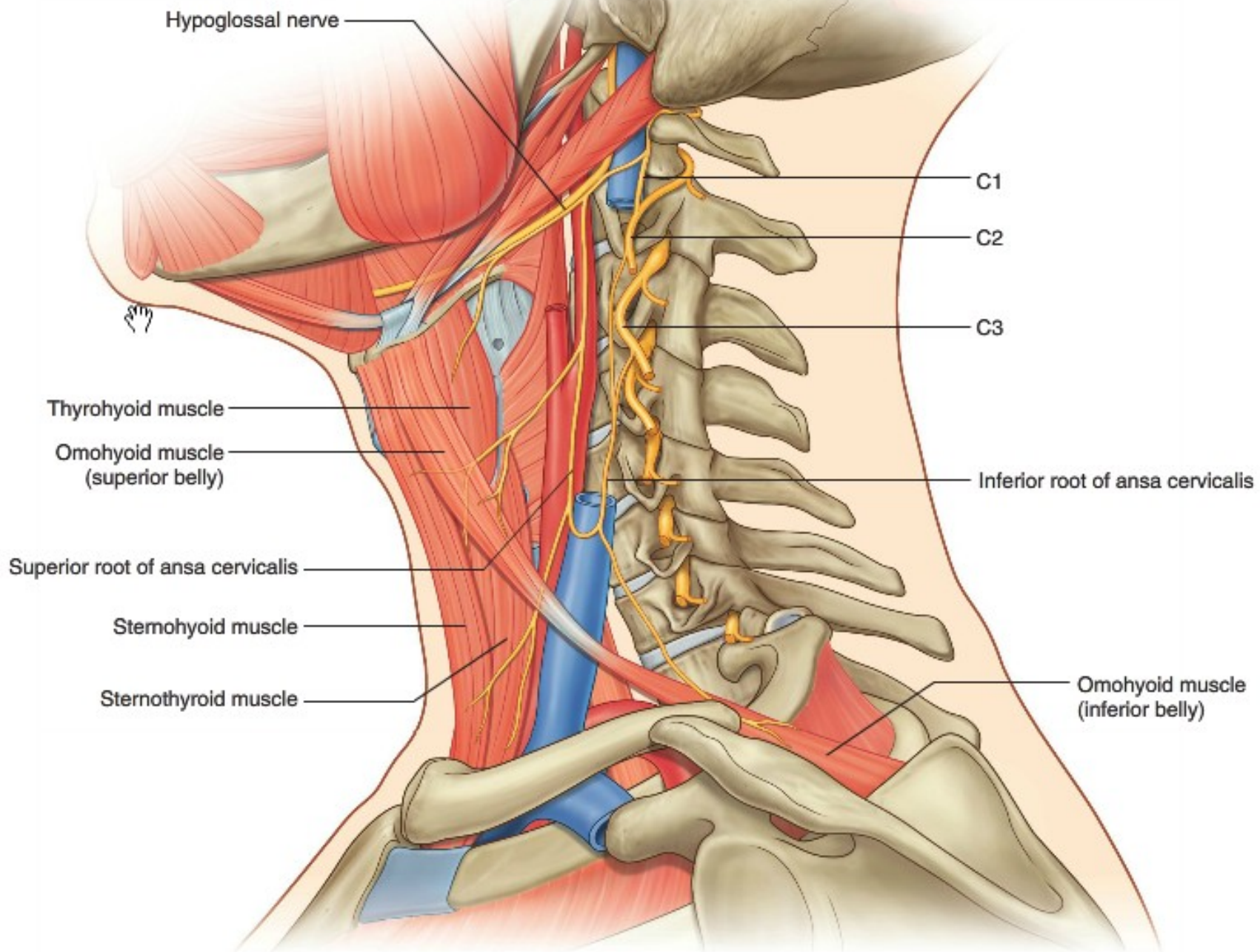




n. XII.

n. XII.





Leze n. hypoglossus – jazyk na stranu nepoškodeného nervu

