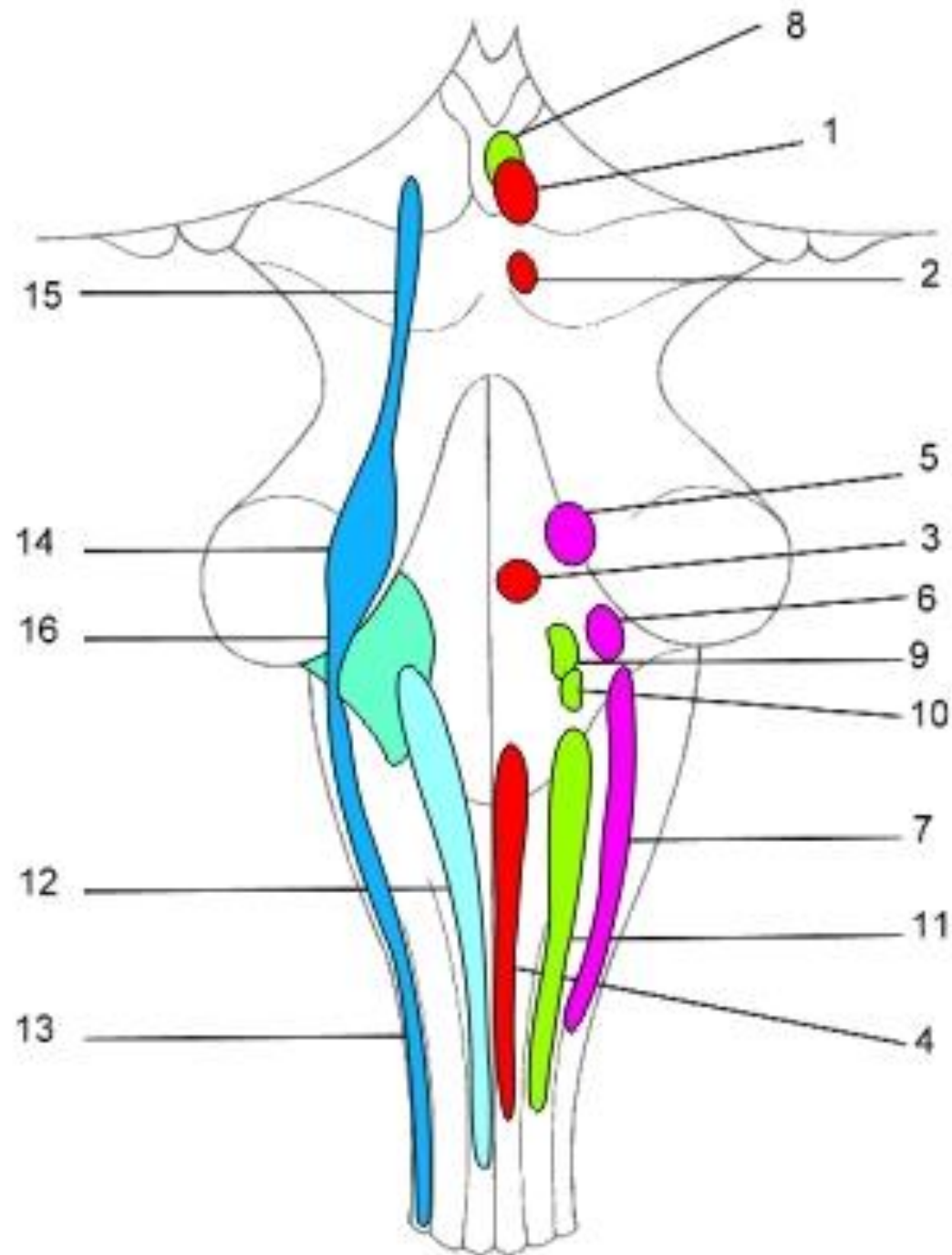
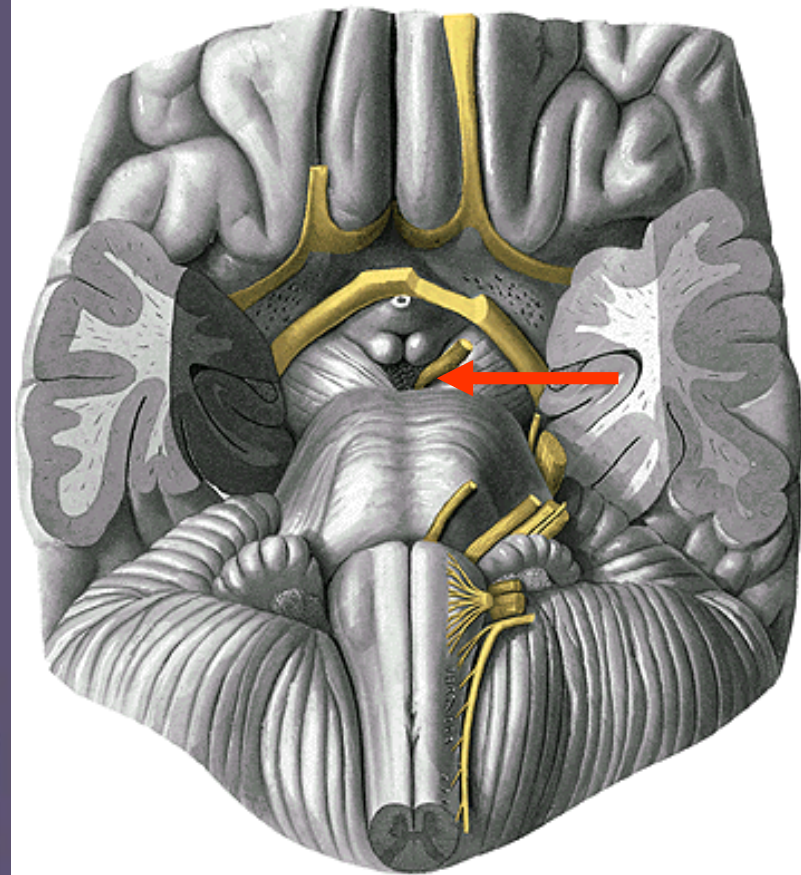
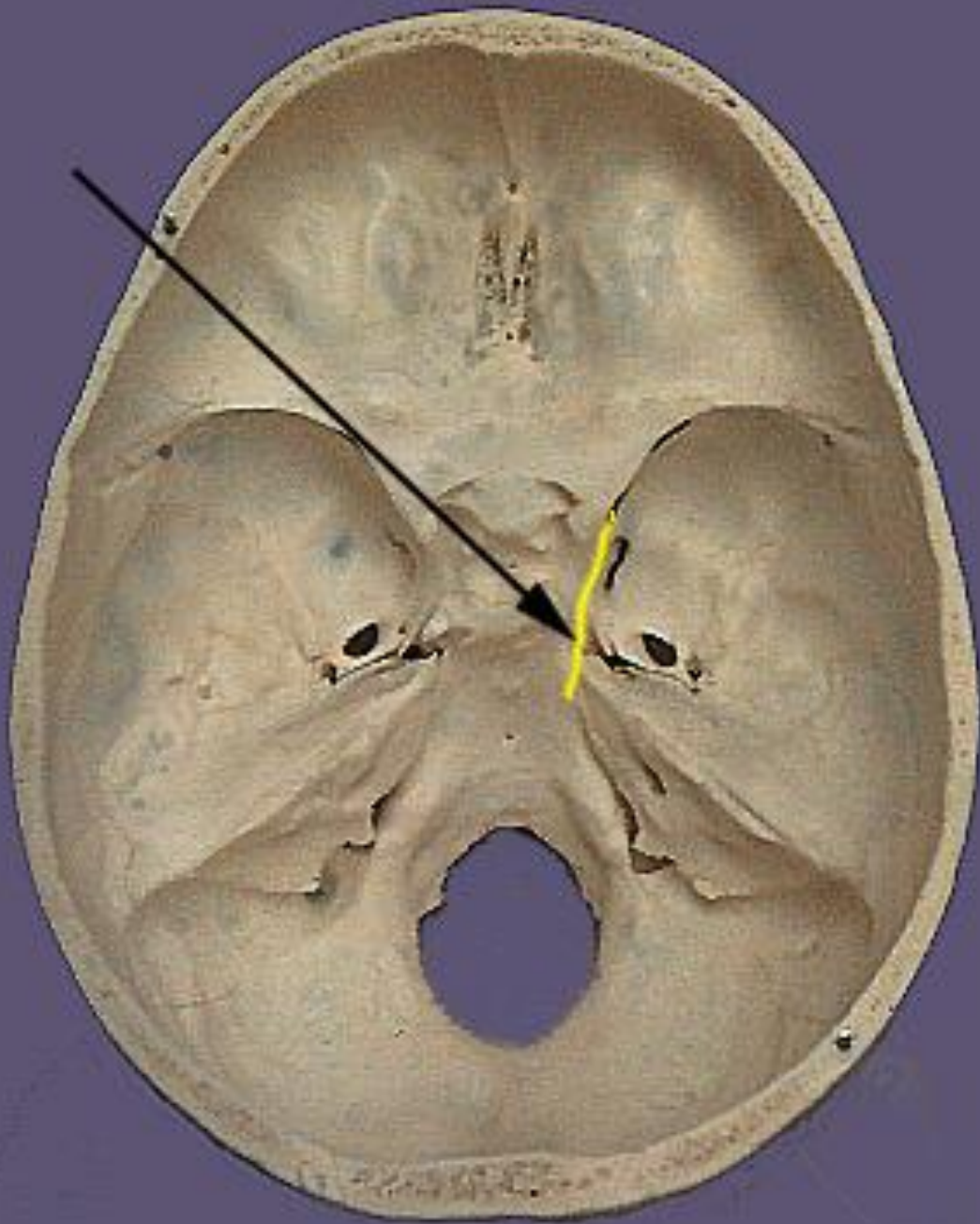


## **Základní orientace: hlavové nervy**

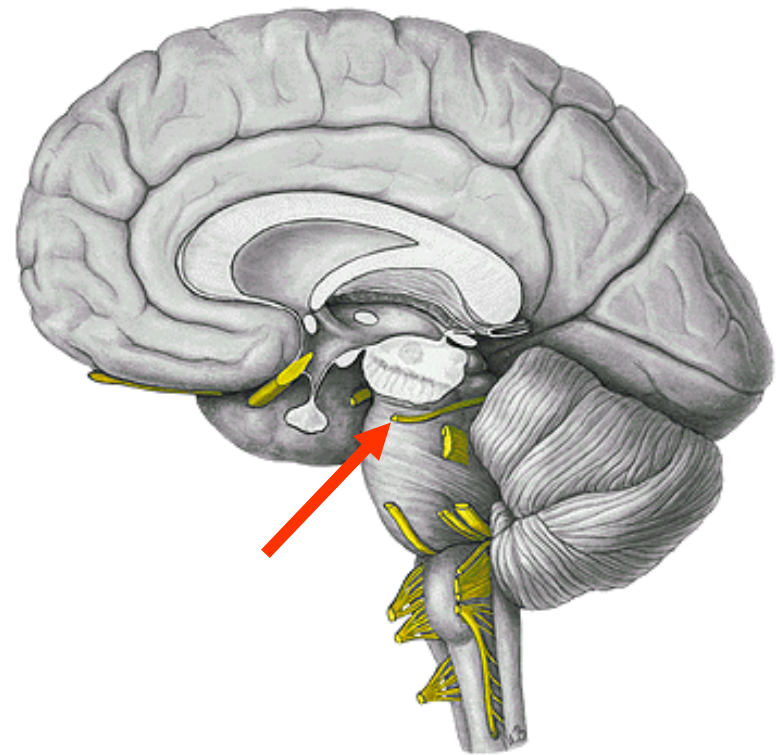
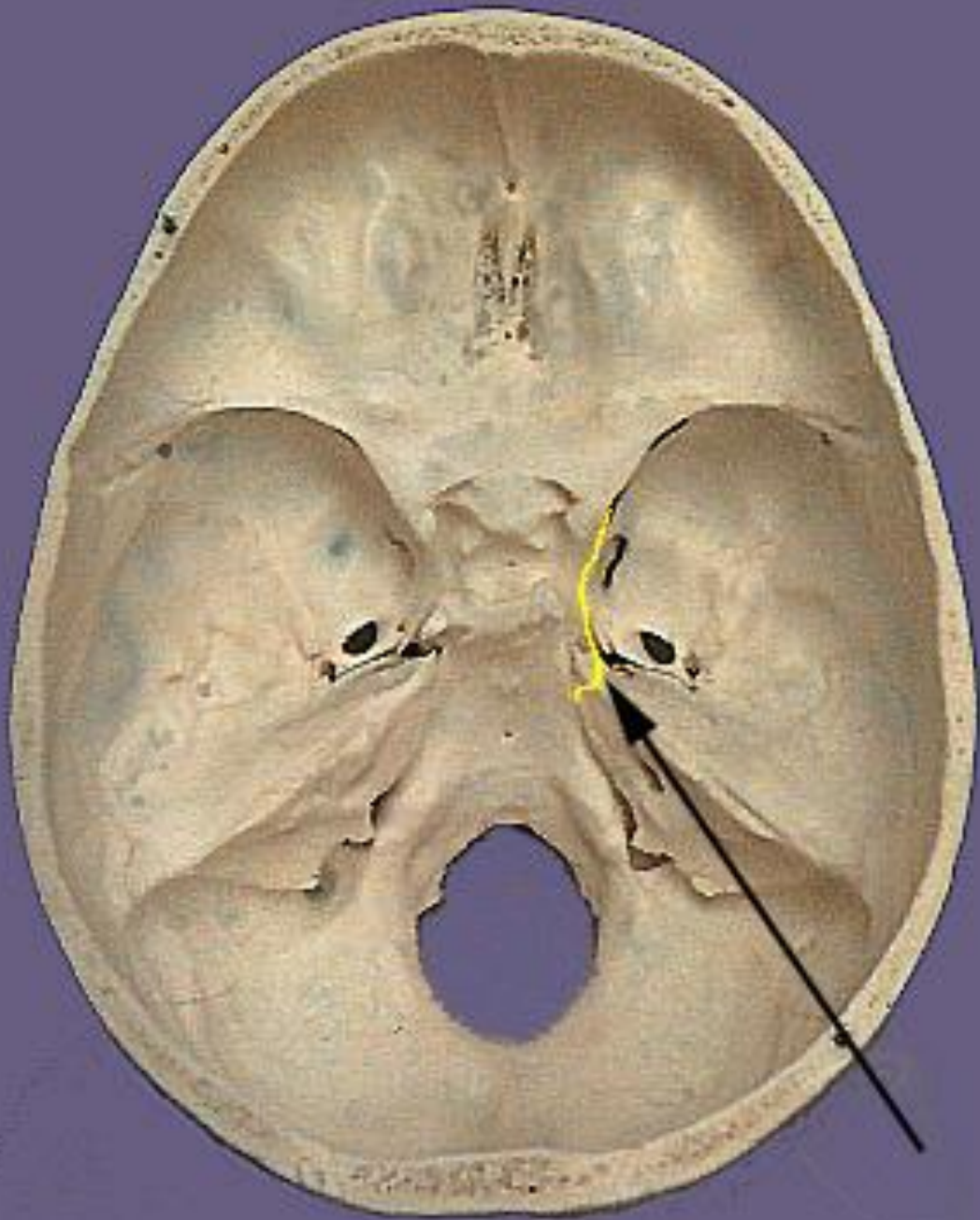
- odstup hlavového nervu z kmene a průběh přes bazi lební
- jádra hlavového nervu v segmentu kmene
- funkční zóny jader hlavového nervu a typy nervových vláken
- hlavní větve a inervační oblasti hlavového nervu

- 1 - ncl. motorius (originis) n. III.
- 2 - ncl. motorius (originis) n. IV.
- 3 - ncl. motorius (originis) n. VI.
- 4 - ncl. motorius (originis) n. XII.
- 5 - ncl. motorius (originis) n. VII.
- 6 - ncl. motorius (masticatorius) n. V.
- 7 - ncl. motorius (originis) n.
- 8 - ncl. parasympathicus n. III (ncl. E.W.)
- 9 - ncl. parasympathicus n. VII.
- 10 - ncl. parasympathicus n. IX.
- 11 - ncl. parasympathicus n. X.
- 12 - ncl. solitarius
- 13 - ncl. spinalis n. V.
- 14 - ncl. principalis n. V.
- 15 - ncl. mesencephalicus n. V.
- 16 - ncll. cochleares et vestibulares



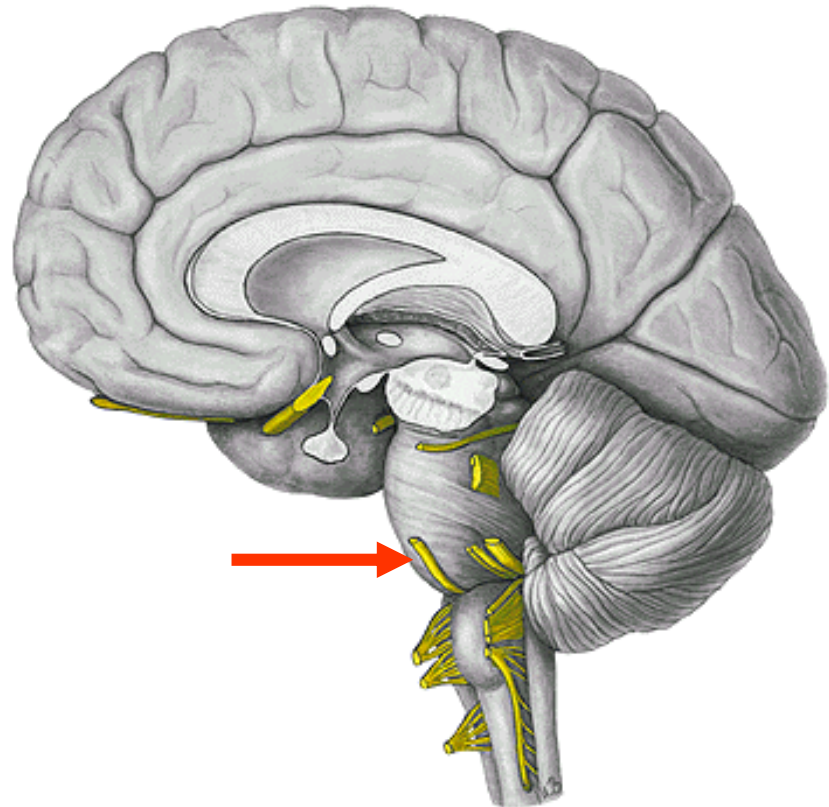
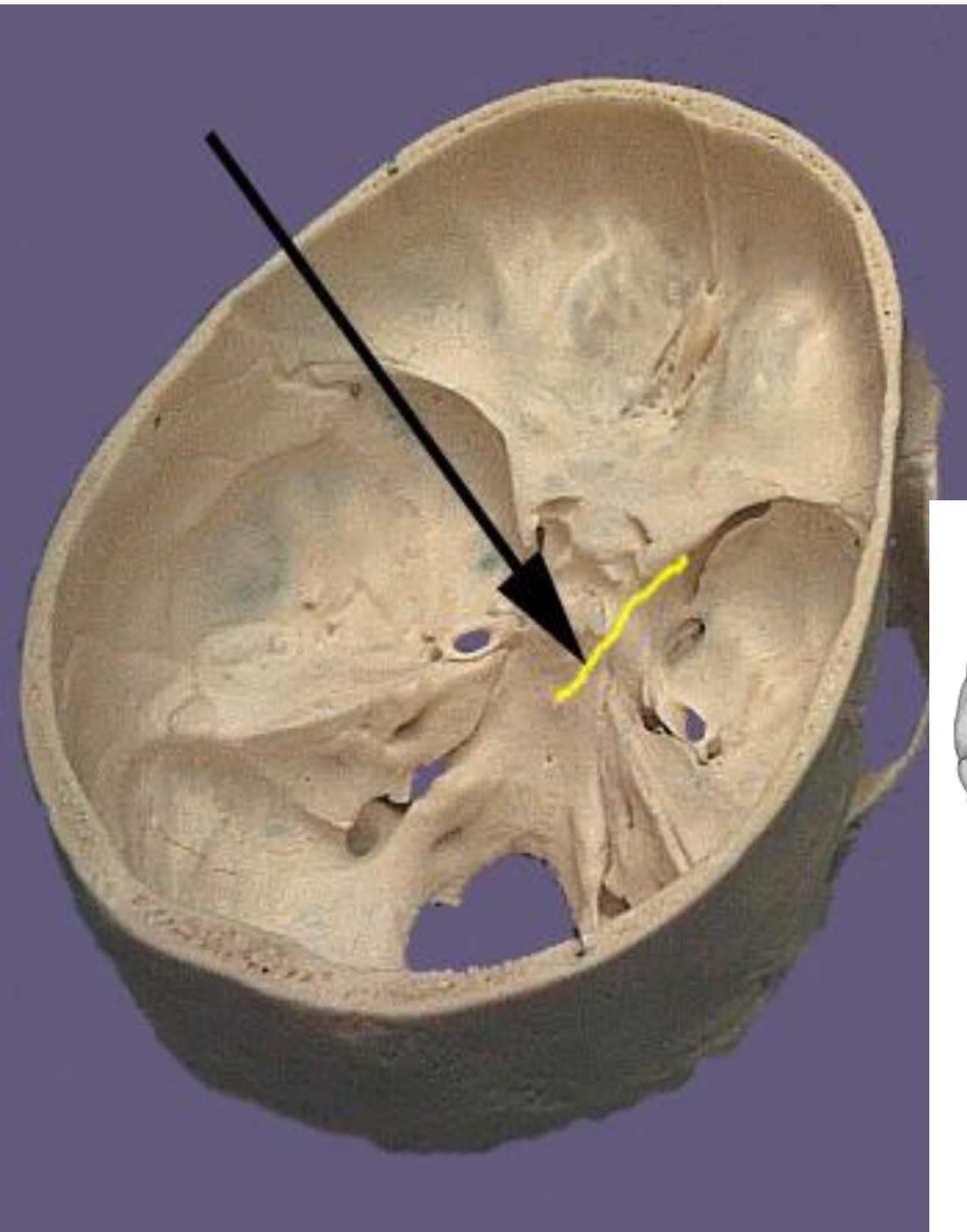


**n.III.**



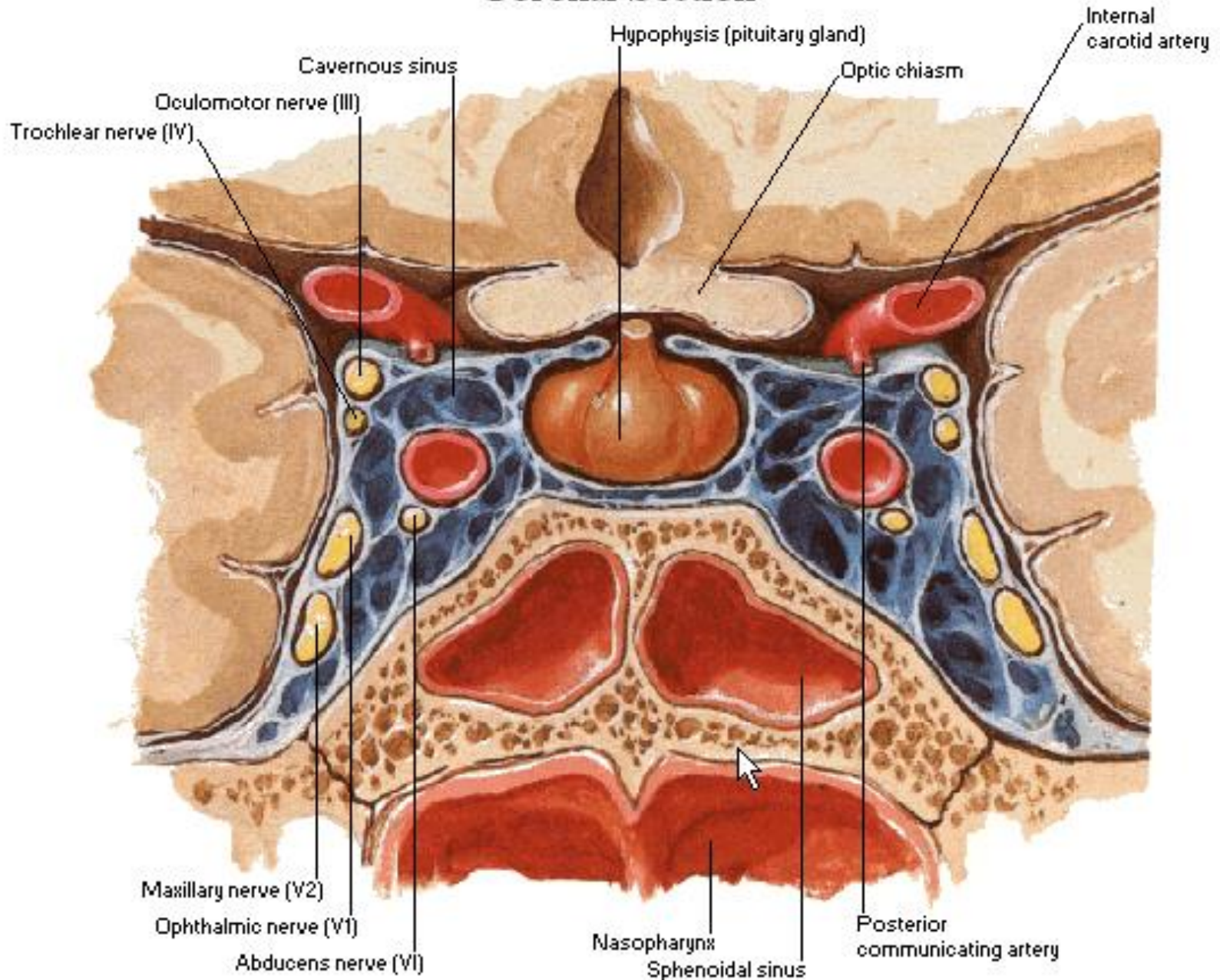
**n.IV.**

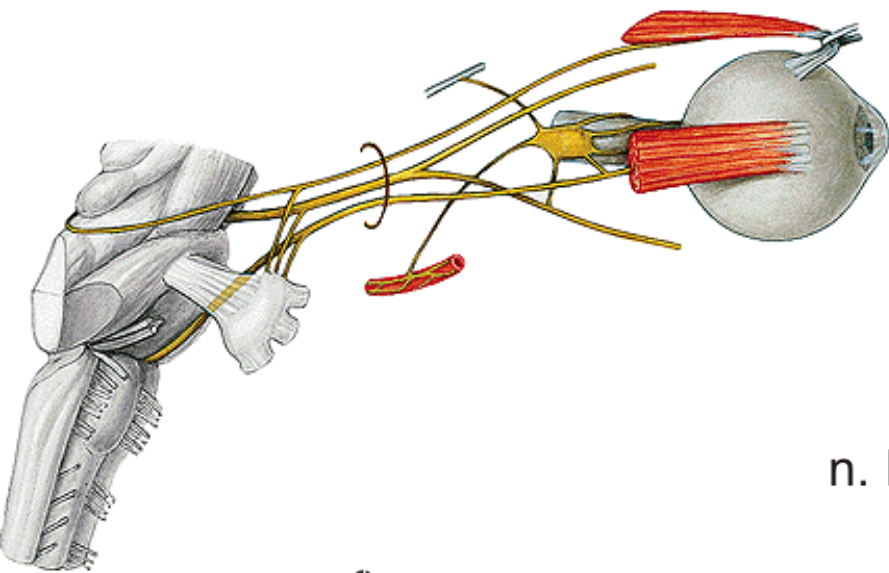
n.VI.



# Cavernous Sinus

## Coronal Section





## Inervační oblasti n. III:

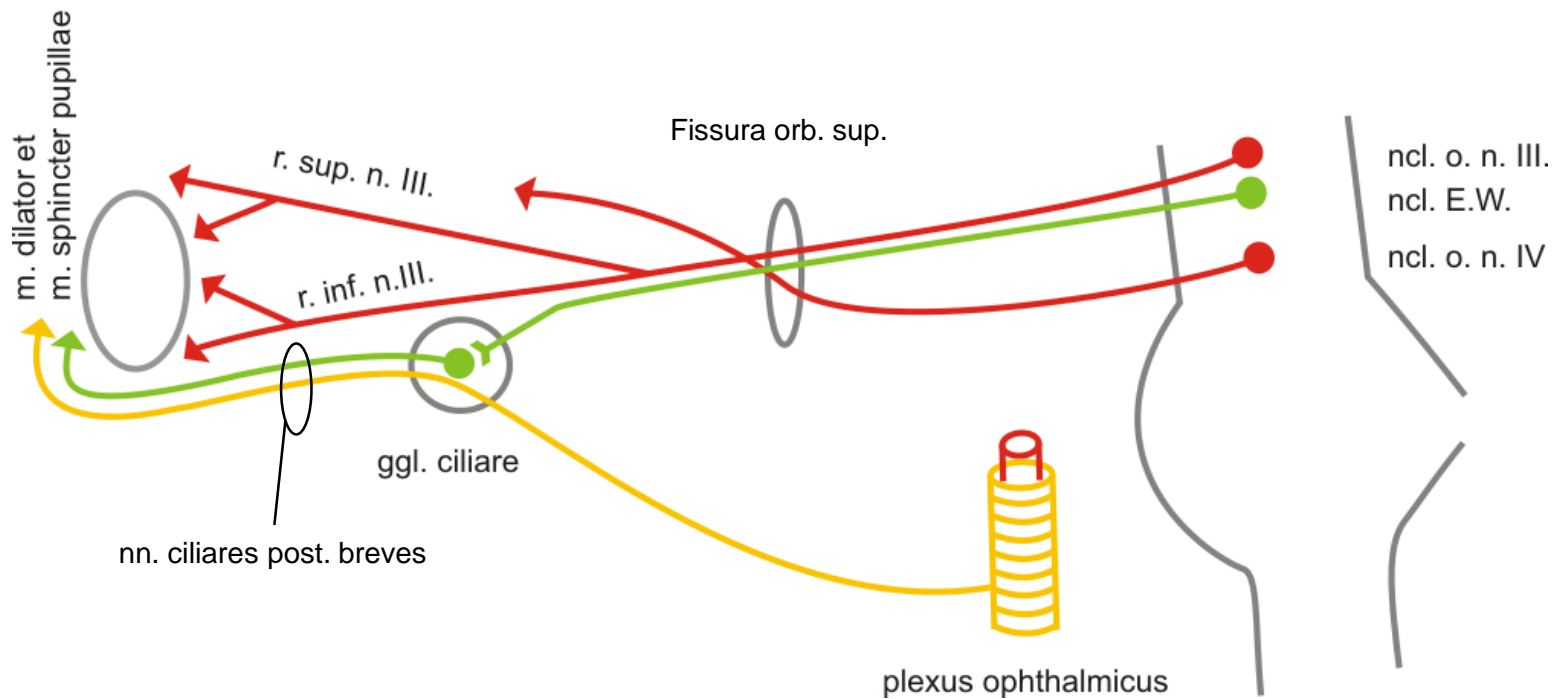
mm. recti orbitales mimo  
m. rectus lat.

m. levator palpebrae sup.

m. obliquus inf.

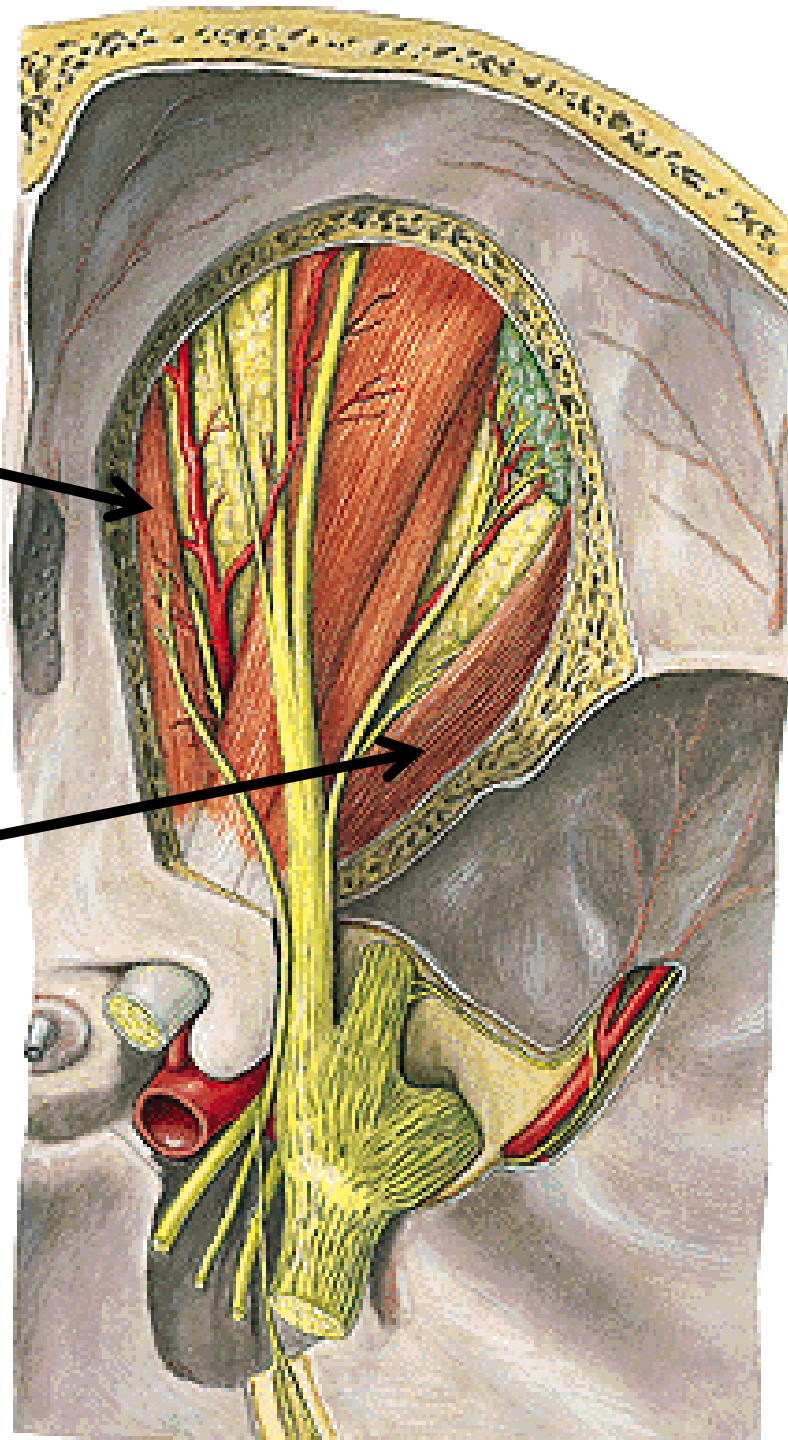
m. dilator (symp.) et sphincter pupillae  
(parasymp.)

n. III. et IV.

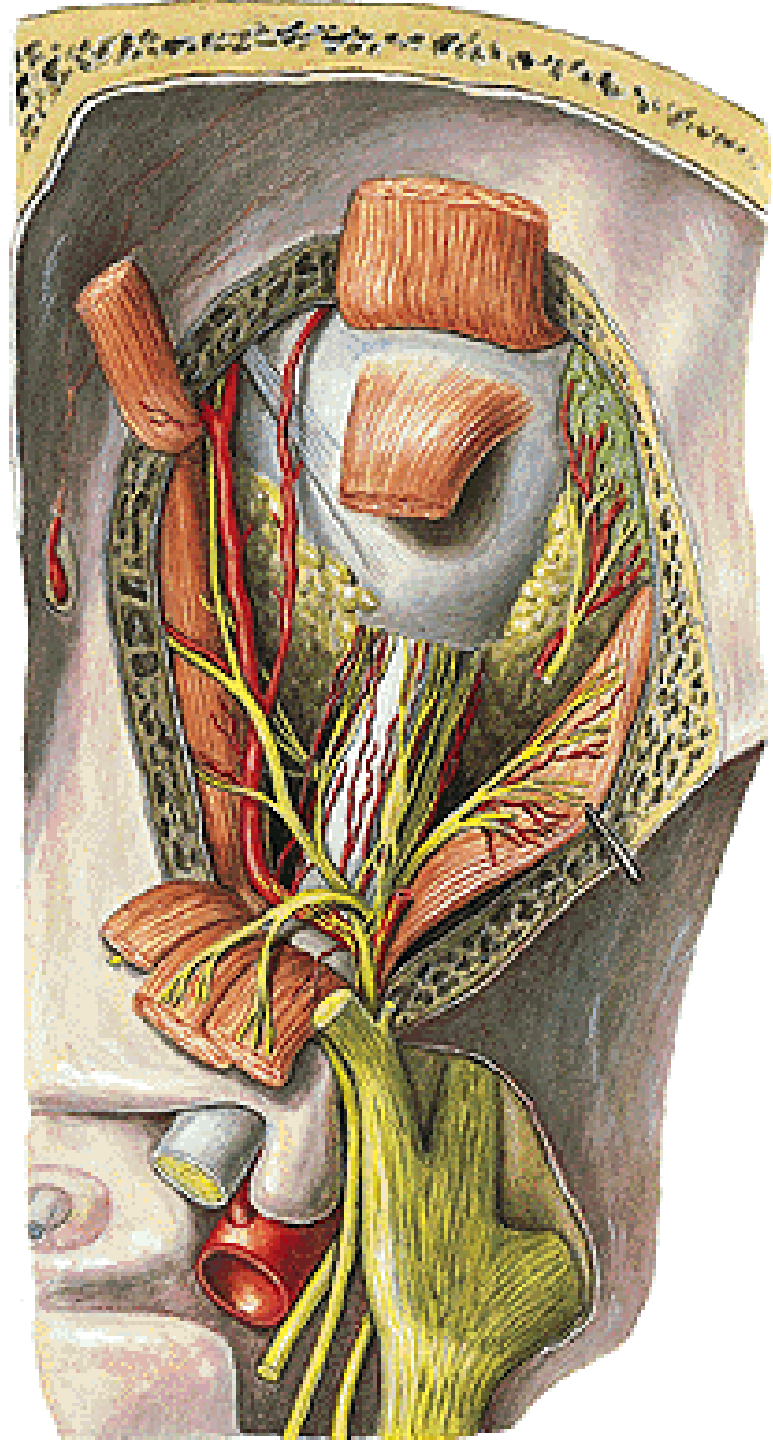
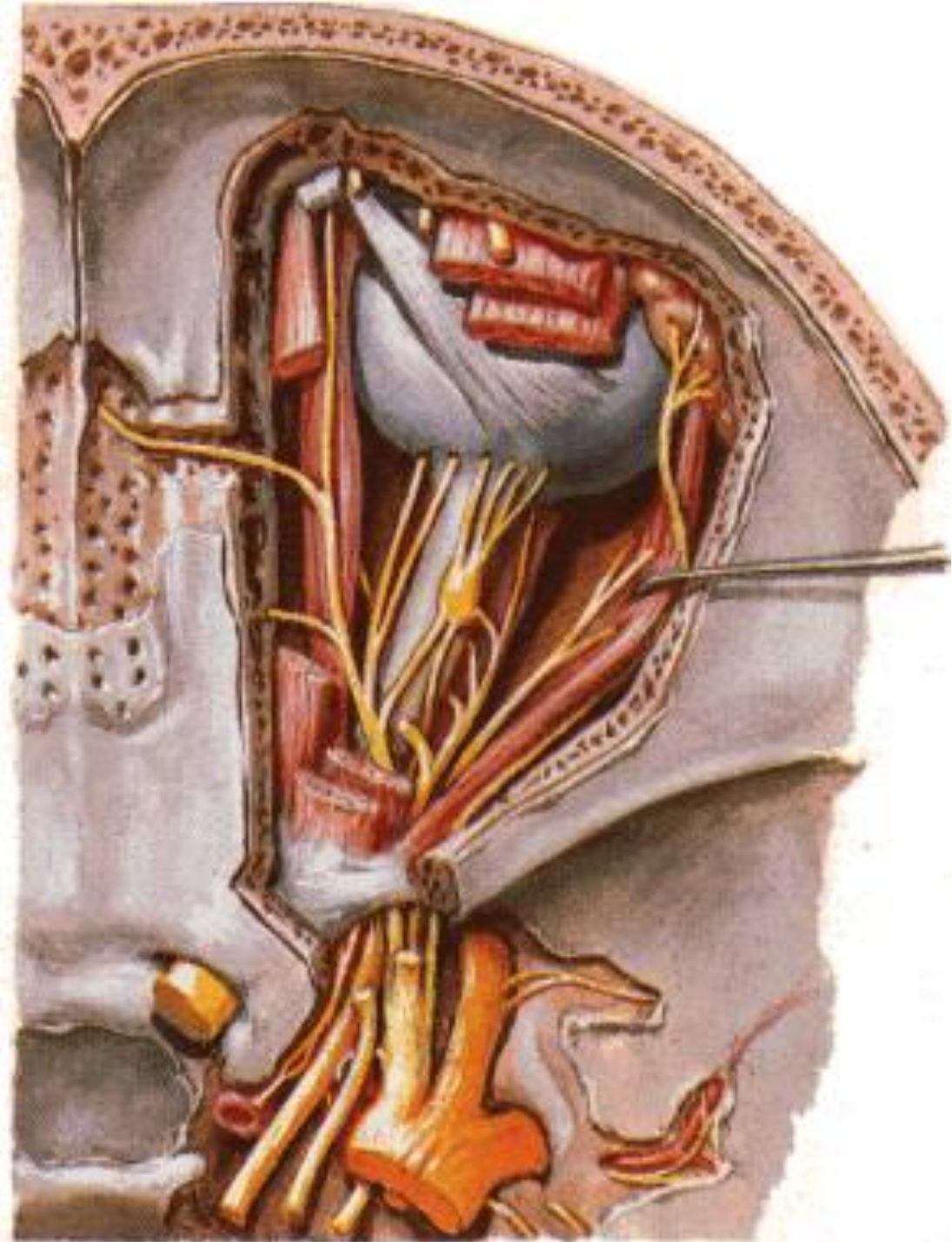


**Inervační oblast n. IV.**  
**m. obliquus sup.**

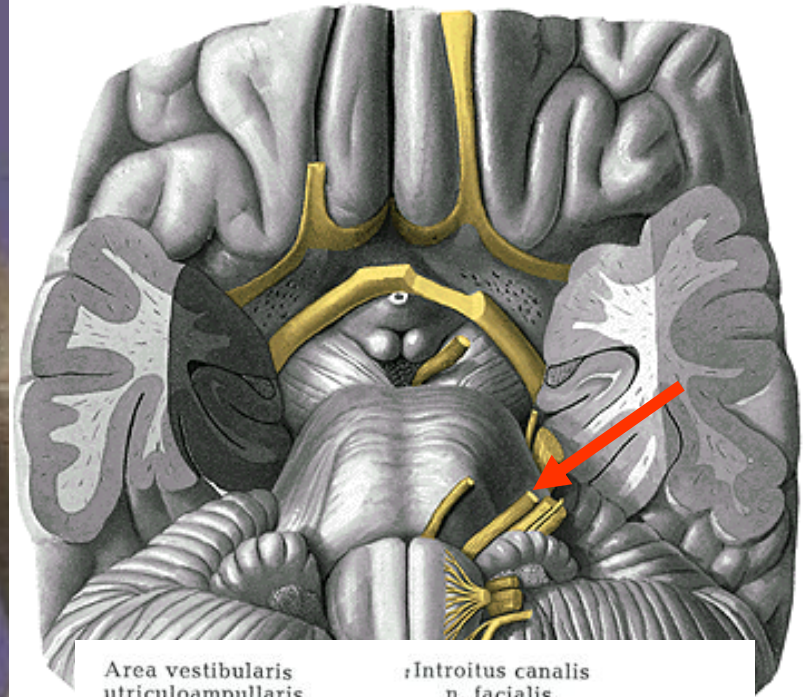
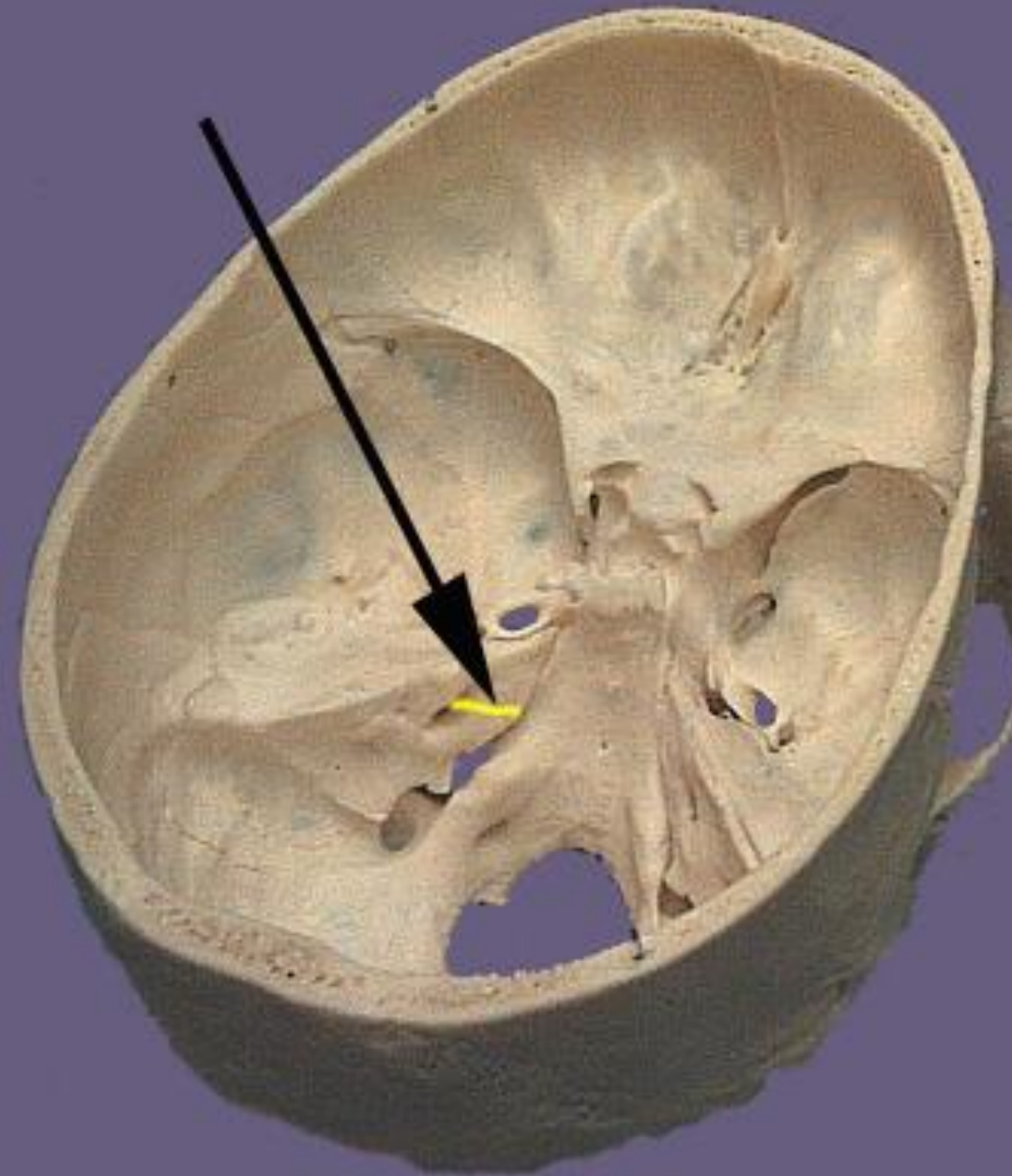
**Inervační oblast n. VI.**  
**m. rectus lat.**







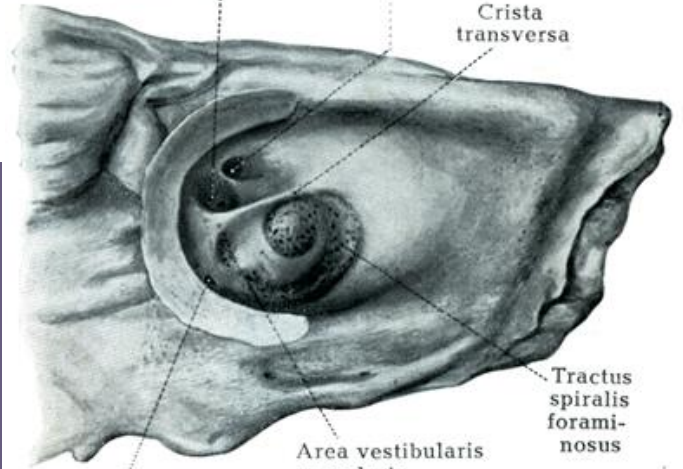
n. VII.



Area vestibularis  
utrículoampullaris

Introitus canalis  
n. facialis

Crista  
transversa

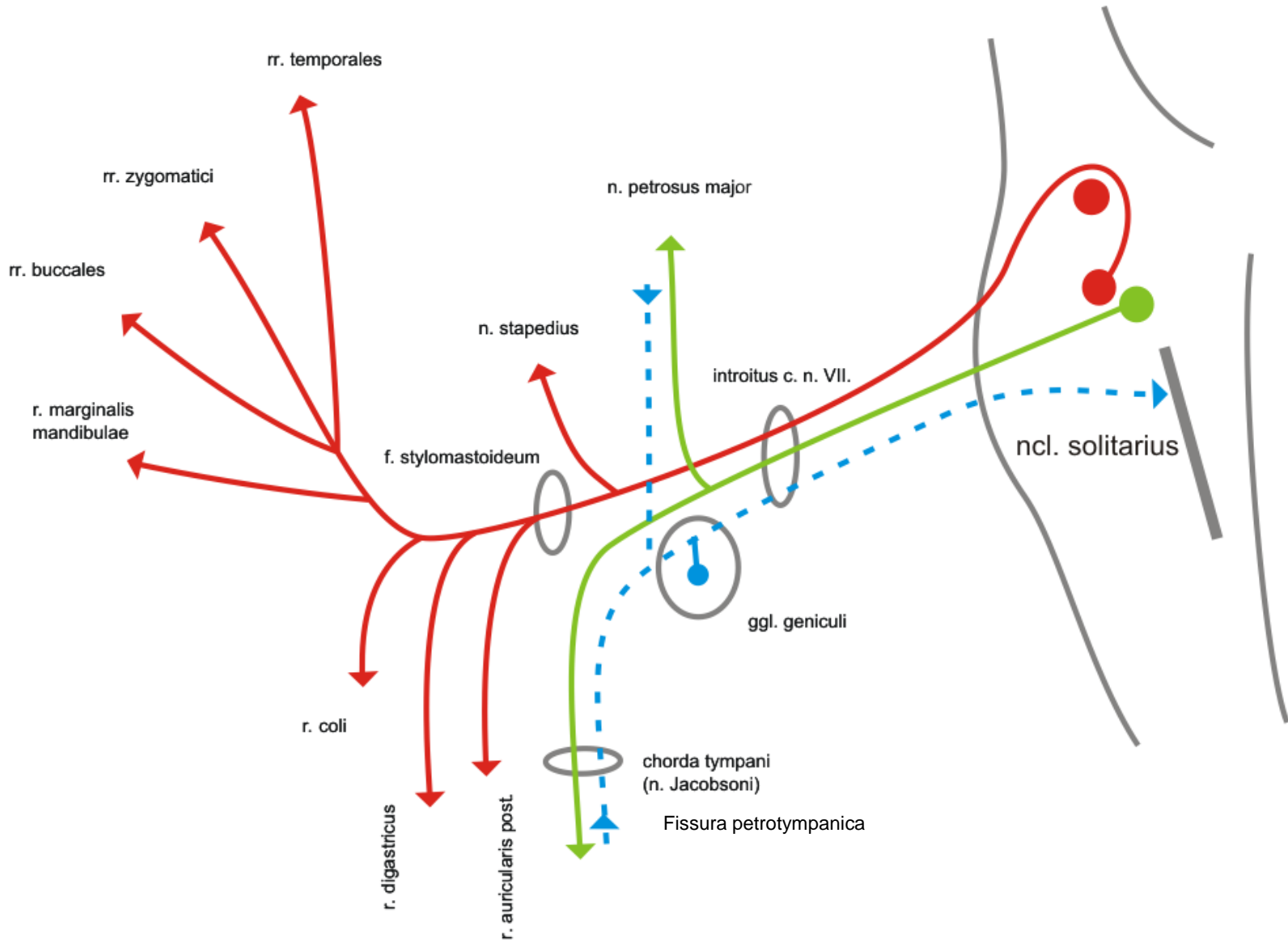


Tractus  
spiralis  
forami-  
nosus

Area vestibularis  
saccularis

Foramen singulare

# 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

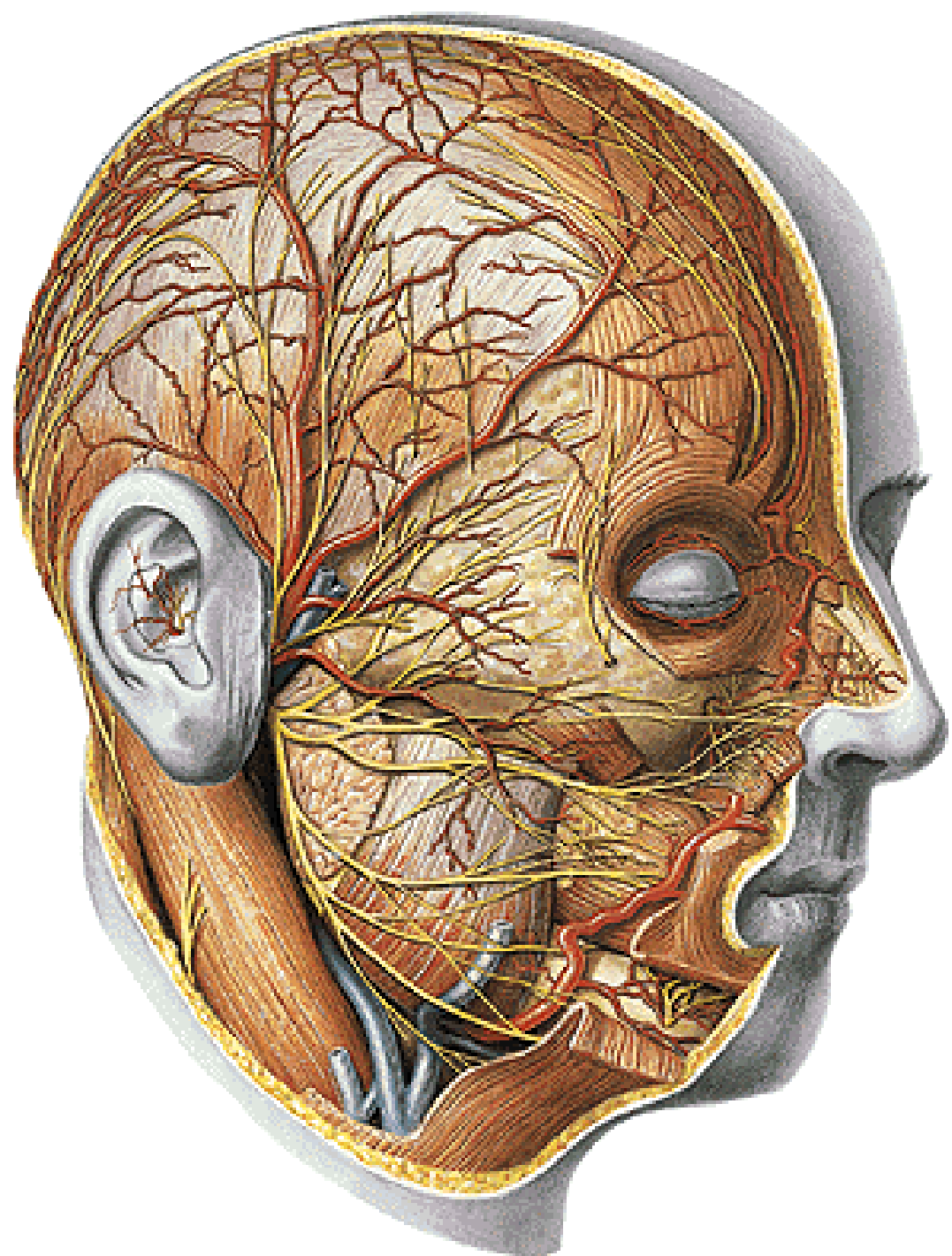
gl. submandibularis

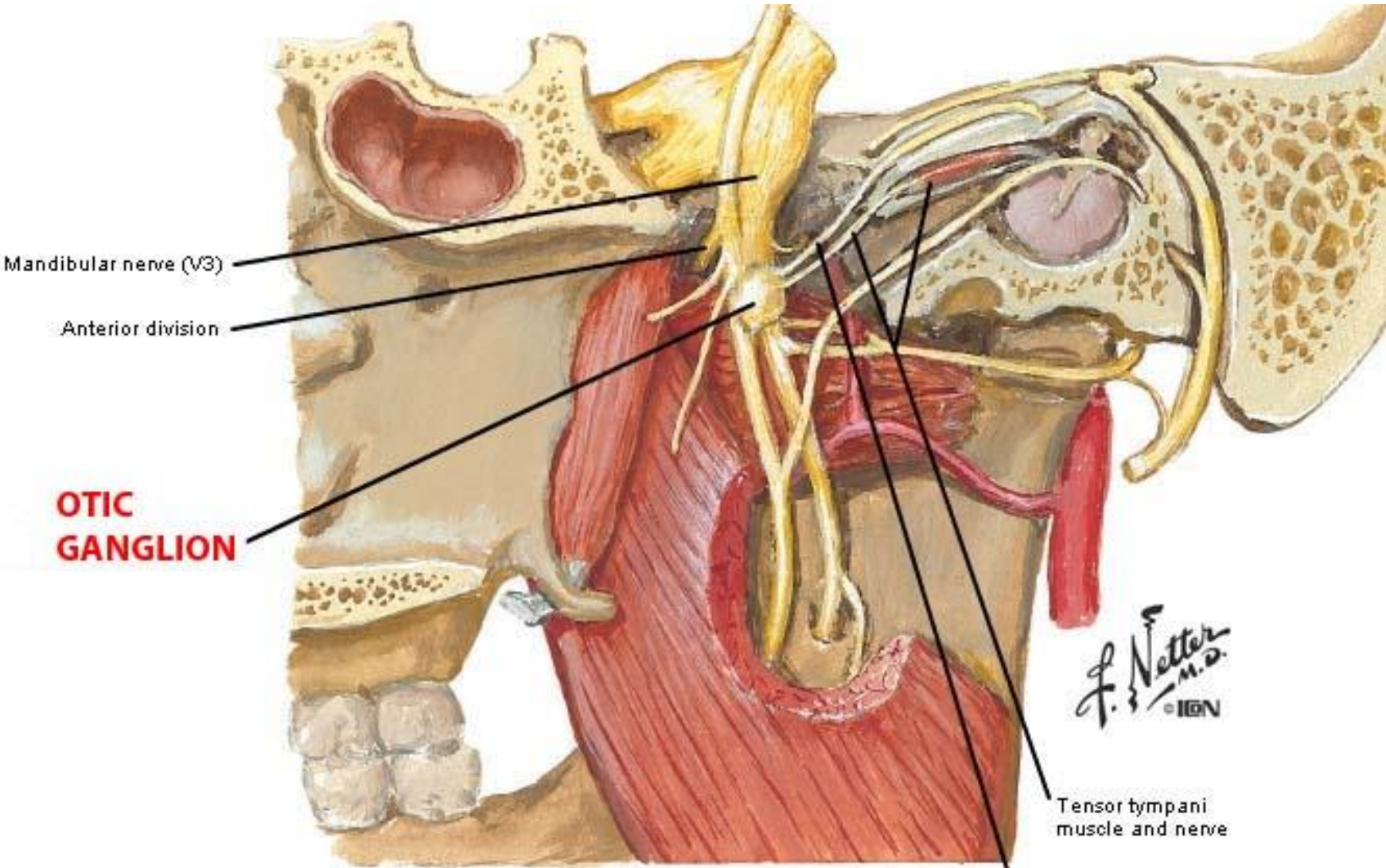
gl. sublingualis

### chuťové pohárky

1. ve sliznici měkkého a  
tvrdého patra

2. předních 2/3 jazyka





Mandibular nerve (V3)

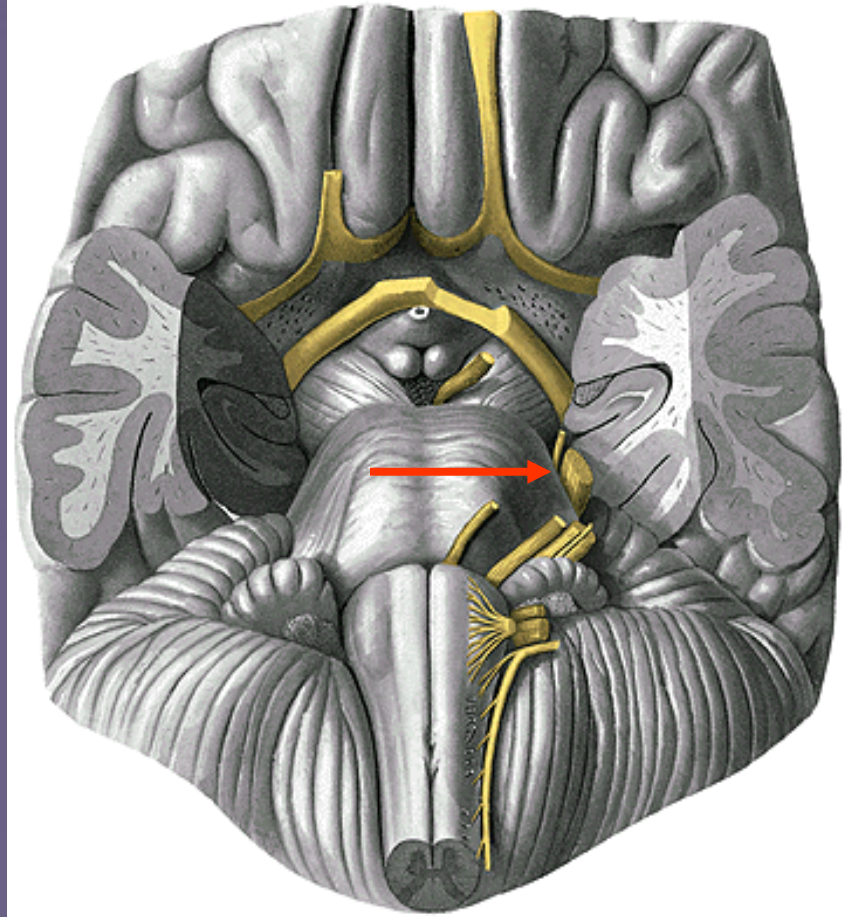
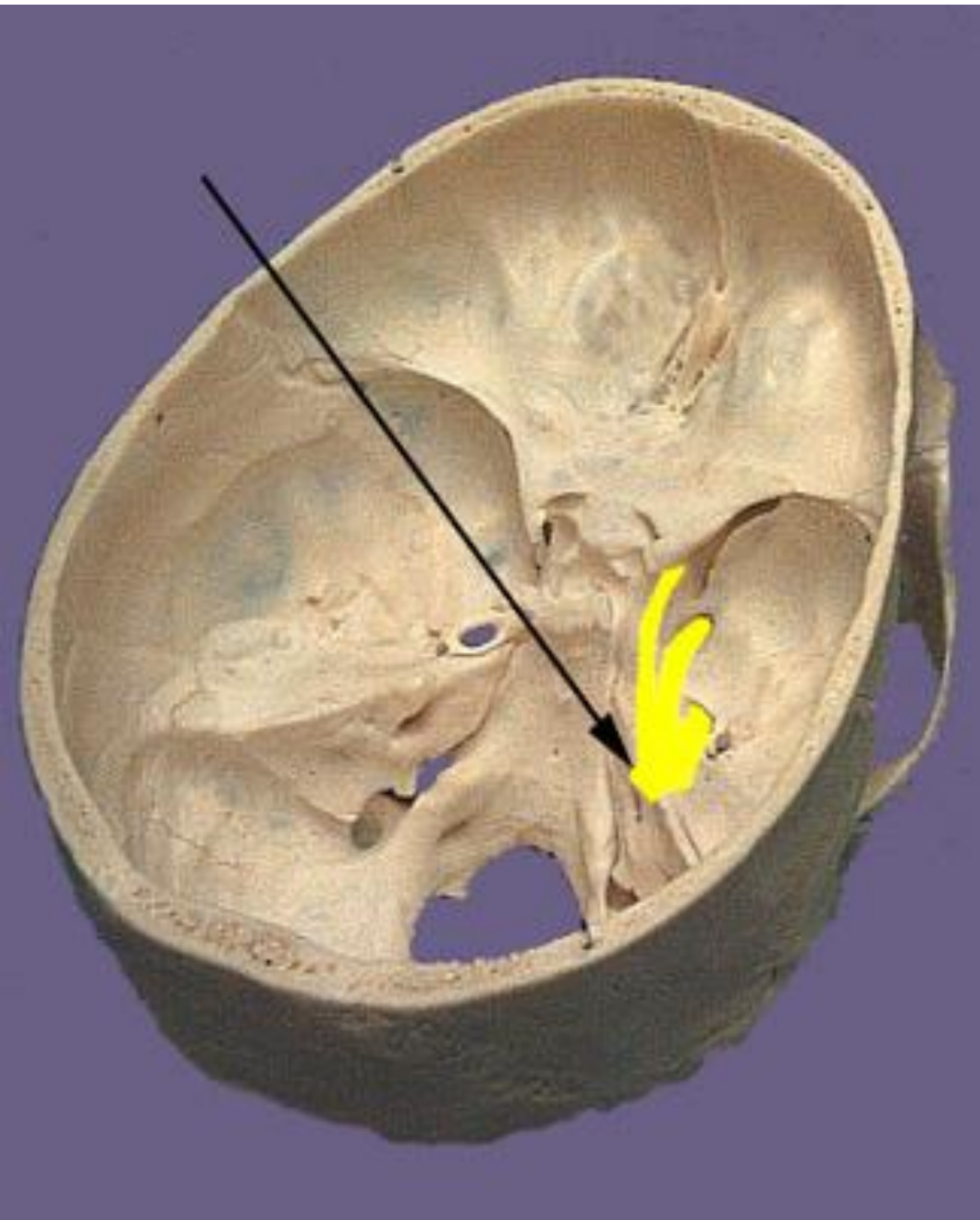
Anterior division

**OTIC  
GANGLION**

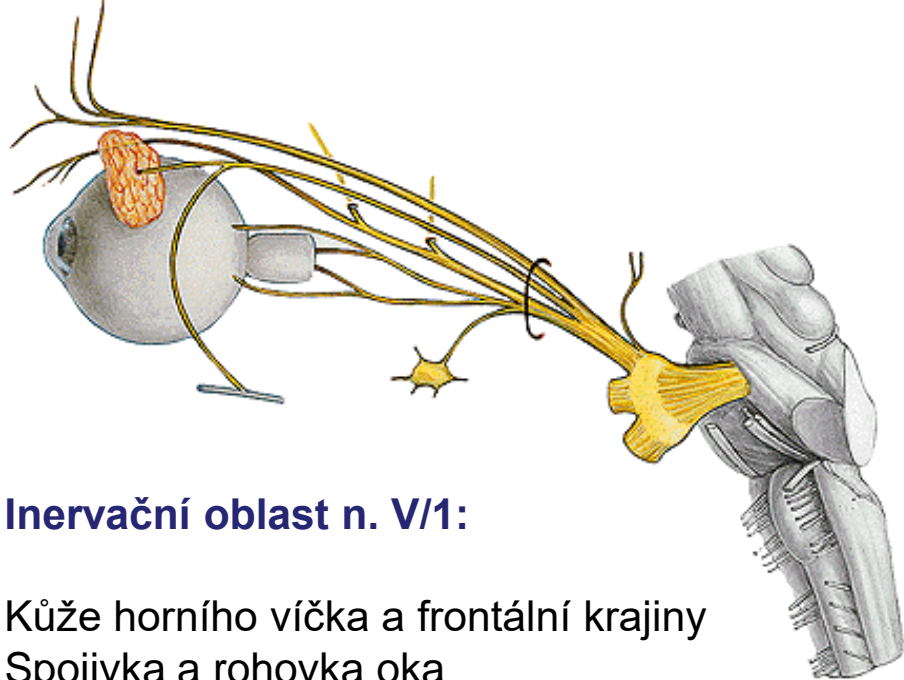
*F. Netter*  
M.D.  
IEN

Tensor tympani  
muscle and nerve

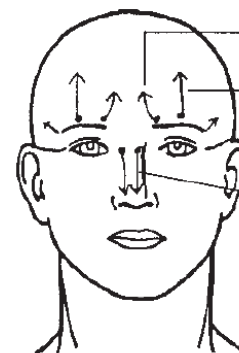
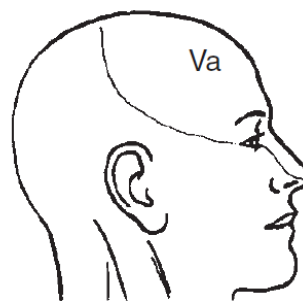
Lesser petrosal nerve



**n.V.**



Cutaneous distribution

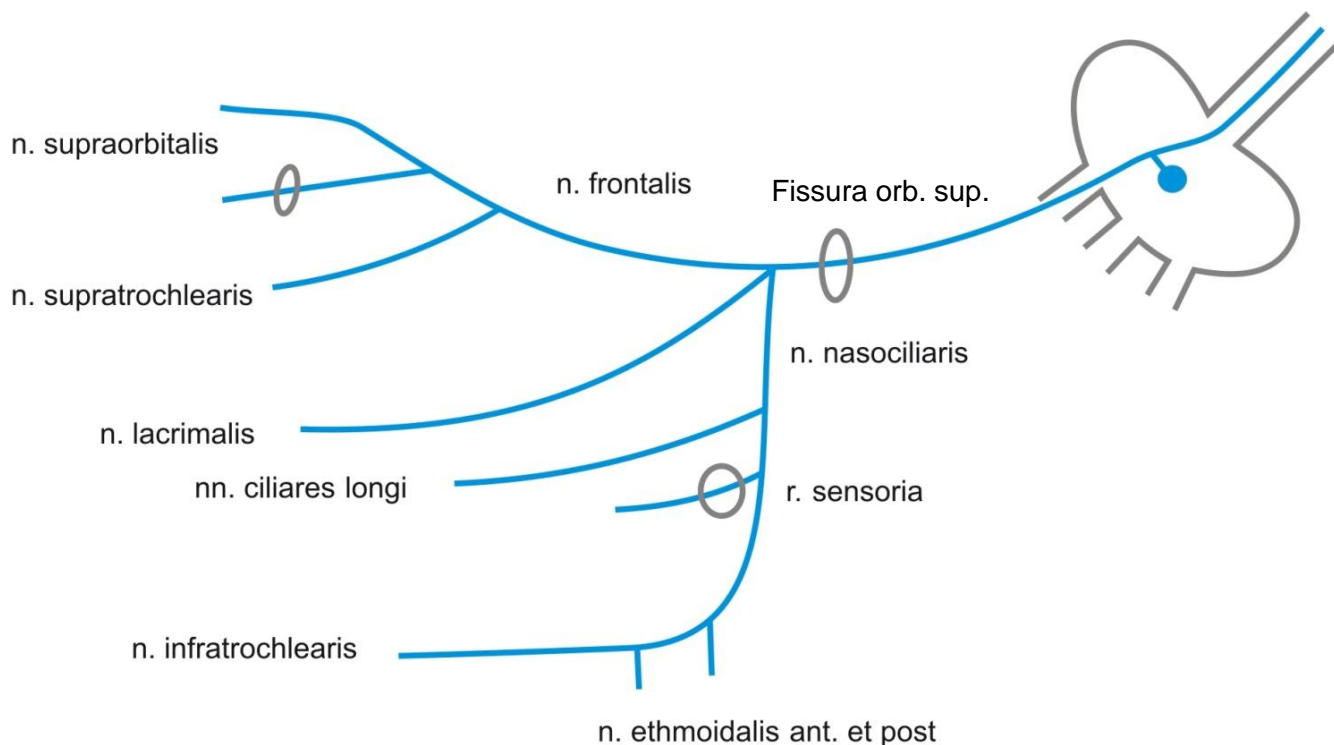


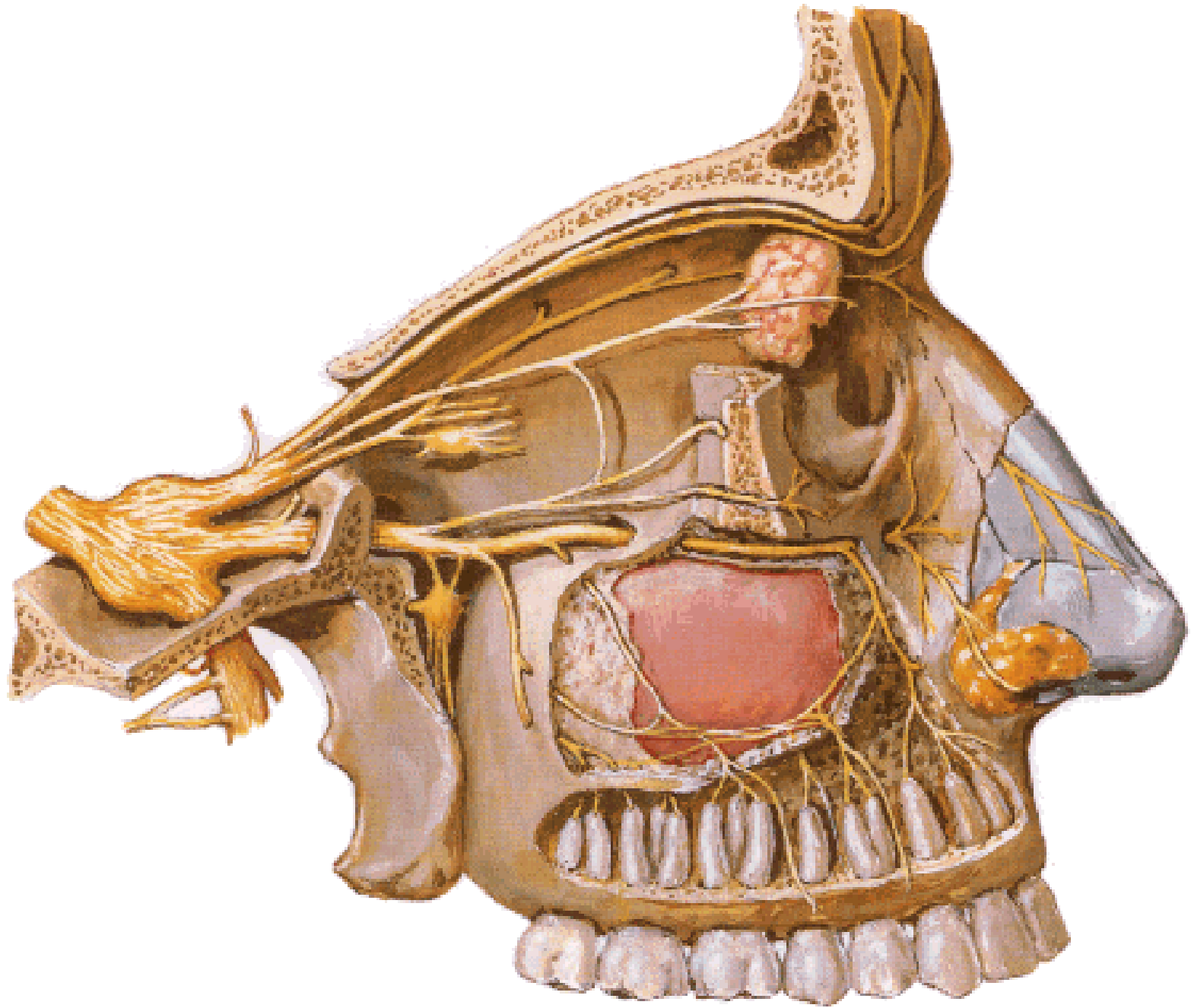
Sinus (broken circle)  
 Supratrochlear  
 (from frontal)  
 Supraorbital  
 (from frontal)  
 External nasal  
 (from nasociliary)

n. V/1 - n. ophthalmicus

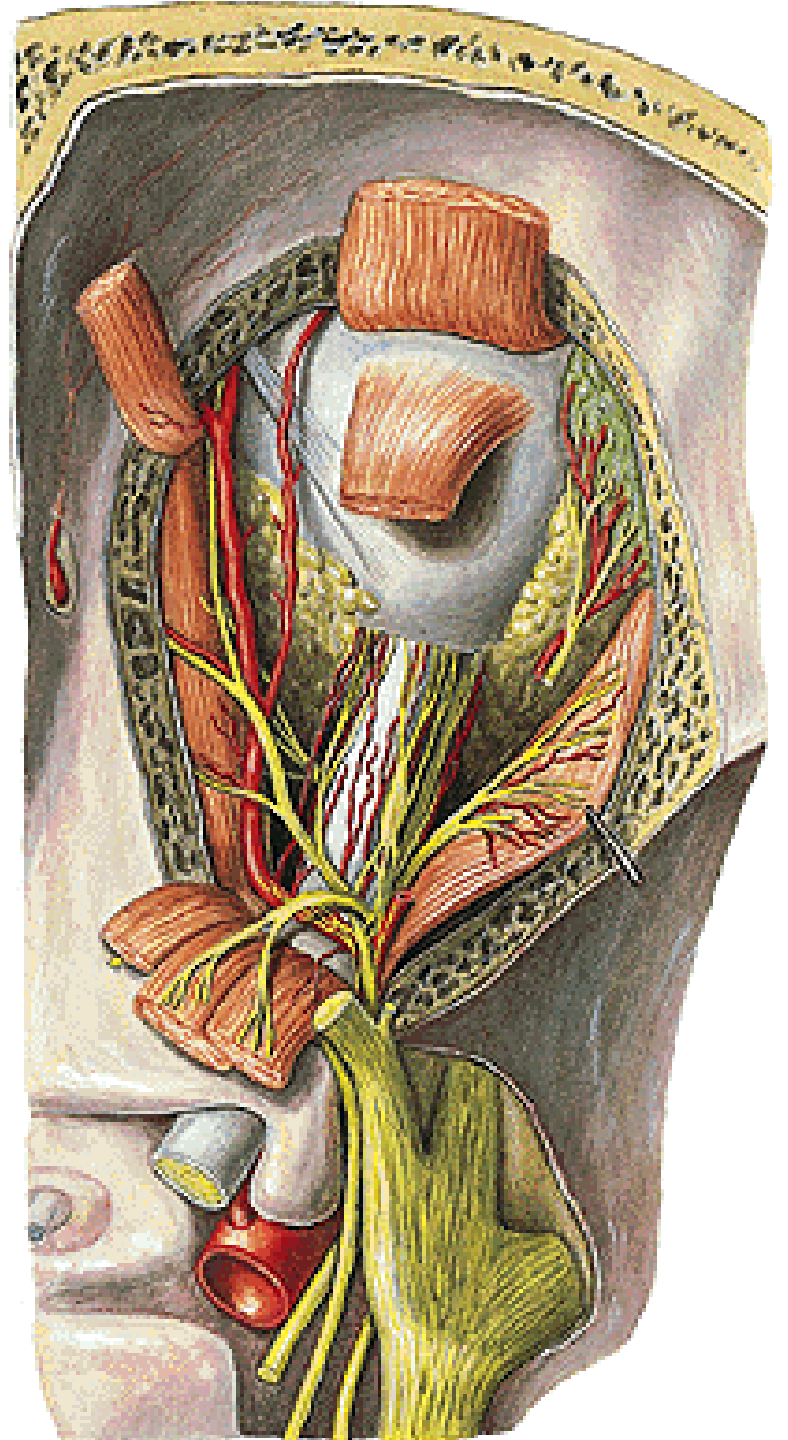
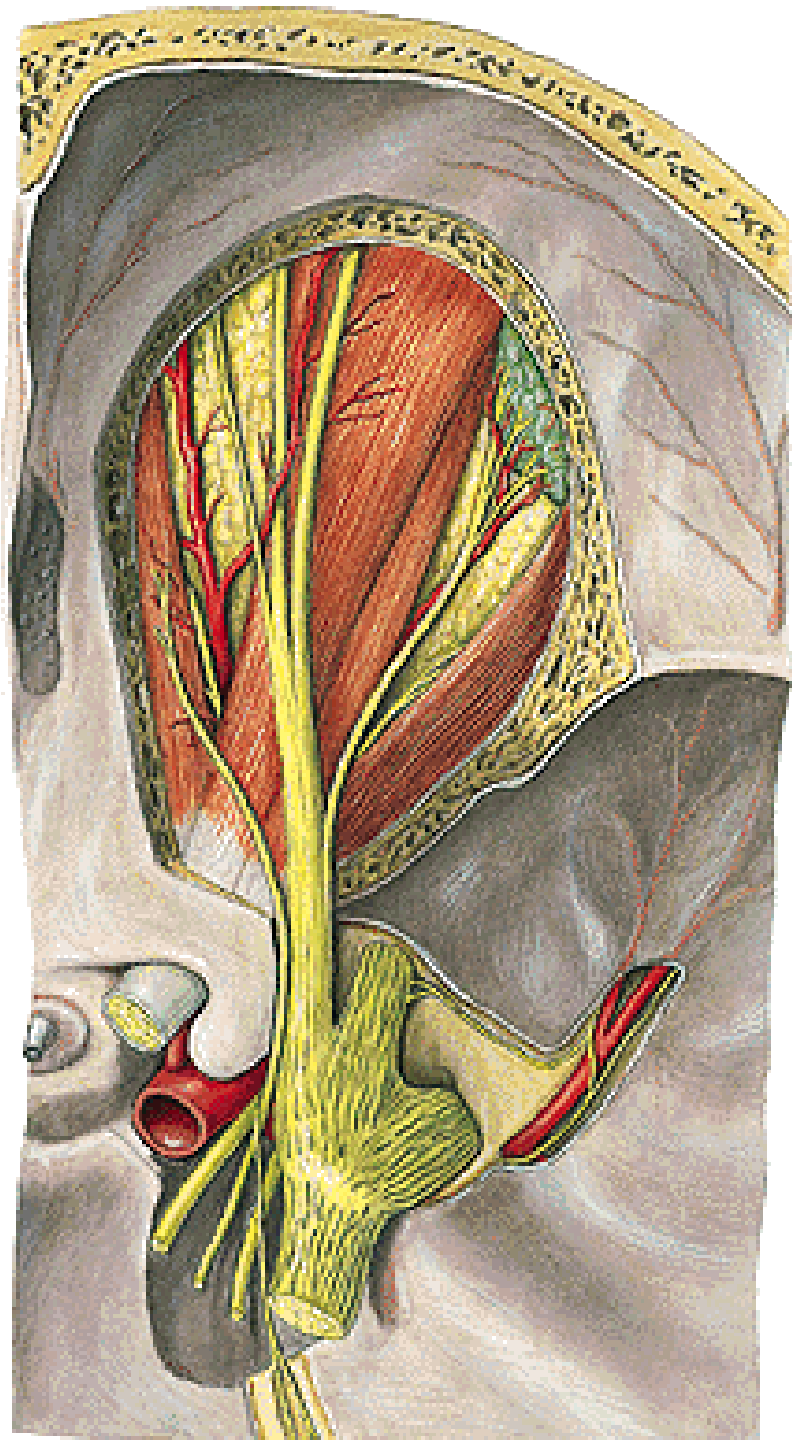
### Inervační oblast n. V/1:

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

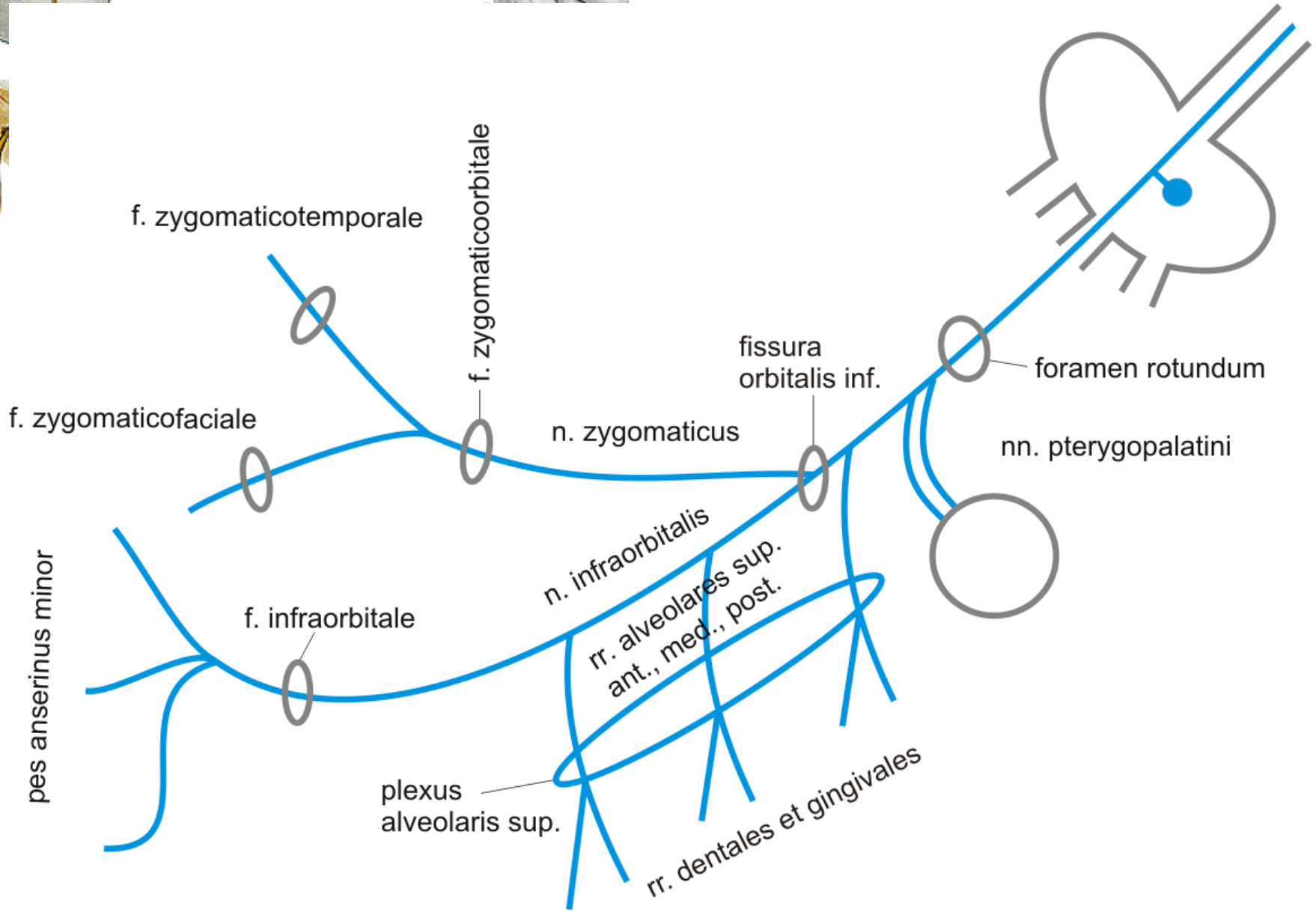


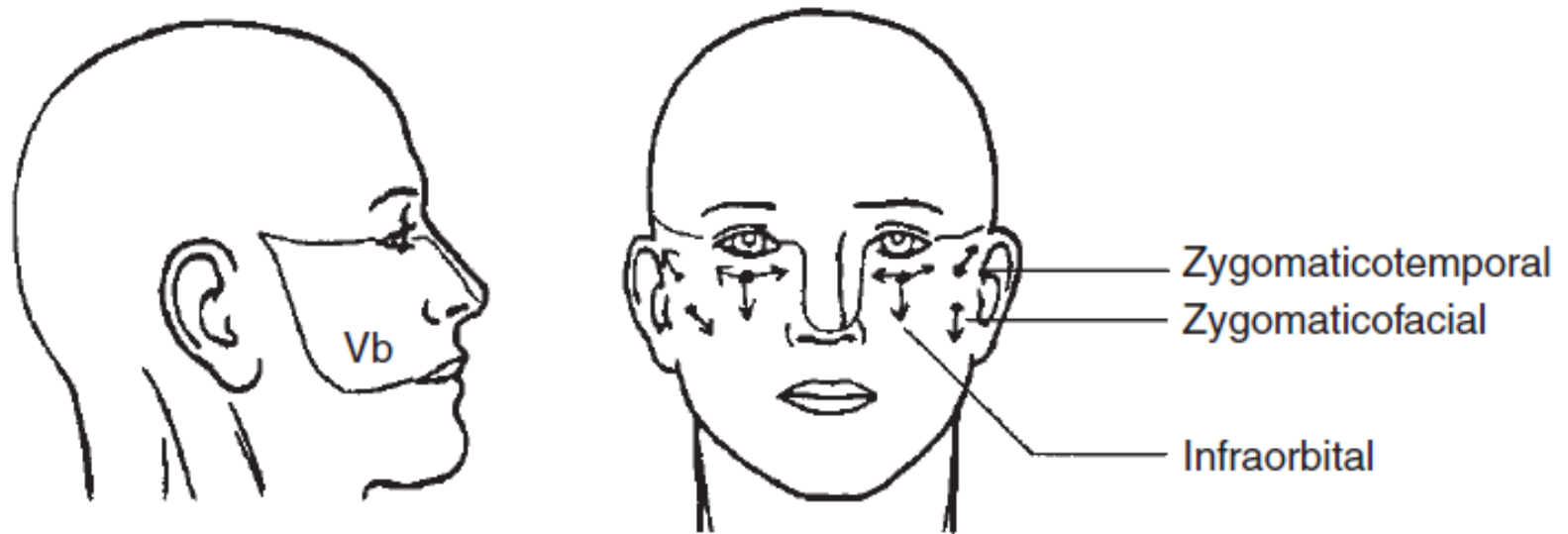






n. V/2 - n. maxillaris

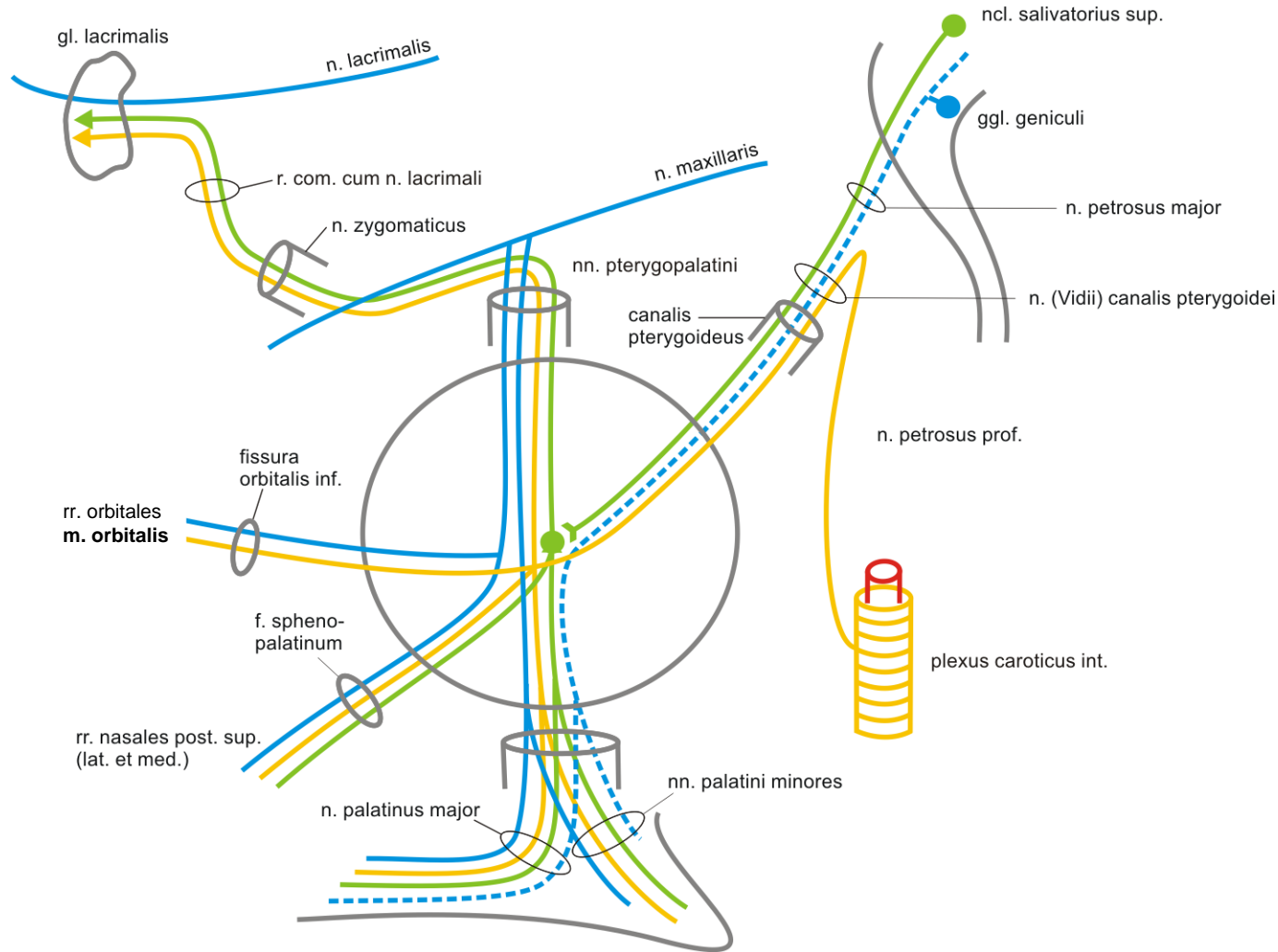




### **Somatosenzorická inervace n. V/2:**

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

# ggl. pterygopalatinum

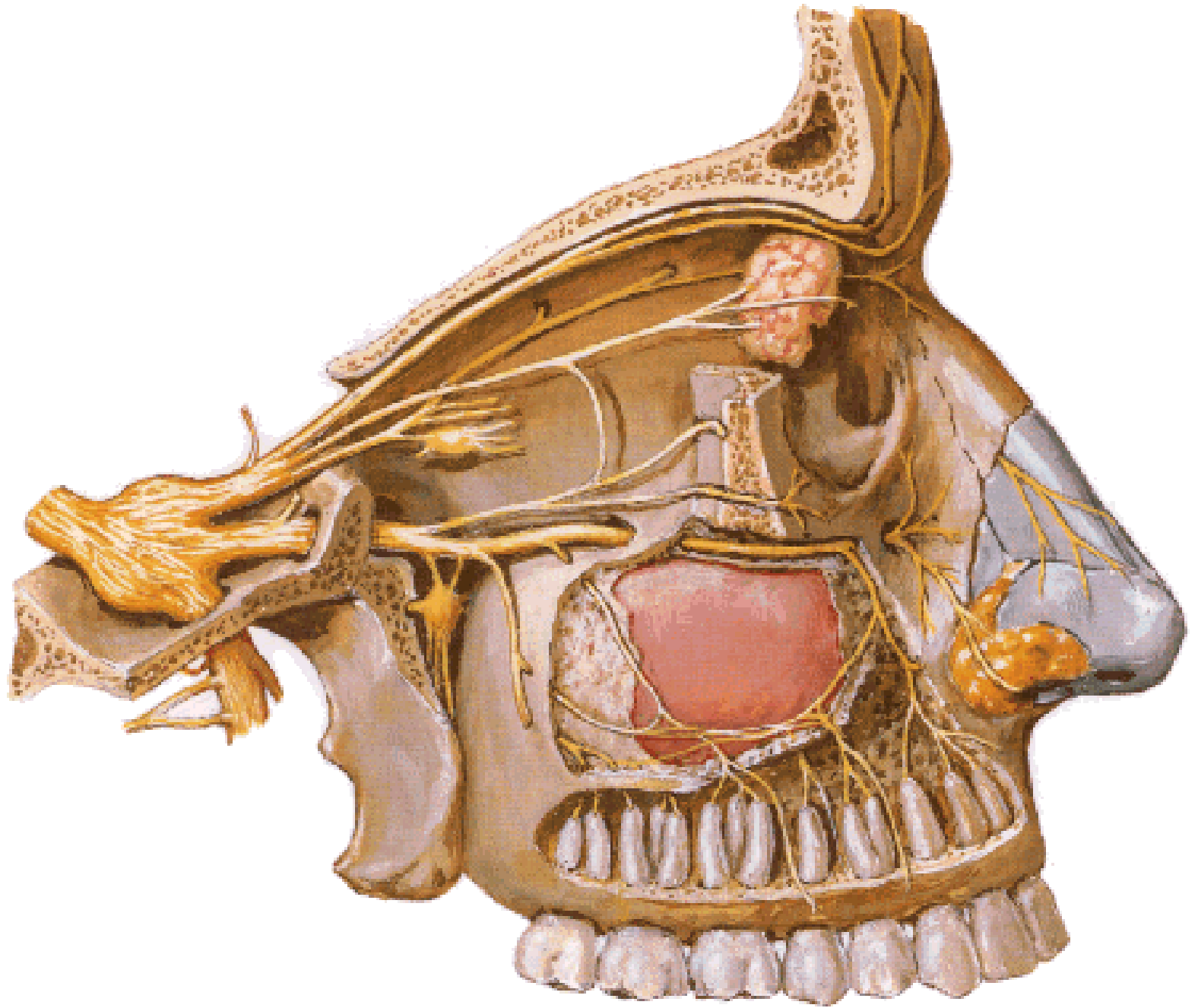


## Inervační oblasti:

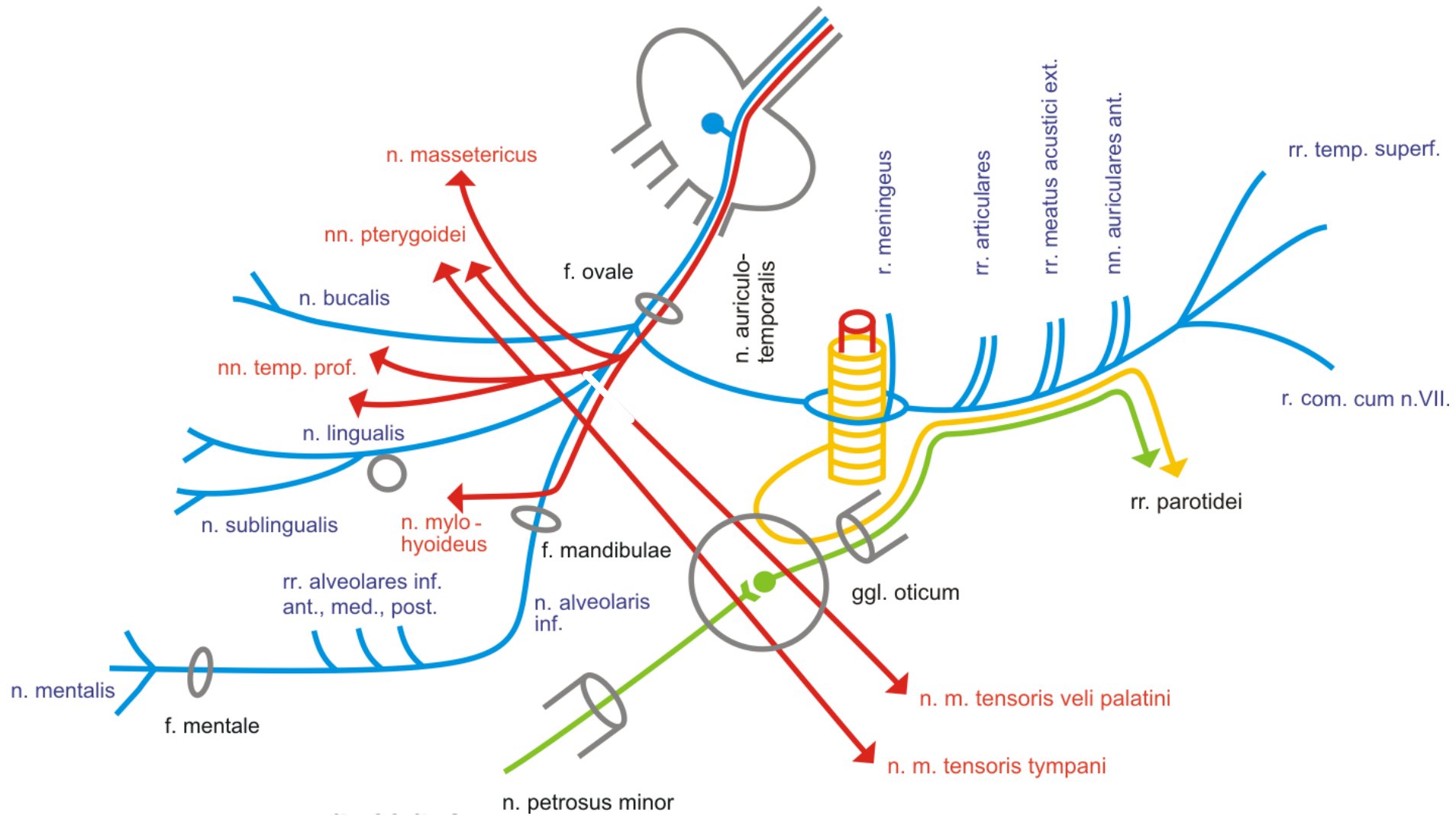
gl. lacrimalis  
 m. orbitalis  
 sliznice dutiny nosní  
 sliznice měkkého a  
 tvrdého patra

### Typy nervových vláken

- senzorická
- somatosenzorická
- sympatická
- parasympatická

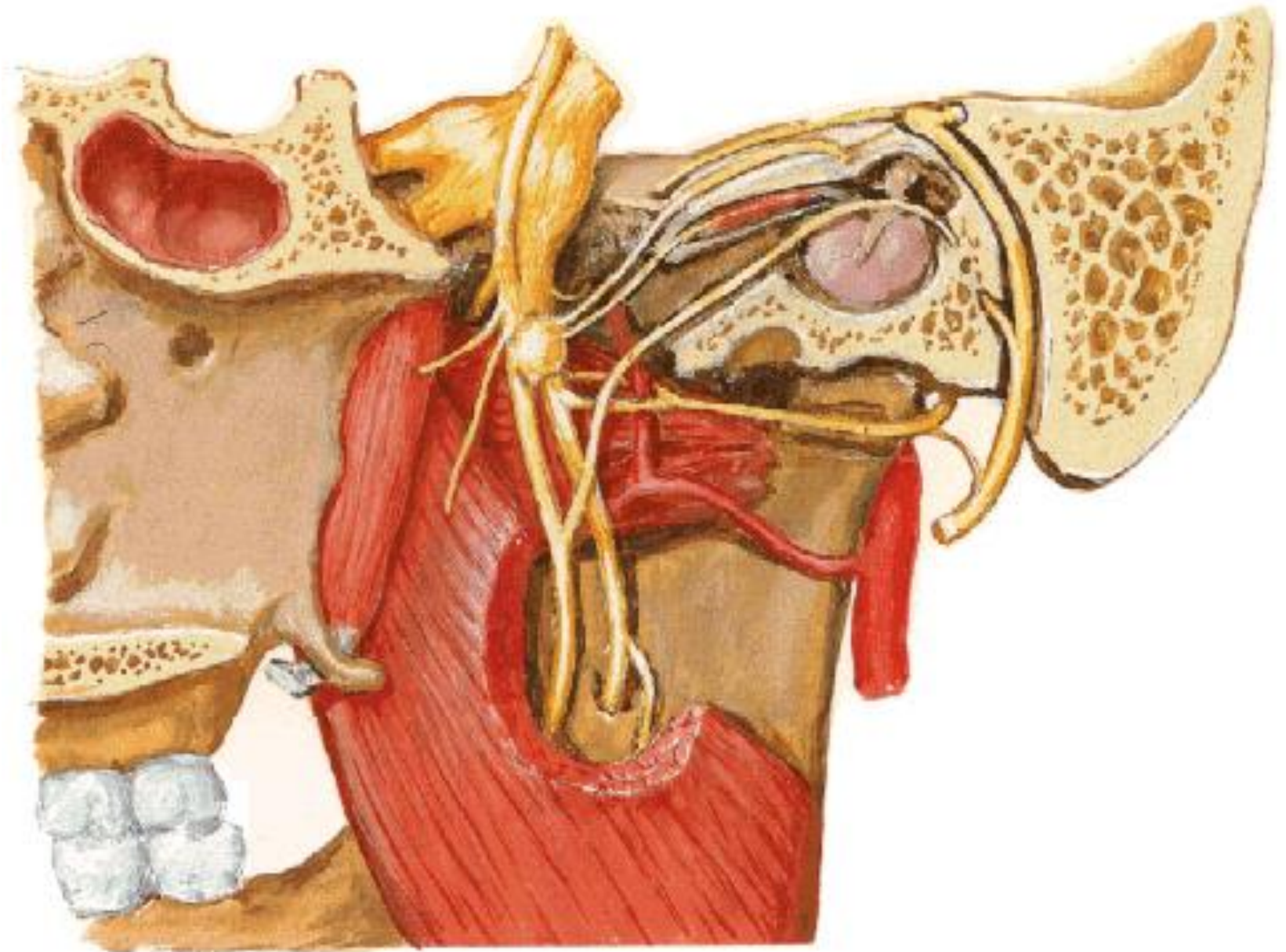


# n. V/3 - n. mandibularis

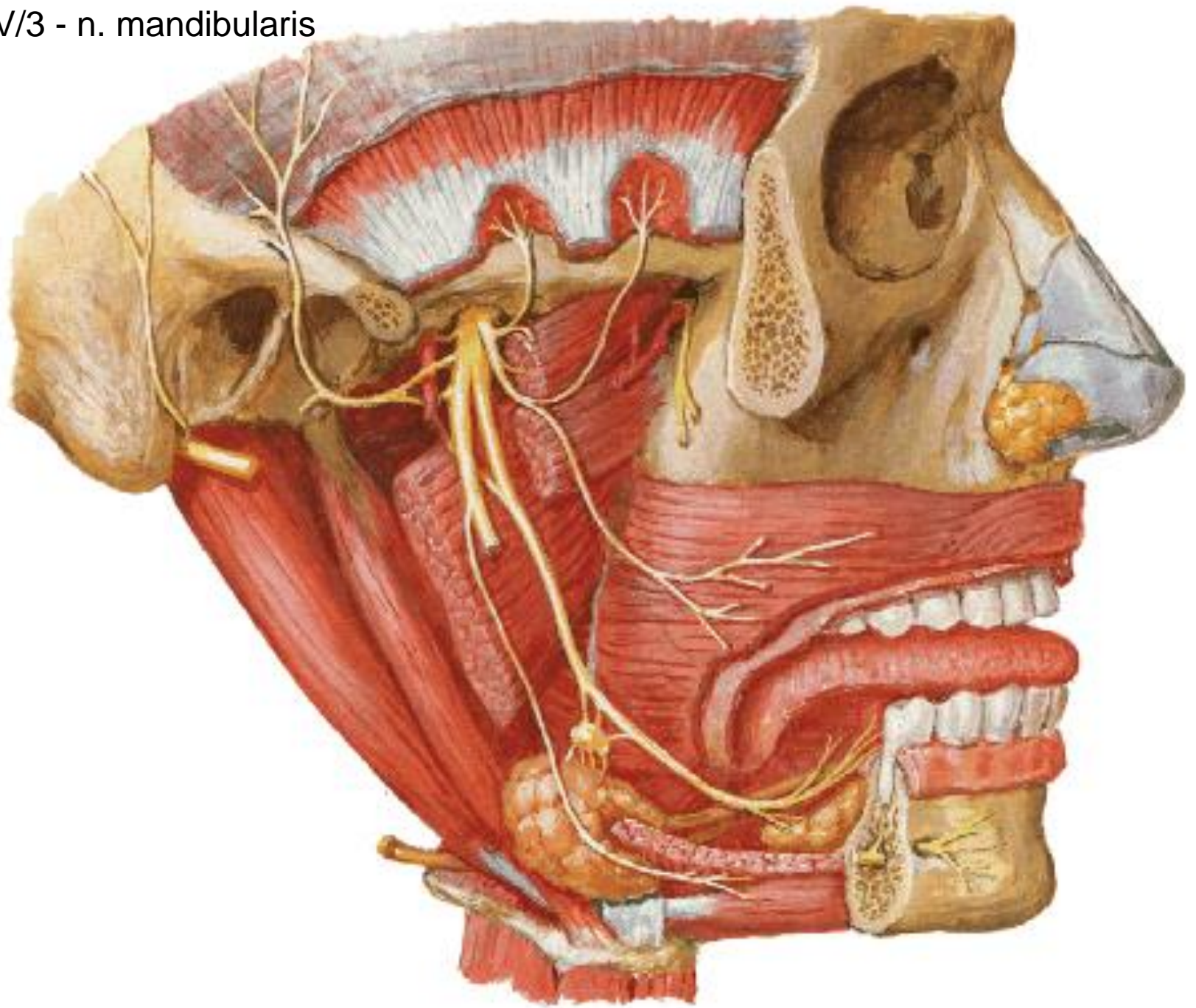


**n. tympanicus – n. petrosus minor – ggl. oticum = *Jacobsonova anastomóza***

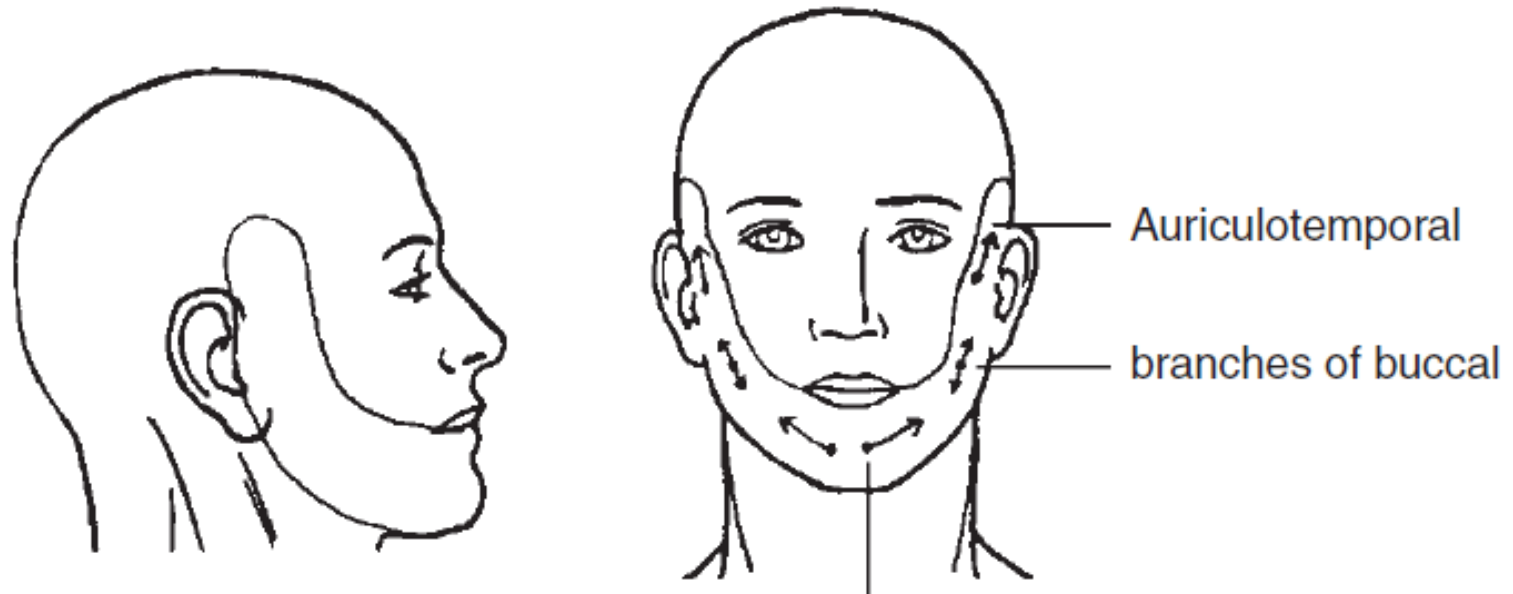
n. V/3 - n. mandibularis



n. V/3 - n. mandibularis







Mental, continuation of inferior alveolar

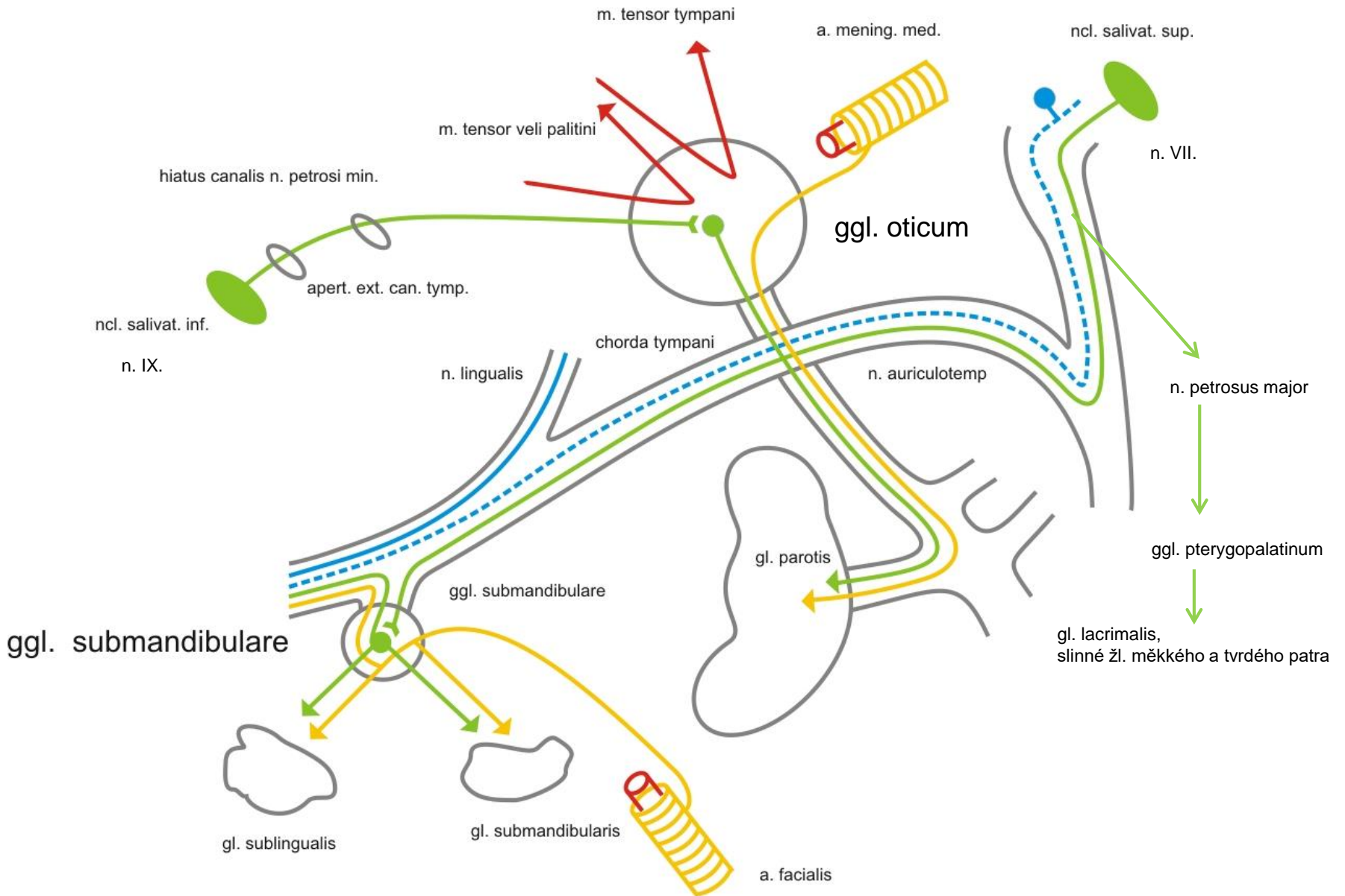
Somatosenzorická inervace n. V/3:

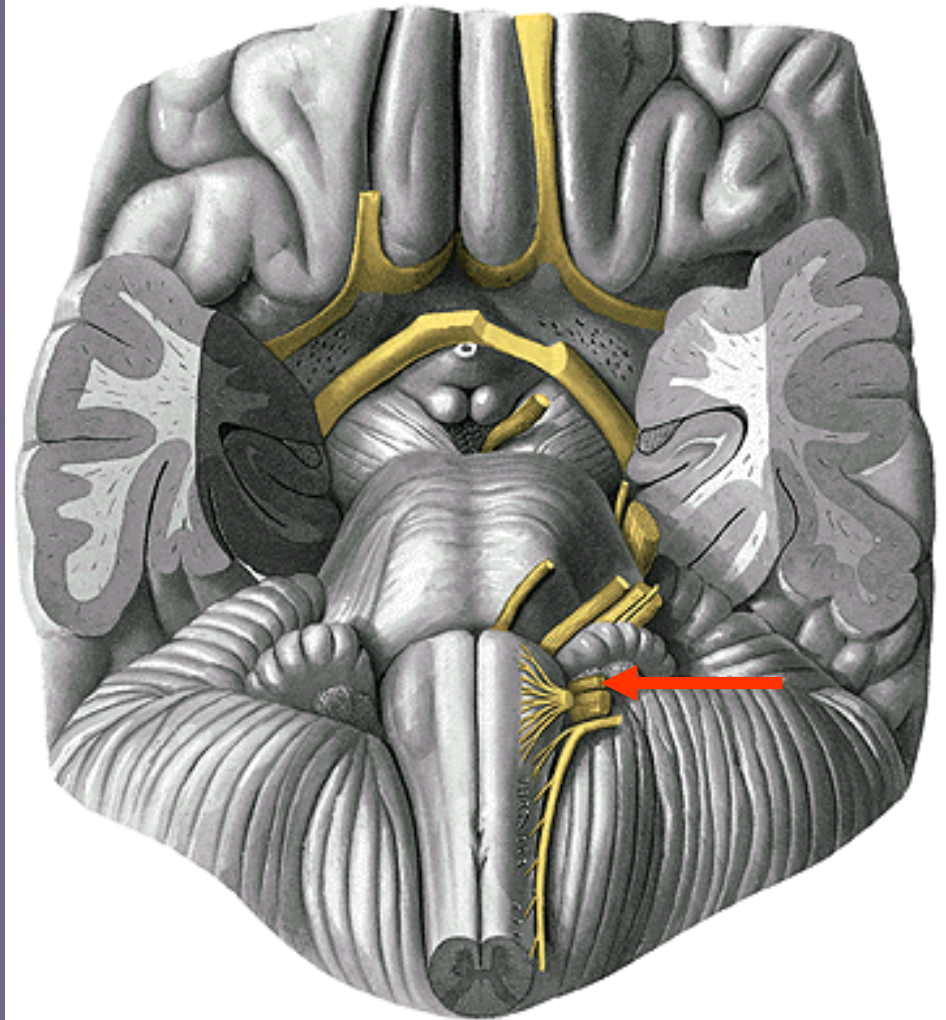
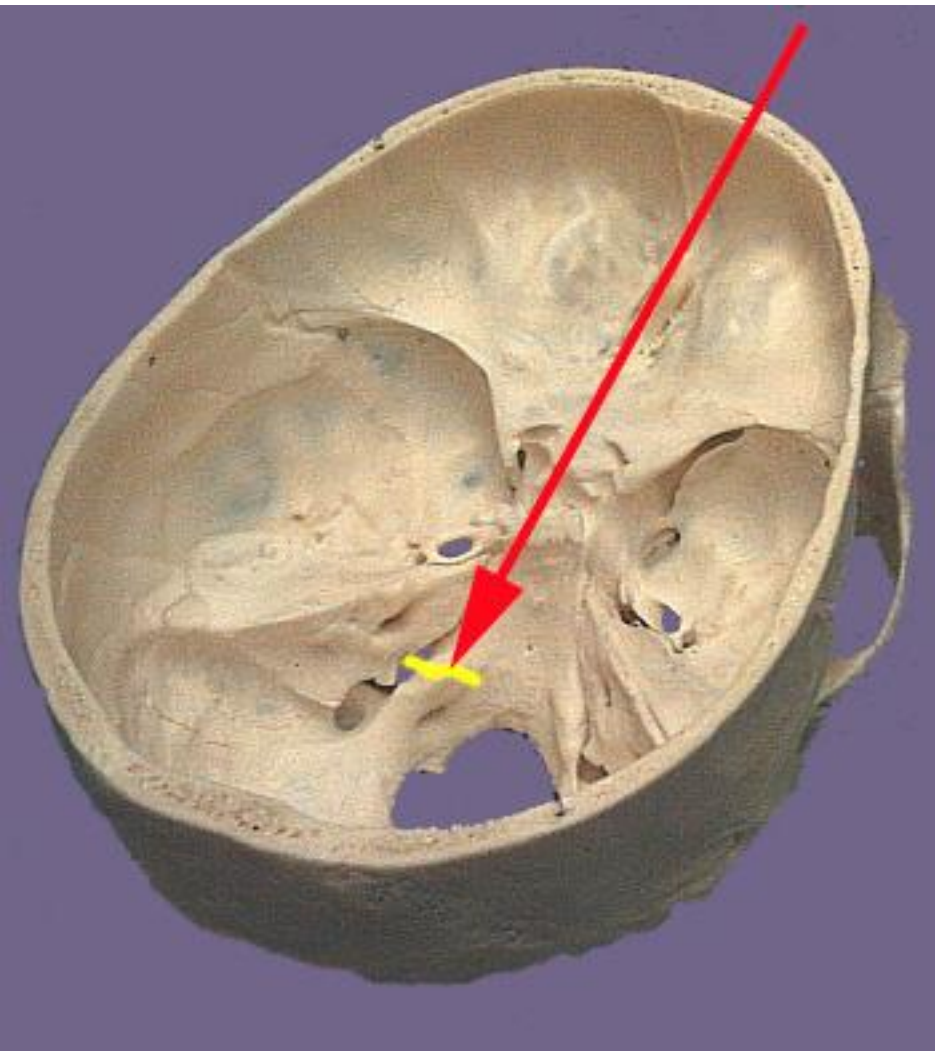
Kůže dolní čelisti a před ušním boltcem  
Gingiva a zuby dolní čelisti

Motorická inervace n. V/3

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

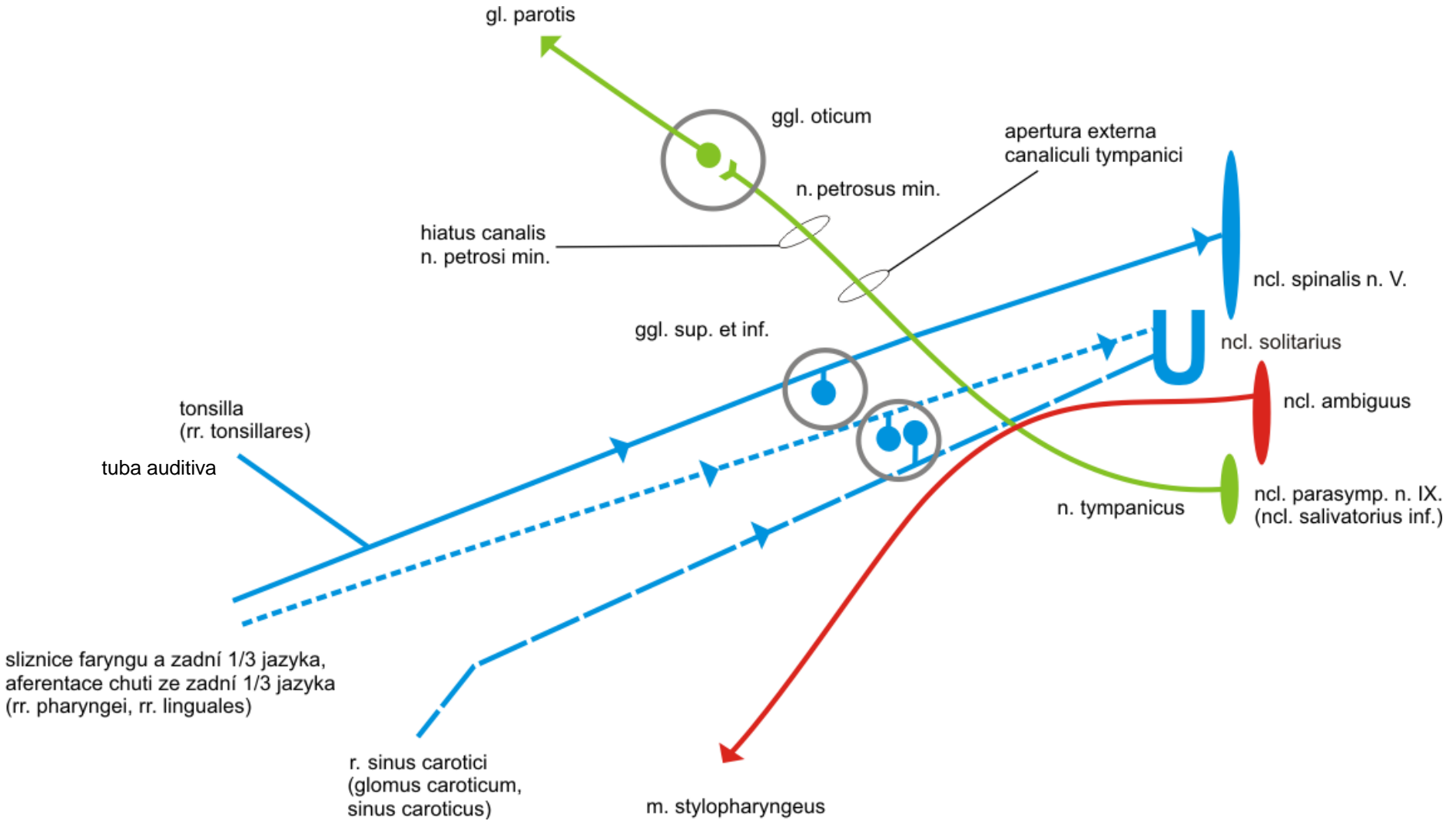
# Ggl. oticum et submandibulare





n. 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

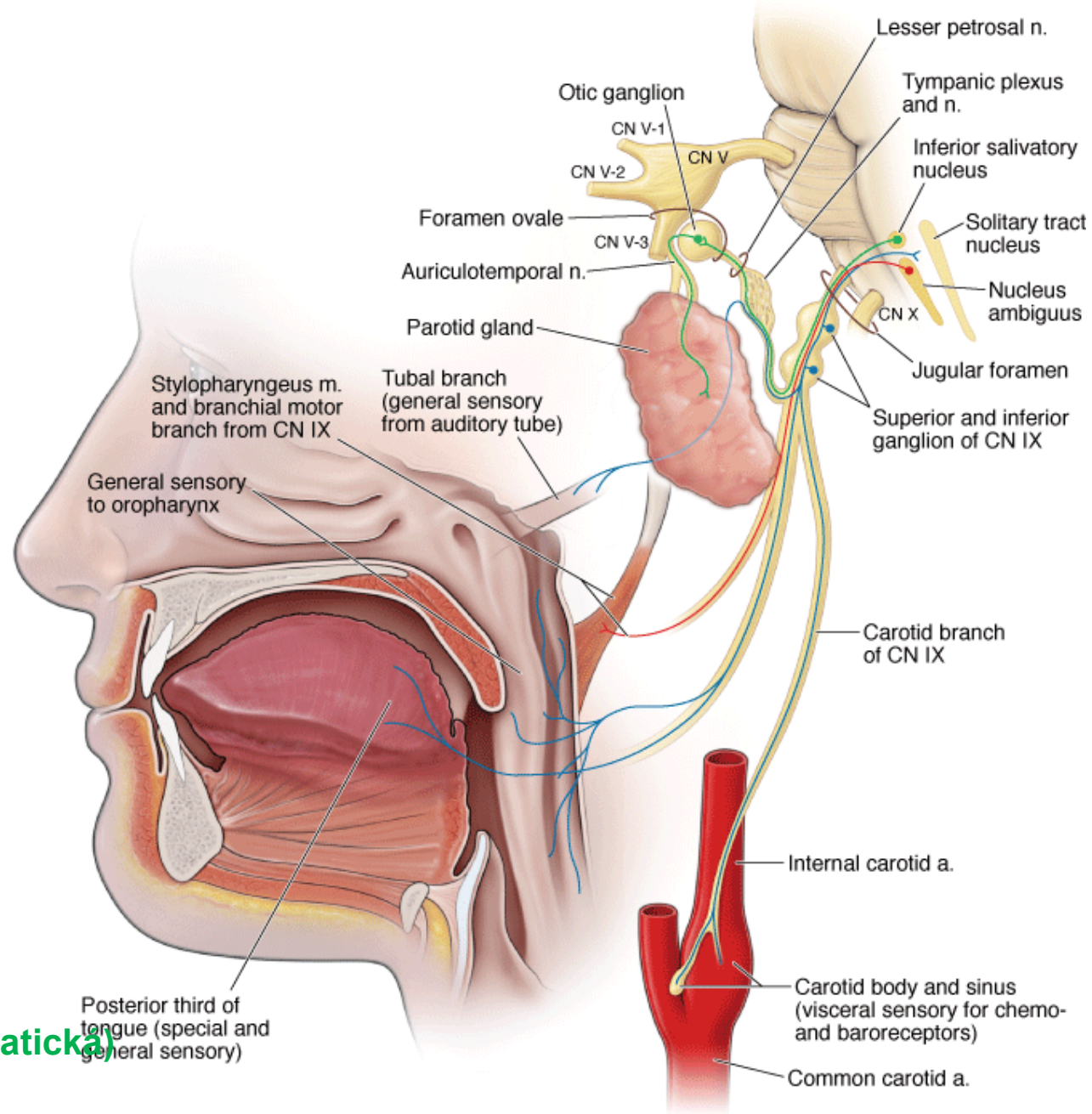
Sinus caroticus

### **Motoricky (Branchiomotor.)**

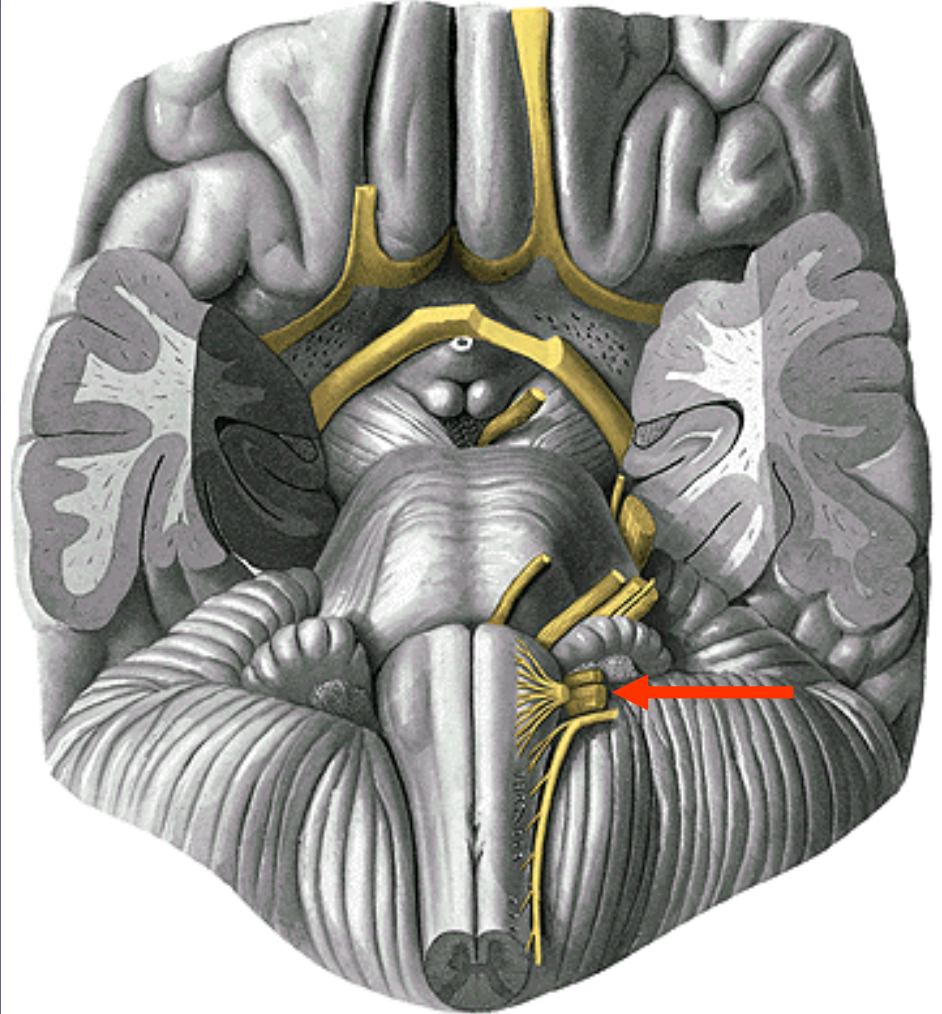
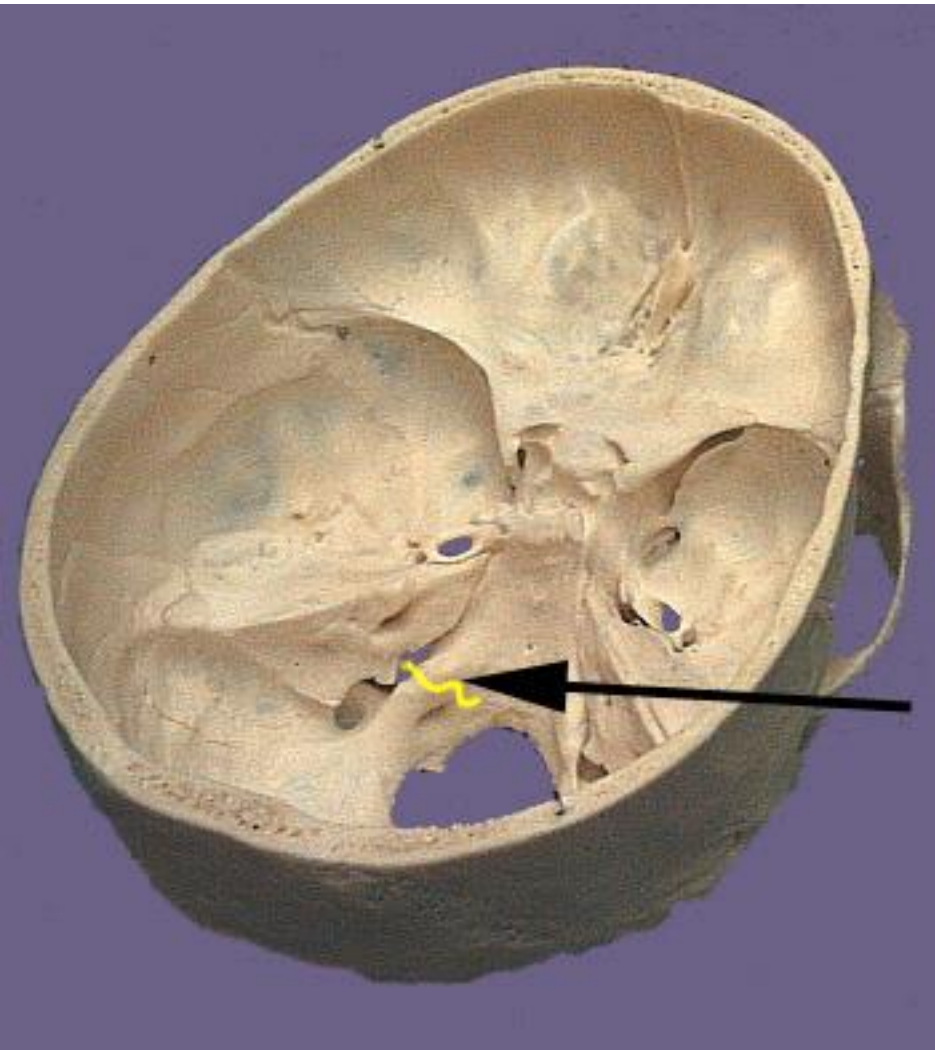
**m. stylopharyngeus**

### **Visceromotorická (parasymptická)**

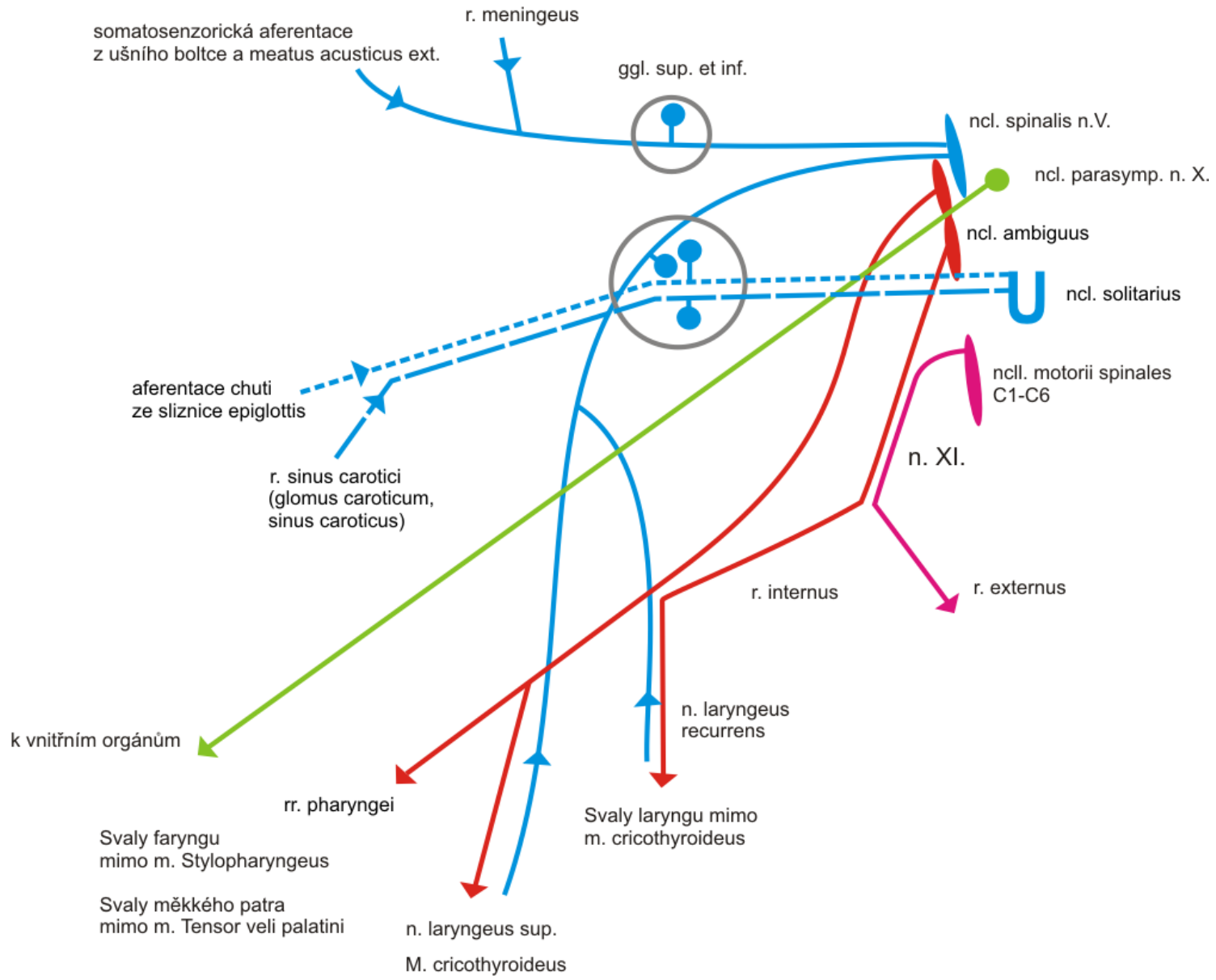
**gl. parotis**



n. X.



# 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. **m**eningeus

rr **a**uriculares

rr. **p**haryngei

rr. **l**aryngei sup.

rr. **c**ardiaci cervicales sup.

n. laryngeus **r**ecurrens, n. lar. inf.

rr. **c**ardiaci cervicales inf.

rr. **c**ardiaci thoracici

rr. **b**ronchiales

rr. tracheales,

rr. **o**esophagei, plexus oesophageus,

plexus pulmonalis

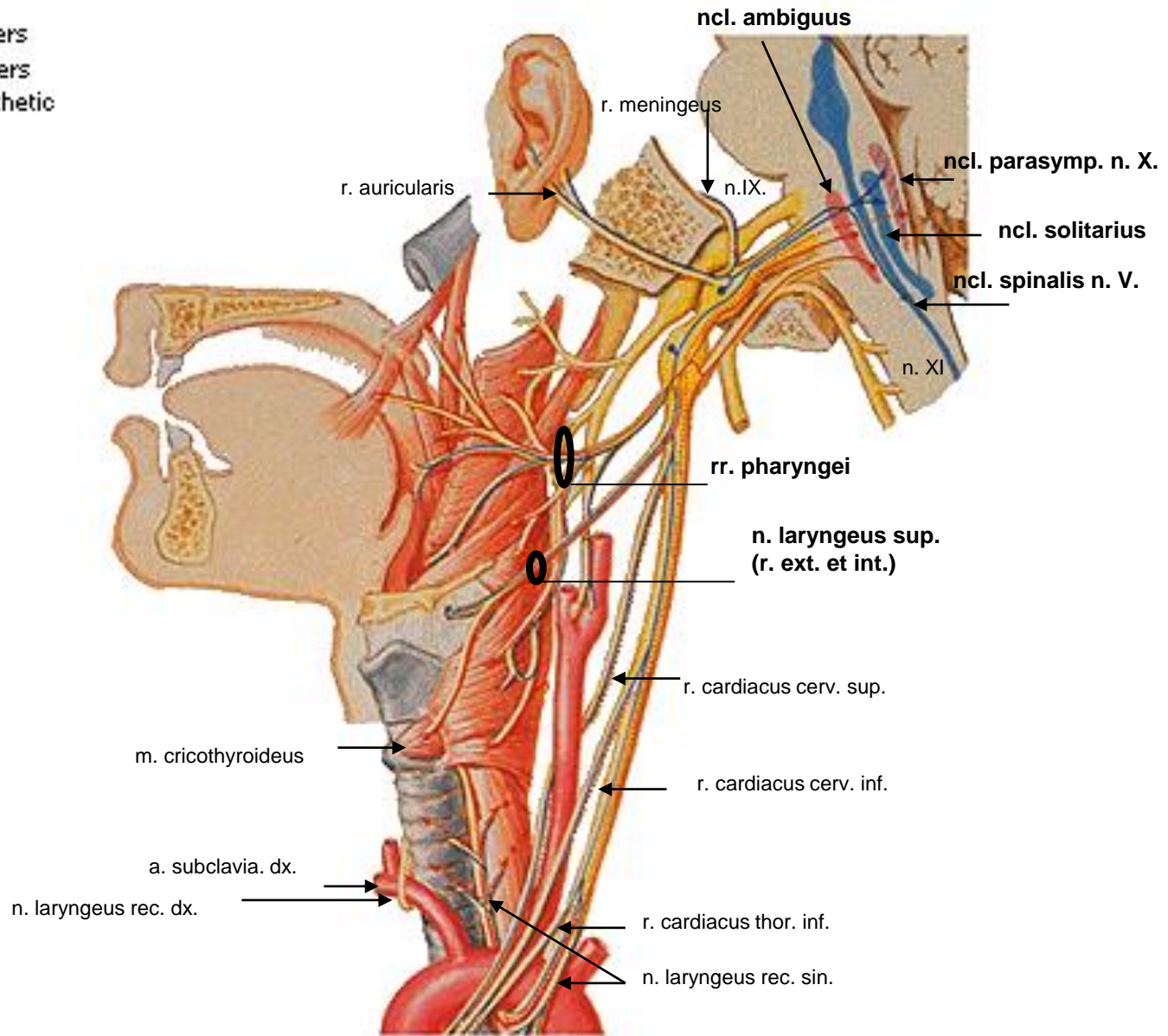
truncus vagalis ant., post. -----rr. **g**astrici ant. post.,

rr. **c**oeliaci

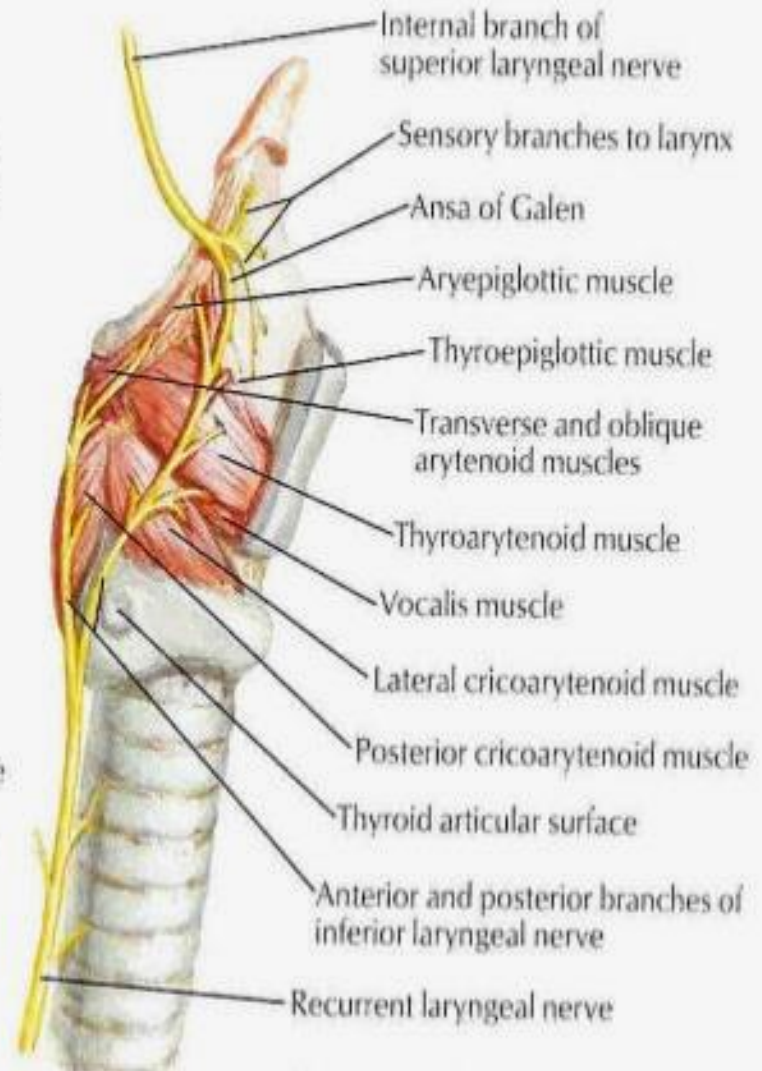
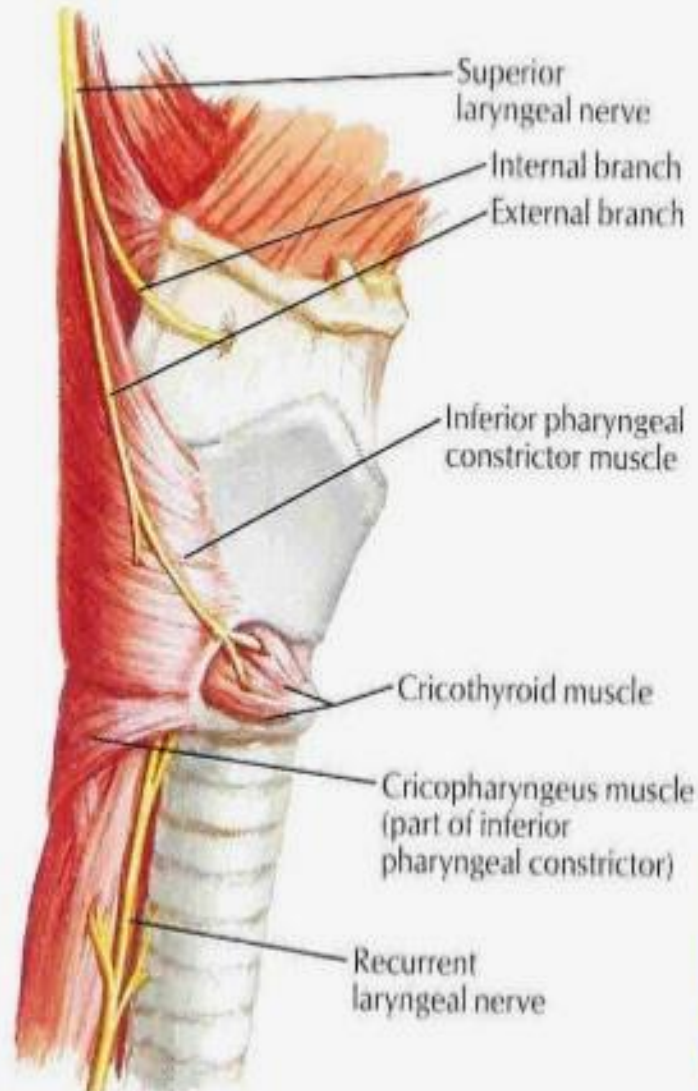
rr. **h**epatici

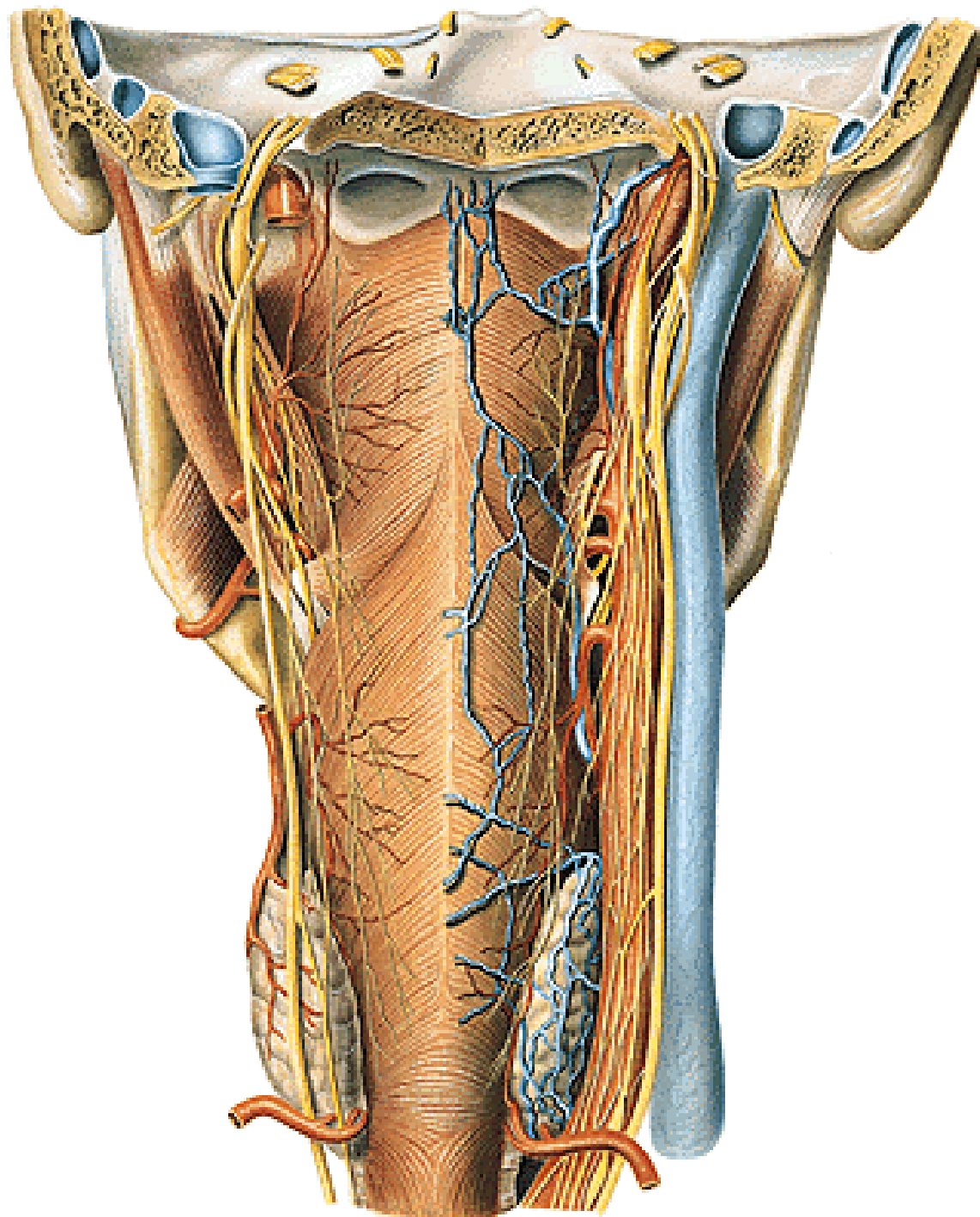
rr. **r**enales

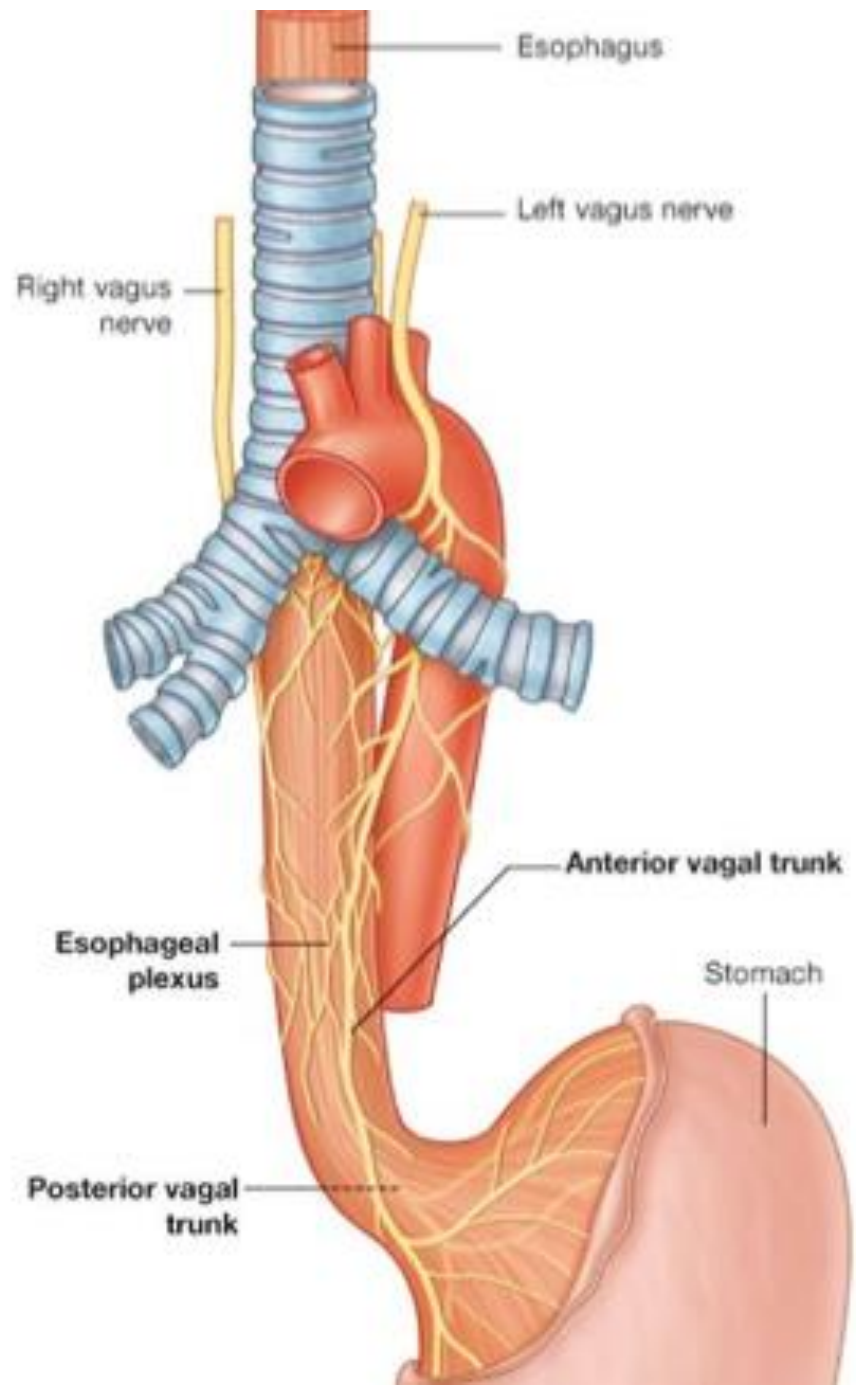
- Efferent fibers
- Afferent fibers
- ⋯ Parasympathetic fibers

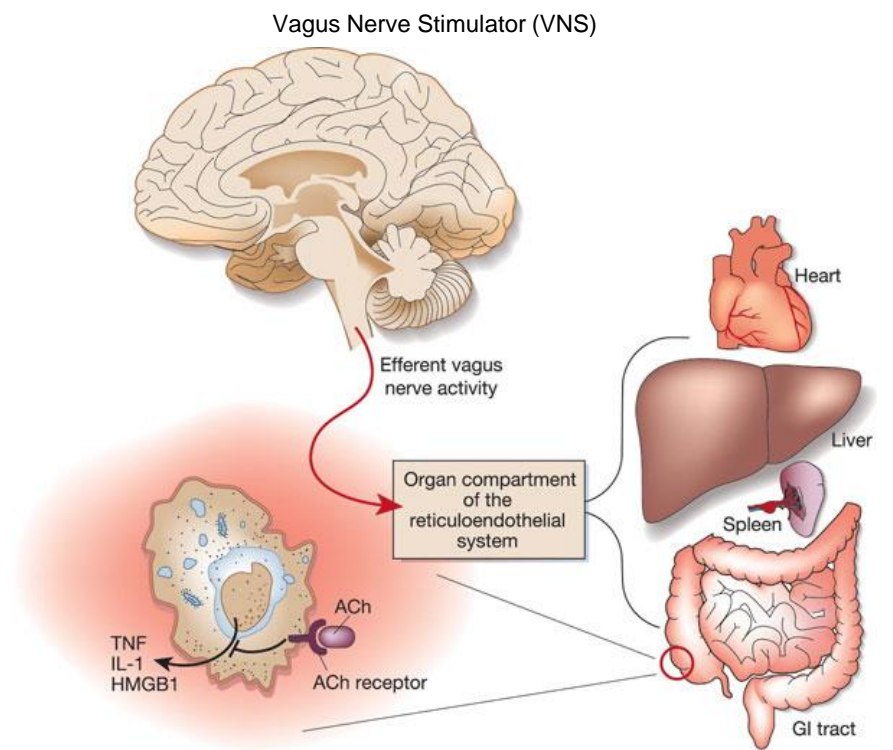
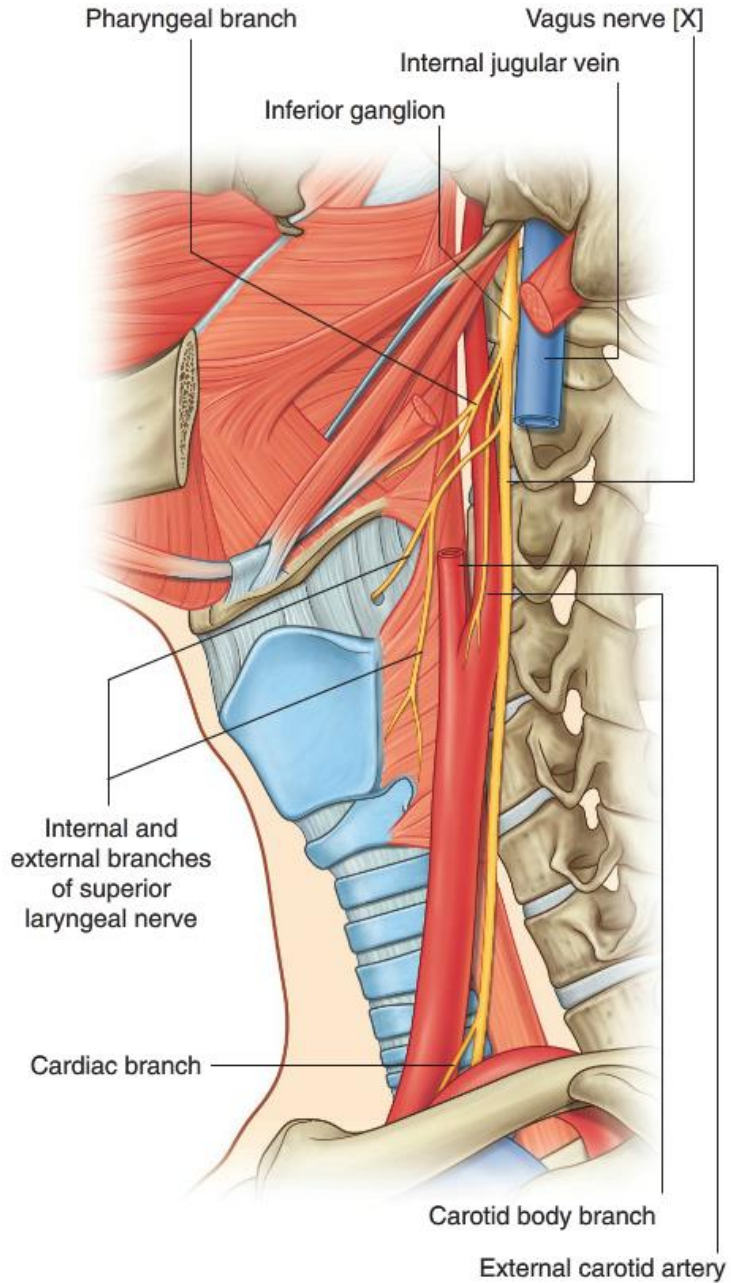


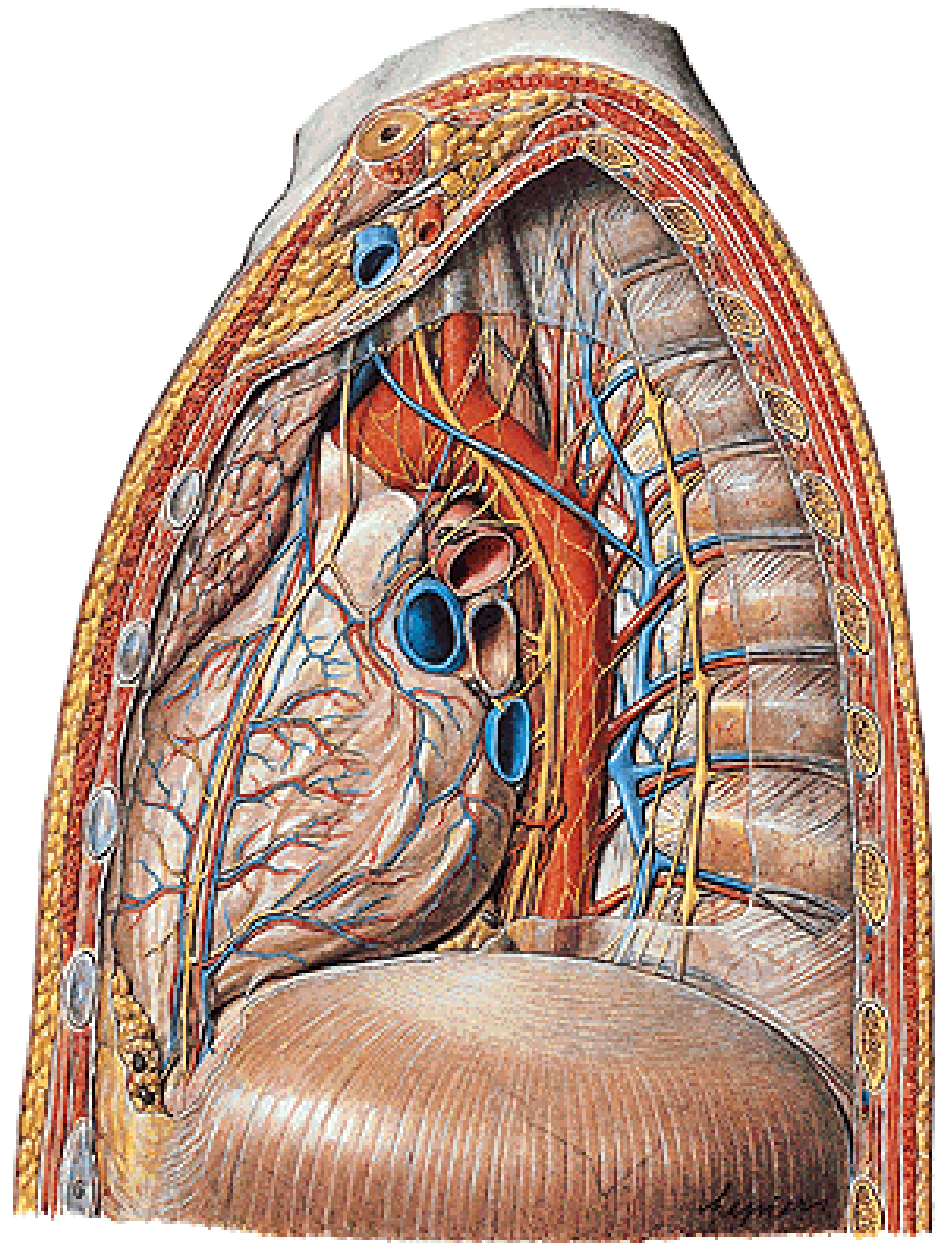
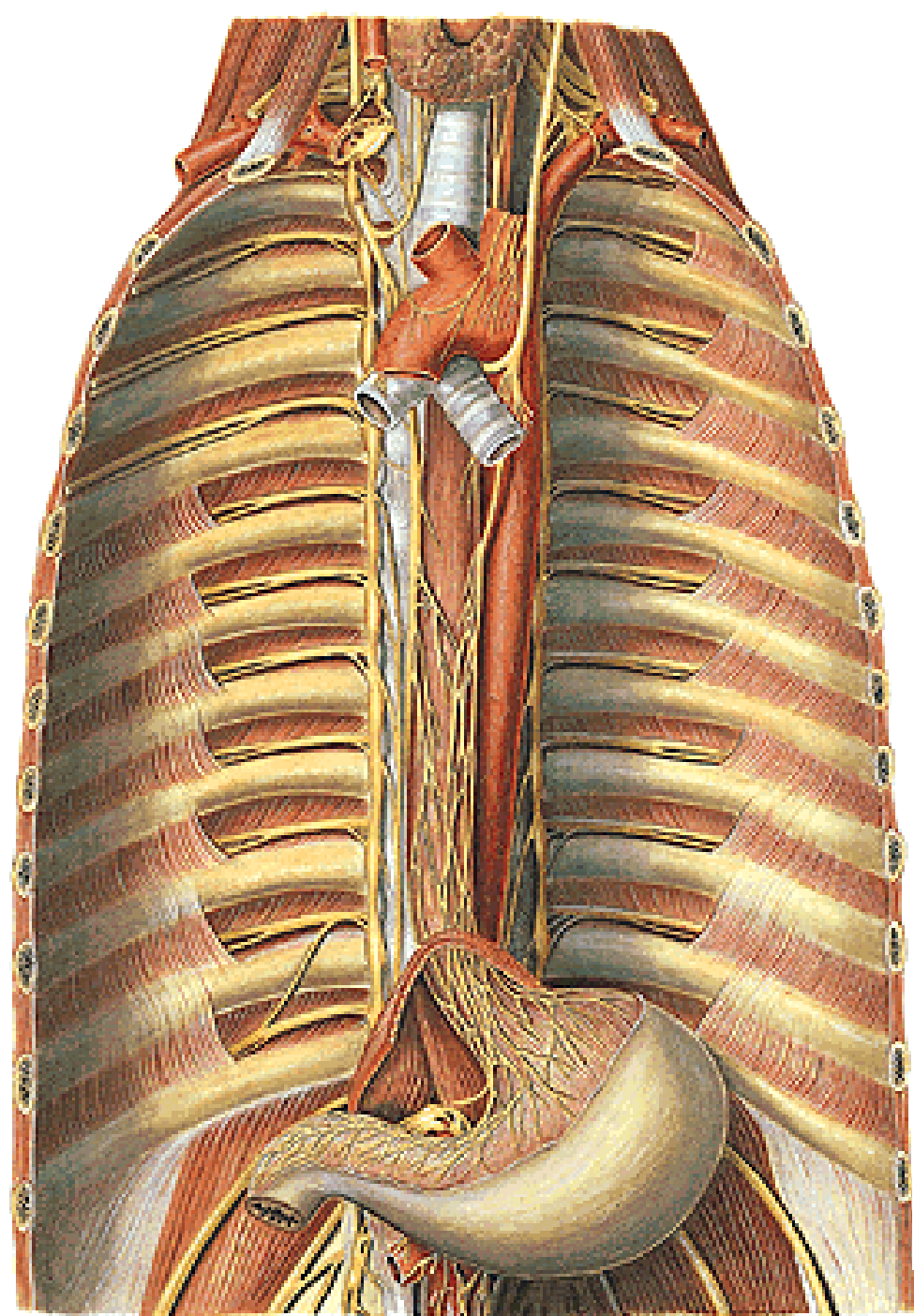
# NERVE SUPPLY OF LARYNX



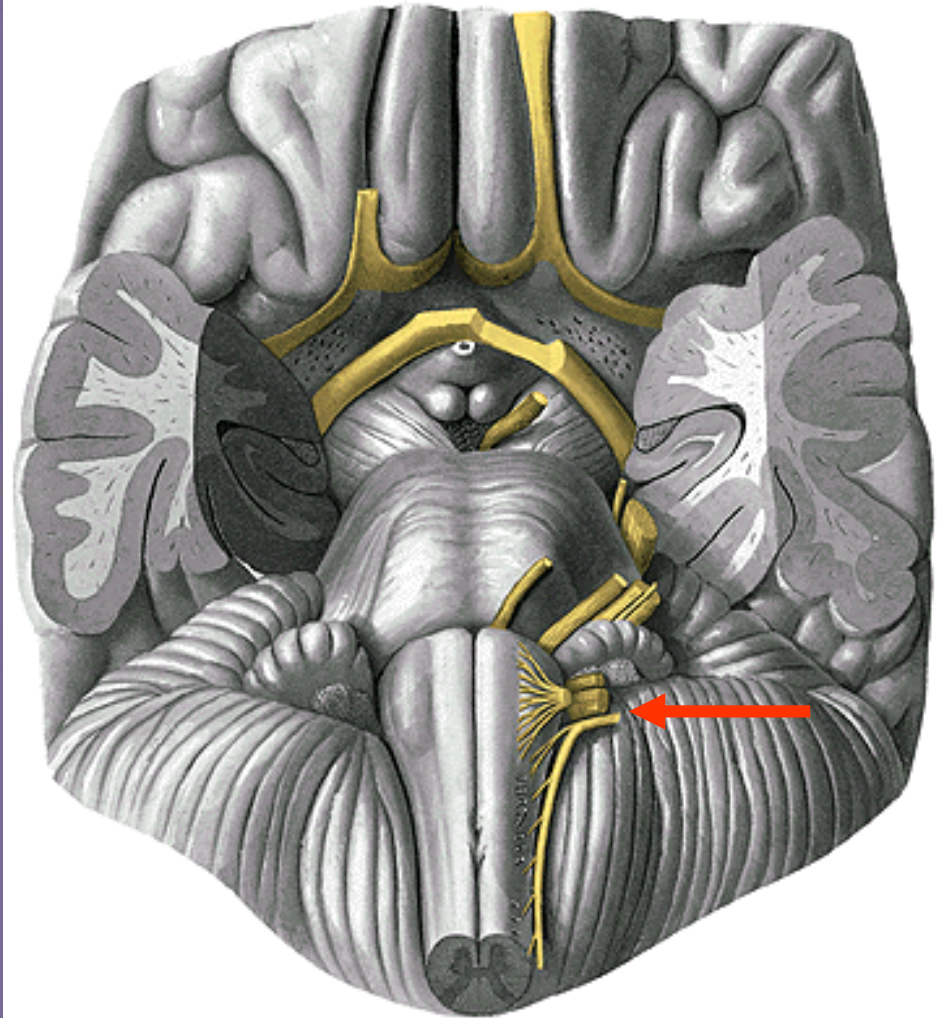
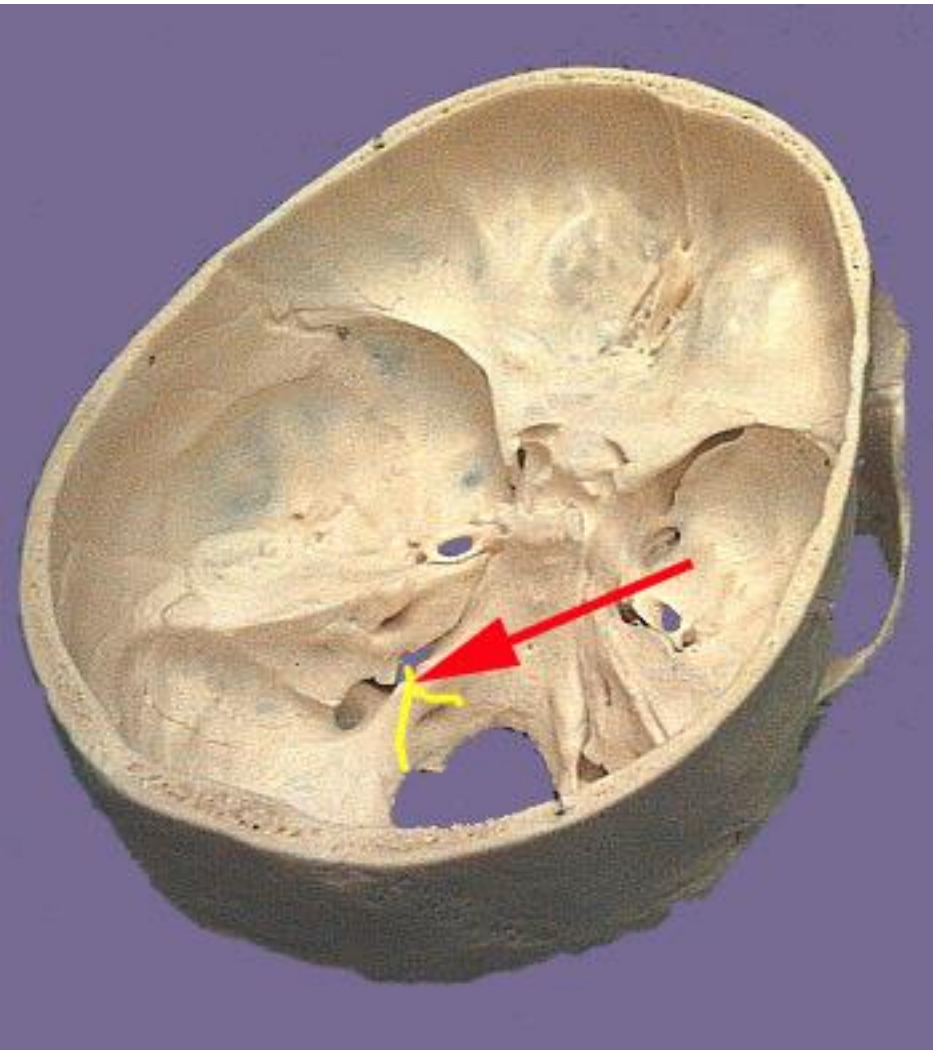






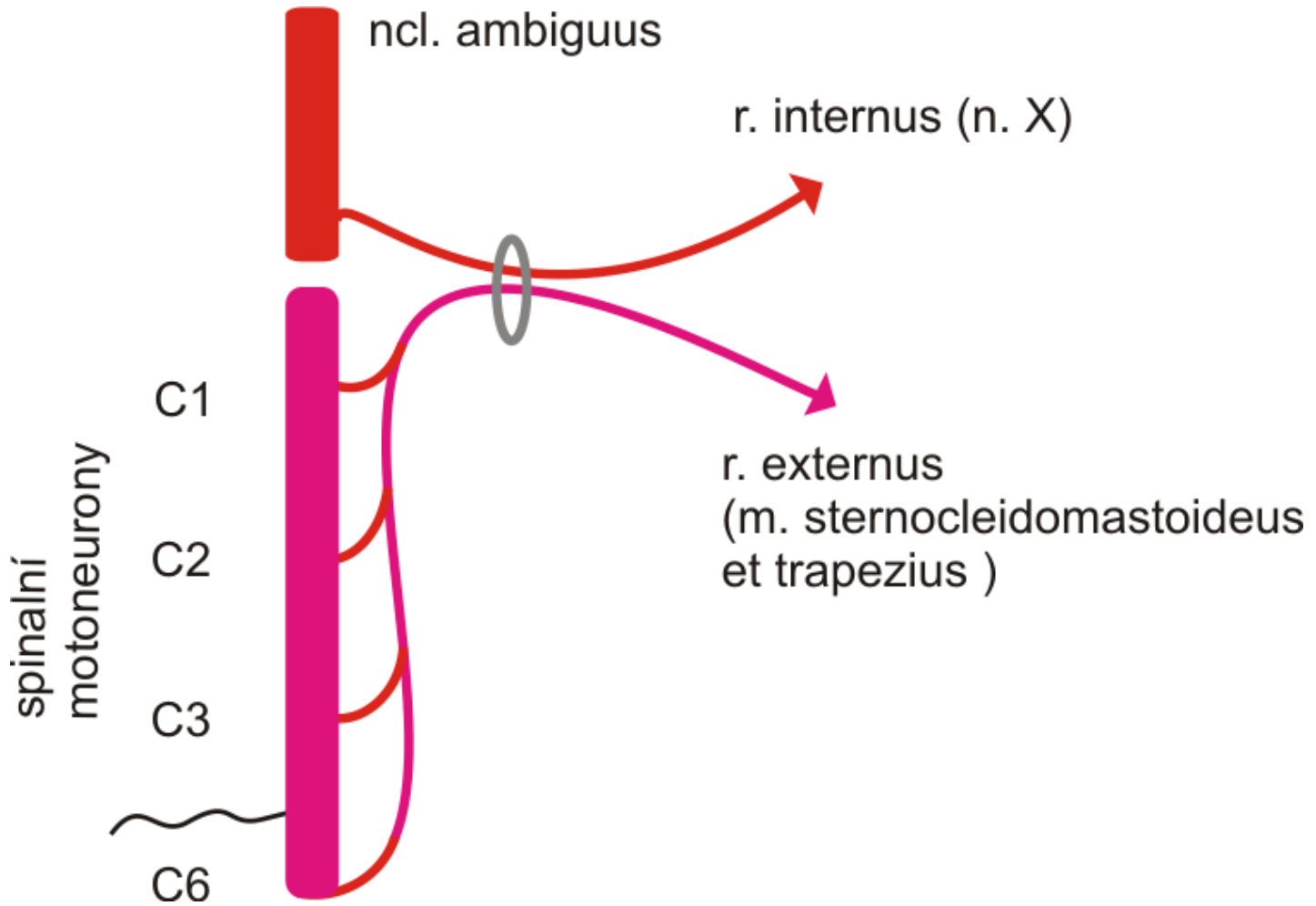


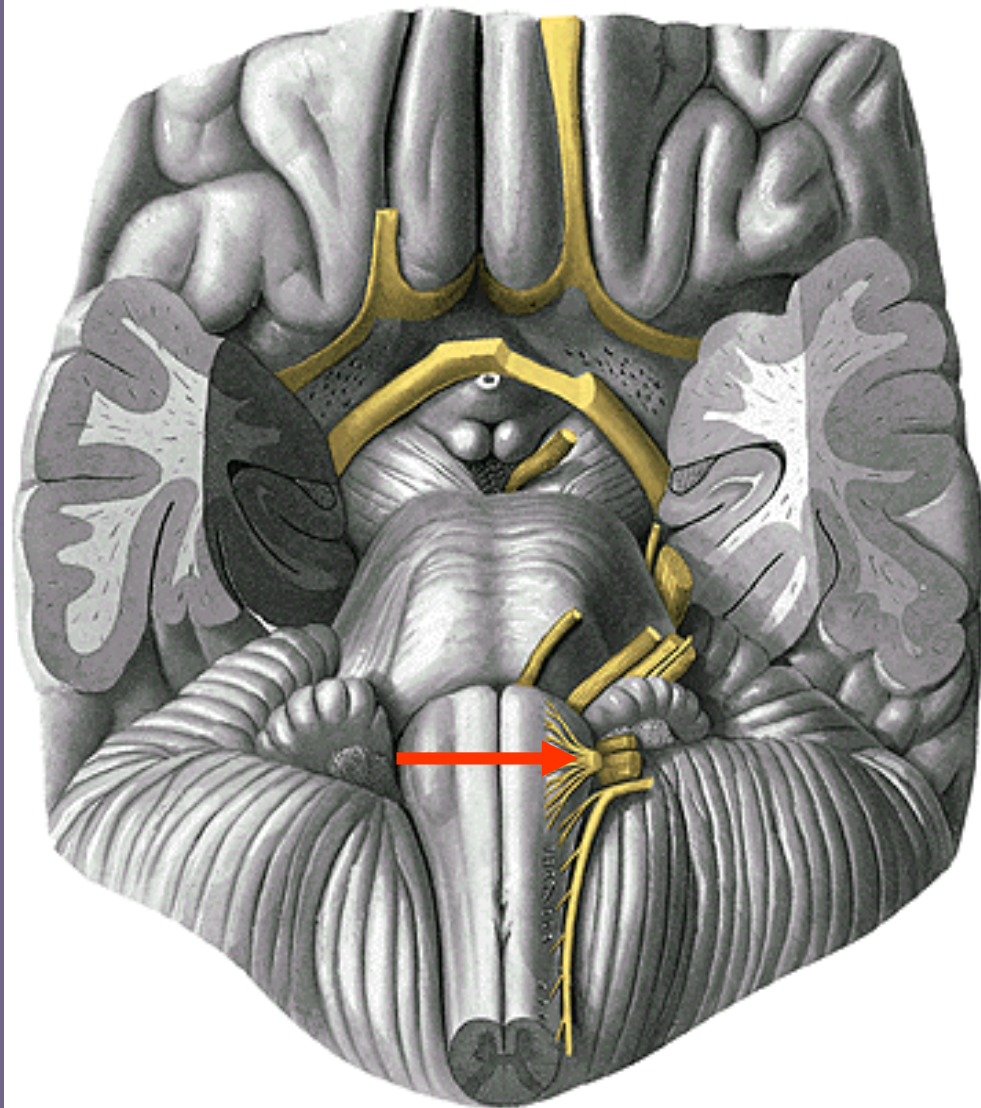
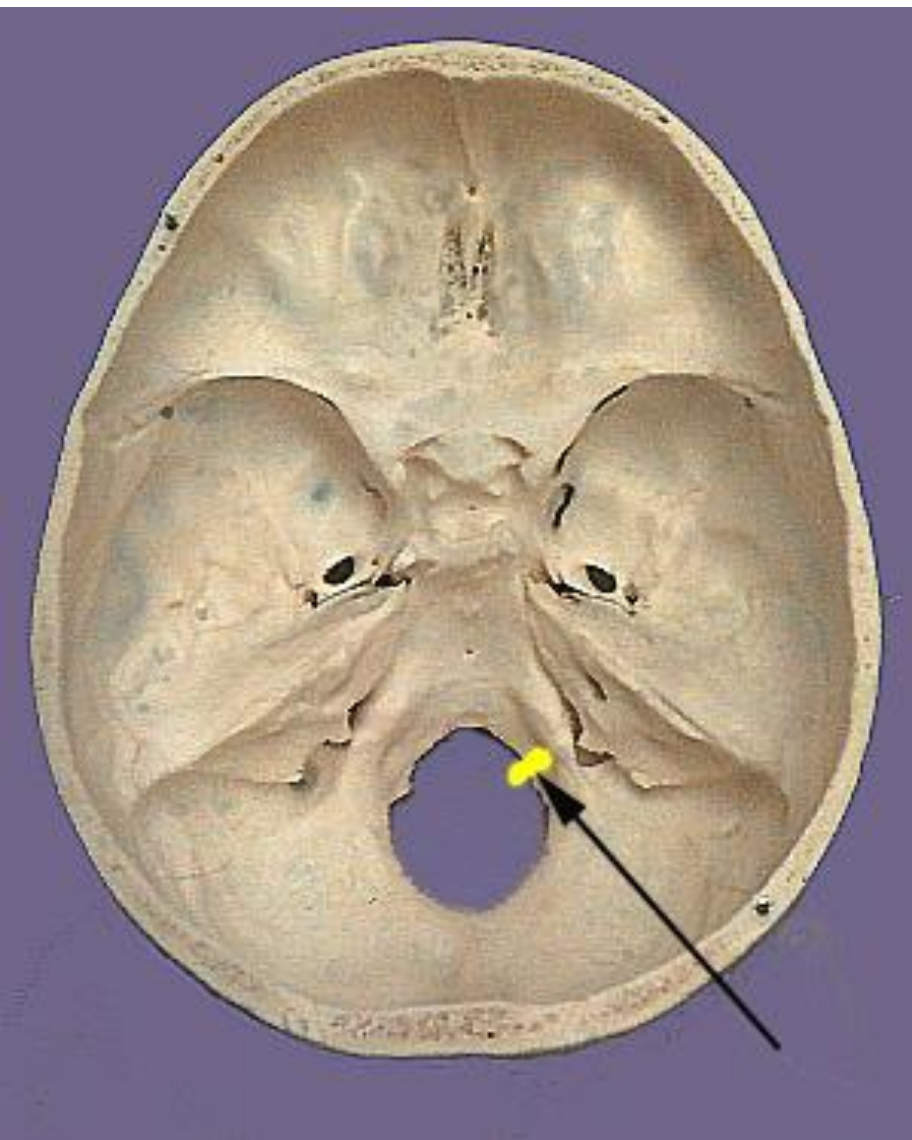
n. XI.





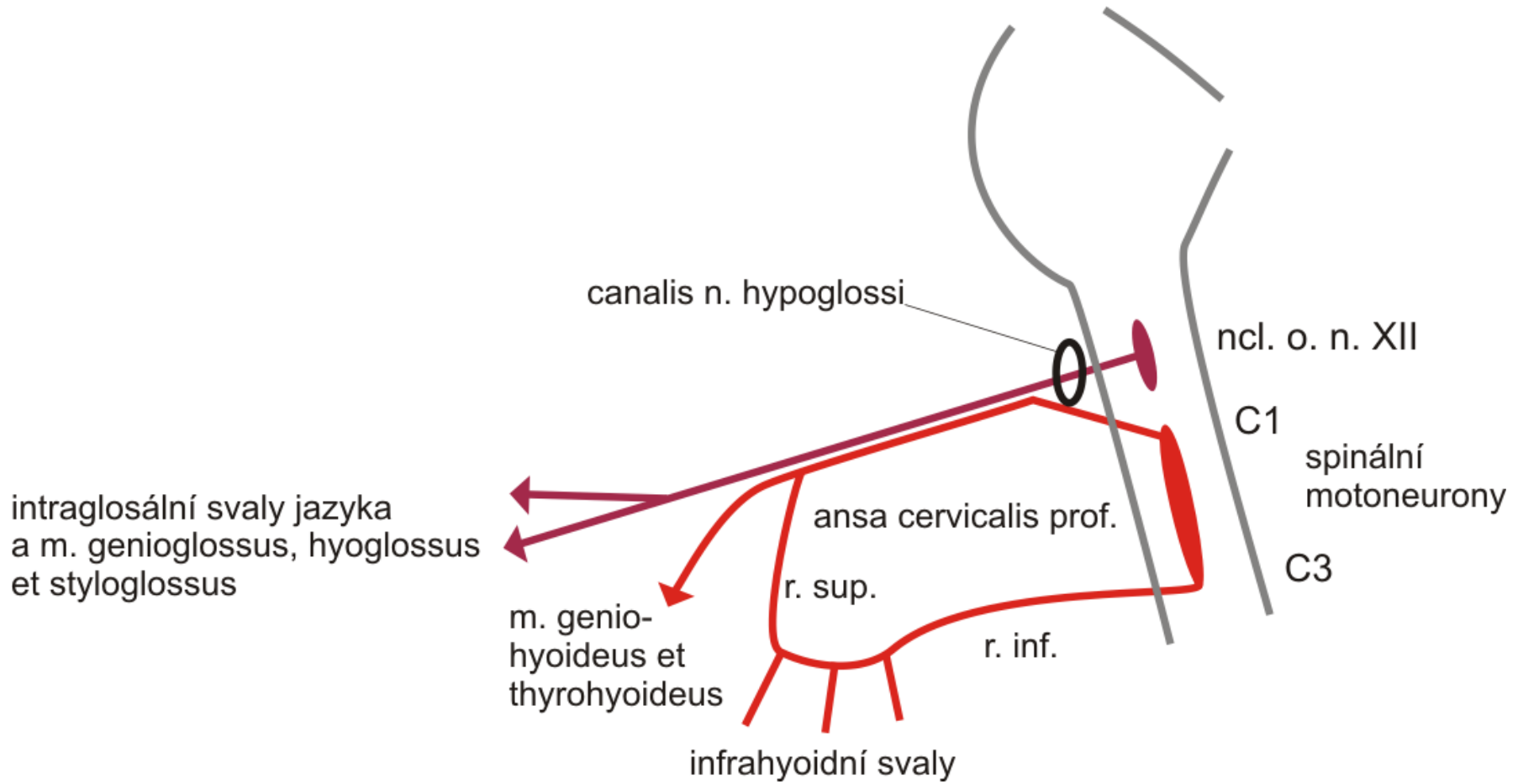
n. XI.

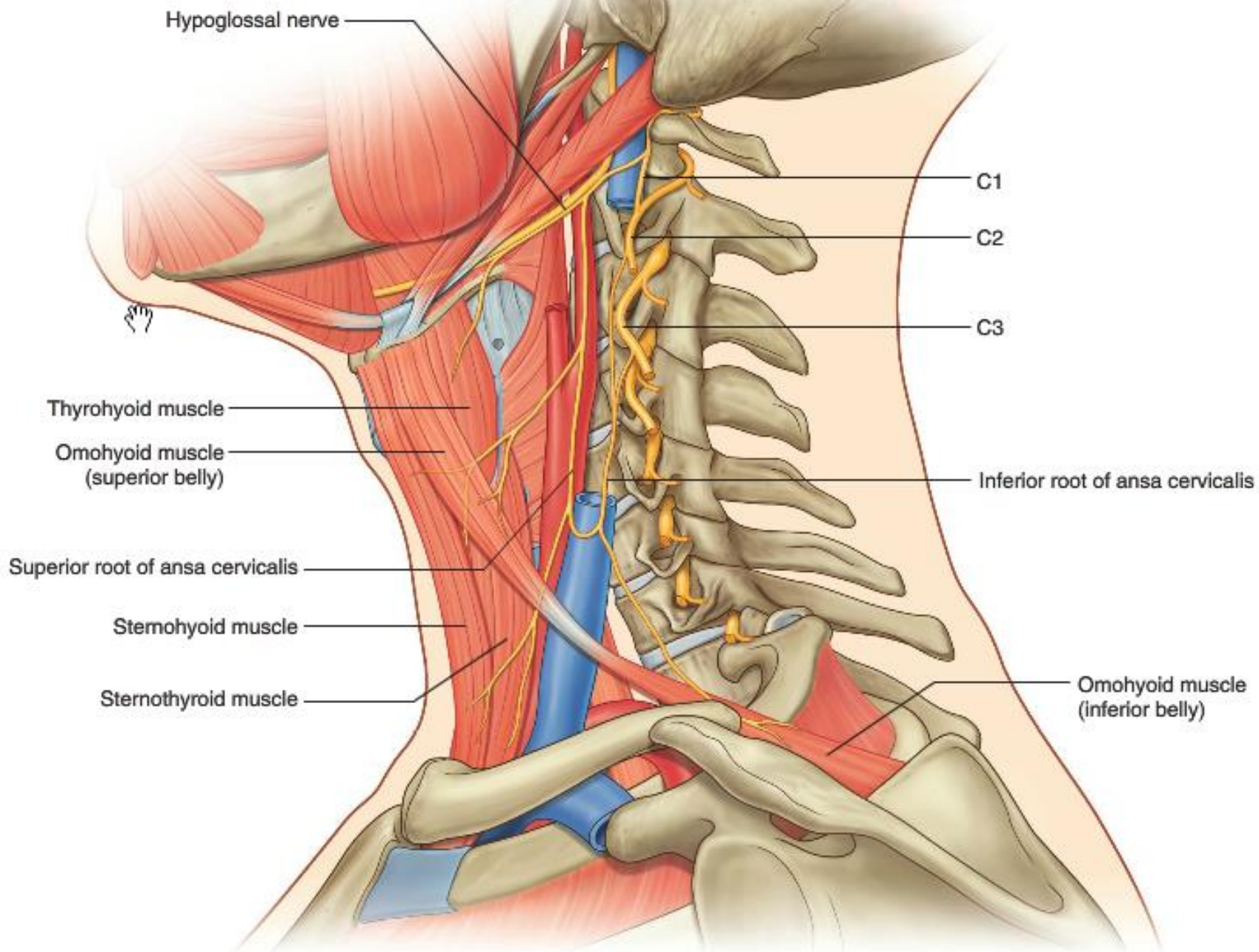




n. XII.

# n. XII.





Leze n. hypoglossus – jazyk na stranu nepoškodeného nervu

