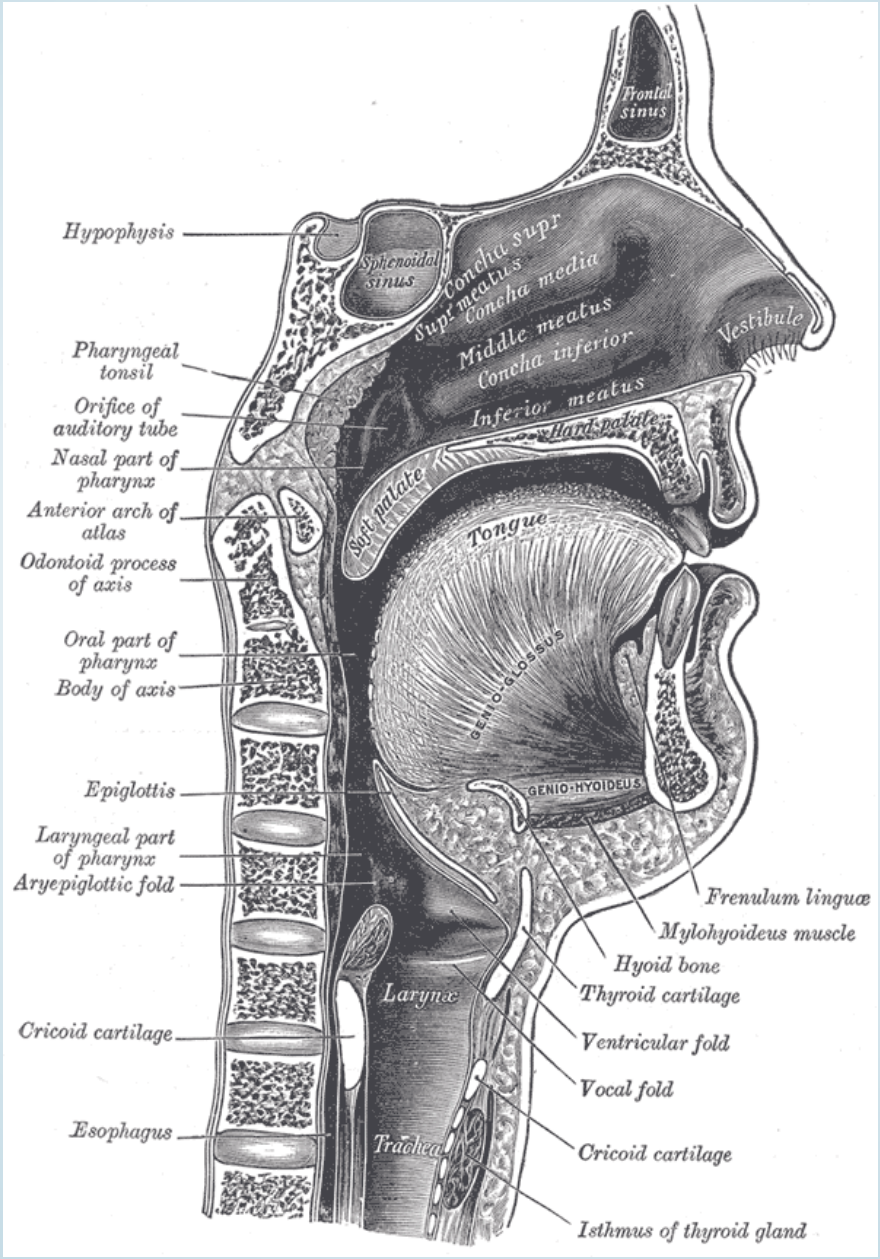
A SZÁJÜREG FALAI, RÉSZEI, A SZÁJÜREGI NYÁLKAHÁRTYA SZERKEZETE

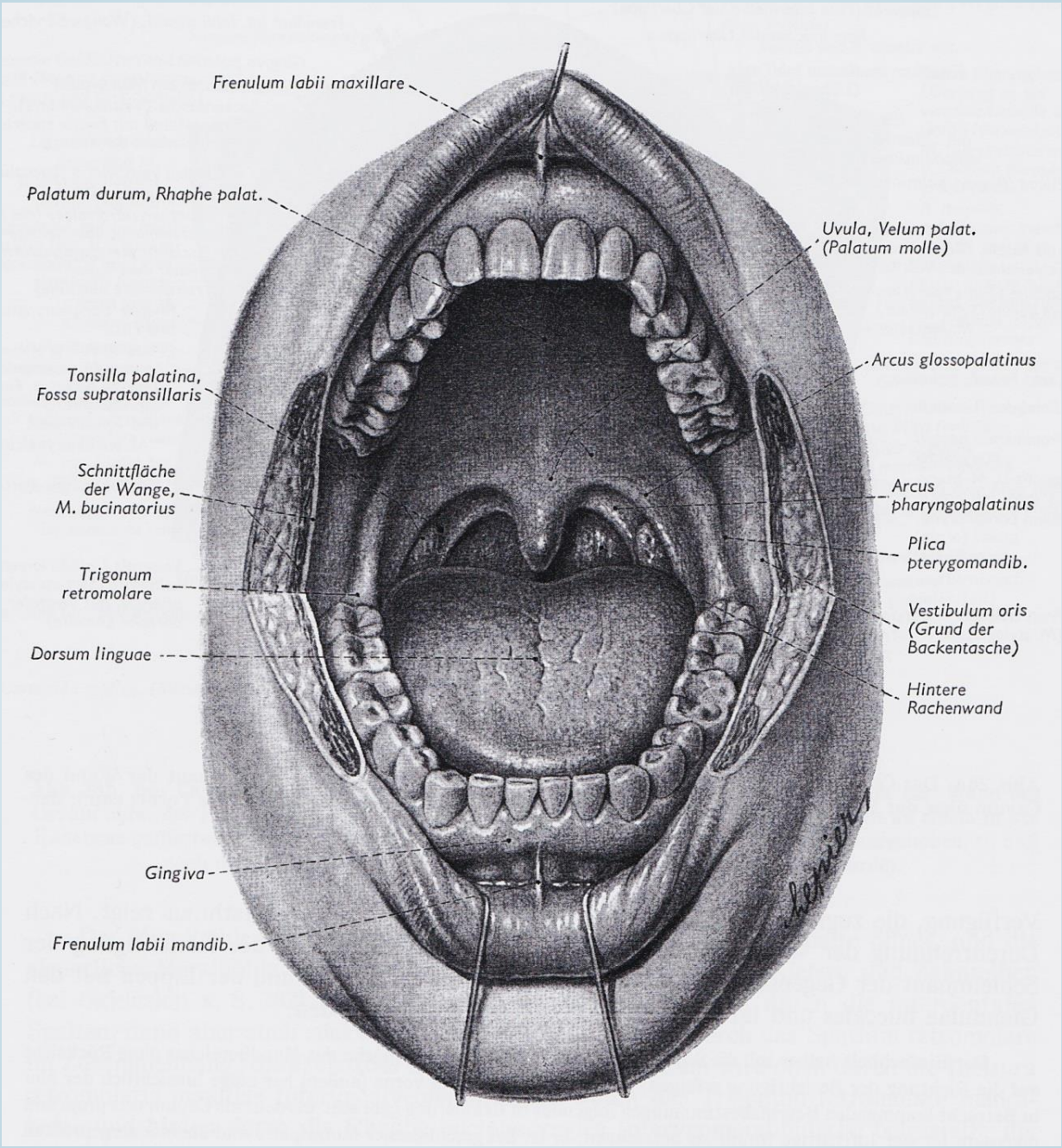
Aki vigyáz szájára és nyelvére, megőrzi életét a nyomorúságtól.

Péld 21:23

Ph.D., Dr. Lendvai Dávid

TOPOGRAPHIA




Frenulum labii maxillare
Palatum durum, Rhaphe palat.
Uvula, Velum palat. (Palatum molle)
Arcus glossopalatinus
Tonsilla palatina, Fossa supratonsillaris
Schnittfläche der Wange, M. bucinatorius
Arcus pharyngopalatinus
Plica pterygomandib.
Trigonum retromolare
Vestibulum oris (Grund der Backentasche)
Dorsum linguae
Hintere Rachenwand
Gingiva
Frenulum labii mandib.

A szájüreg részei

1.Vestibulum

Határok:

- Ajkak és a pofa (Bucca)

- Fogívek

2.Cavum proprium

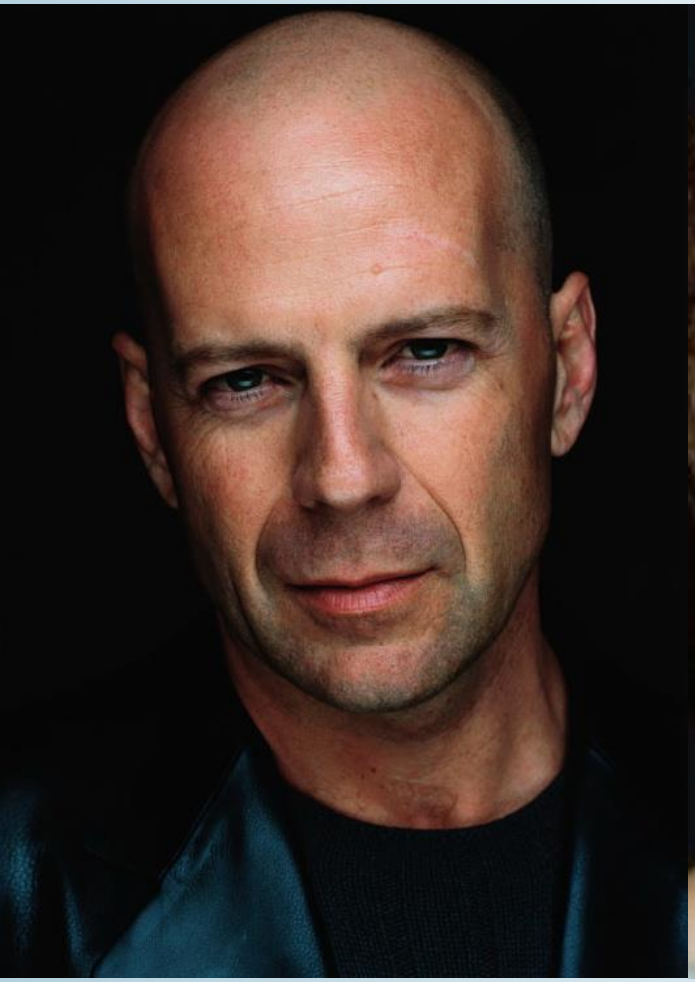
Határok:

- felül: kemény- és lágyszájpad

- alul: diaphragma oris (M. mylohoid)

- antero-lateral: fogívek

- hátul: torokszoros (isthmus faucium)



Philtrum

Ajkak

Angulus oris

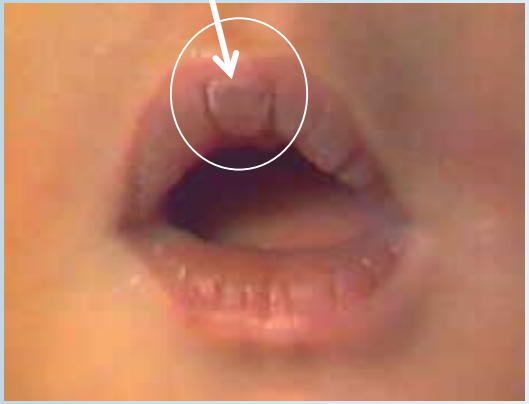
Rubor labii

sulcus nasolabialis

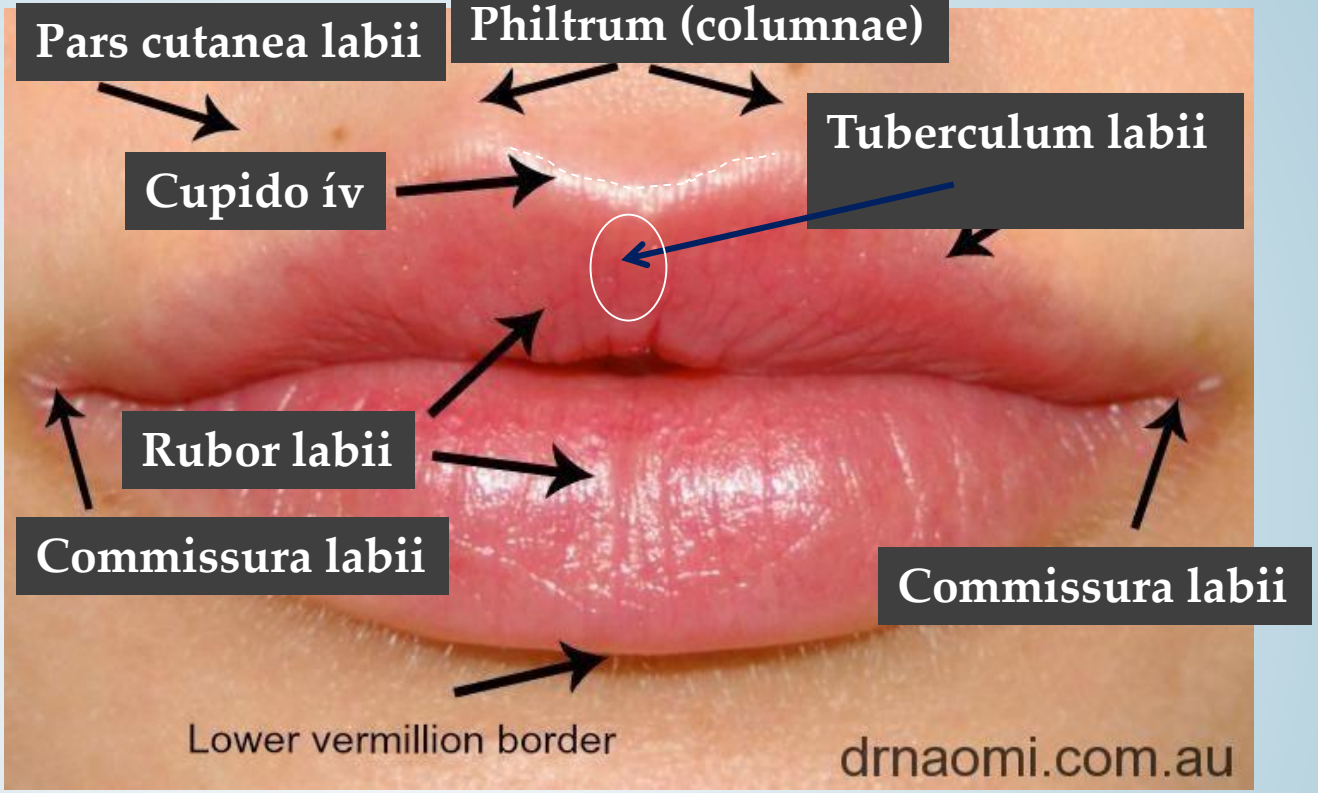
(N. facialis bénulás)

AZ AJAK SZERKEZETE

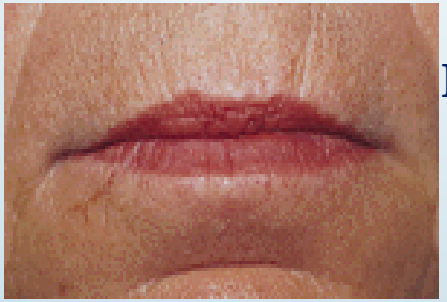
Philtrum
és kifejezett
TUBERCULUM



CSECSEMŐ



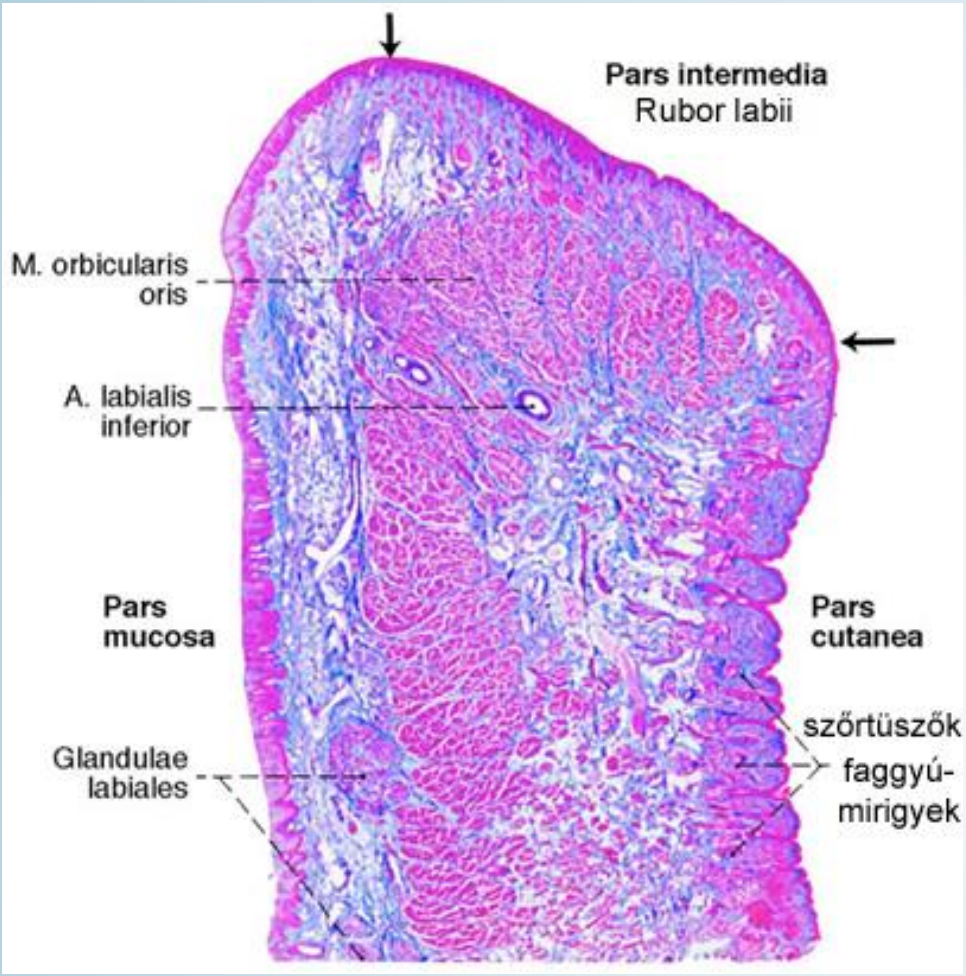
KISGYERMEK



FELNŐTT

KOLLAGÉN ELŐTT ÉS UTÁN

LABIUM



Alapja: m. orbicularis oris

Pars cutanea:

többrétegű, elszarusodó laphám
Szőrtüszők, faggyú- és verejtékmirigyek

Rubor labii:

Mirigyek hiányoznak (néha szabad faggyúmirigyek)
Magas ktsz-i papillák, sűrű kapillárishálózat, hiányzó pigmentsejtek → piros

Pars mucosa:

Többrétegű, el nem szarusodó laphám
Gll. labiales (kevert)

Vérellátás:

A. facialis → A. labialis sup., inf. → artériás gyűrű → V. angularis/facialis

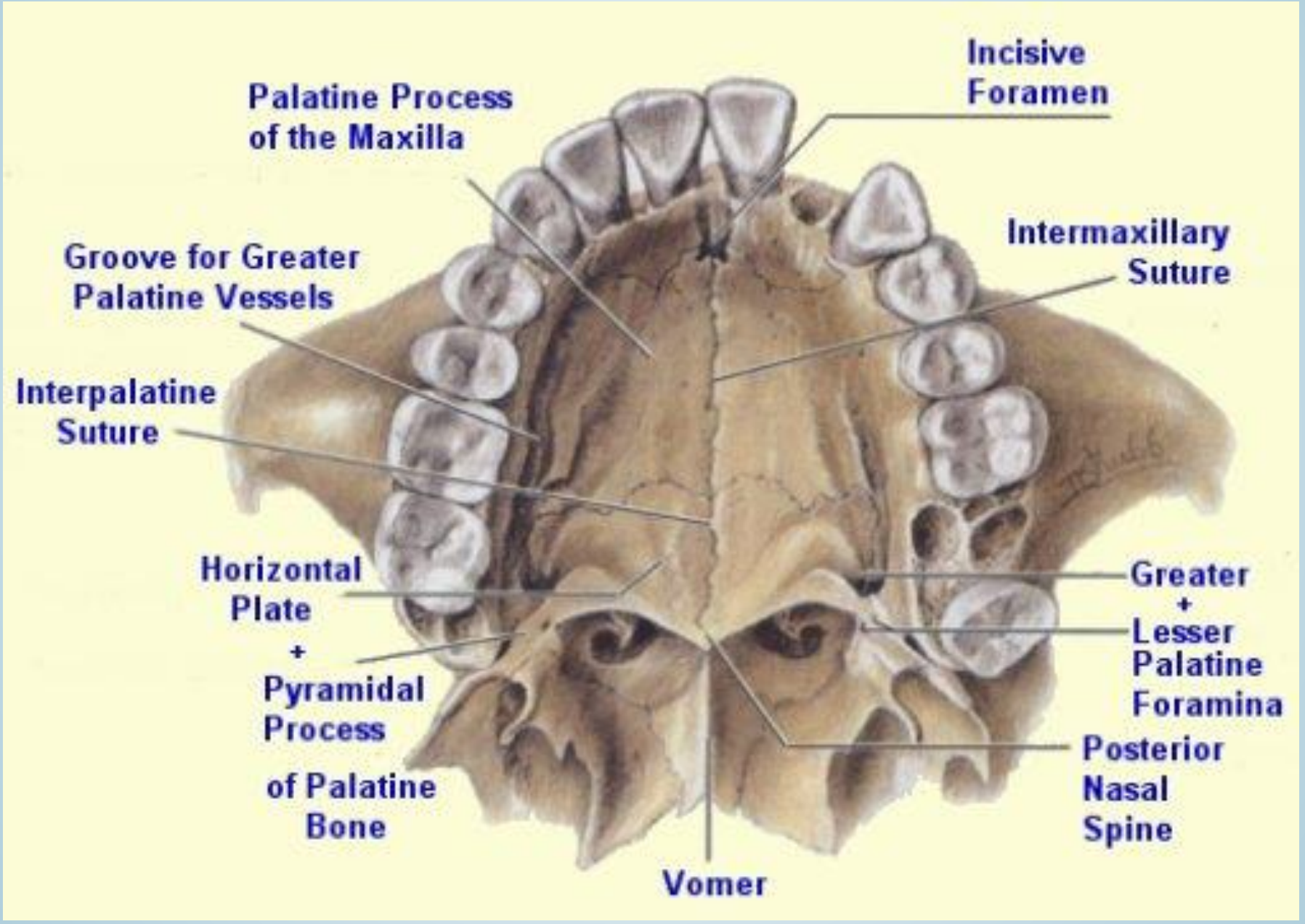
Nyirokelvezetés:

Nll. submandibulares, submentales, felső nyaki nyirokcsomók

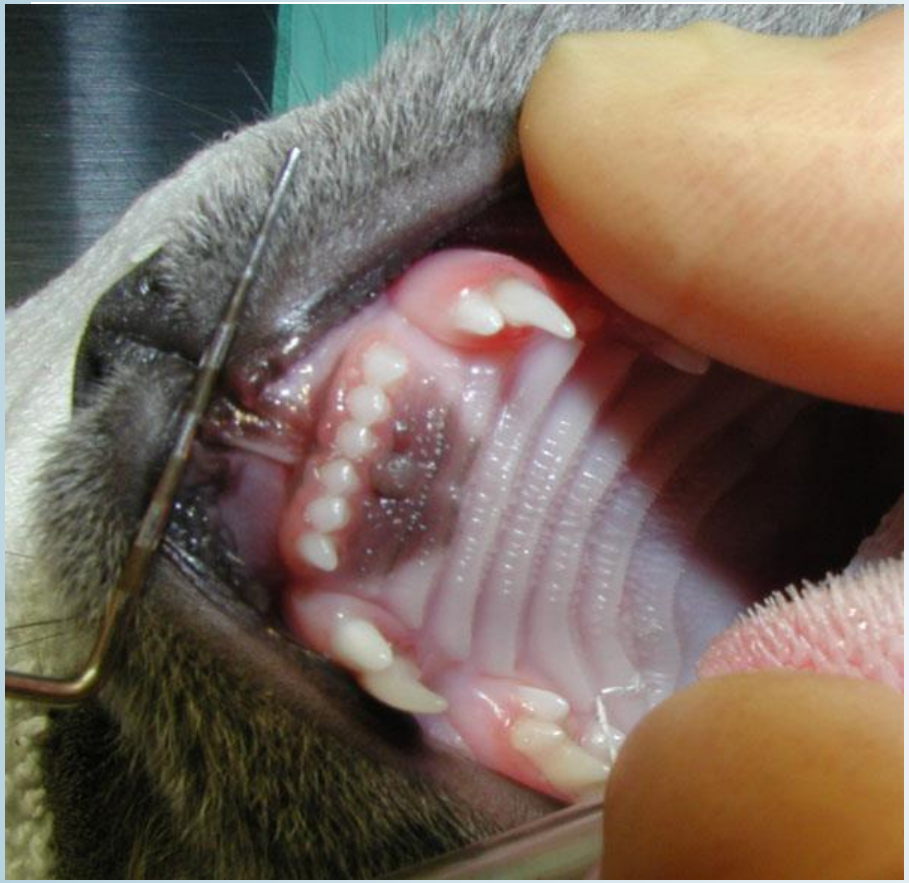
Beidegzés:

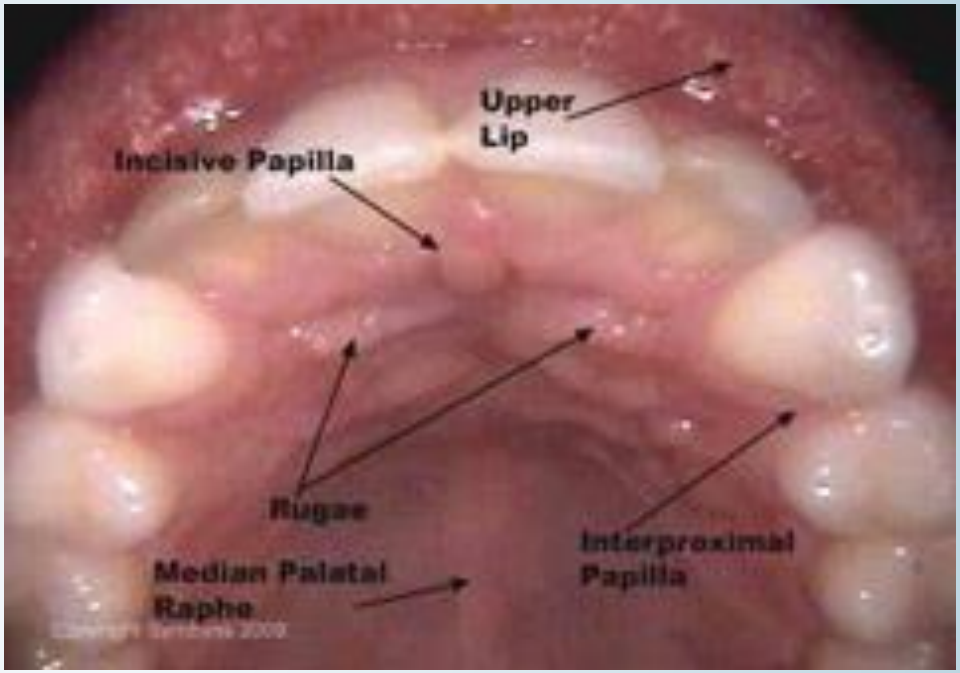
N. infraorbitalis (V/2)
N. mentalis (V/3)

SZÁJPAD: KEMÉNY- ÉS LÁGYSZÁJPAD



KEMÉNY SZÁJPAD (PALATUM DURUM)

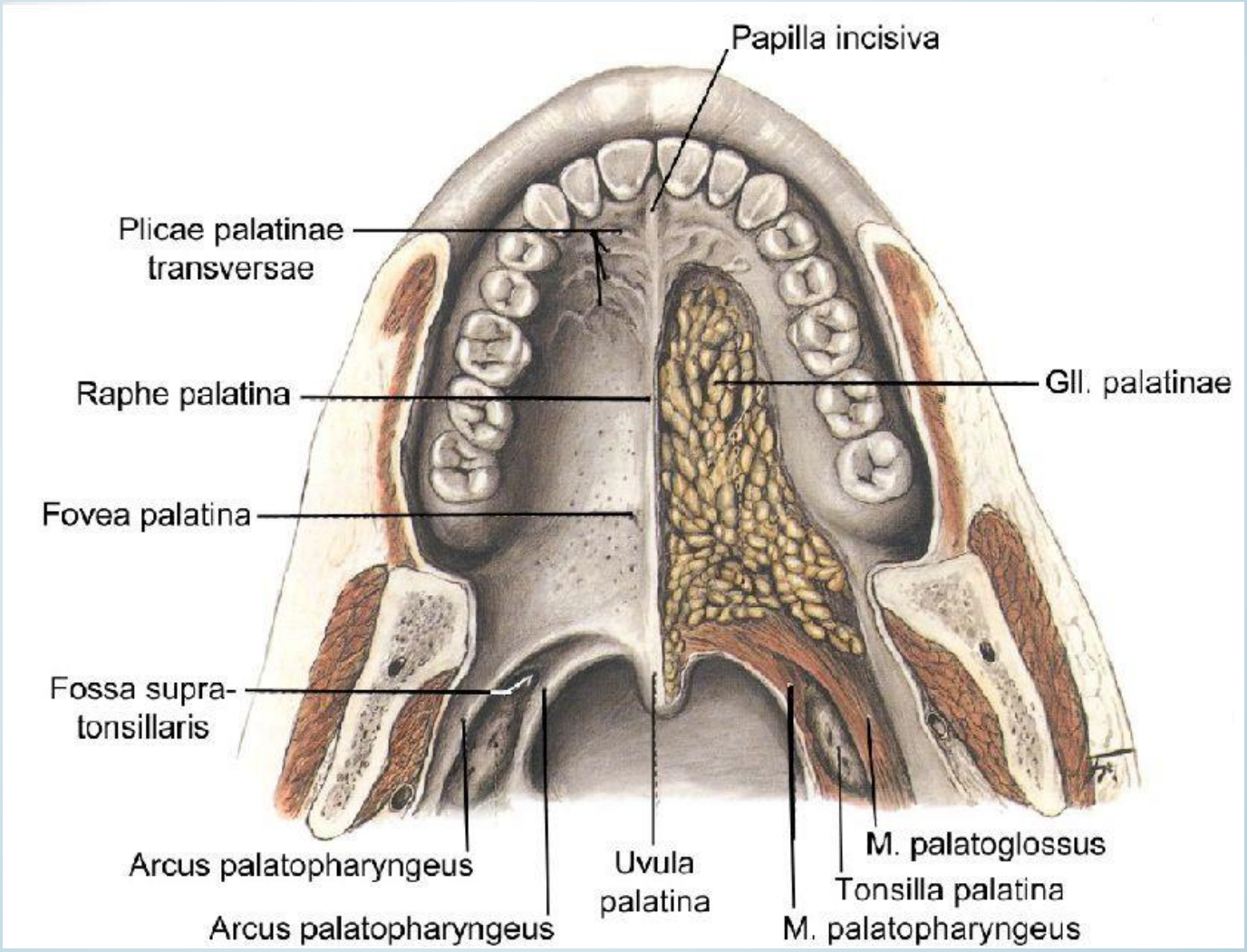




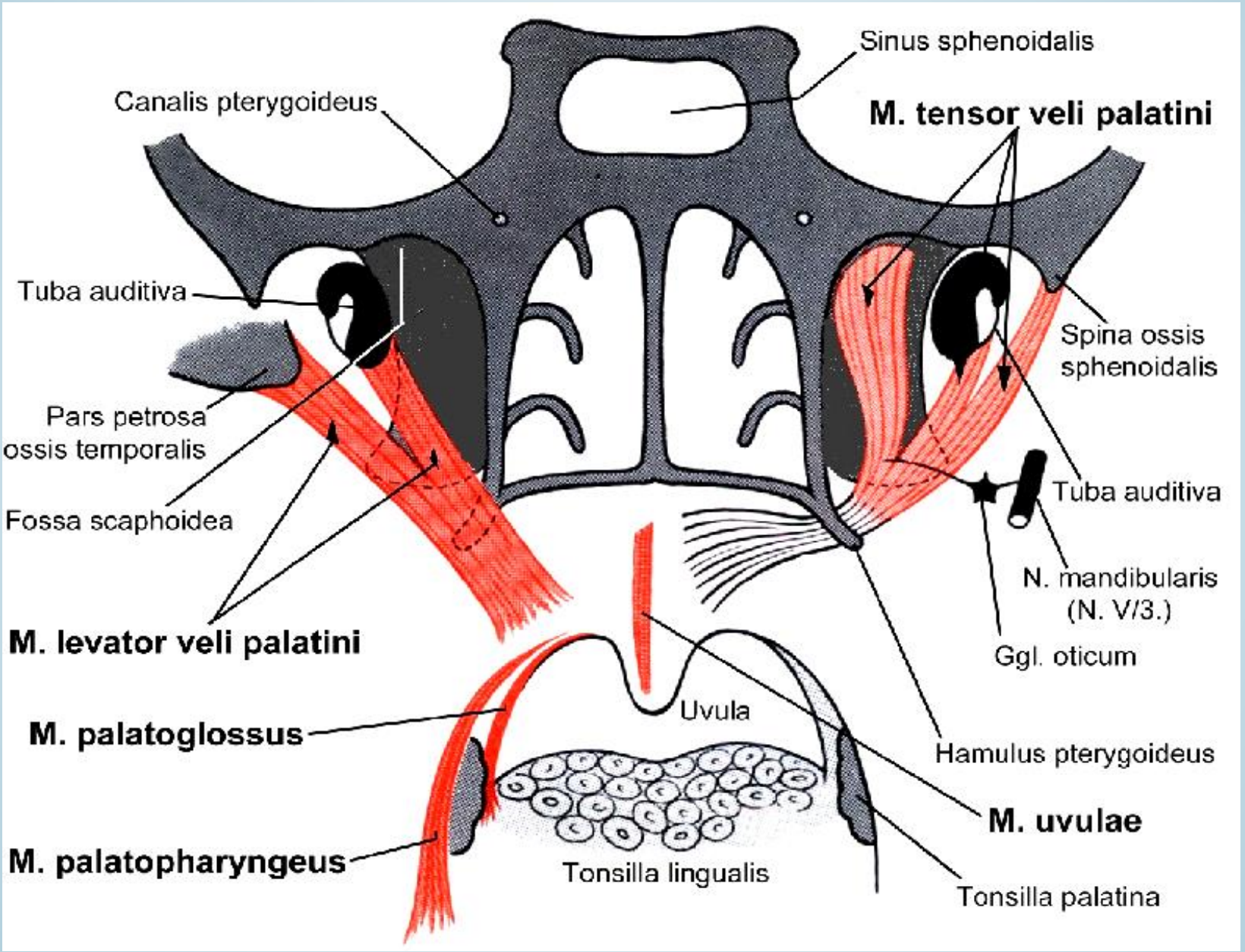
- **Papilla incisiva**
- **Rugae palatinae**
- **Raphe palatinae**
- **Torus palatinus**

kemény- és lágy szájpad

- Mucosa
- Mirigyek
- Csont/Izom



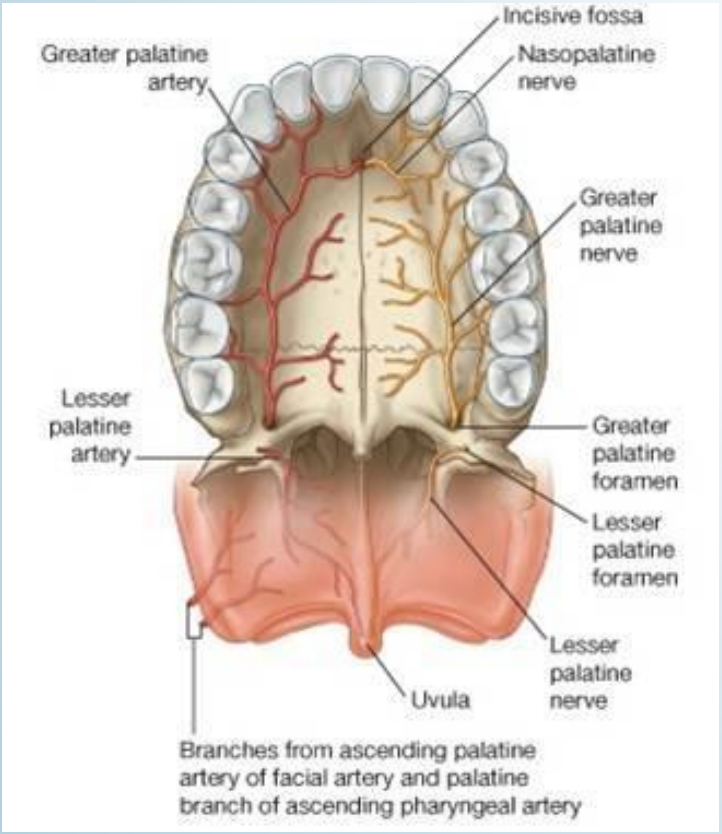
Lágy szájpad (Palatum molle)

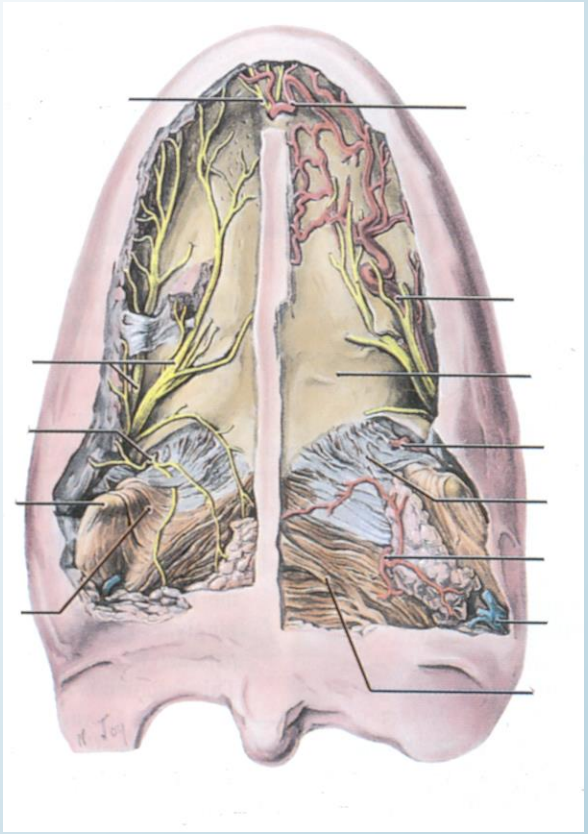


A kemény- és lágy szájpad vérellátása és beidegzése

- N. palatinus major és minor
  (N. maxillaris)
- N. nasopalatinus

A. palatina major és minor



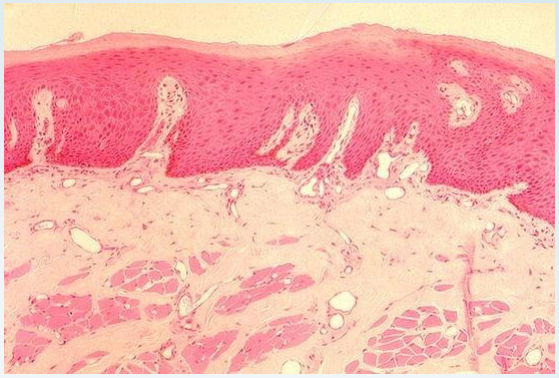


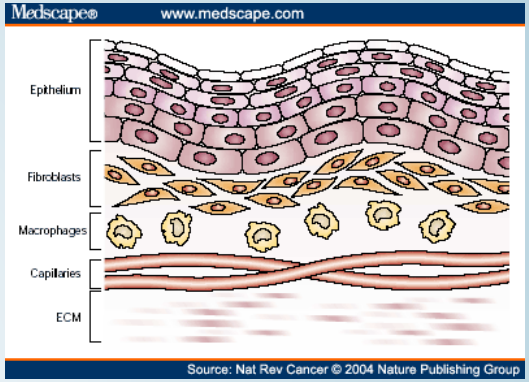
SZÁJNYÁLKAHÁRTYA

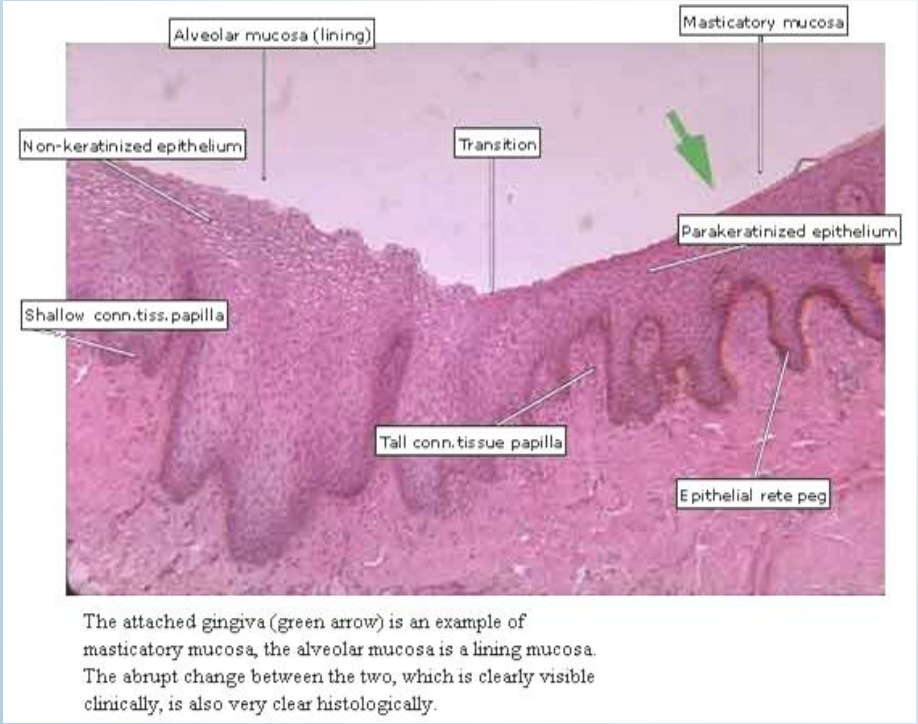
KÉT FŐ TÍPUS

- **BÉLELŐ MUCOSA**
(NINCS KERATINIZÁCIÓ!)

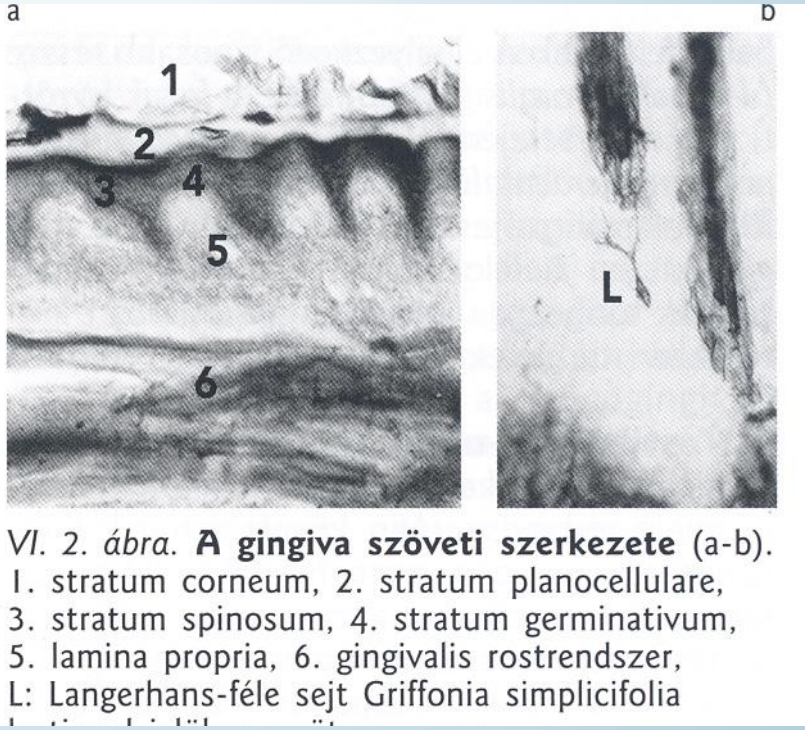
- **„RÁGÓ” MUCOSA**
(VÉKONY KERATINIZÁCIÓ)







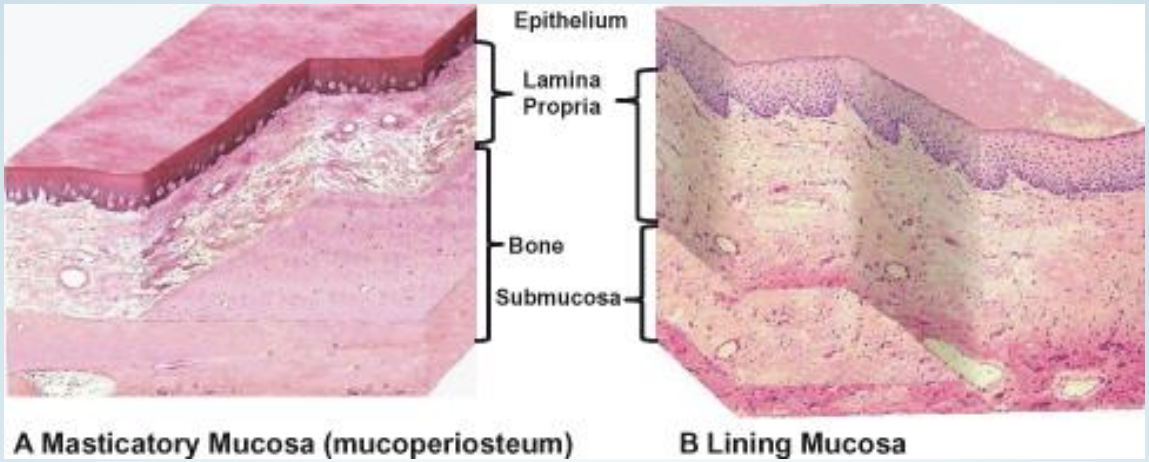
The attached gingiva (green arrow) is an example of masticatory mucosa, the alveolar mucosa is a lining mucosa. The abrupt change between the two, which is clearly visible clinically, is also very clear histologically.

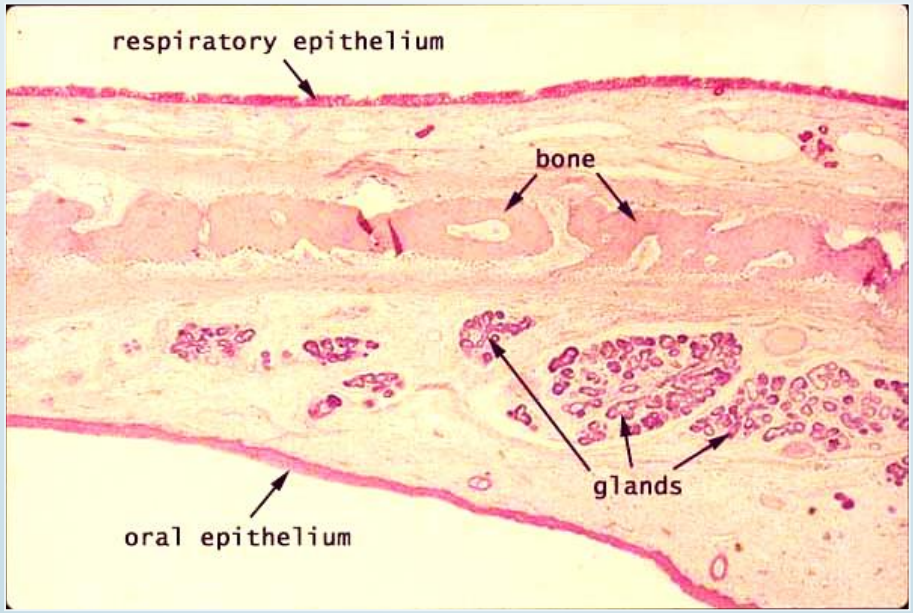


VI. 2. ábra. **A gingiva szöveti szerkezete** (a-b).
1. stratum corneum, 2. stratum planocellulare,
3. stratum spinosum, 4. stratum germinativum,
5. lamina propria, 6. gingivalis rostrendszer,
L: Langerhans-féle sejt Griffonia simplicifolia

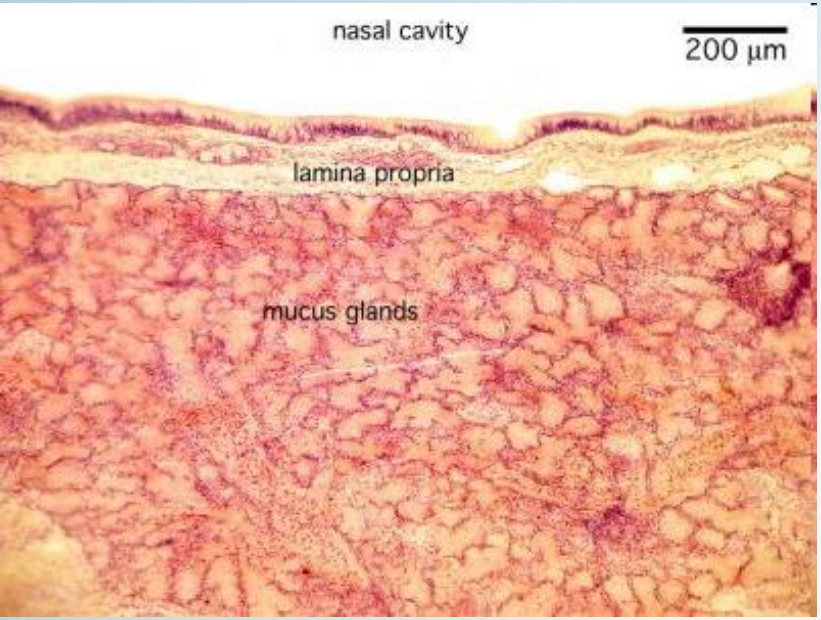
A kemény szájpad szövettana

Mucoperiosteum





A lágy szájpad szövettana



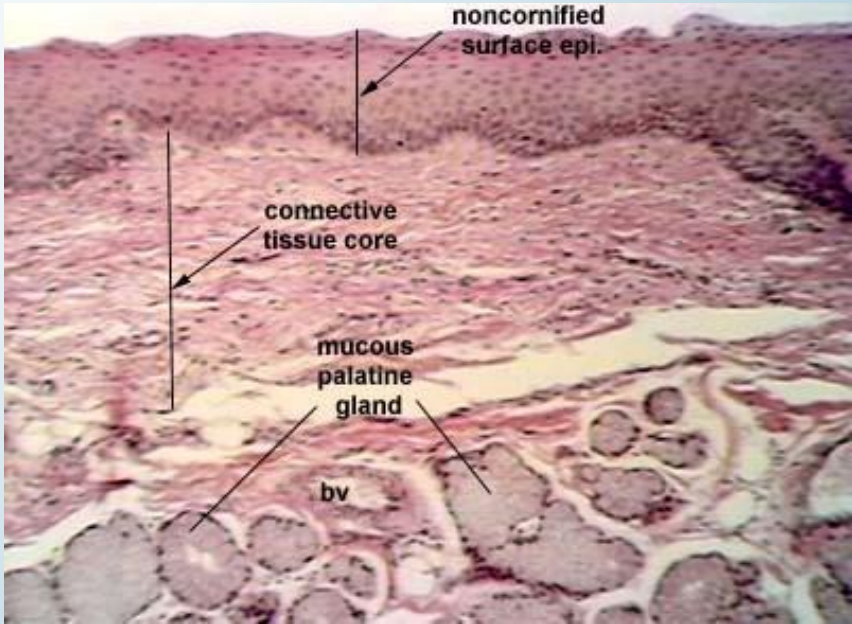
Nasalis felszín

- Többmagsoros csillószőrös hengerhám
- Lamina propria
- Submucosa
- Nyálmirigyek
- HCS izom

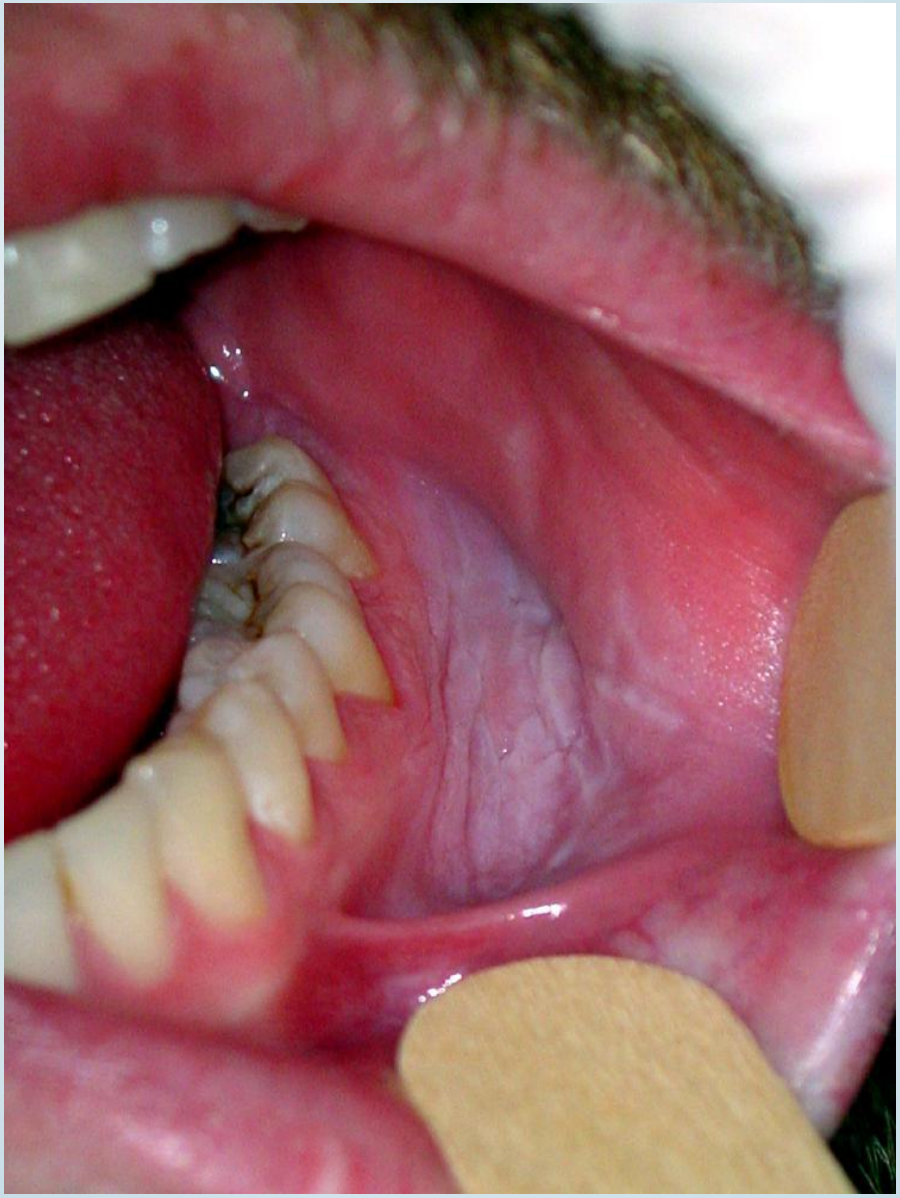
Oralis felszín

- Többrétegű ENSZ laphám

váza: aponeurosis palatina

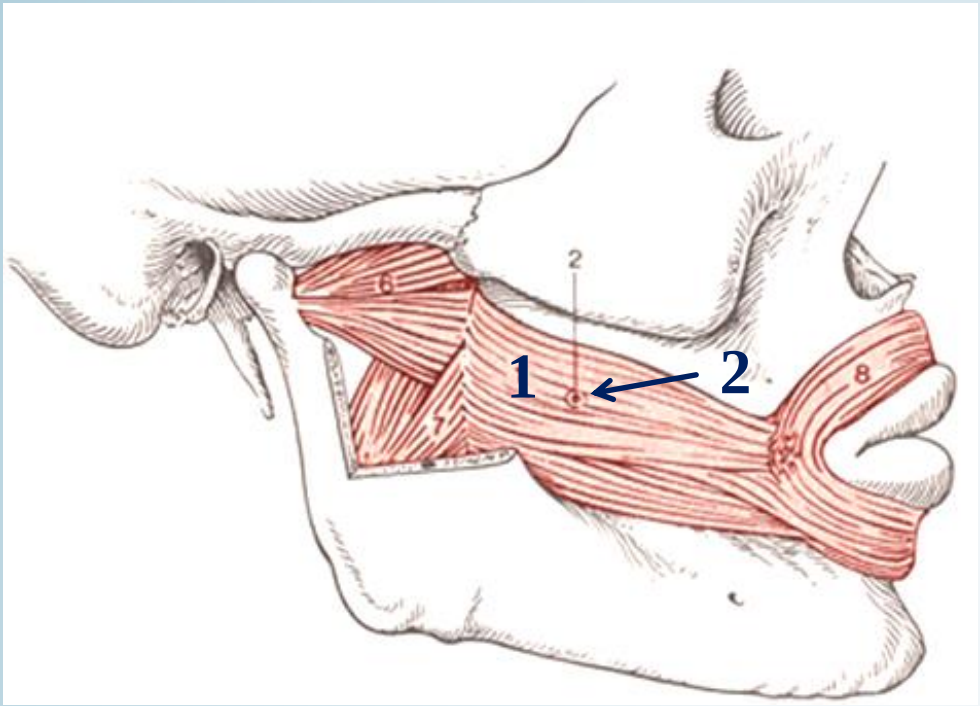


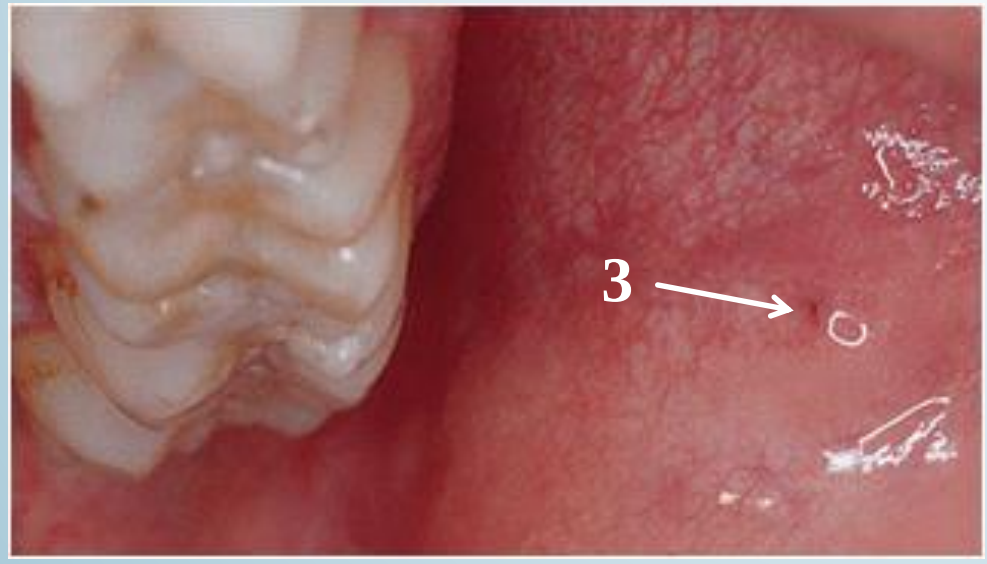
LEUKOPLAKIA
(PRECANCEROSUS ÁLLAPOT!!!)



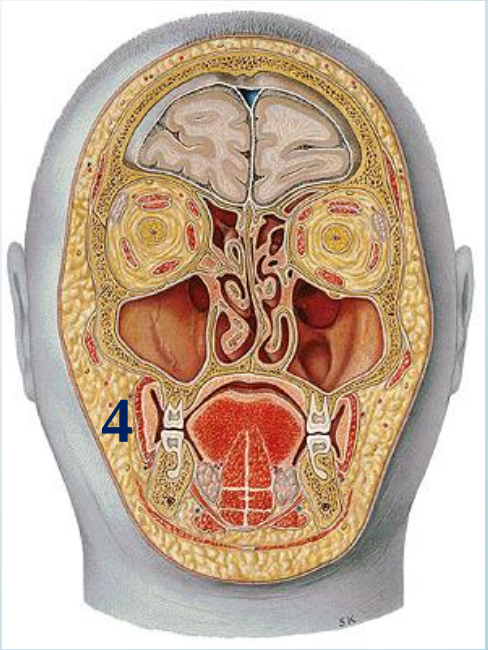
ALLERGIA

ORCA (BUCCA)



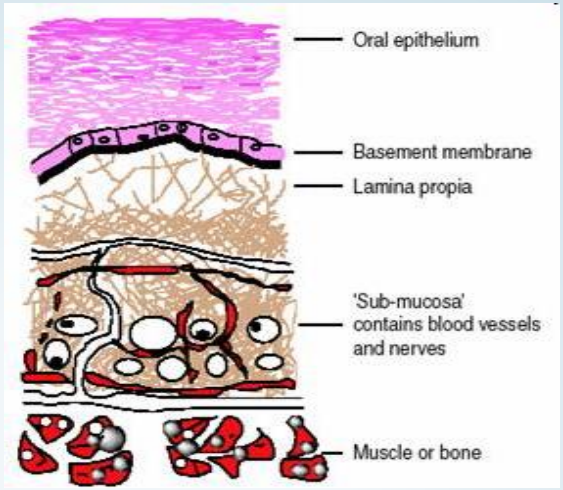


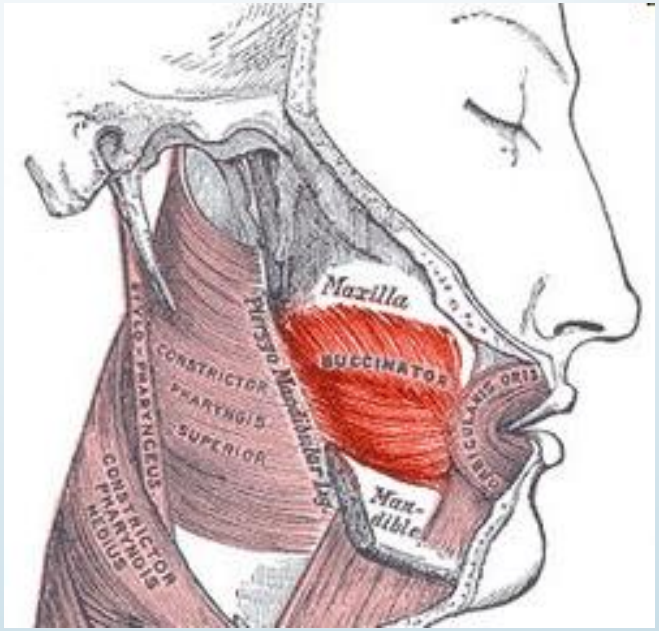
Alapja: m. buccinator (1) (zygomaticus, risorius, platysma is)
Corpus adiposum buccae (4, Bichat)
Kívül: bőr
Belül: mucosa, gll. buccales
2. felső molaris magasságában: ductus parotideus (2) beömlése, papilla parotidea (3)
Vérellátás: a. transversa faciei, a buccalis → V. transversa faciei, v. faciei prof.
Beidegzés: N. buccalis (V/3)



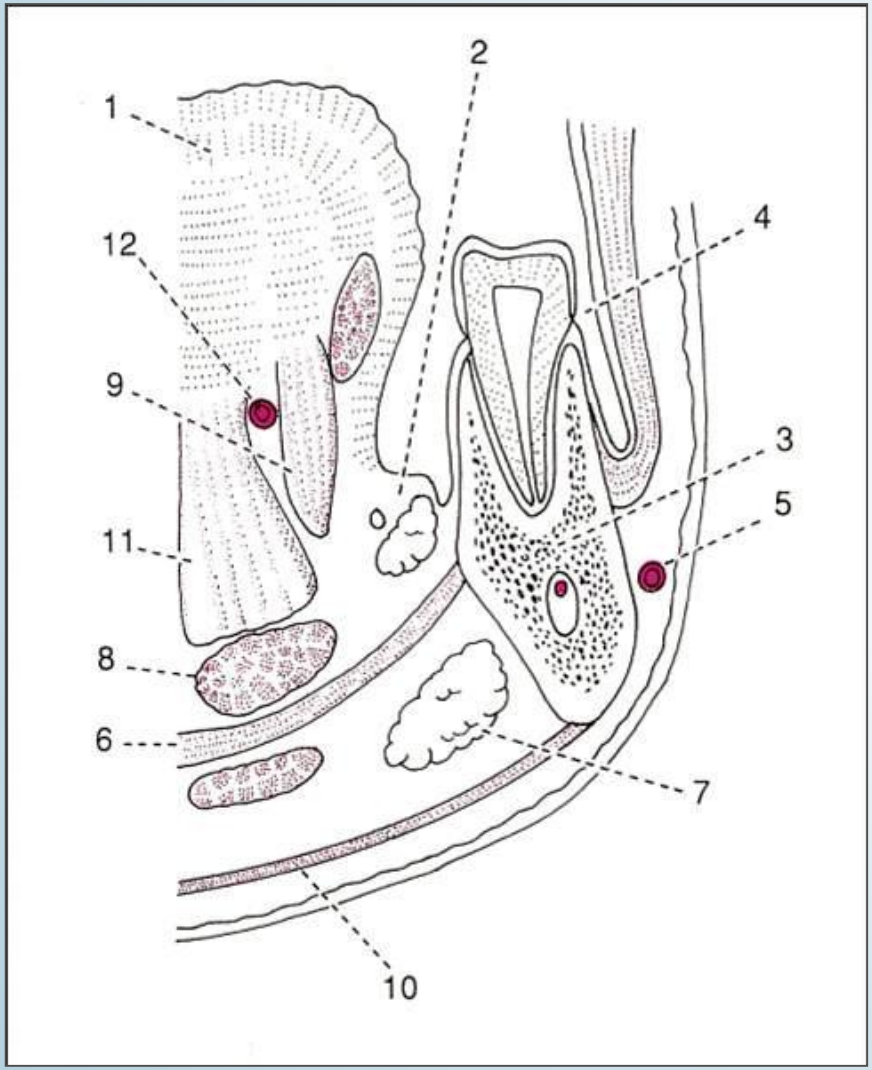
BUCCA RÉTEGEI

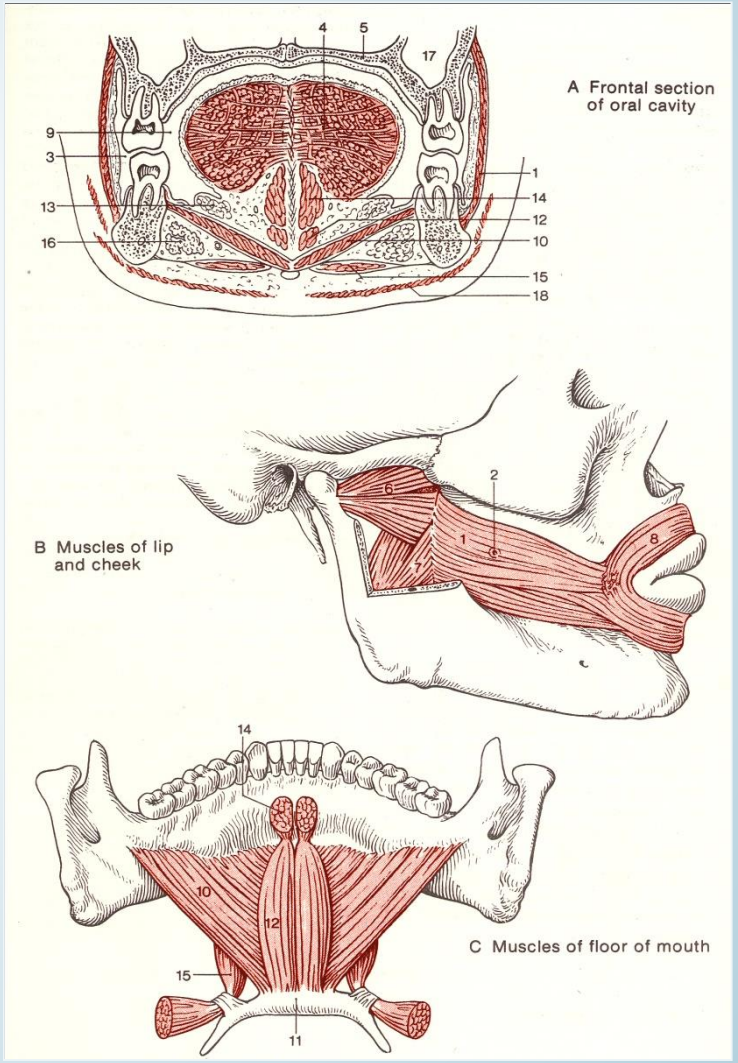
Tunica mucosa
Lamina epithelialis
lamina propria (gll buccales + ductus parotideus)
M. buccinator
corpus adiposum buccae / Bichat
bőr

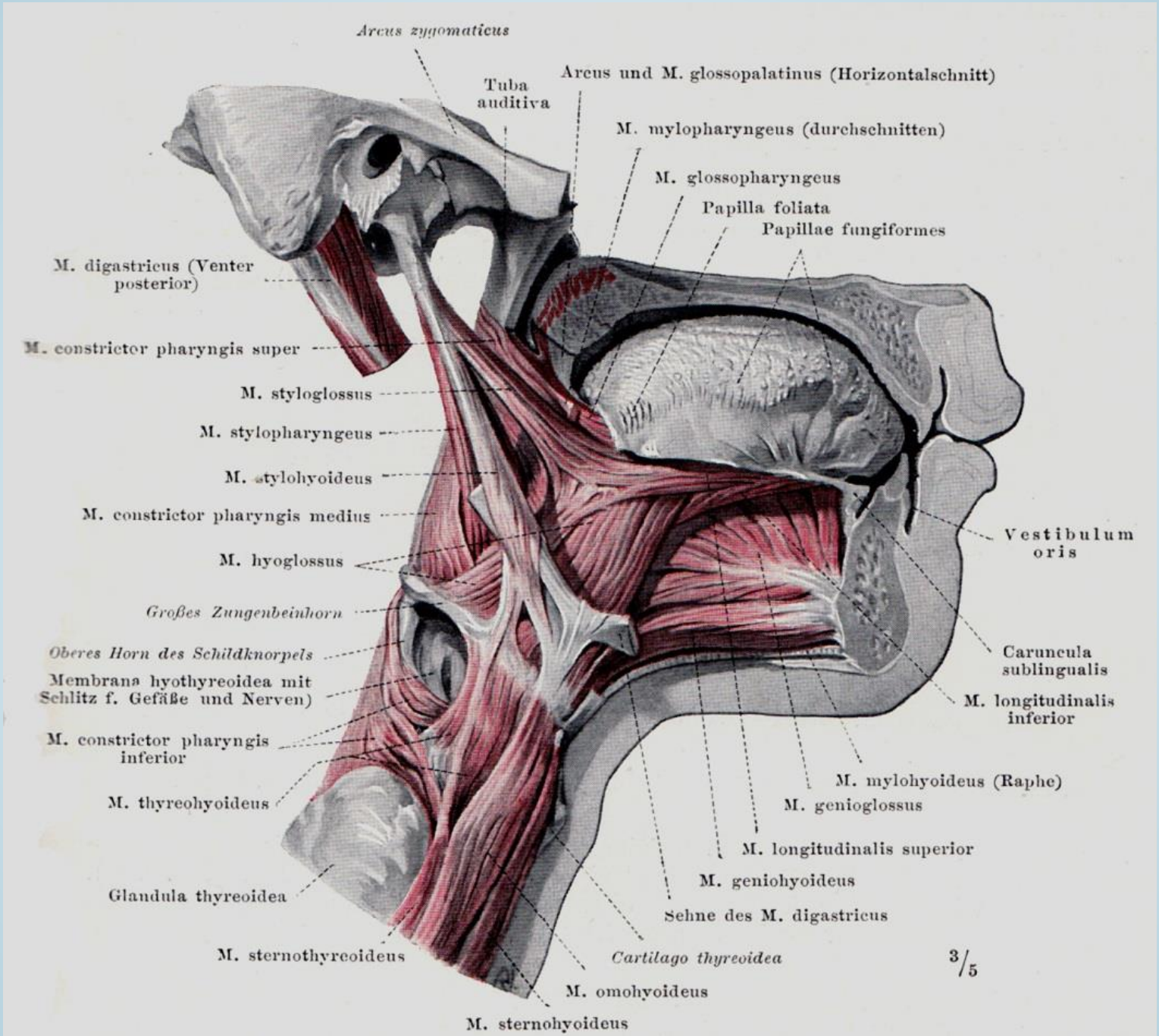


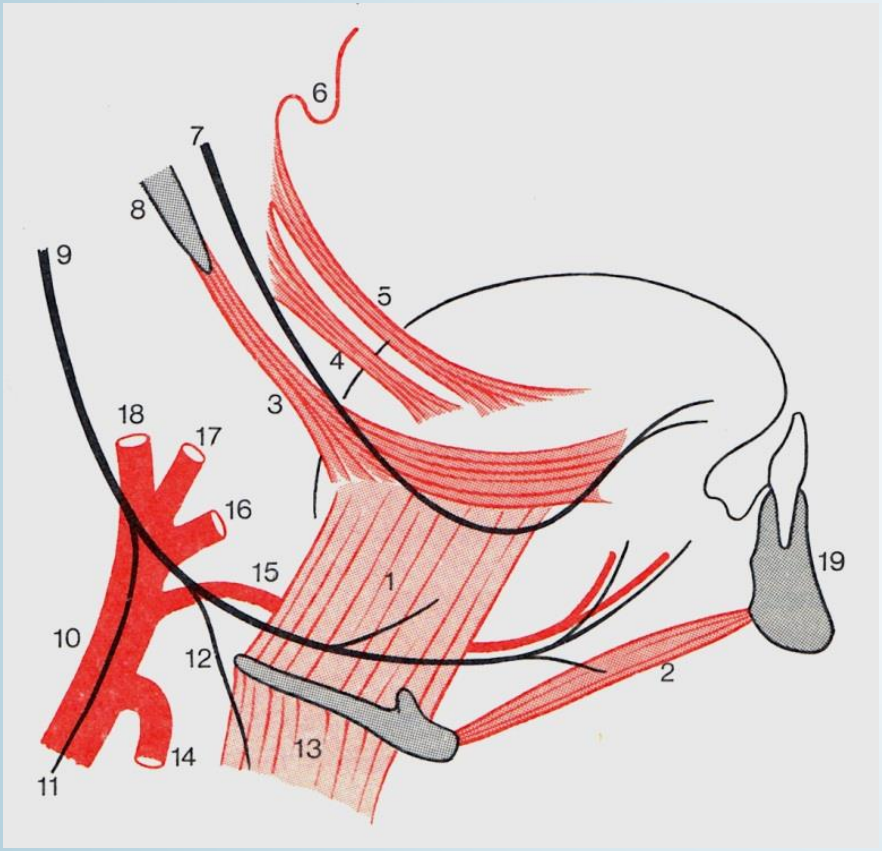


SZÁJFENÉK: DIAPHRAGMA ORIS (M. MYLOHYOIDEUS)






Arcus zygomaticus
Tuba auditiva
Arcus und M. glossopalatinus (Horizontalschnitt)
M. mylopharyngeus (durchschnitten)
M. glossopharyngeus
Papilla foliata
Papillae fungiformes
M. digastricus (Venter posterior)
M. constrictor pharyngis super
M. styloglossus
M. stylopharyngeus
M. stylohyoideus
M. constrictor pharyngis medius
M. hyoglossus
Großes Zungenbeinhorn
Oberes Horn des Schildknorpels
Membrana hyothyreoidea mit Schlitz f. Gefäße und Nerven)
M. constrictor pharyngis inferior
M. thyreohyoideus
Glandula thyreoidea
M. sternothyreoideus
M. sternohyoideus
M. omohyoideus
Cartilago thyreoidea
Sehne des M. digastricus
M. geniohyoideus
M. longitudinalis superior
M. genioglossus
M. mylohyoideus (Raphe)
M. longitudinalis inferior
Caruncula sublingualis
Vestibulum oris
3/5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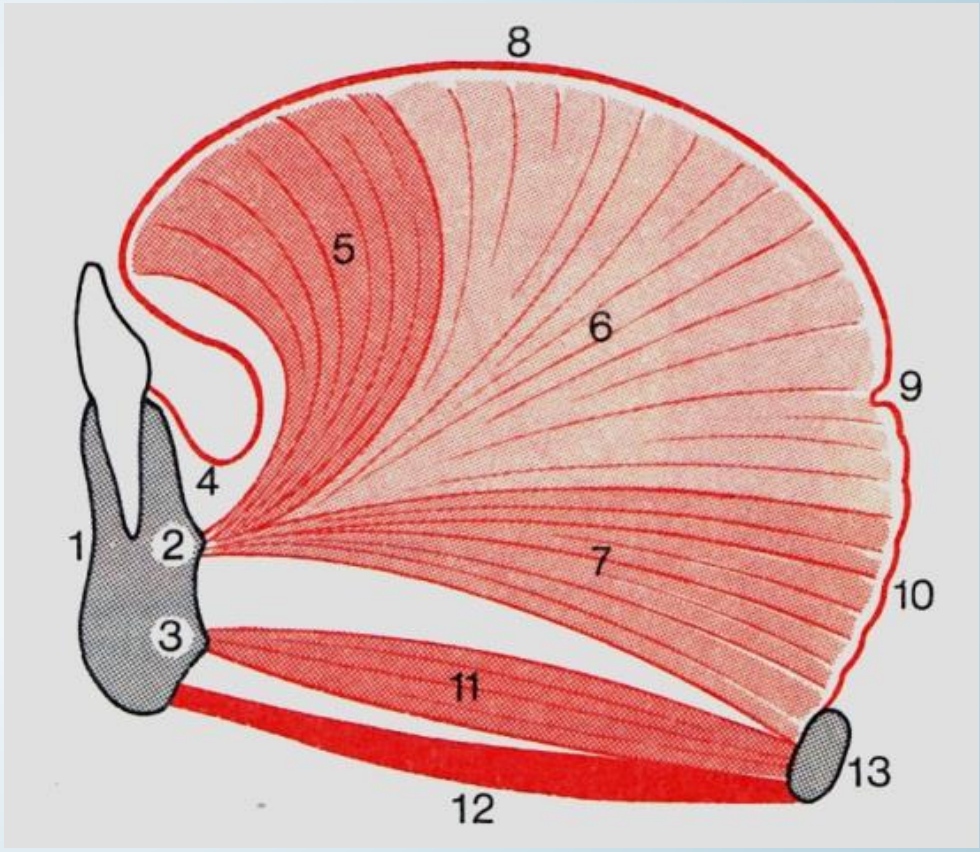
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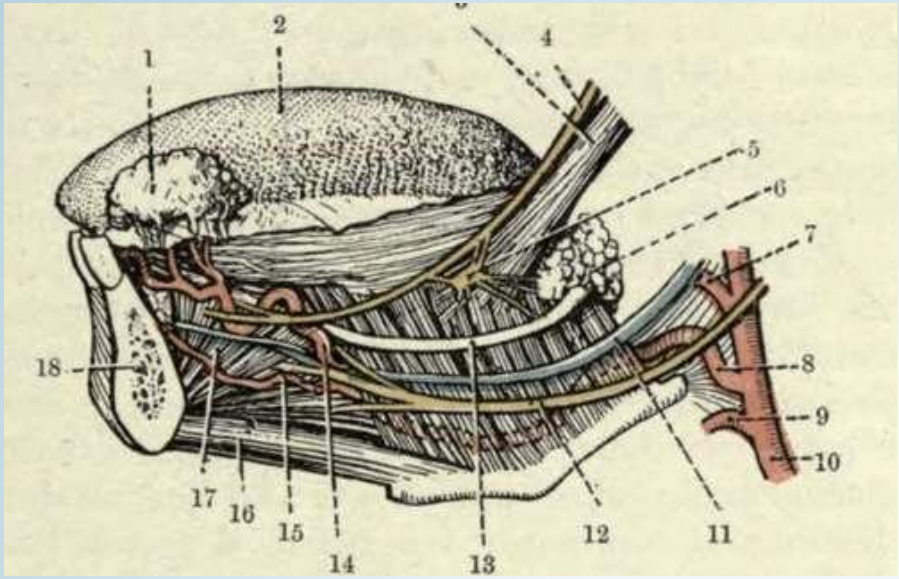
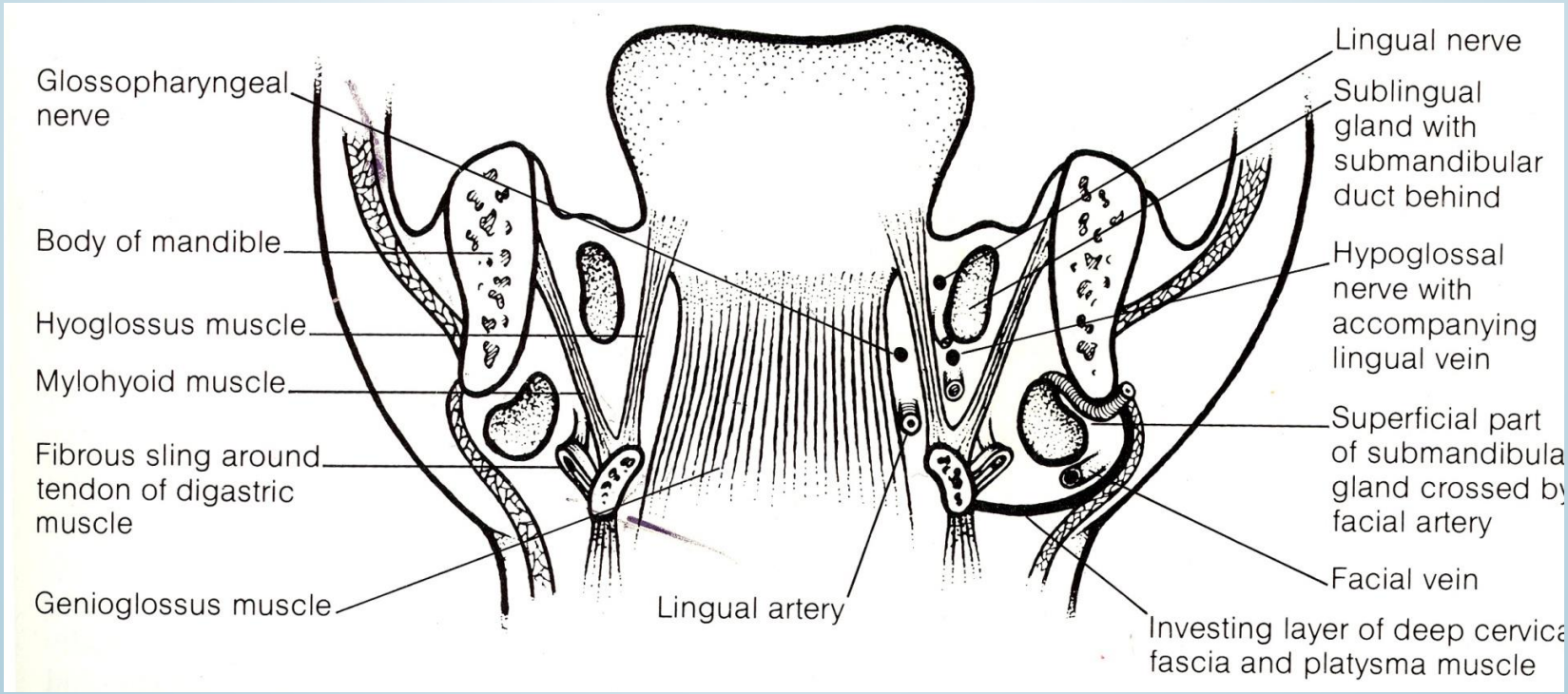
Sulcus lateralis linguae



Benne haladó képletek:

- N. lingualis
- Ductus submandibularis
- N. hypoglossus
- (V. sublingualis)



Sulcus medialis linguae

Határai:

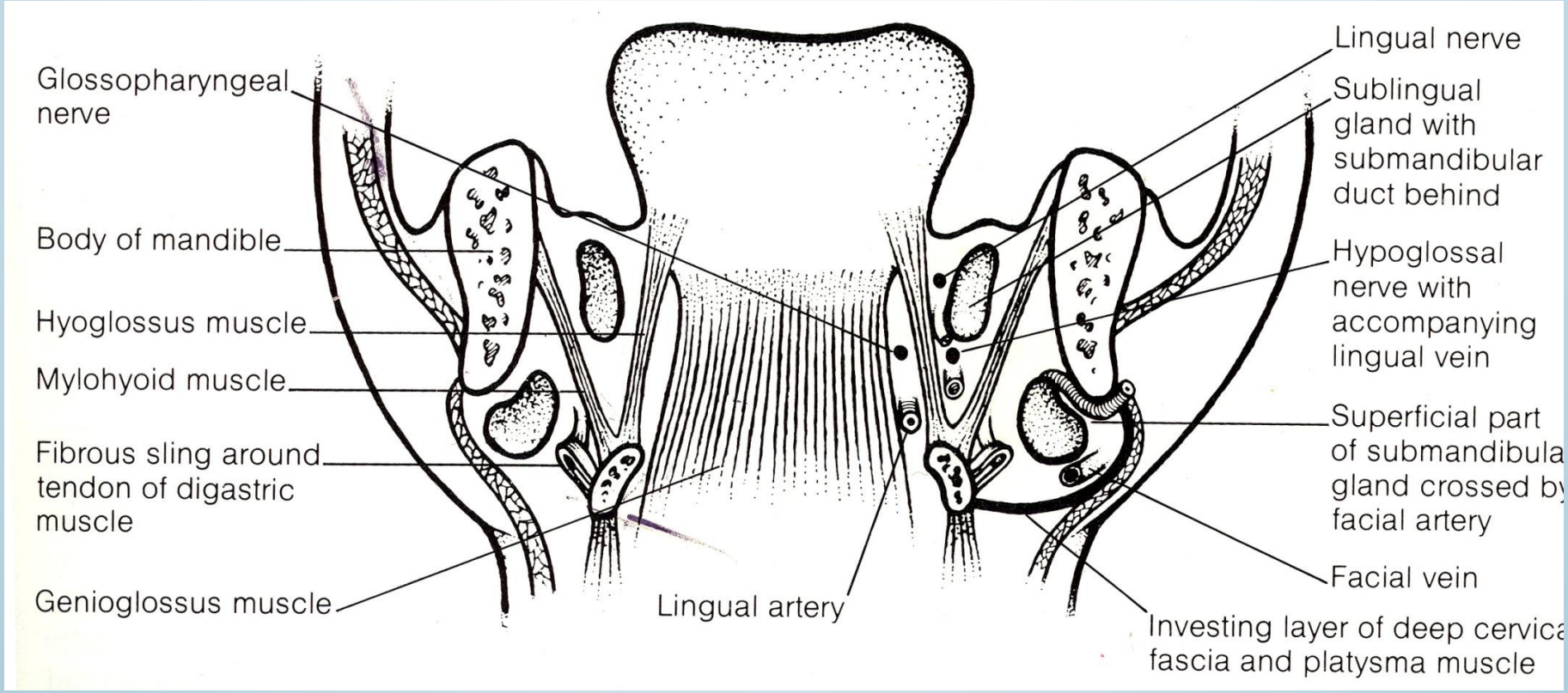
medial: M. genioglossus és M. geniohyoideus

lateral: M. hyoglossus

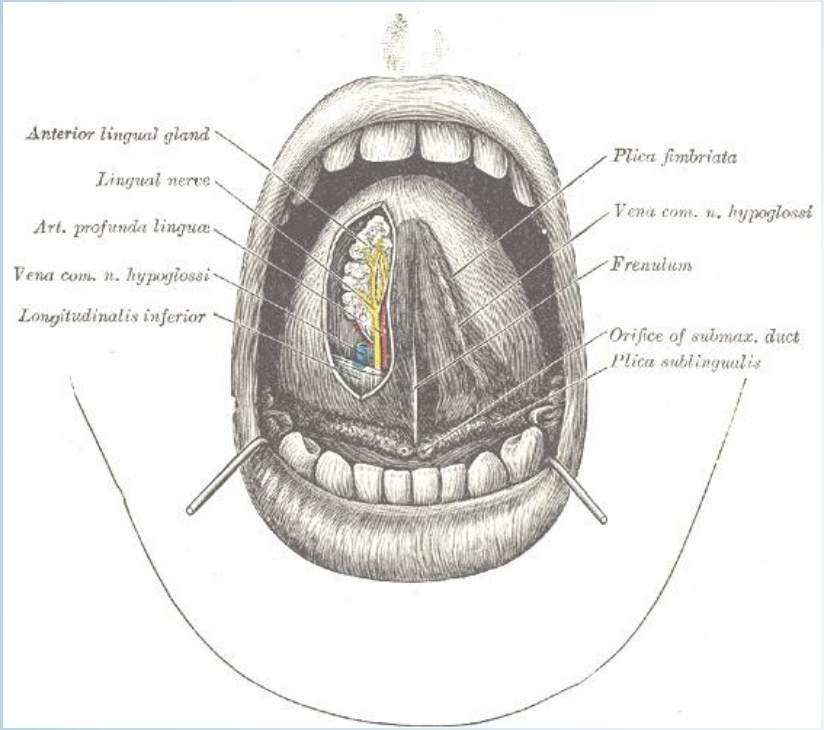
Benne haladó képletek:

A. lingualis

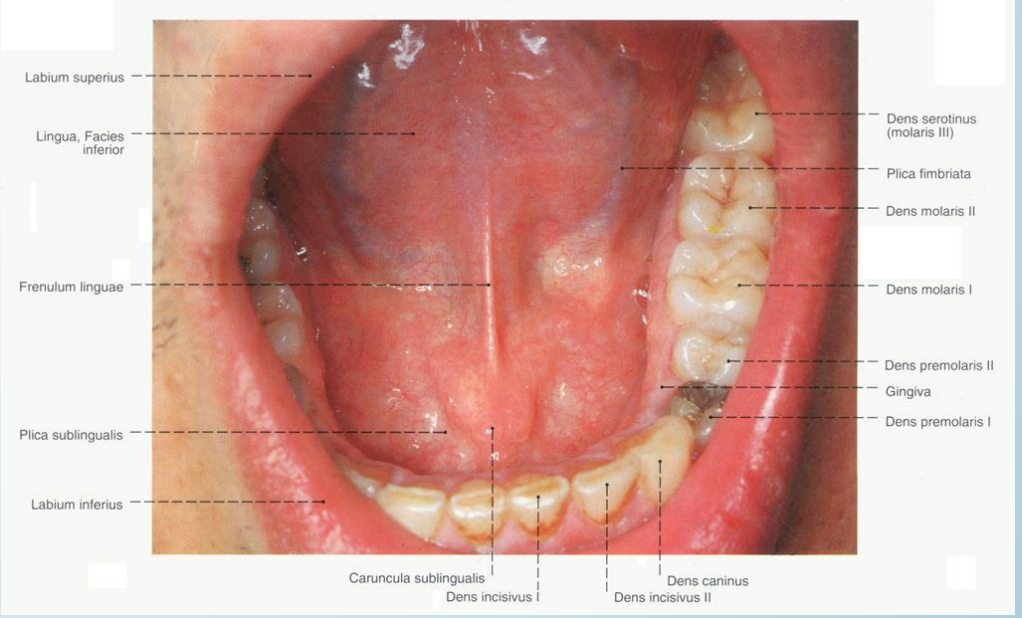
(N. glossopharyngeus)



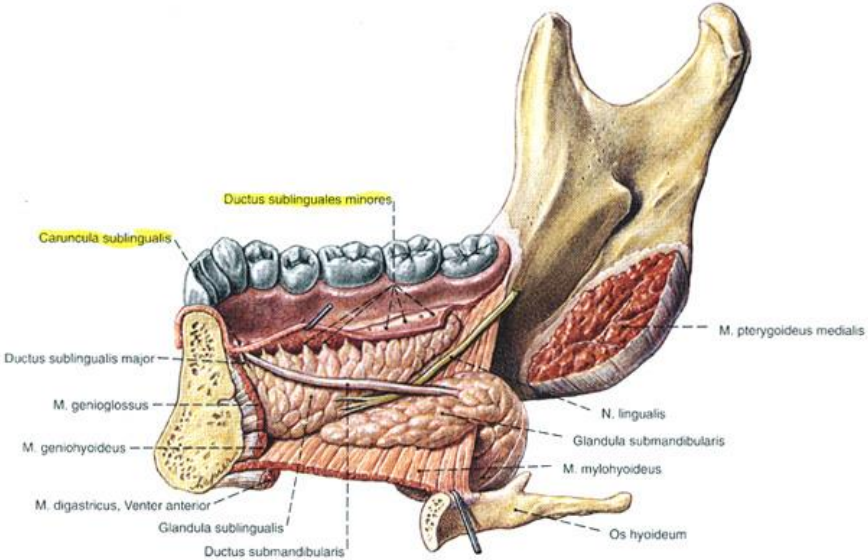
Regio sublingualis



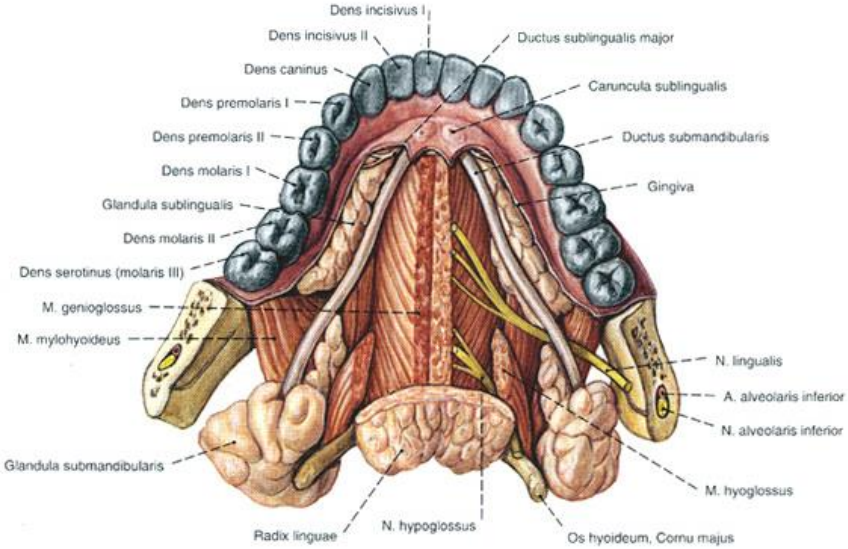
- frenulum linguae
- v. profunda linguae
- plica sublingual
- caruncula sublingualis (papilla)



Regio sublingualis



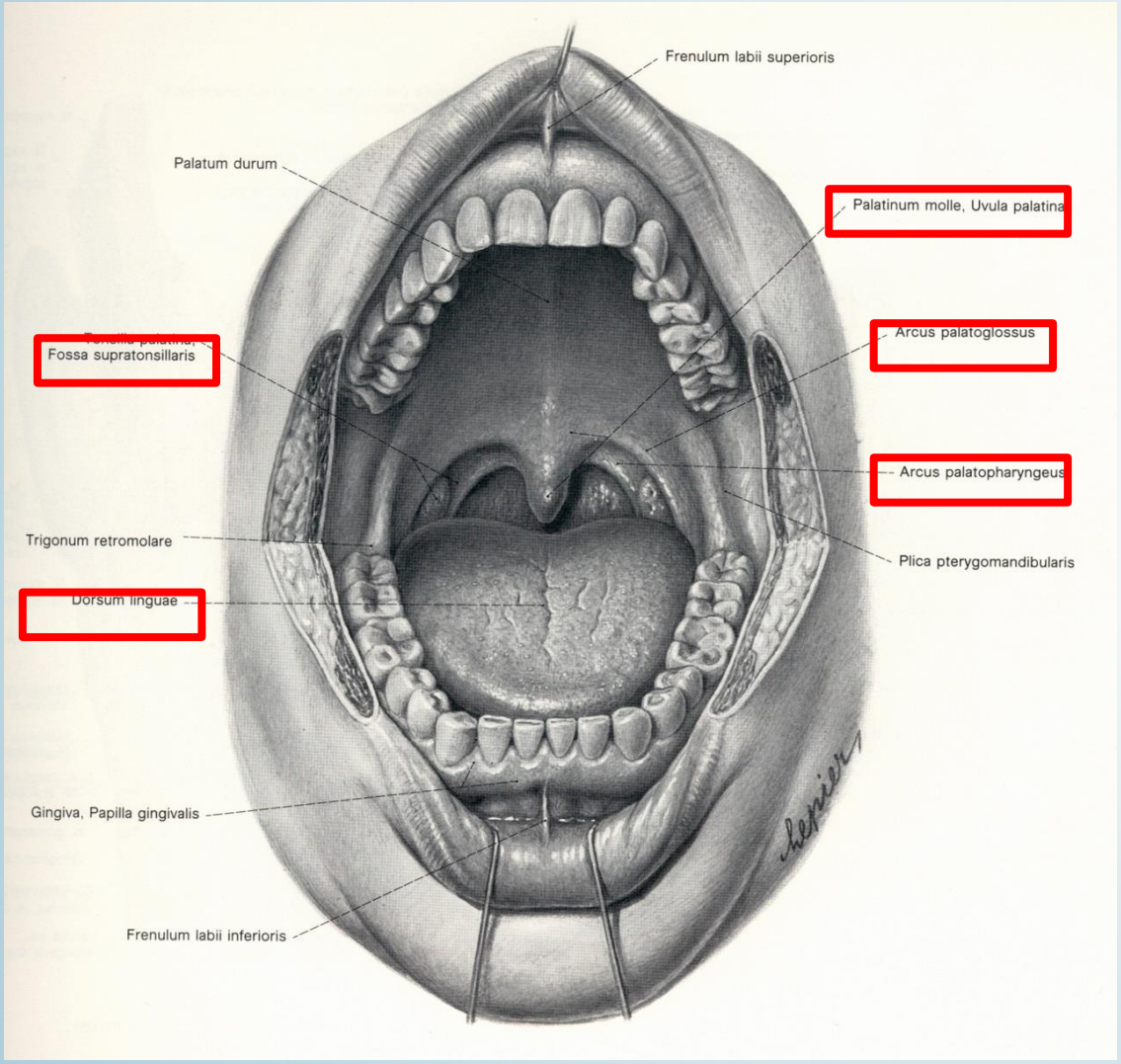
Lásd a n. lingualis és a ductus submandibularis szoros topográfiai viszonyát.



A n. lingualis és ductus submandibularis szoros topográfiai kapcsolata szembetűnő.

ISTHMUS FAUCIUM (TOROKSZOROS)

Átmenet a szájüreg és a garat között



Határai:

Pars follicularis linguae

Szájpadívek:

- Arcus palatoglossus
- Arcus palatopharyngeus

} Fossa tonsillaris

Ínyvitorla: Palatum velum és az Uvula

Klinikum: Tonsillitis follicularis

Tonsila palatina vérellátása:

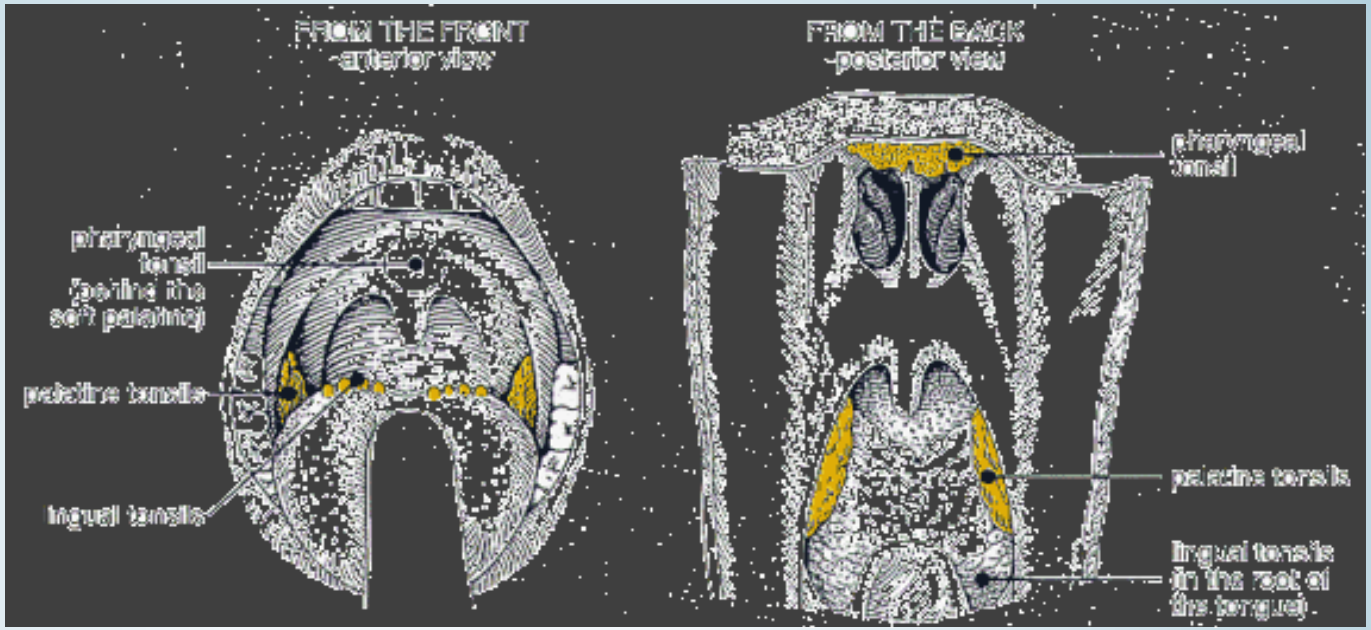
1. - A. palatina desc. (A. maxillary)
2. - A. palatina asc. (A. facialis)
3. - A. pharingea asc. (A. carotis externa)
4. - A. lingualis (A. Carotis externa)

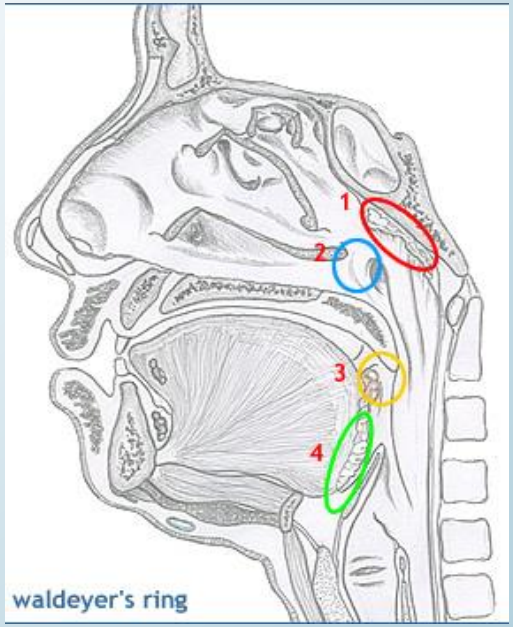
Nn. lymph. submandibulares

Waldeyer féle lymphaticus garatgyűrű

Mandulák

- pharyngea
- tubaria
- palatina
- lingualis





A SZÁJÜREG TARTALMA

Nyelv

Nyálkahártya

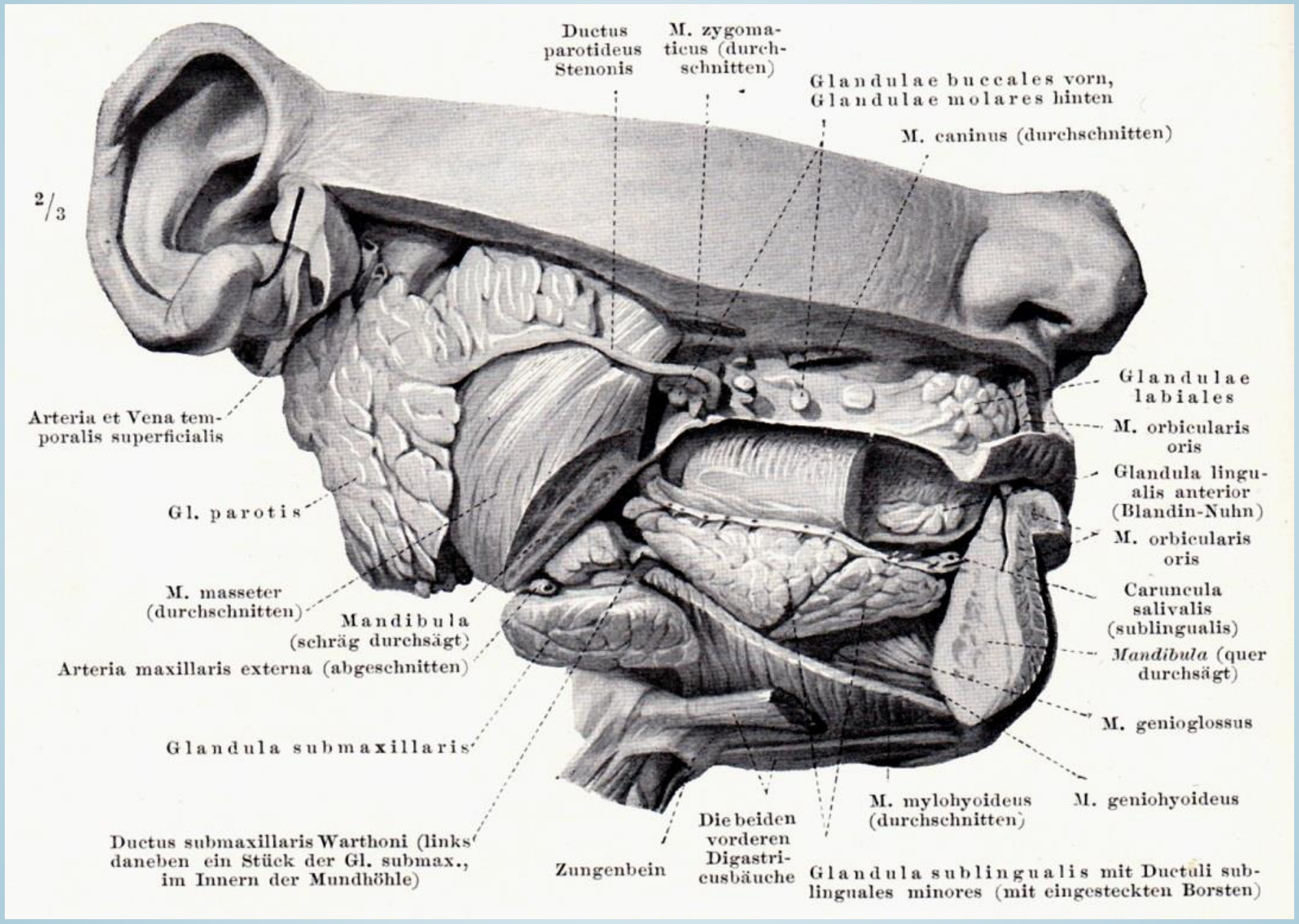
Fogak

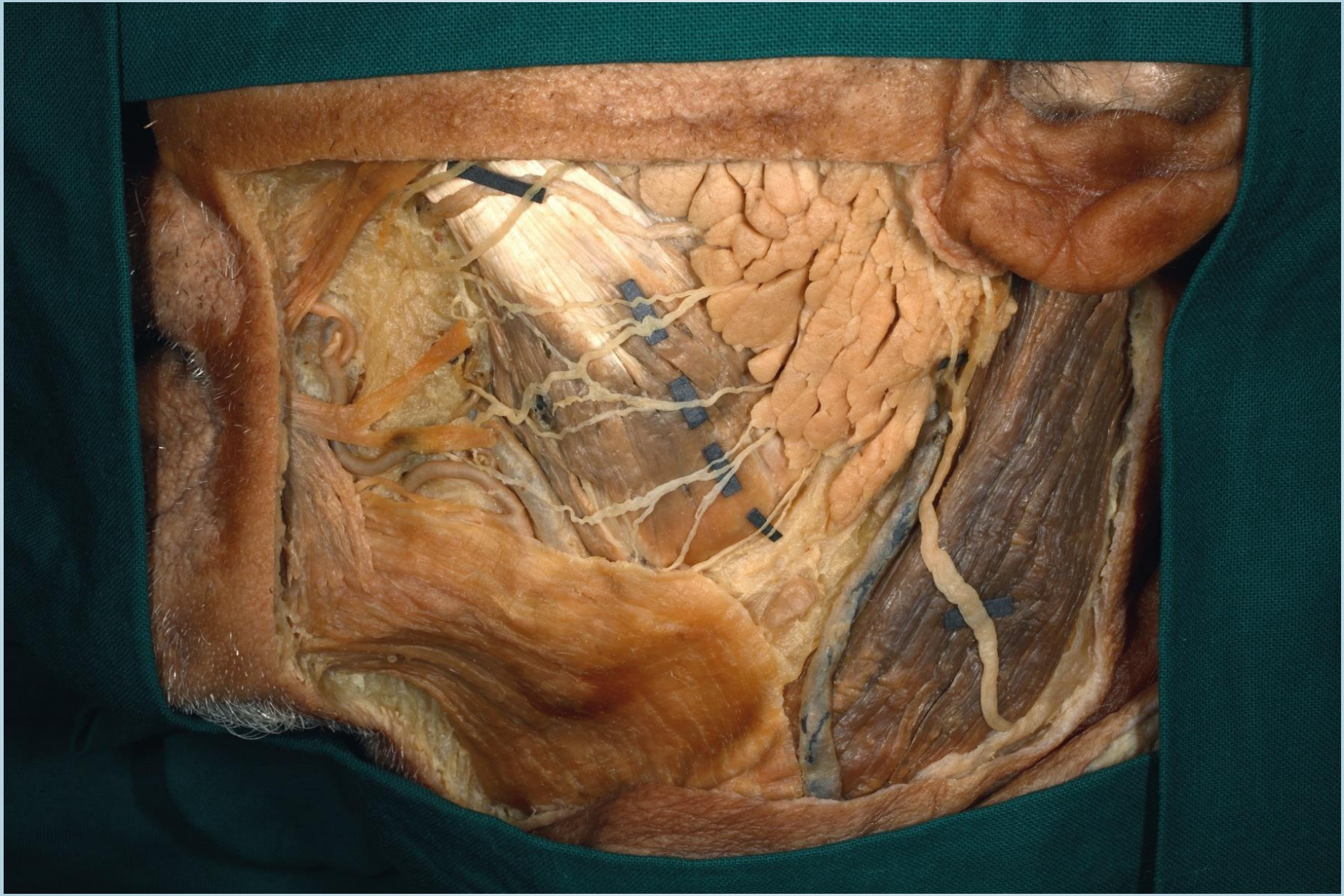
Mitől nyálkahártya a nyálkahártya?

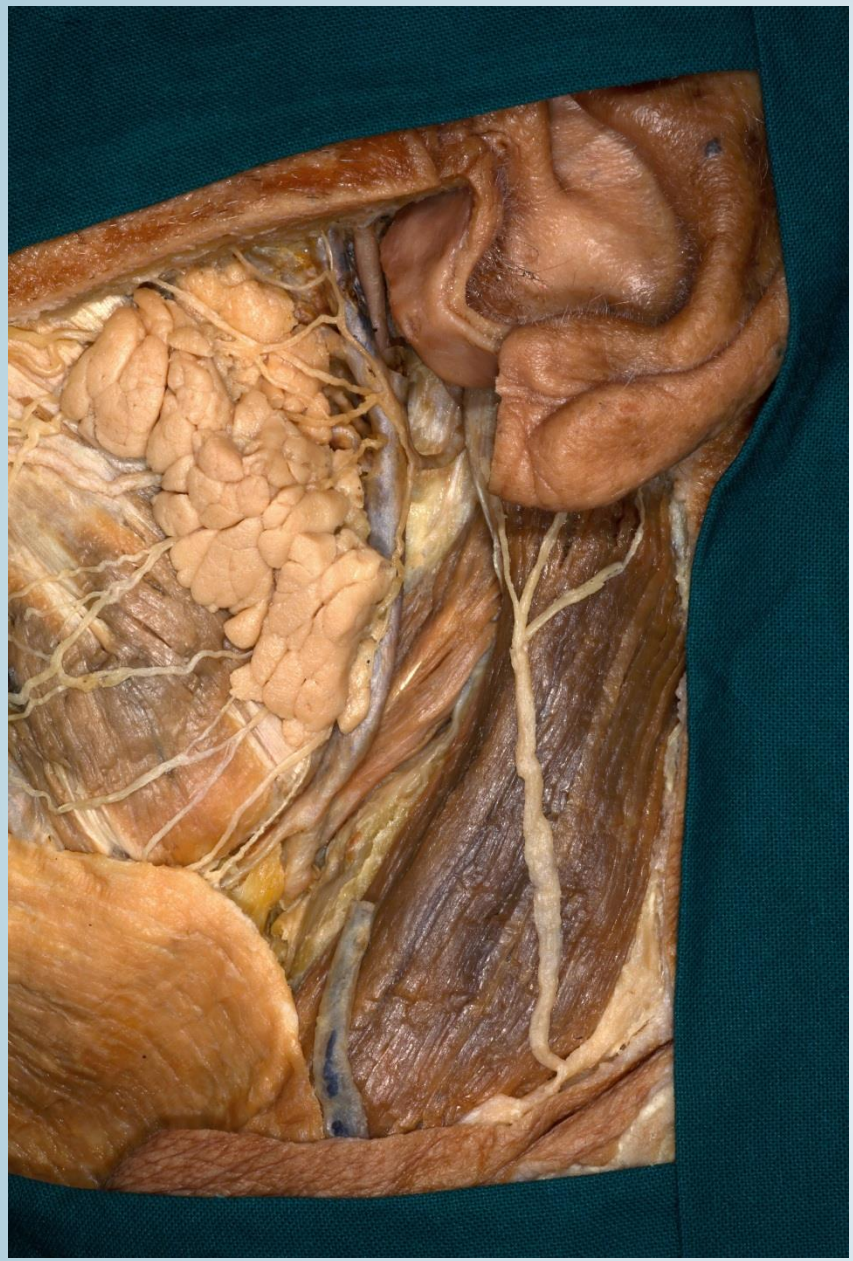
Nyál(ka)mirigyek

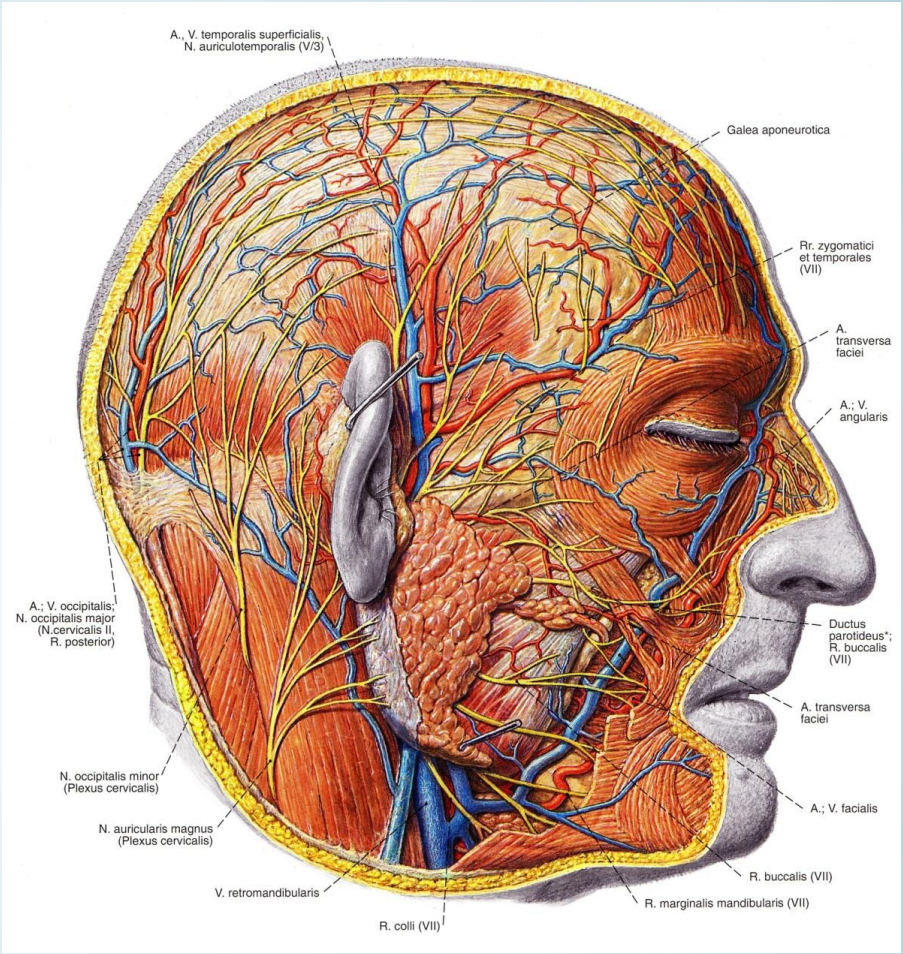
KICSI kevert mirigyek
(nyálkahártya alatt)

NAGY, PÁROS mirigyek
A szájüregen kívül helyezkednek el
Parotis,
Gl. submandibularis,
Gl. sublingualis

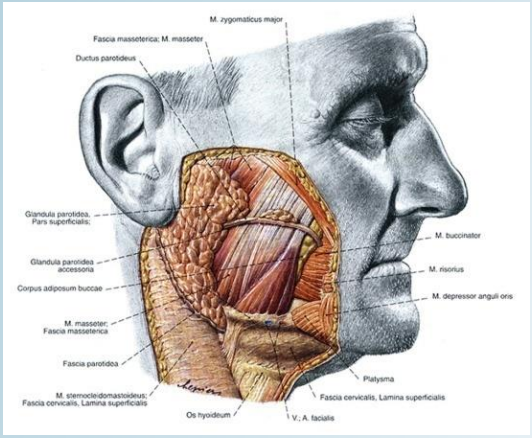

2/3
Ductus parotideus Stenonis
M. zygomaticus (durchschnitten)
Glandulae buccales vorn, Glandulae molares hinten
M. caninus (durchschnitten)
Arteria et Vena temporalis superficialis
Gl. parotis
M. masseter (durchschnitten)
Mandibula (schräg durchsägt)
Arteria maxillaris externa (abgeschnitten)
Glandula submaxillaris
Ductus submaxillaris Warthoni (links daneben ein Stück der Gl. submax., im Innern der Mundhöhle)
Zungenbein
Die beiden vorderen Digastricusbäuche
M. mylohyoideus (durchschnitten)
Glandula sublingualis mit Ductuli sublinguales minores (mit eingesteckten Borsten)
M. geniohyoideus
M. genioglossus
Mandibula (quer durchsägt)
Caruncula salivalis (sublingualis)
M. orbicularis oris
Glandula lingualis anterior (Blandin-Nuhn)
M. orbicularis oris
Glandulae labiales

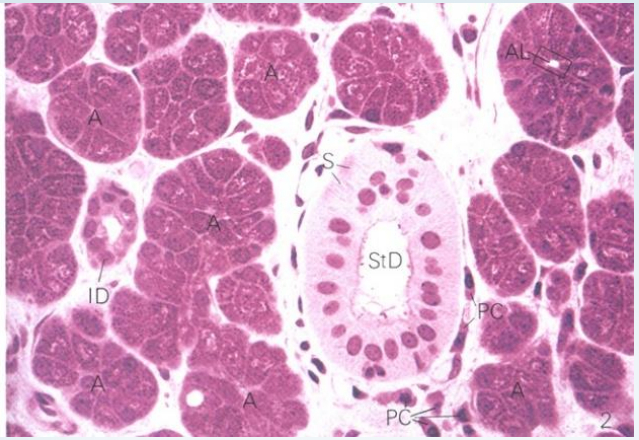


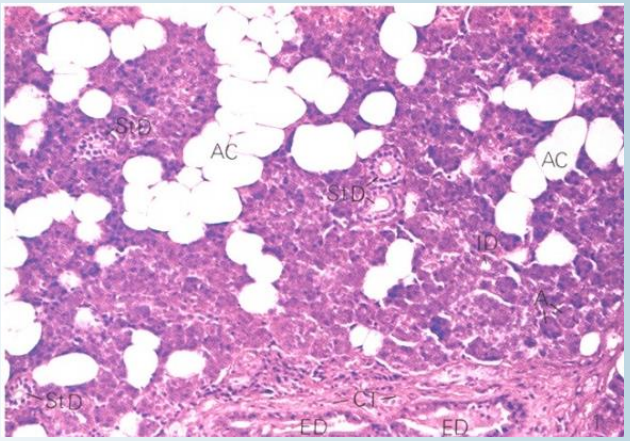



A., V. temporalis superficialis,
N. auriculotemporalis (V/3)
Galea aponeurotica
Rr. zygomatici et temporales (VII)
A. transversa faciei
A.; V. angularis
A.; V. occipitalis;
N. occipitalis major
(N.cervicalis II,
R. posterior)
Ductus parotideus*;
R. buccalis (VII)
A. transversa faciei
N. occipitalis minor
(Plexus cervicalis)
A.; V. facialis
N. auricularis magnus
(Plexus cervicalis)
R. buccalis (VII)
V. retromandibularis
R. marginalis mandibularis (VII)
R. colli (VII)

PAROTIS



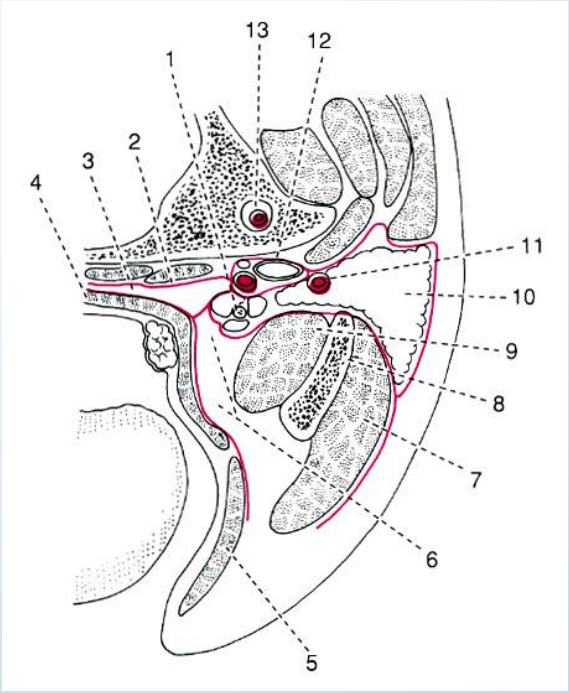


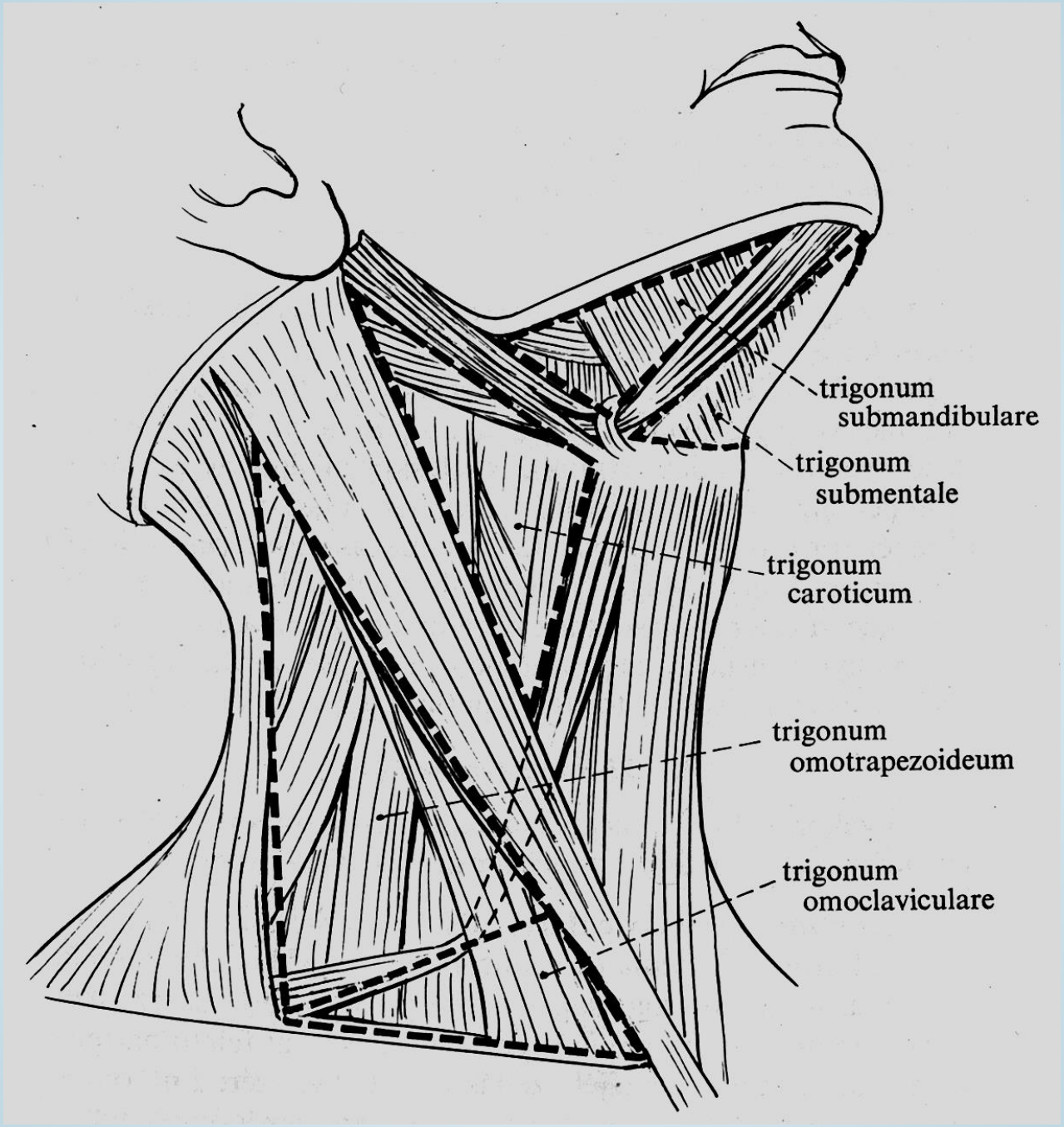


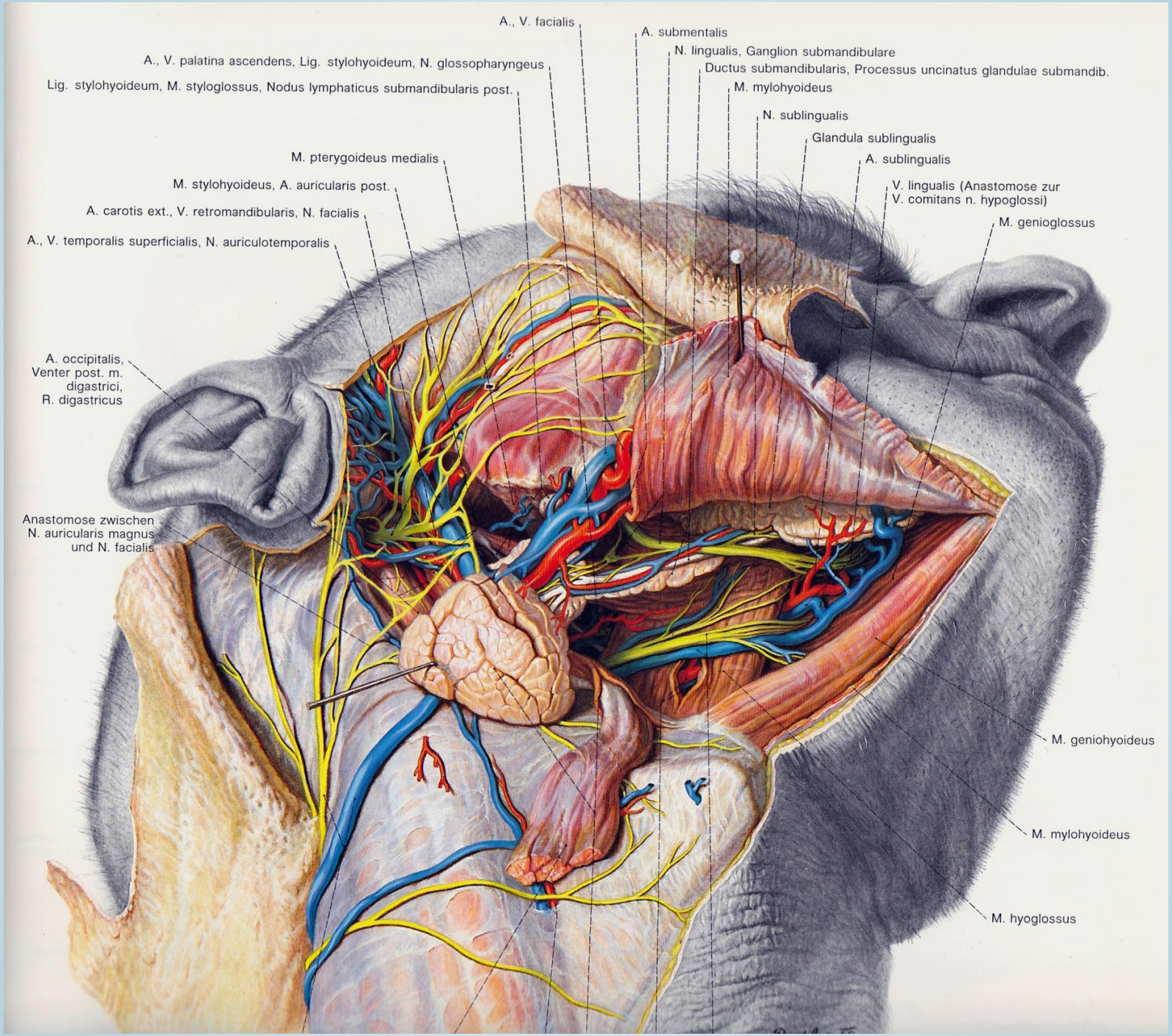
NIDUS PAROTIDEUS
anterior:
- **m. masseter**
- **ramus mandibulae**
- **m. pterygoideus med.**

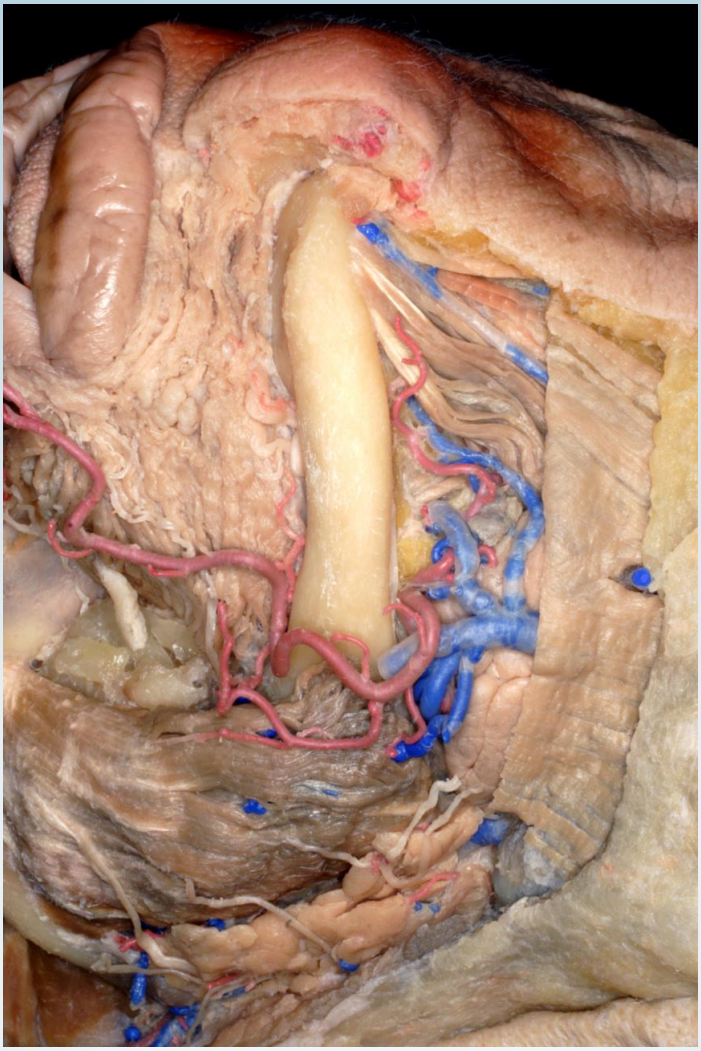
posterior:
- **m. sternocleidomastoideus**
- **m. digastricus**

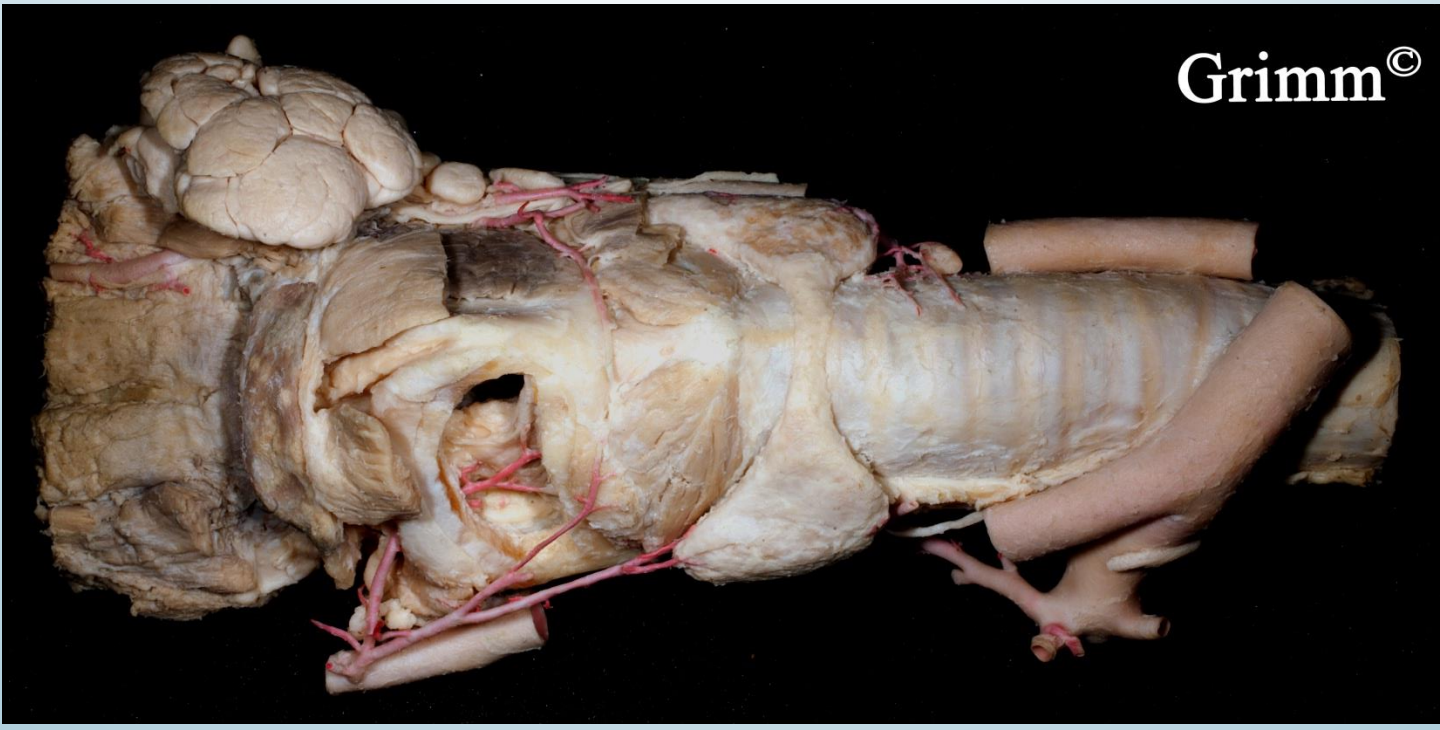
medialis:
- **m. stylohyoideus**
- **m. stylopharyngeus**
- **m. styloglossus**



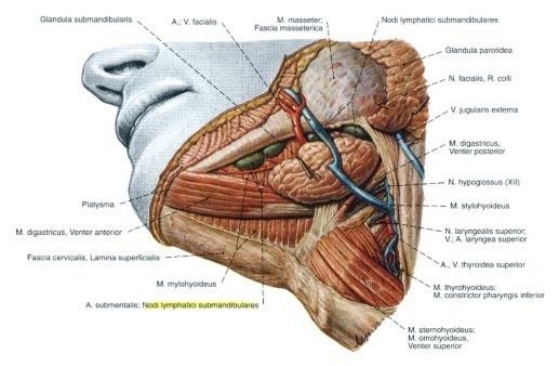

trigonum
submandibulare
trigonum
submentale
trigonum
caroticum
trigonum
omotrapezoideum
trigonum
omoclaviculare

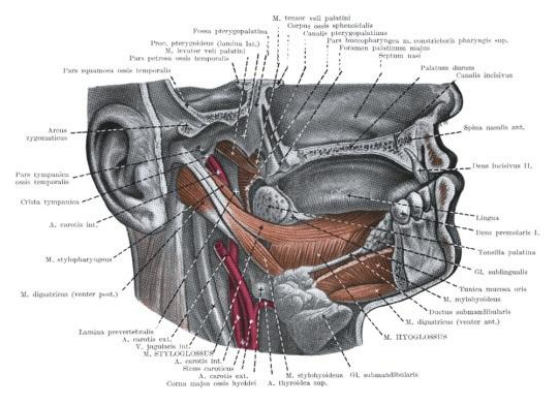

A., V. facialis
A. submentalis
N. lingualis, Ganglion submandibulare
Ductus submandibularis, Processus uncinatus glandulae submandib.
M. mylohyoideus
N. sublingualis
Glandula sublingualis
A. sublingualis
V. lingualis (Anastomose zur V. comitans n. hypoglossi)
M. genioglossus
A., V. palatina ascendens, Lig. stylohyoideum, N. glossopharyngeus
Lig. stylohyoideum, M. styloglossus, Nodus lymphaticus submandibularis post.
M. pterygoideus medialis
M. stylohyoideus, A. auricularis post.
A. carotis ext., V. retromandibularis, N. facialis
A., V. temporalis superficialis, N. auriculotemporalis
A. occipitalis, Venter post. m. digastrici, R. digastricus
Anastomose zwischen N. auricularis magnus und N. facialis
M. geniohyoideus
M. mylohyoideus
M. hyoglossus

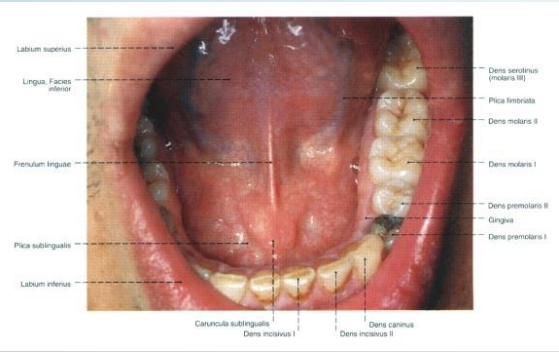


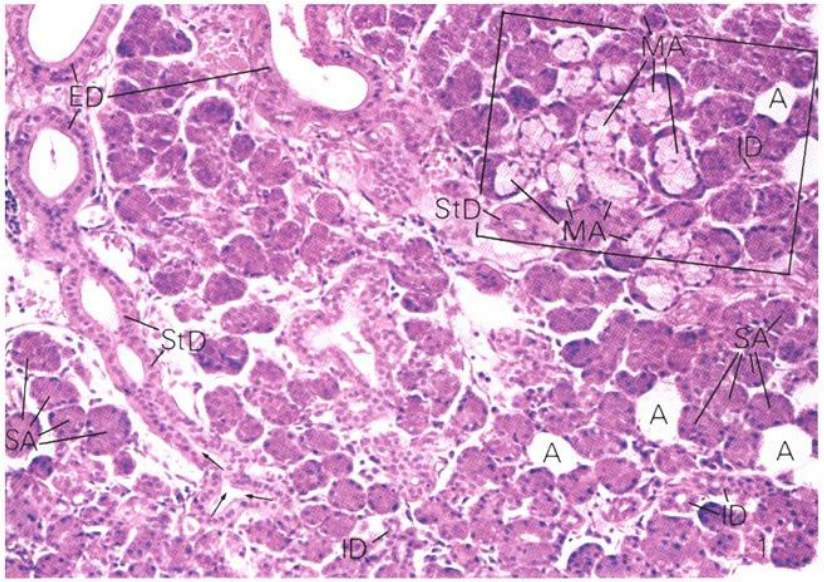

Grimm©

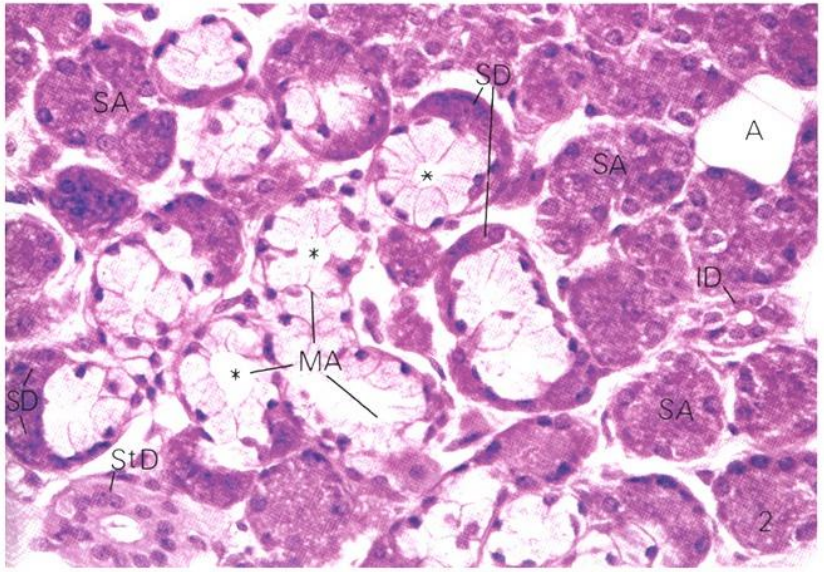
GLANDULA SUBMANDIBULARIS

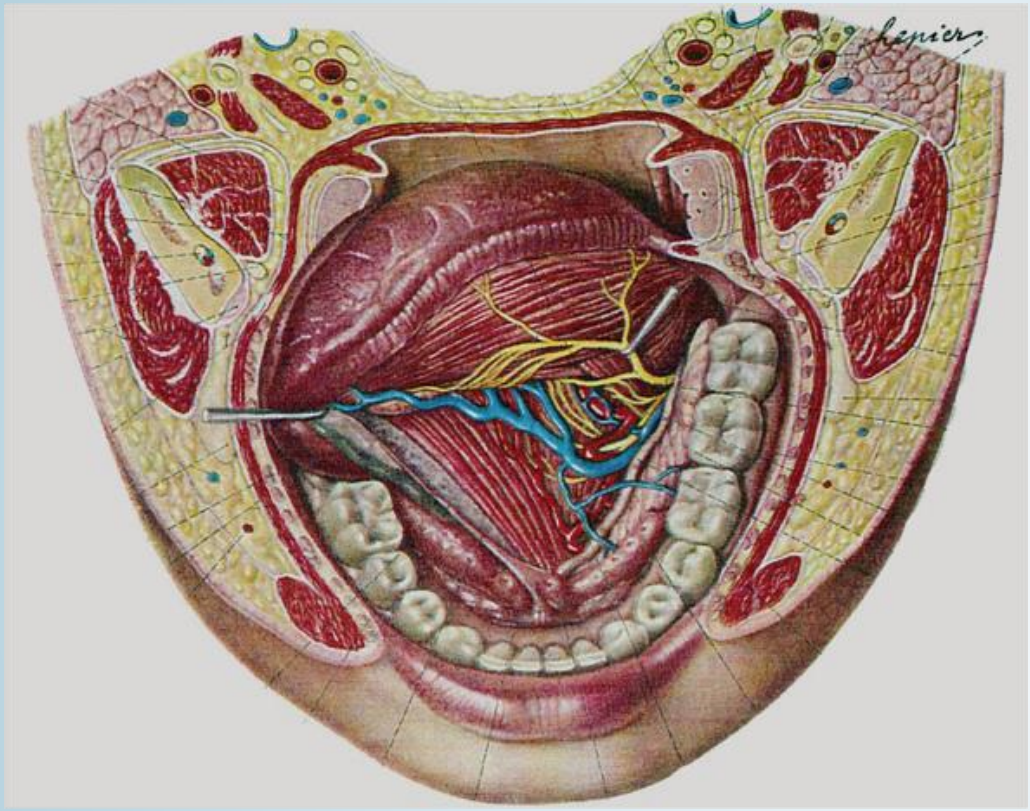


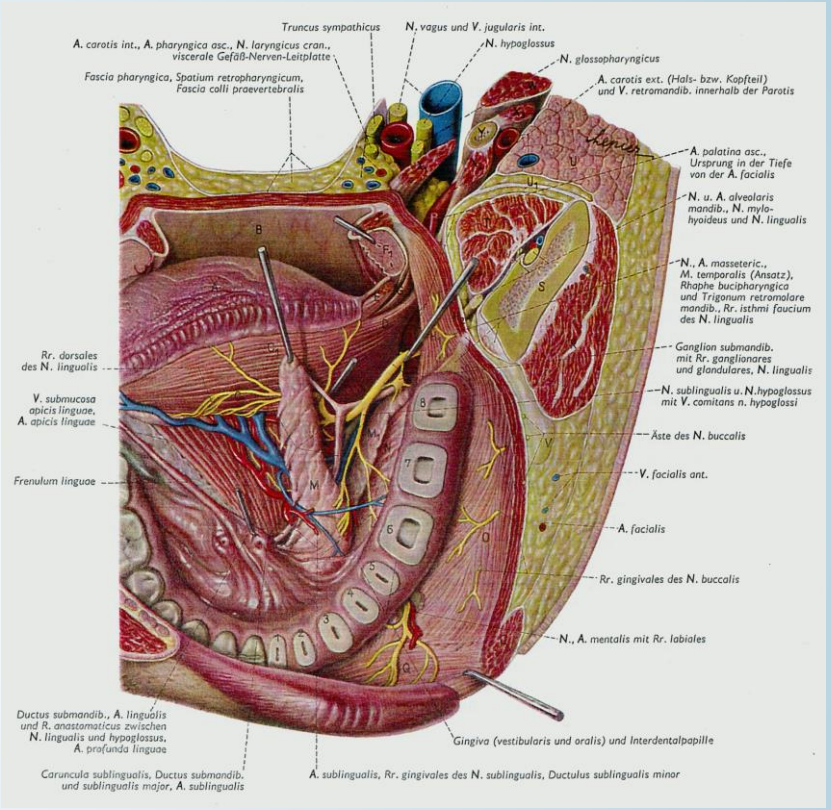




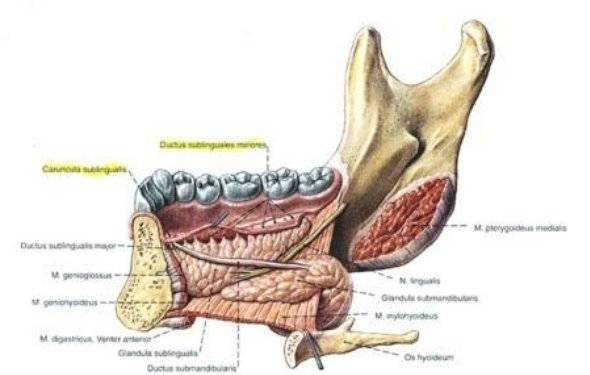




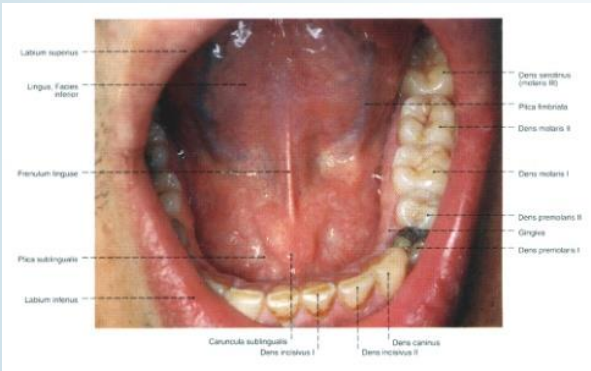


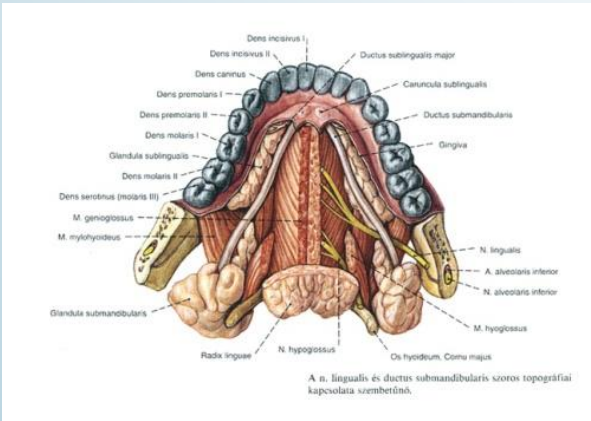

Truncus sympathicus
N. vagus und V. jugularis int.
A. carotis int., A. pharyngica asc., N. laryngicus cran., viscerale Gefäß-Nerven-Leitplatte
N. hypoglossus
N. glossopharyngicus
Fascia pharyngica, Spatium retropharyngicum, Fascia colli praevertebralis
A. carotis ext. (Hals- bzw. Kopfteil) und V. retromandib. innerhalb der Parotis
A. palatina asc., Ursprung in der Tiefe von der A. facialis
N. u. A. alveolaris mandib., N. mylohyoideus und N. lingualis
N., A. masseteric., M. temporalis (Ansatz), Rhaphe bucipharyngica und Trigonum retromolare mandib., Rr. isthmi faucium des N. lingualis
Rr. dorsales des N. lingualis
Ganglion submandib. mit Rr. ganglionares und glandulares, N. lingualis
V. submucosa apicis linguae, A. apicis linguae
N. sublingualis u. N. hypoglossus mit V. comitans n. hypoglossi
Äste des N. buccalis
Frenulum linguae
V. facialis ant.
A. facialis
Rr. gingivales des N. buccalis
N., A. mentalis mit Rr. labiales
Ductus submandib., A. lingualis und R. anastomaticus zwischen N. lingualis und hypoglossus, A. profunda linguae
Gingiva (vestibularis und oralis) und Interdentalpapille
Caruncula sublingualis, Ductus submandib. und sublingualis major, A. sublingualis
A. sublingualis, Rr. gingivales des N. sublingualis, Ductulus sublingualis minor

GLANDULA SUBLINGUALIS

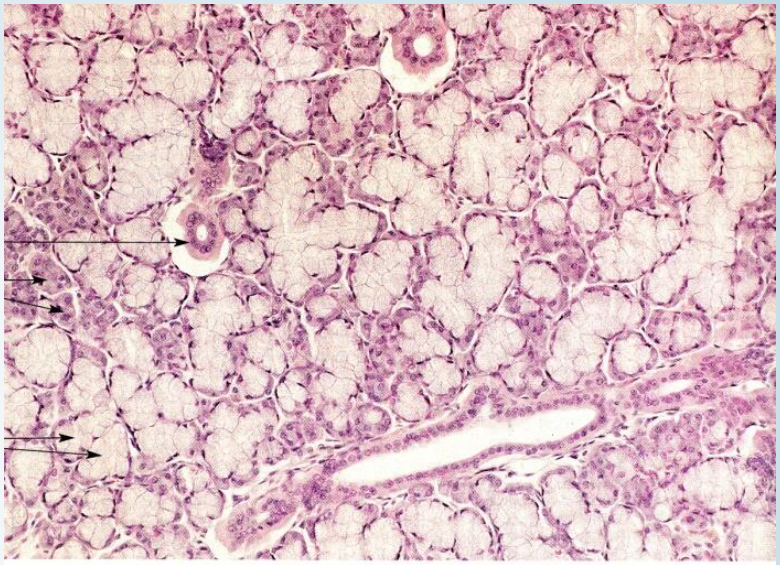


Lásd a n. lingualis és a ductus submandibularis szoros topográfiai viszonyát.





A n. lingualis és ductus submandibularis szoros topográfiai kapcsolata szembetűnő.



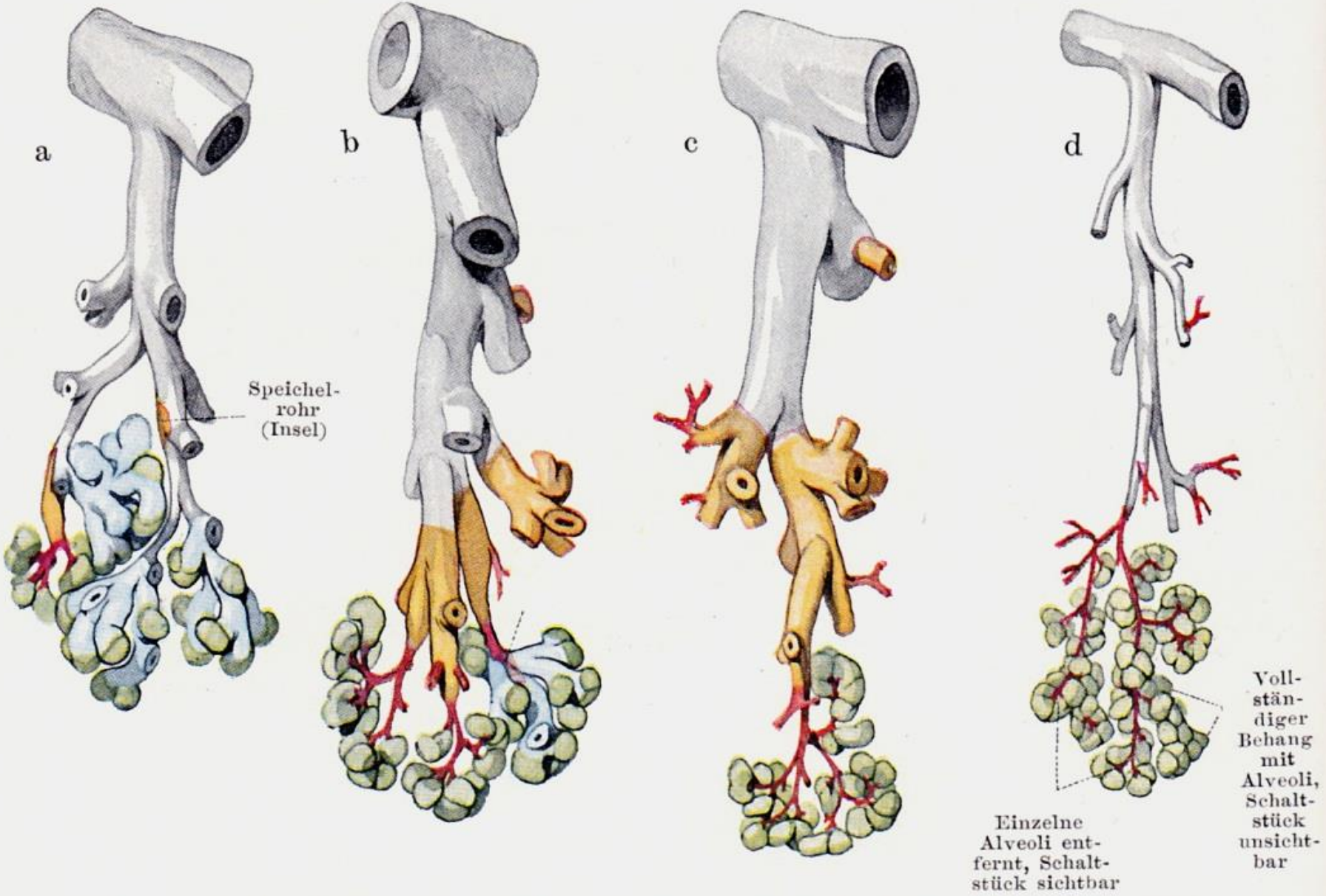
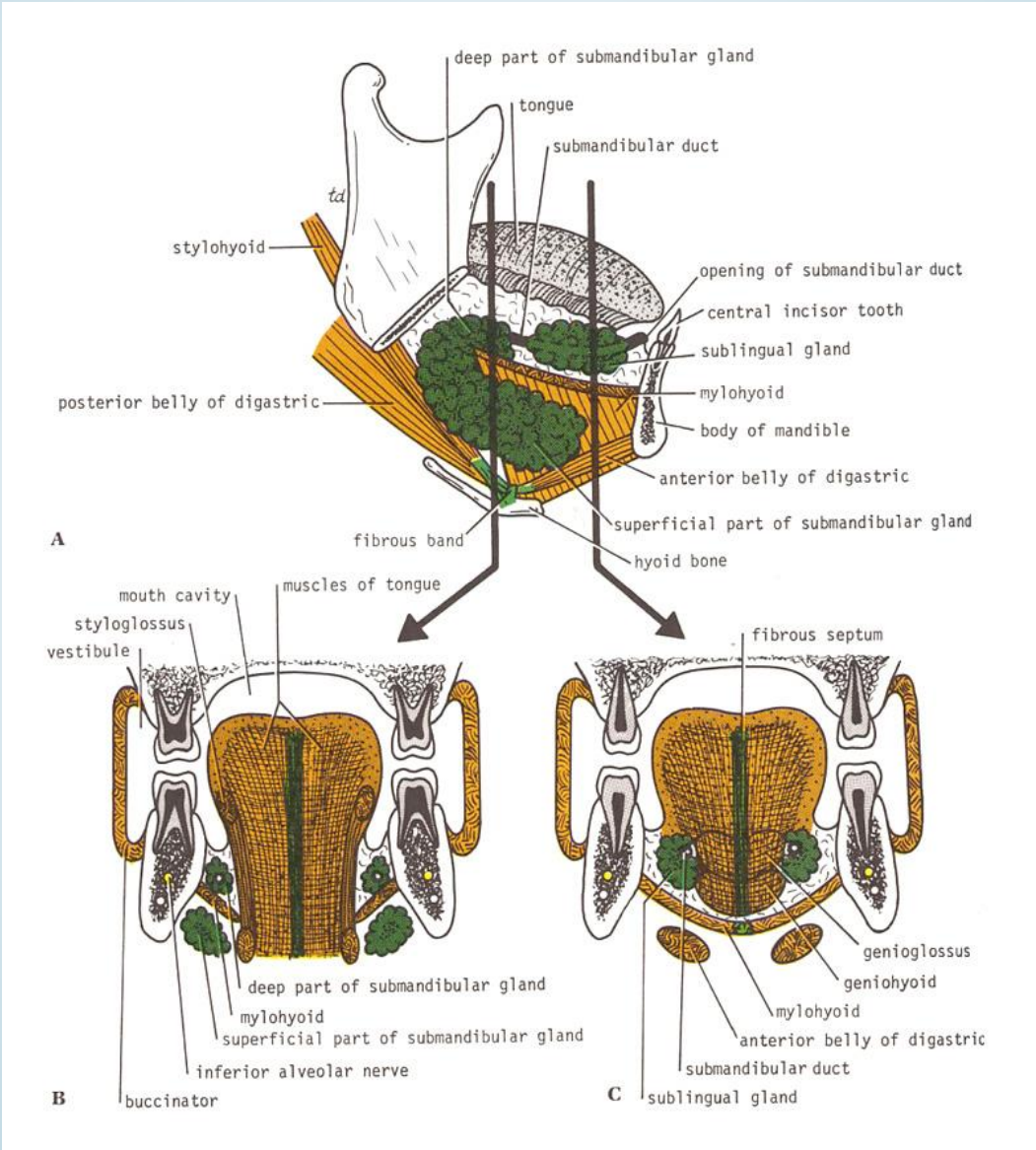


Abb. 40. Bau der Speicheldrüsen und des Pankreas (Bauchspeicheldrüse). Schemata. Ausführgang weiß, Sekretröhren orange, Schaltstücke rot, seröse Zellen der Endstücke grün, muköse Zellen blau. a Glandula sublingualis. b Glandula submaxillaris. c Glandula parotis. d Pankreas.

A GL. SUBMANDIBULARIS ÉS GL. SUBLINGUALIS ELHELYEZKEDÉSE



Figyelem jön a QR kód, készítsék elő a telefonjaikat!

Jelenlét kód

OHMV kód

Irodalom

Röhlich P. (szerk.): Szövettan (SOTE Képzéskutató 1999.)

Welsch: Lehrbuch Histologie (Urban & Fischer 2010.)

Réthelyi Miklós - Szentágothai János: Functional Anatomy Anatomy, histology and embryology for medical and dental students (Medicina 2018.)