

VASCULARIZACIÓN DE LA CARA; ARTERIA MAXILAR Y FACIAL

Docente: Mauricio Sandoval Tobar

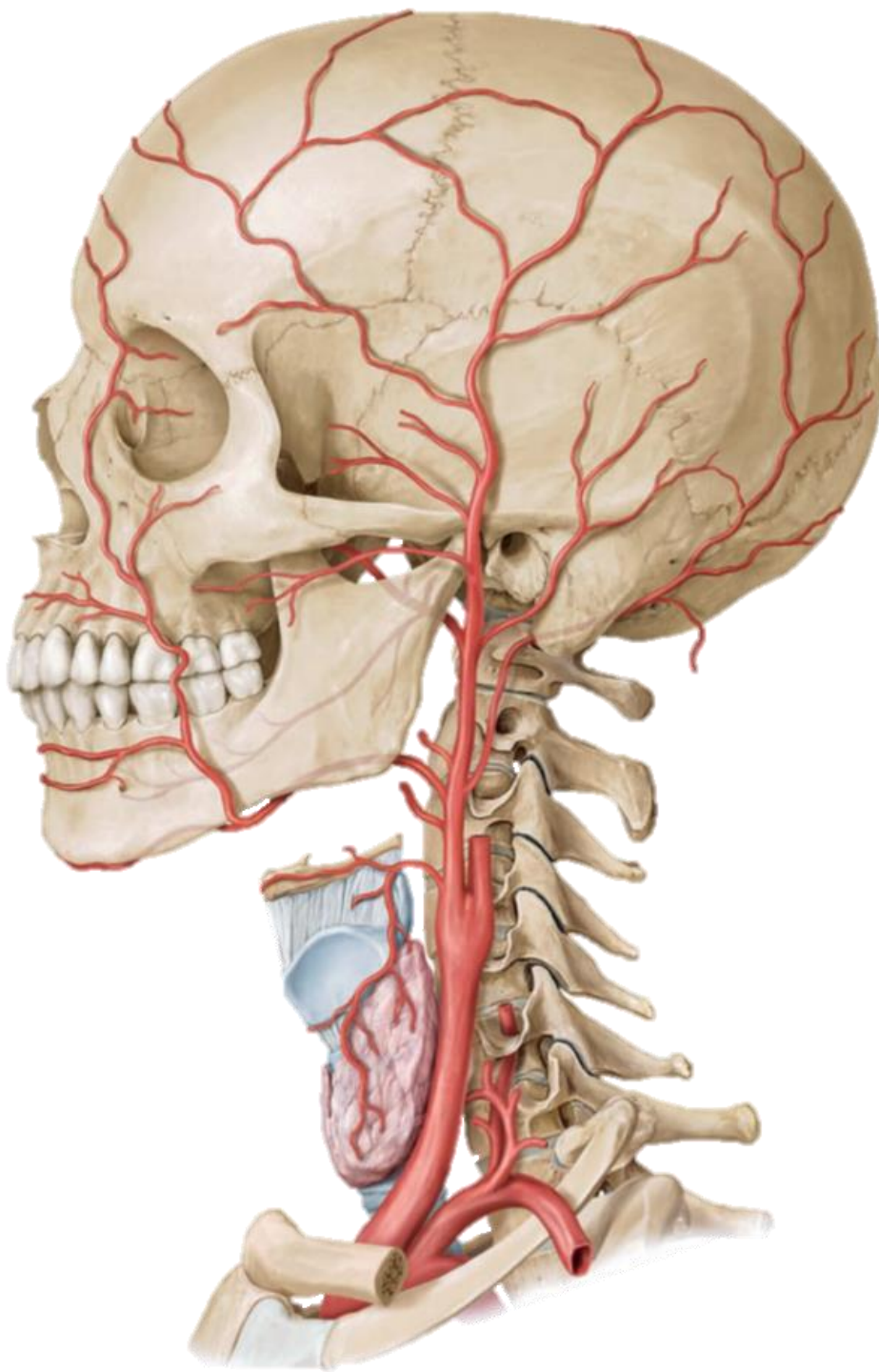
Fecha 16/11/18











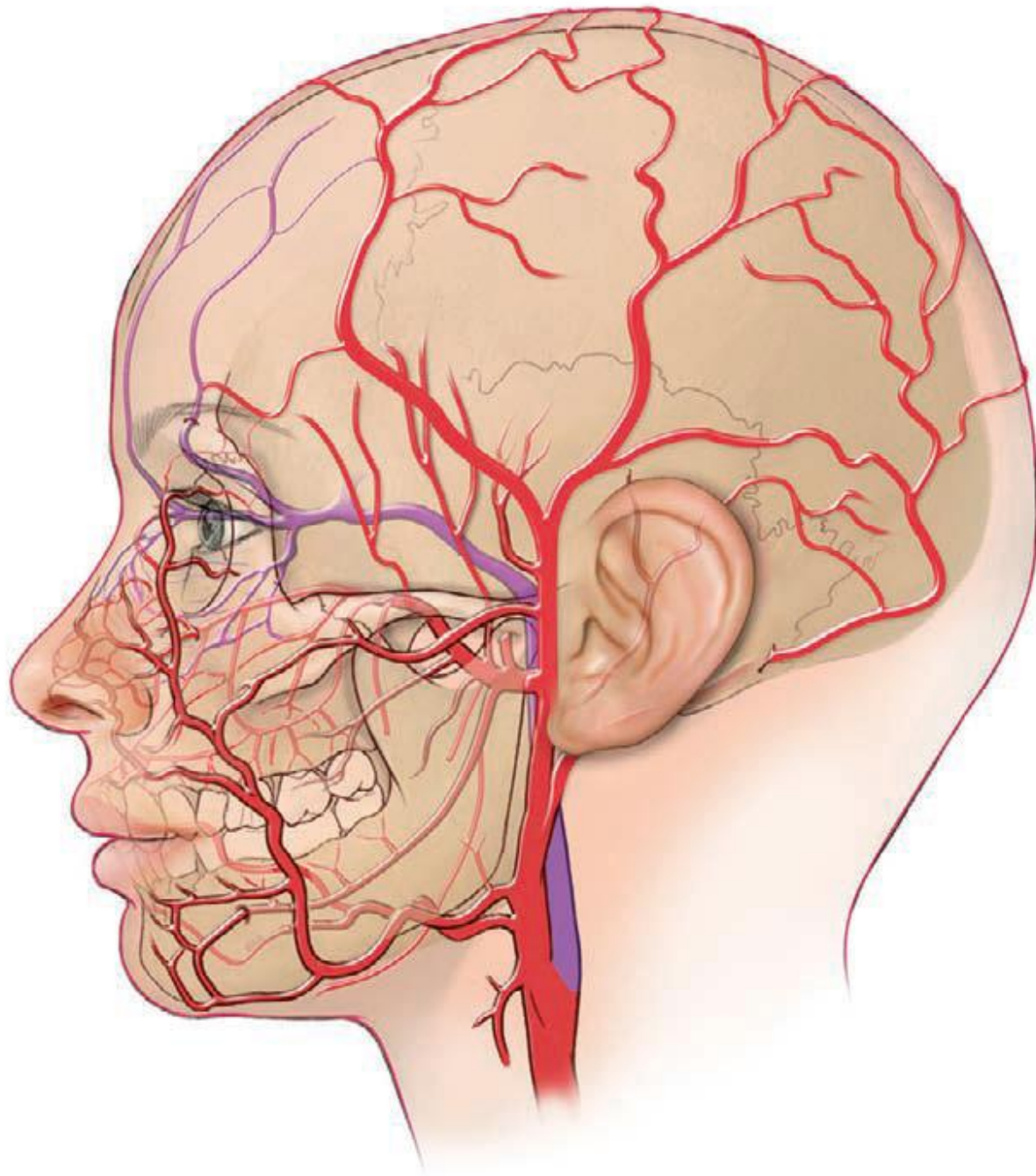
A. Carótida Interna:

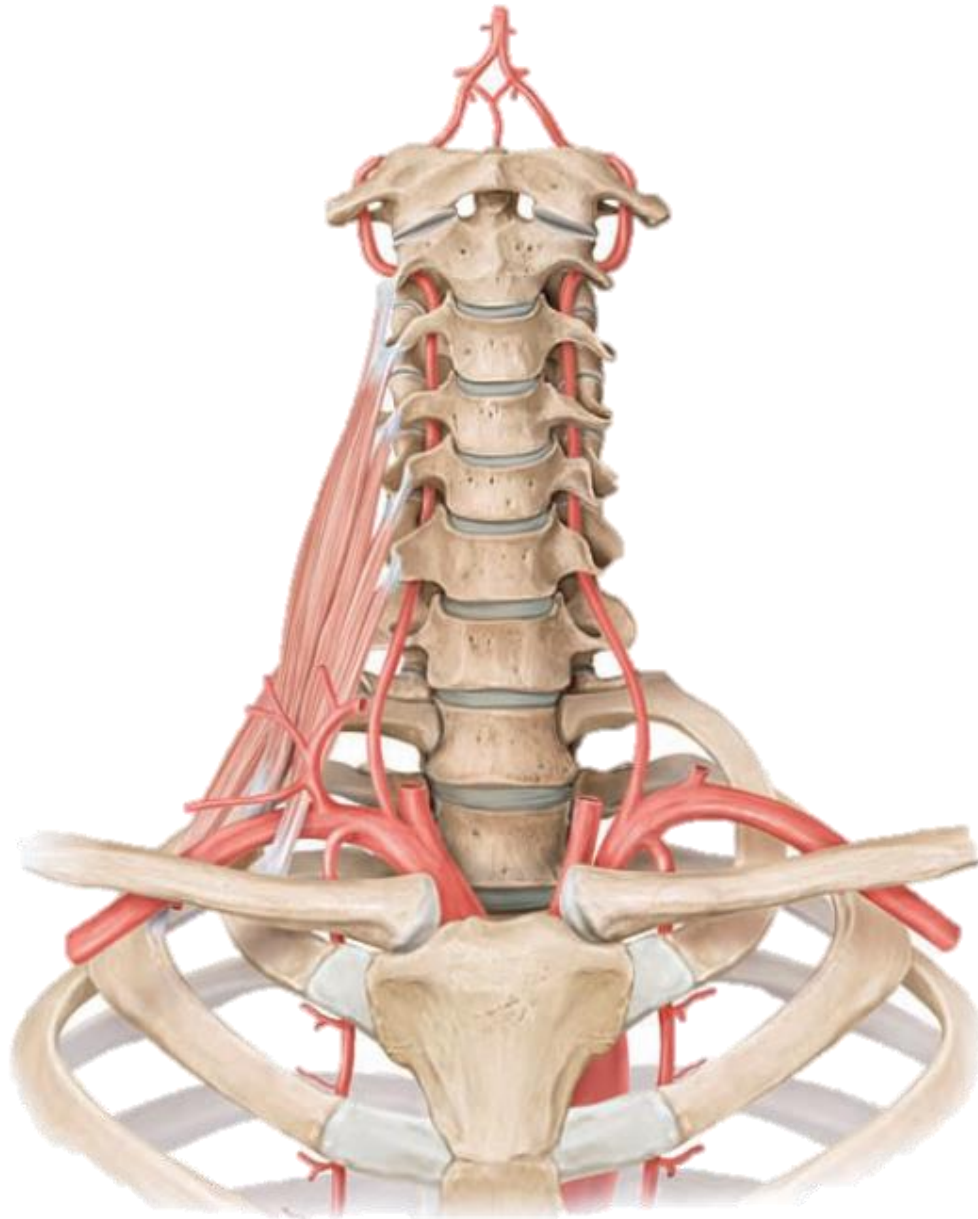
- Ramas colaterales en la cara
 - A. Oftálmica y sus colaterales

A. Carótida Externa:

- 7 Ramas colaterales:
 - A. Tiroidea Superior
 - A. Lingual
 - A. Faríngea Ascendente
 - A. Facial
 - A. Occipital
 - A. Auricular posterior
 - A. Parotídeas
- 2 Ramas terminales:
 - A. Maxilar
 - A. Temporal Superficial







A. Subclavia

Ramas colaterales:

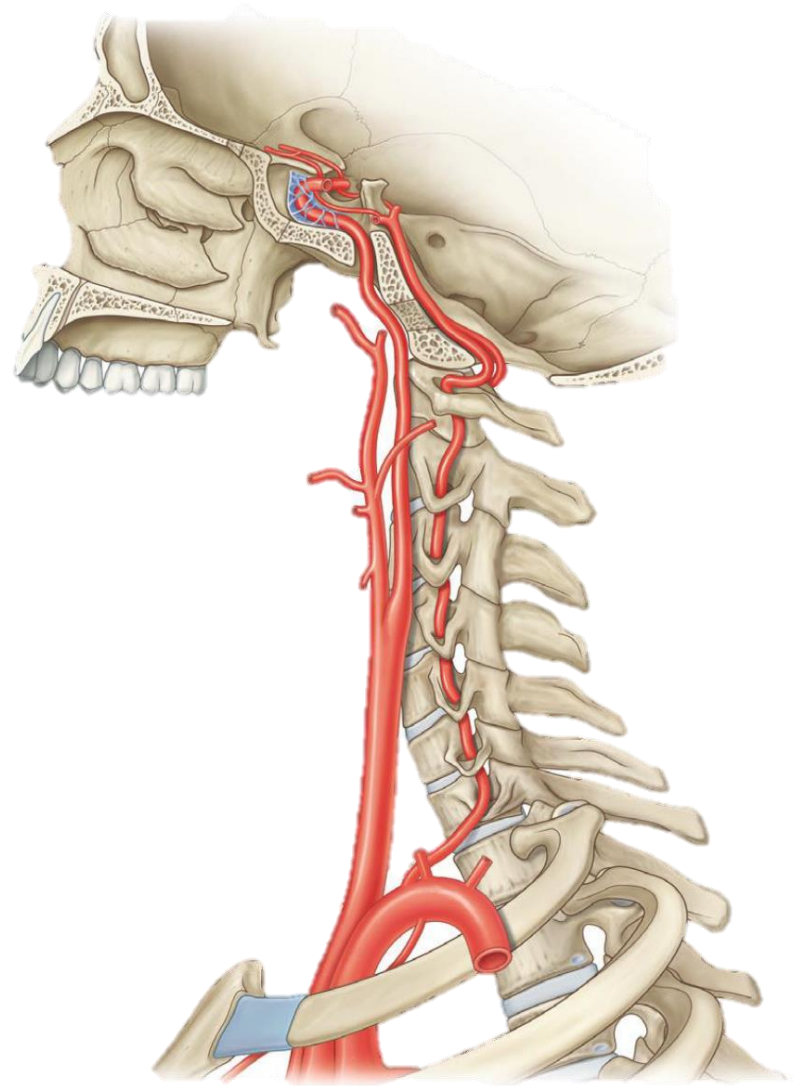
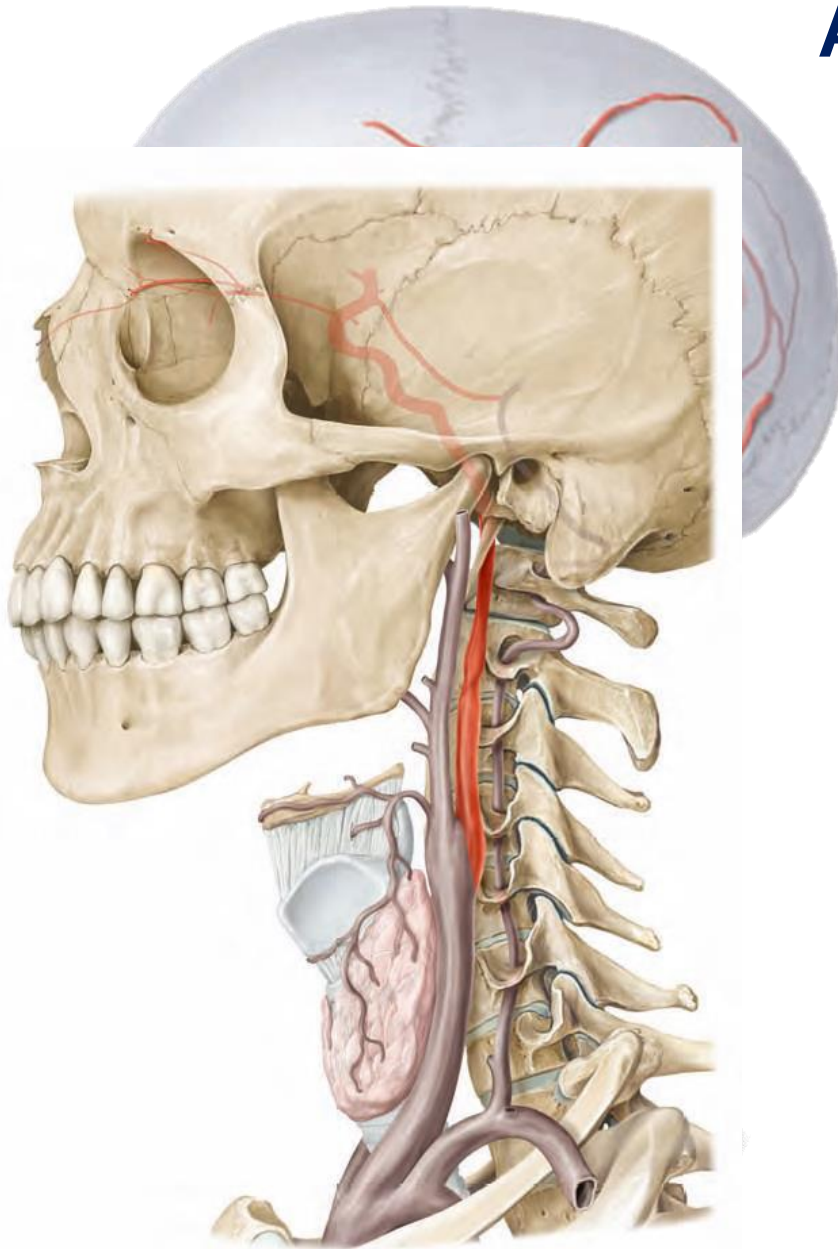
- **A. vertebral**
- **Tronco tirocervical:**
 - **A. tiroidea inferior**
 - **A. cervical ascendente**
 - **A. supraescapular**
 - **A. cervical transversa**
- **Tronco costocervical:**
 - **A. cervical profunda**
 - **A. intercostal suprema**
- **Arteria dorsal de la escápula**
- **Arteria torácica interna**

Rama terminal:

- **A. Axilar**



A. Carótida Interna



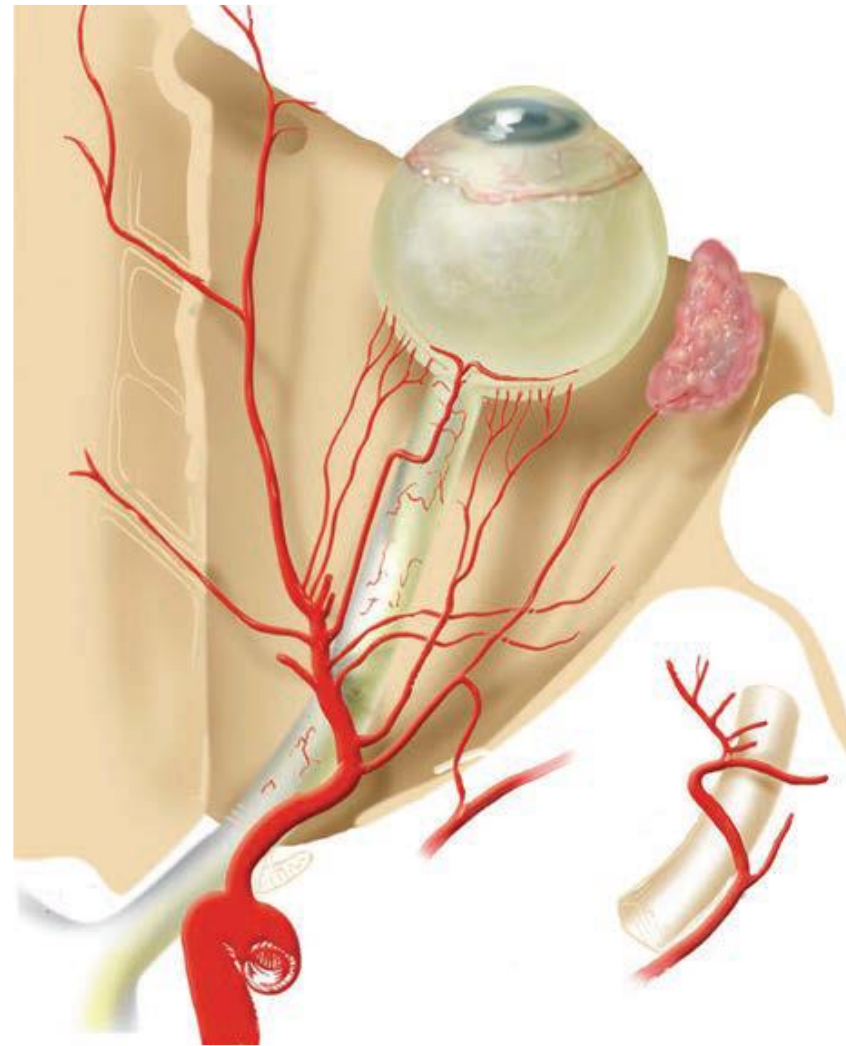
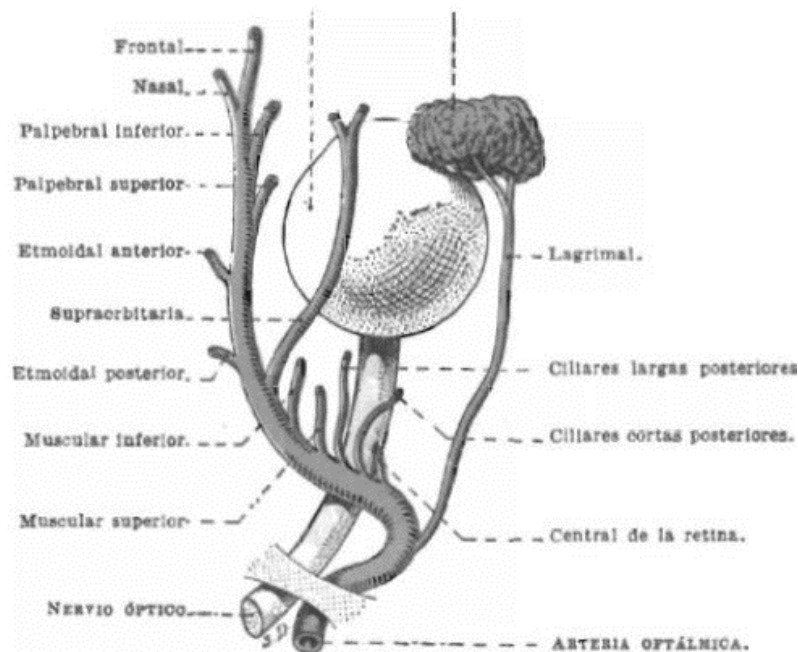
A. Oftálmica

Ramas Colaterales.

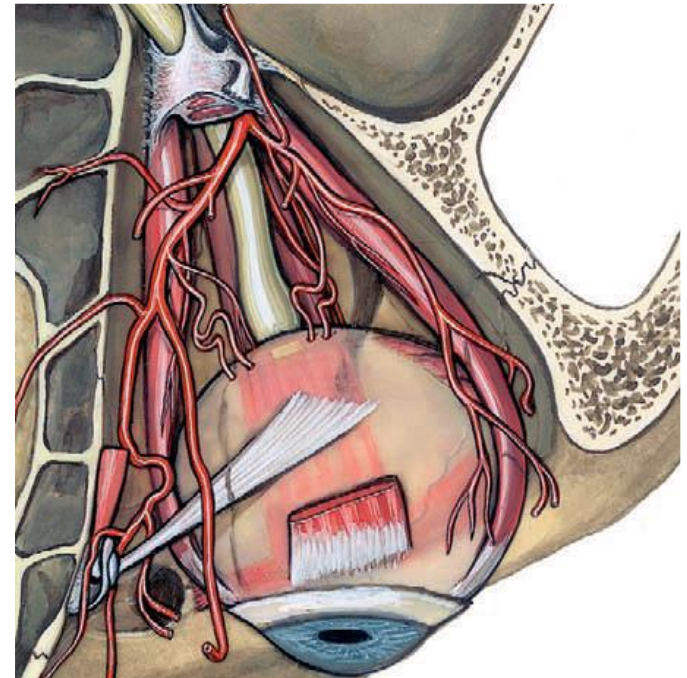
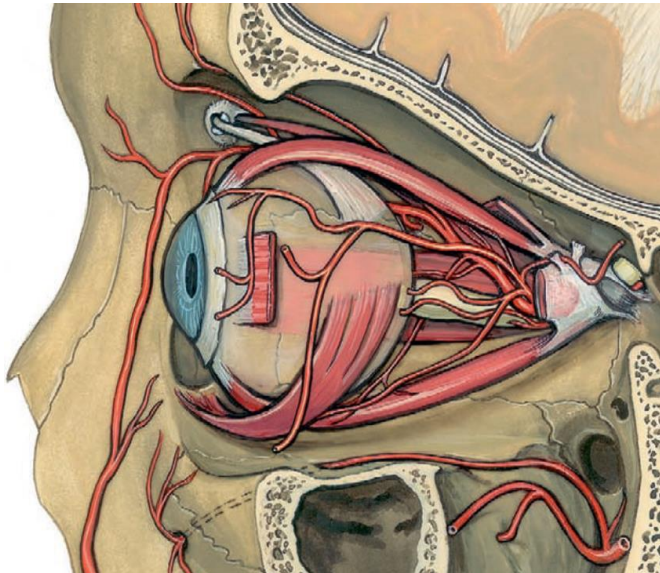
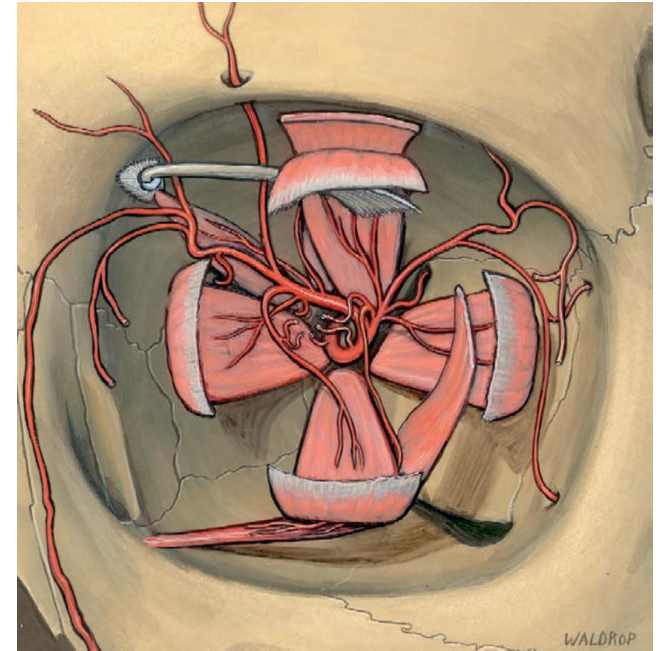
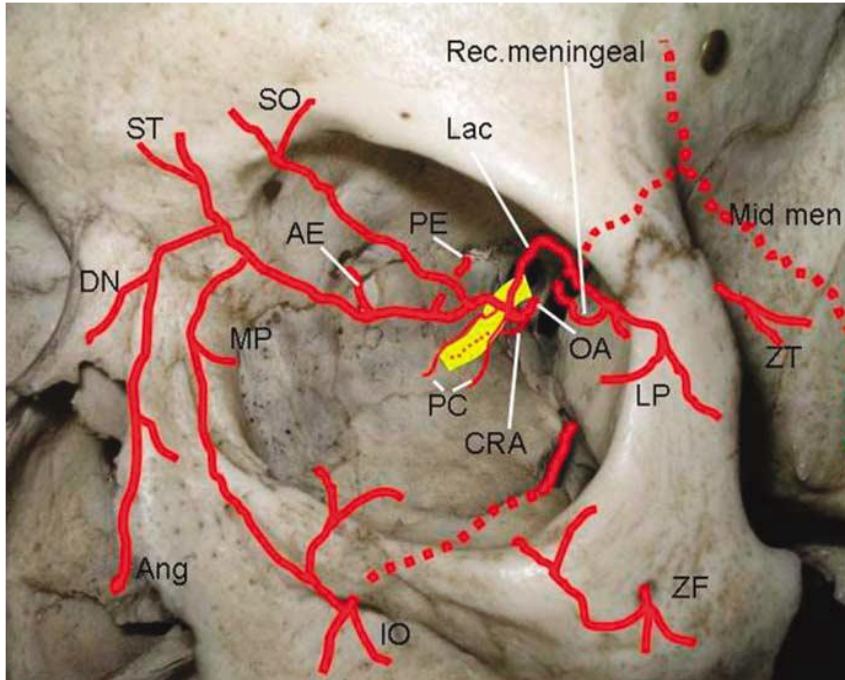
- Arteria central de la retina
- Arteria lagrimal
- Arterias ciliares cortas y largas
- Arteria supraorbitaria ←
- Arterias musculares (superior e inferior)
- Arterias etmoidales anteriores ←
- Arterias palpebrales (superior e inferior)
- Arteria supratroclear ←

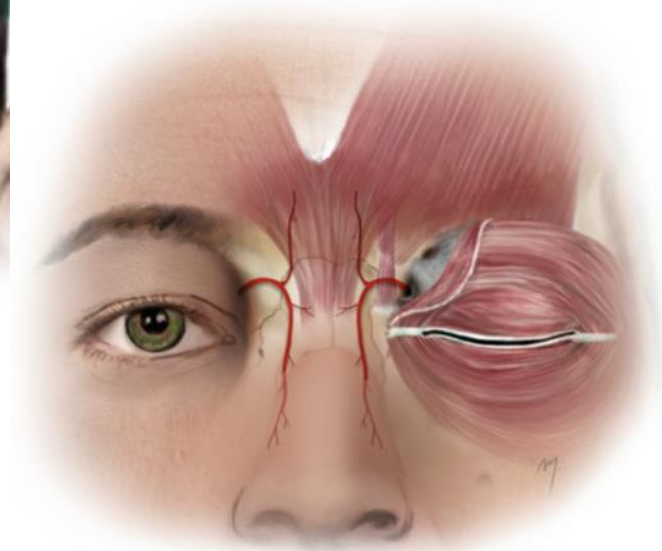
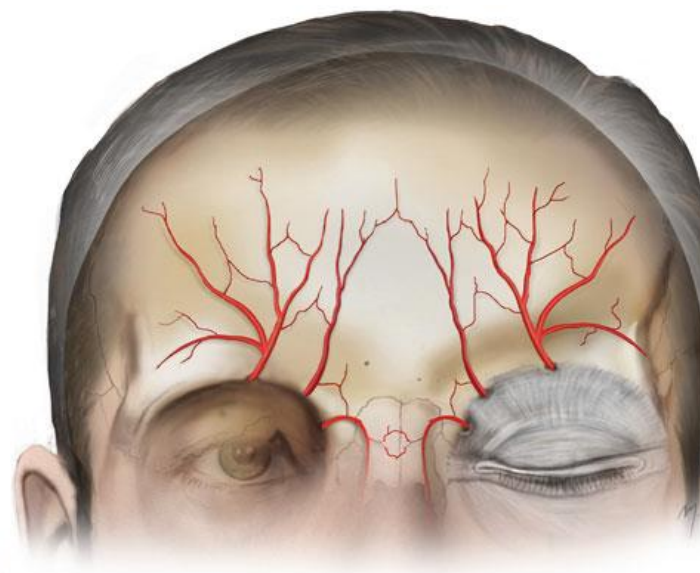
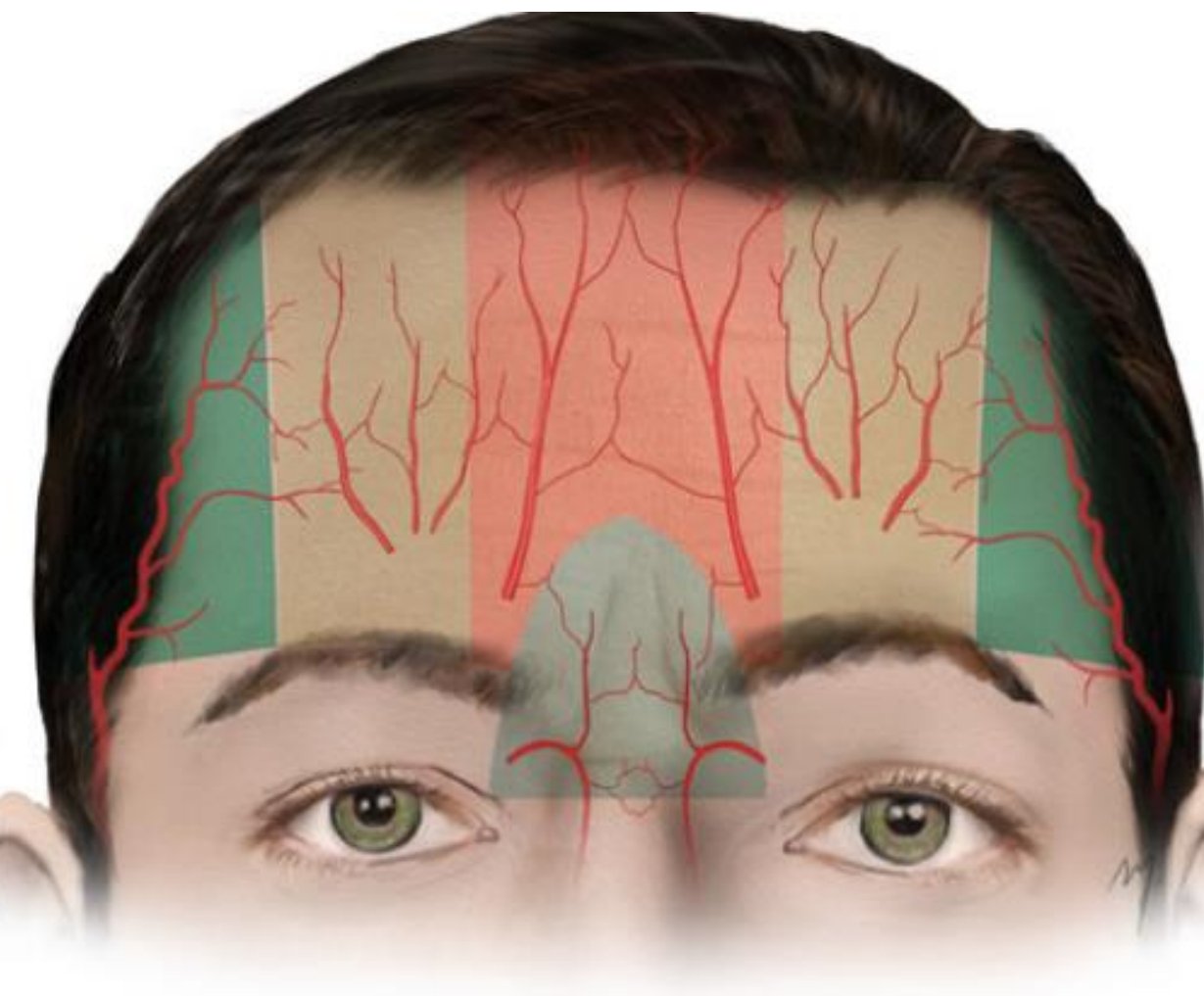
Ramas Terminal

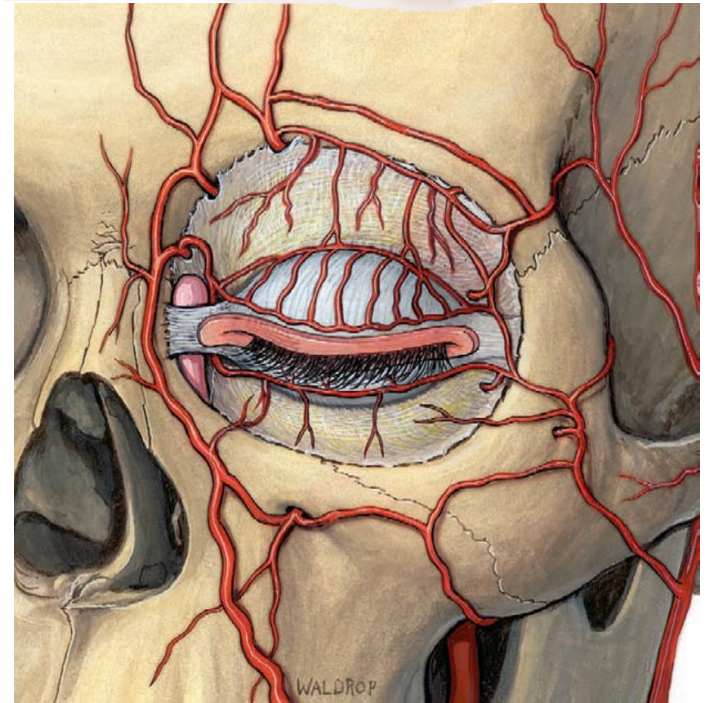
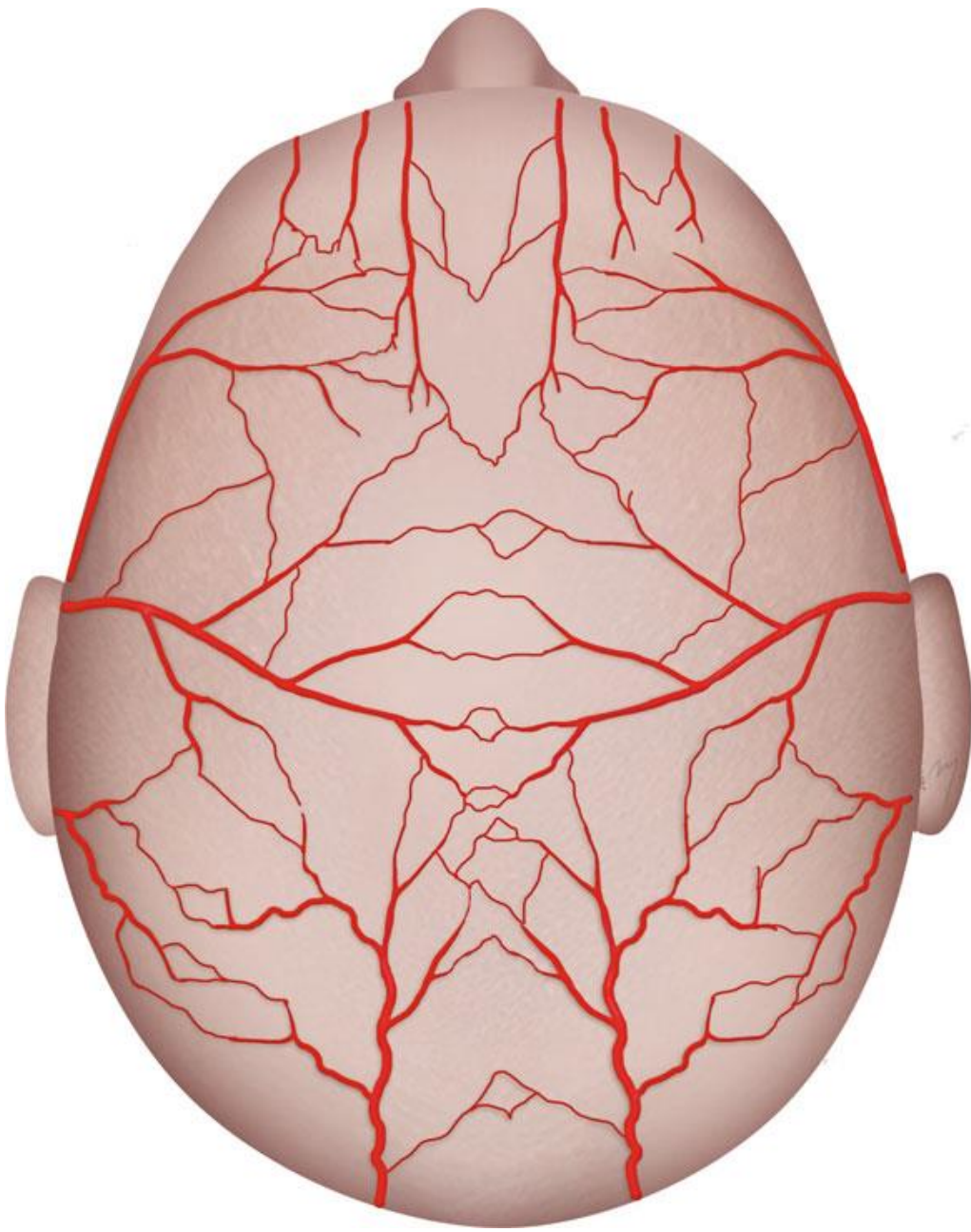
- Arteria dorsal de la nariz ←

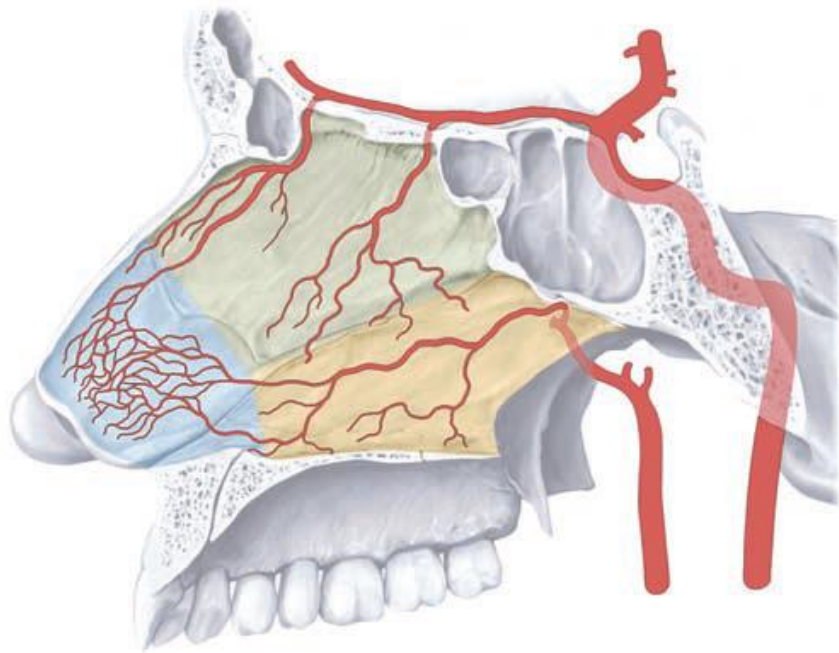


A. Oftálmica



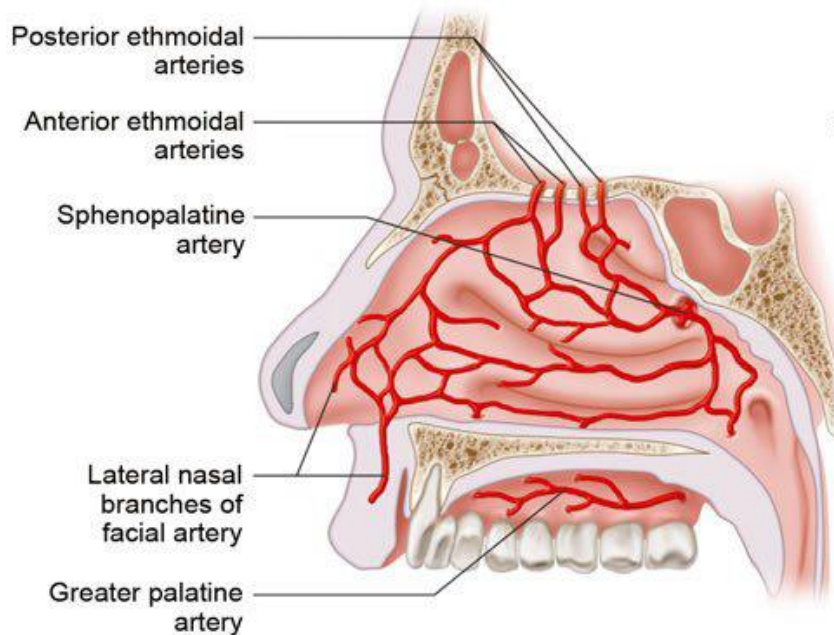




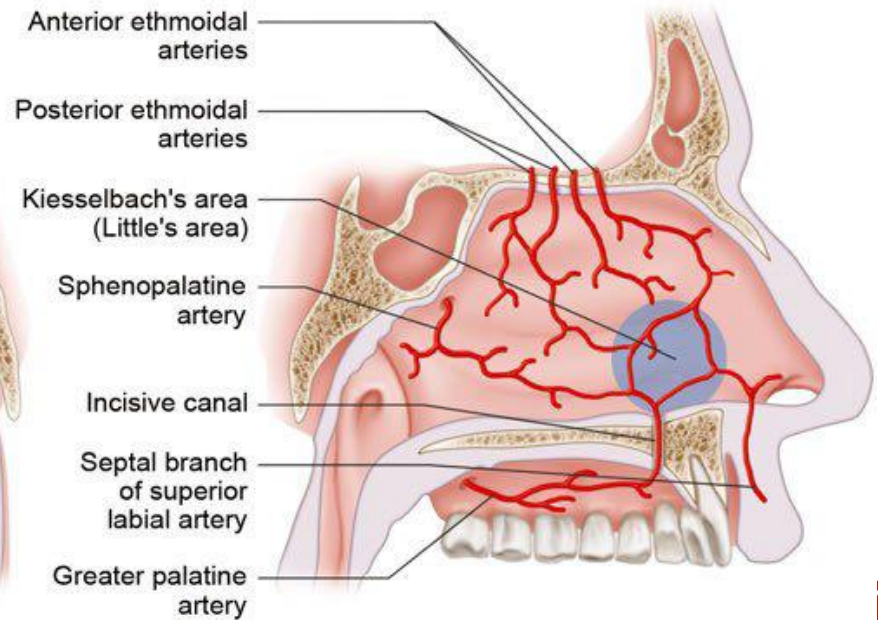


A. Ethmoidal Anterior

A. Ethmoidal Posterior



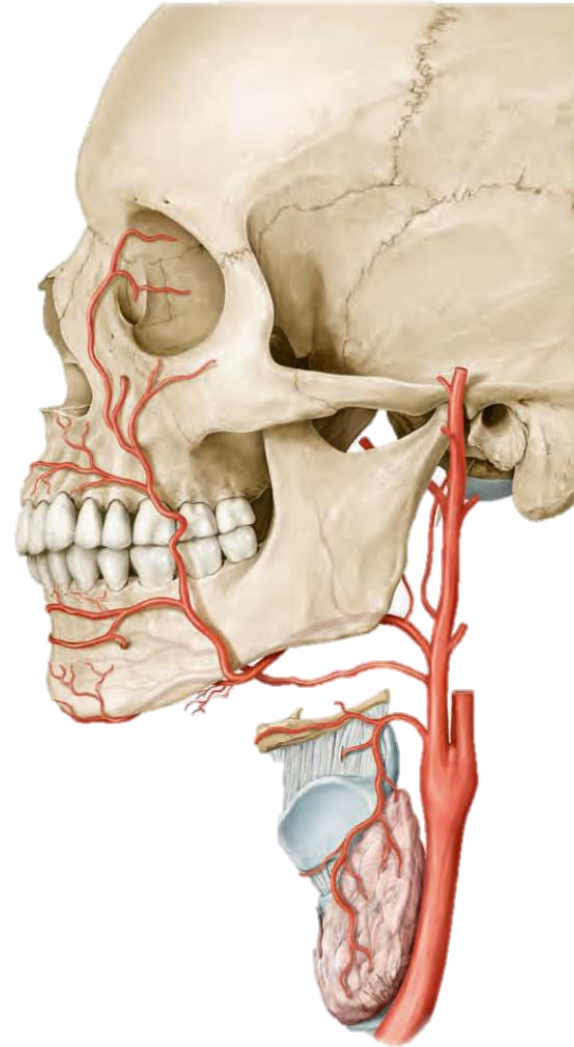
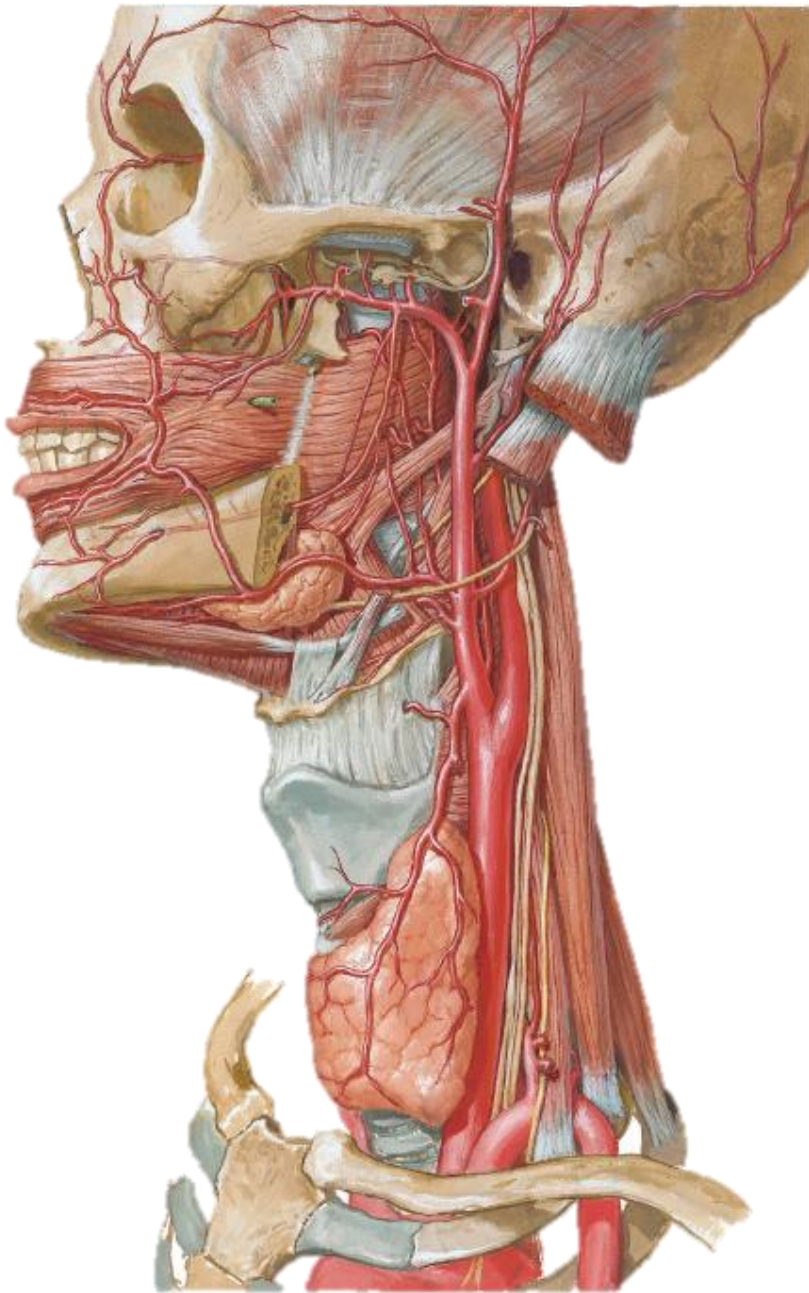
(a) Lateral wall of cavity

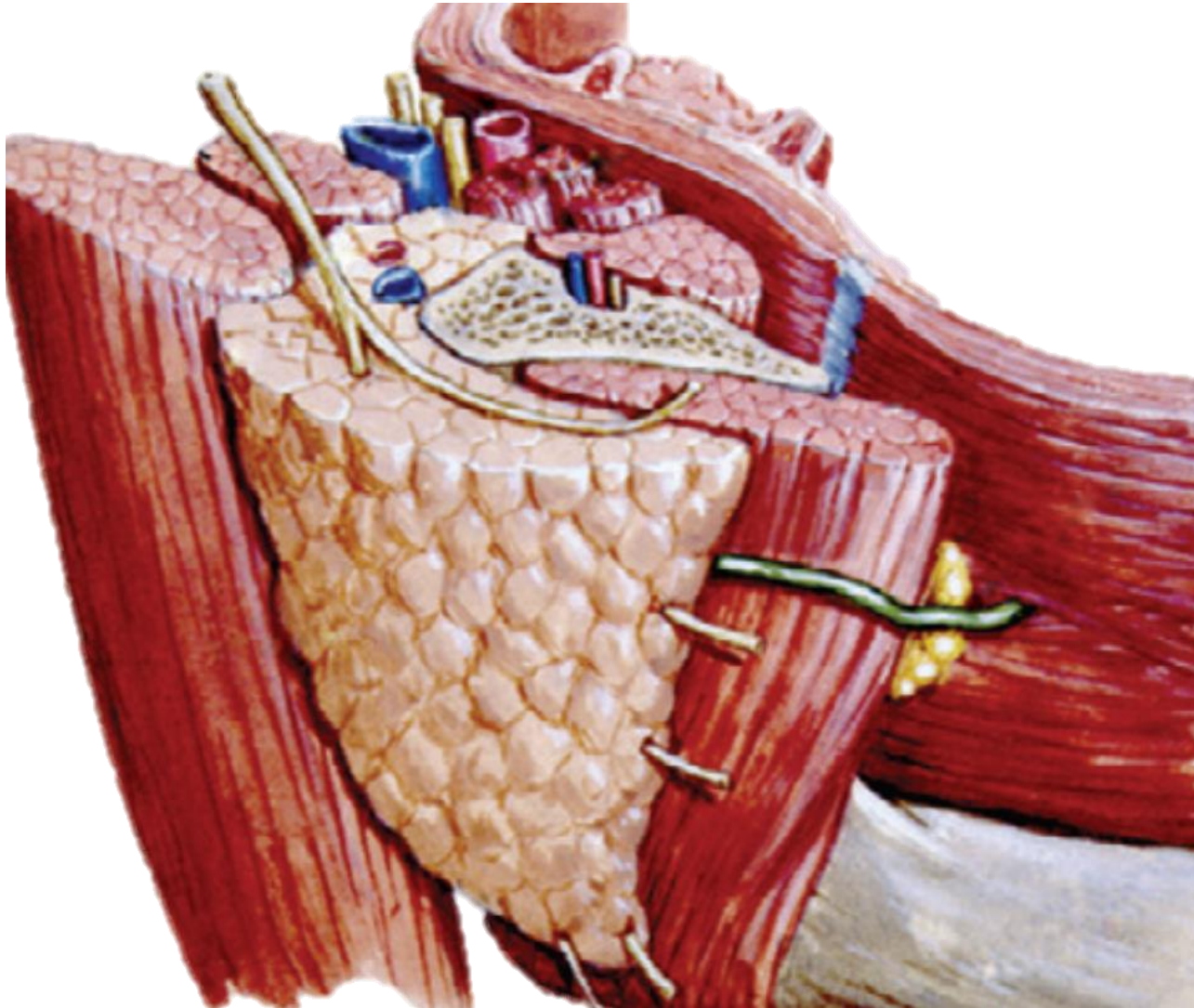


(b) Nasal septum



A. Carótida Externa





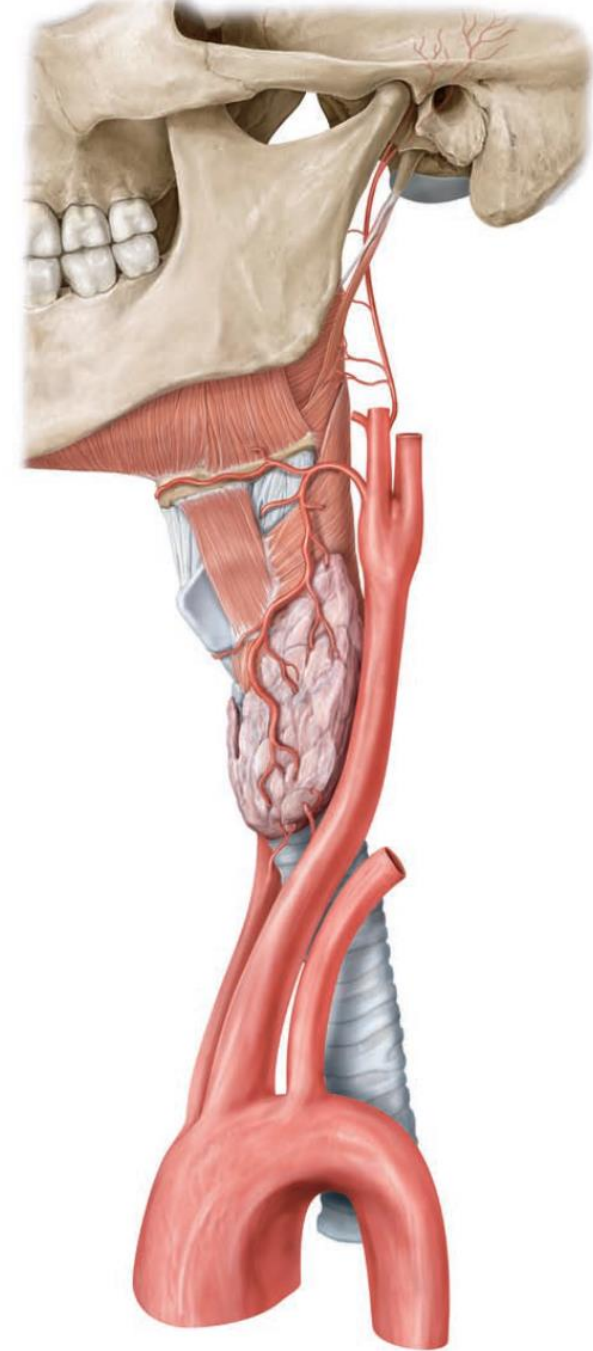
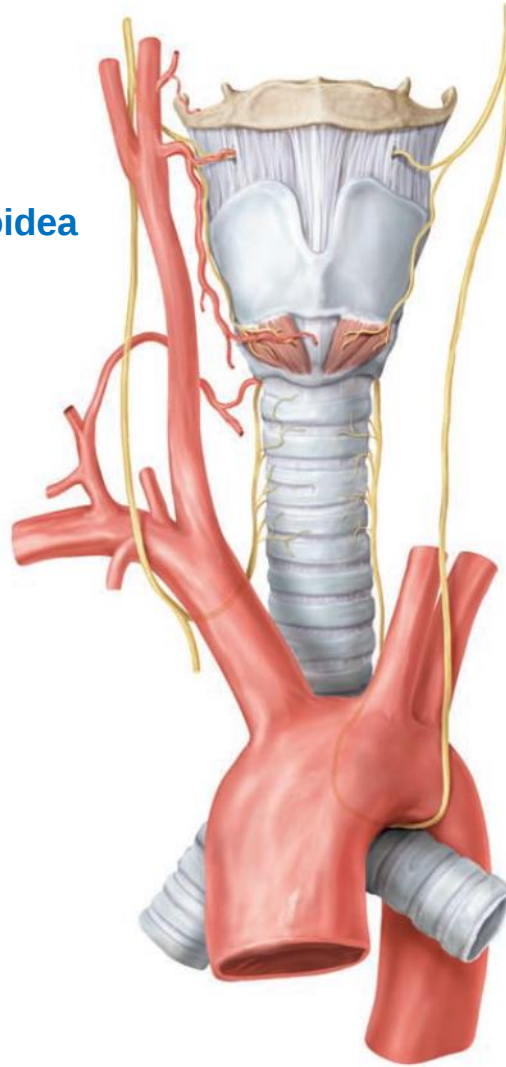
A. Tiroidea Superior

Ramas colaterales:

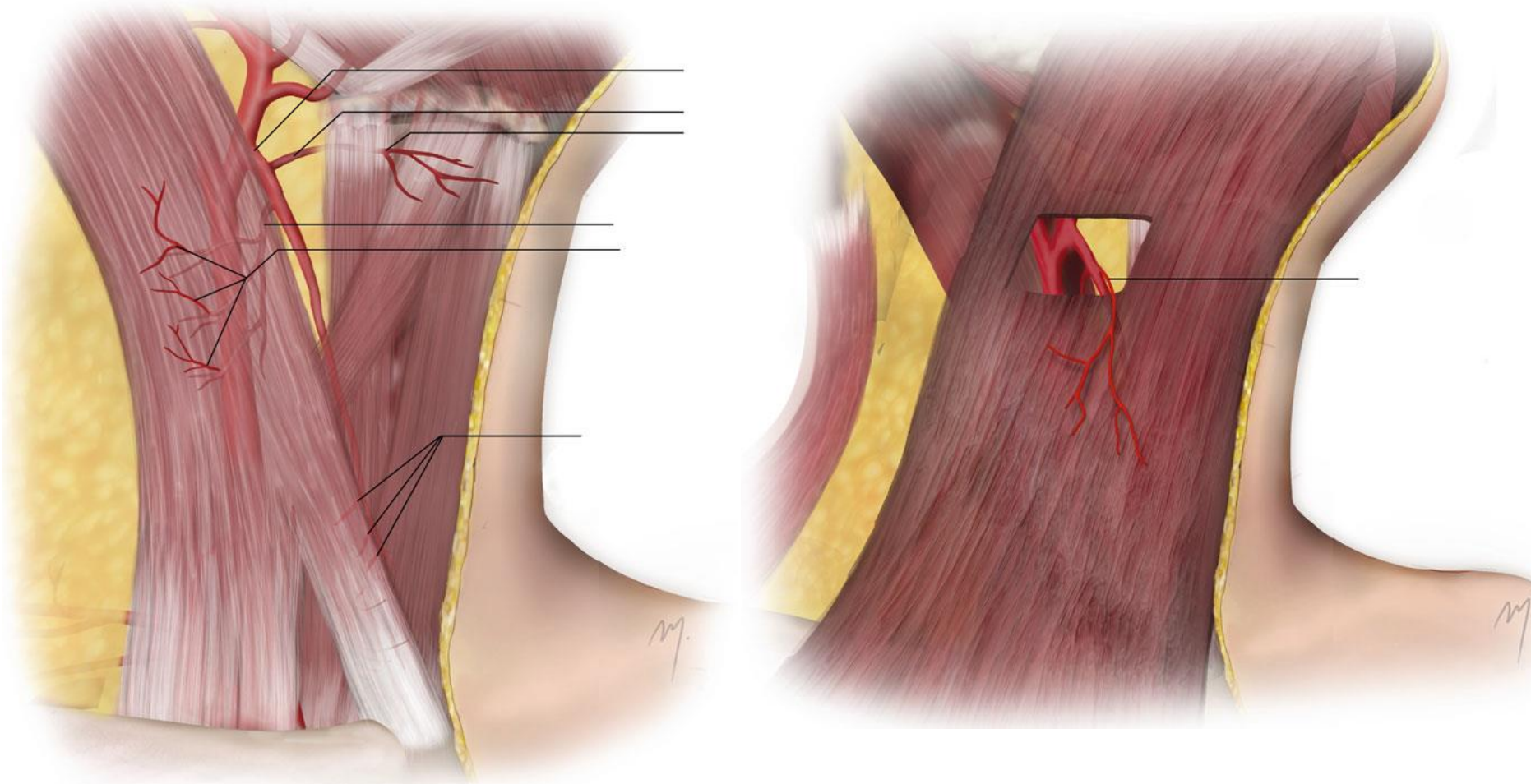
- A. Infrahioidea
- A. Esternocleidomastoidea
- A. Laringea Superior
- A. Cricotiroidea*

Ramas terminales:

- Anterior
- Lateral
- Posterior

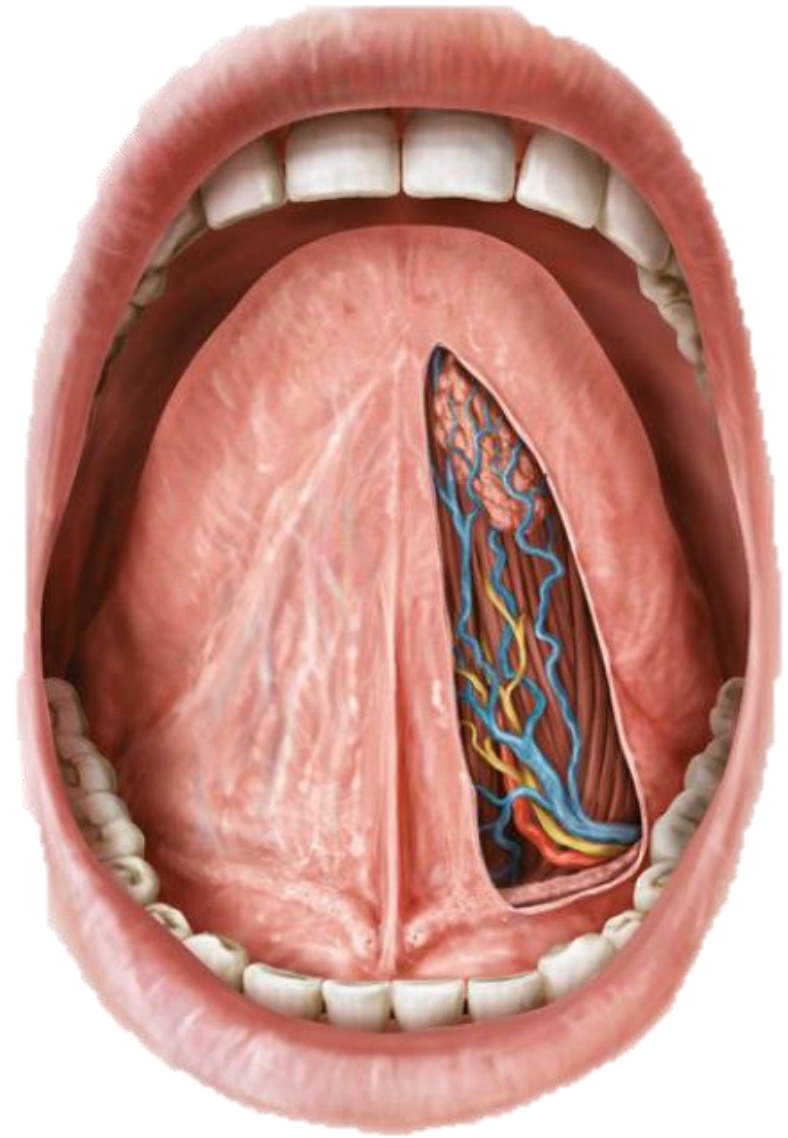
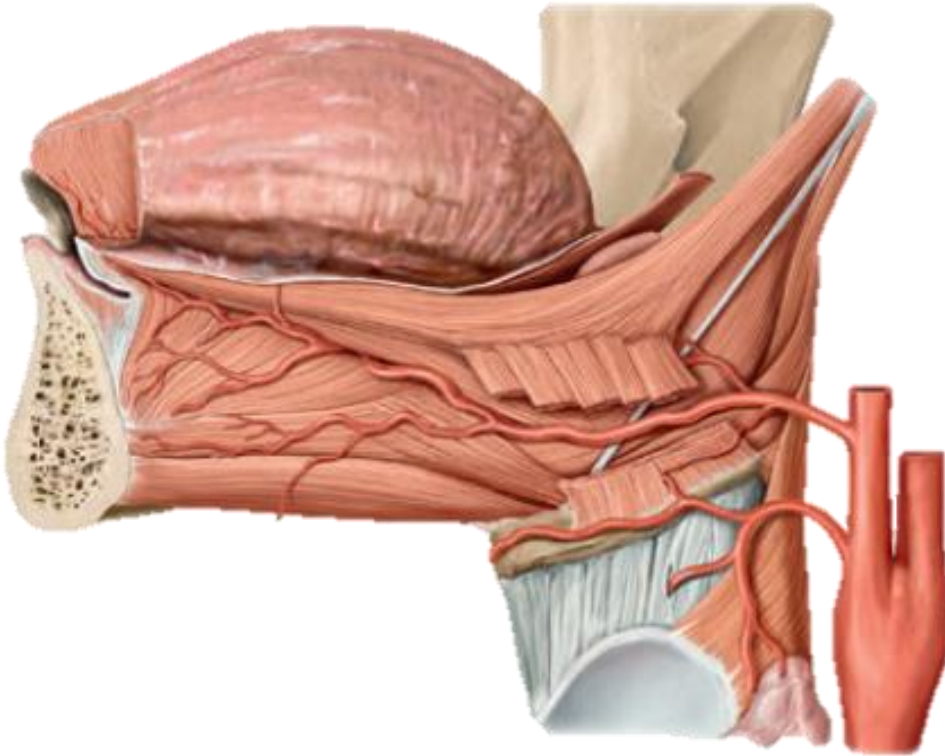


A. Tiroidea Superior

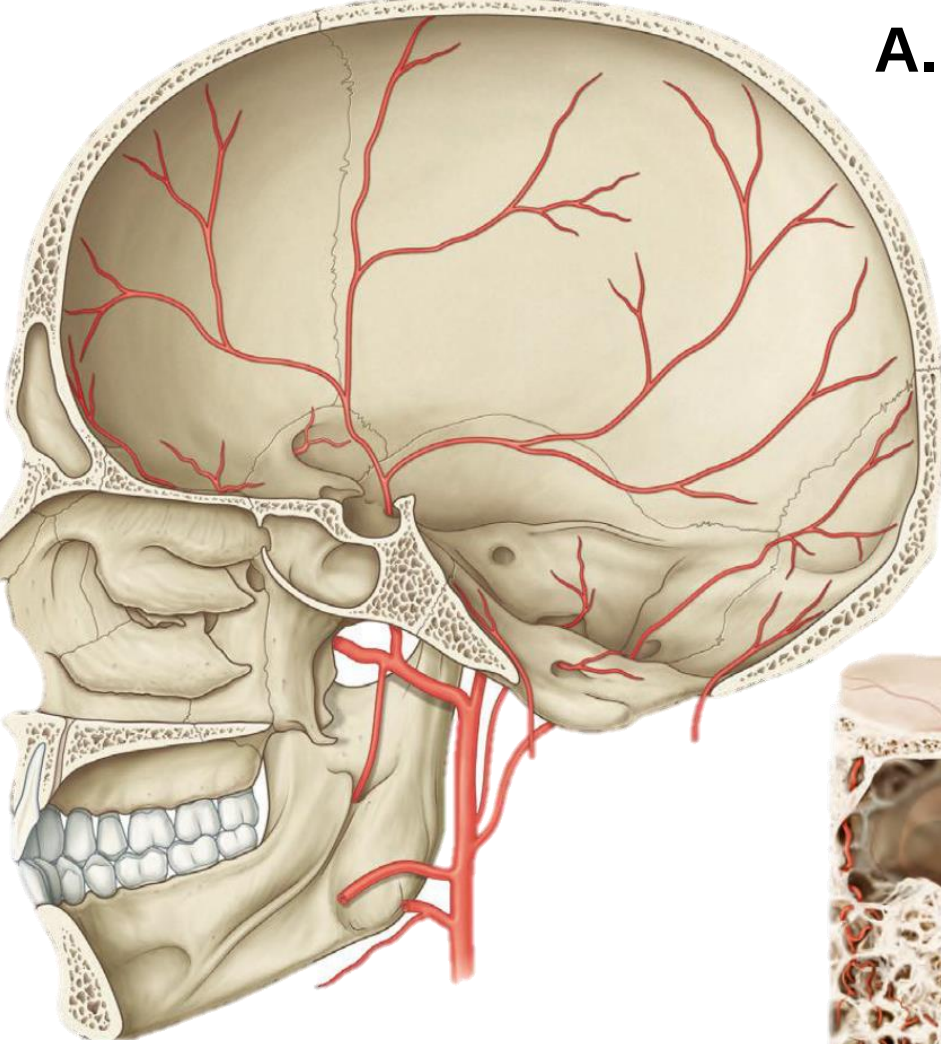


A. Lingual

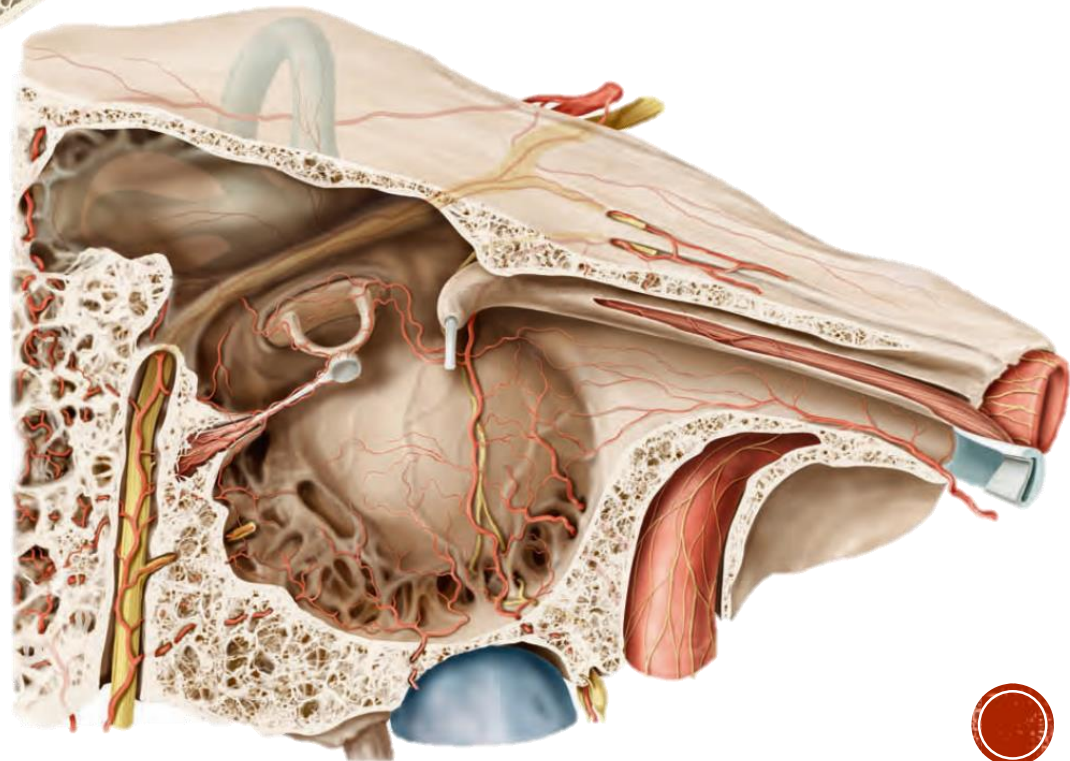
- **Ramas colaterales:**
 - A. Suprahioidea
 - A. Dorsal de la lengua
- **Ramas terminales:**
 - Sublingual*
 - Profunda de la lengua



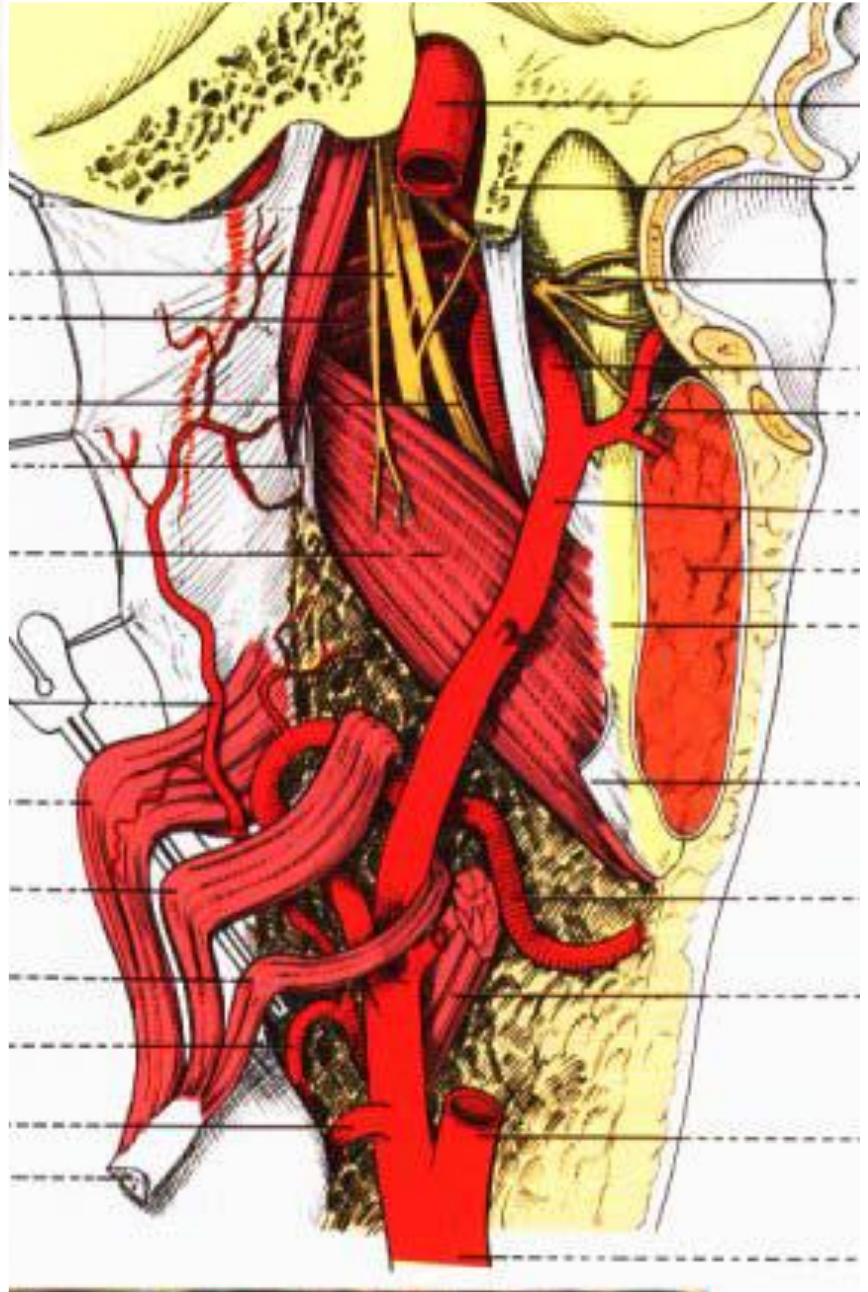
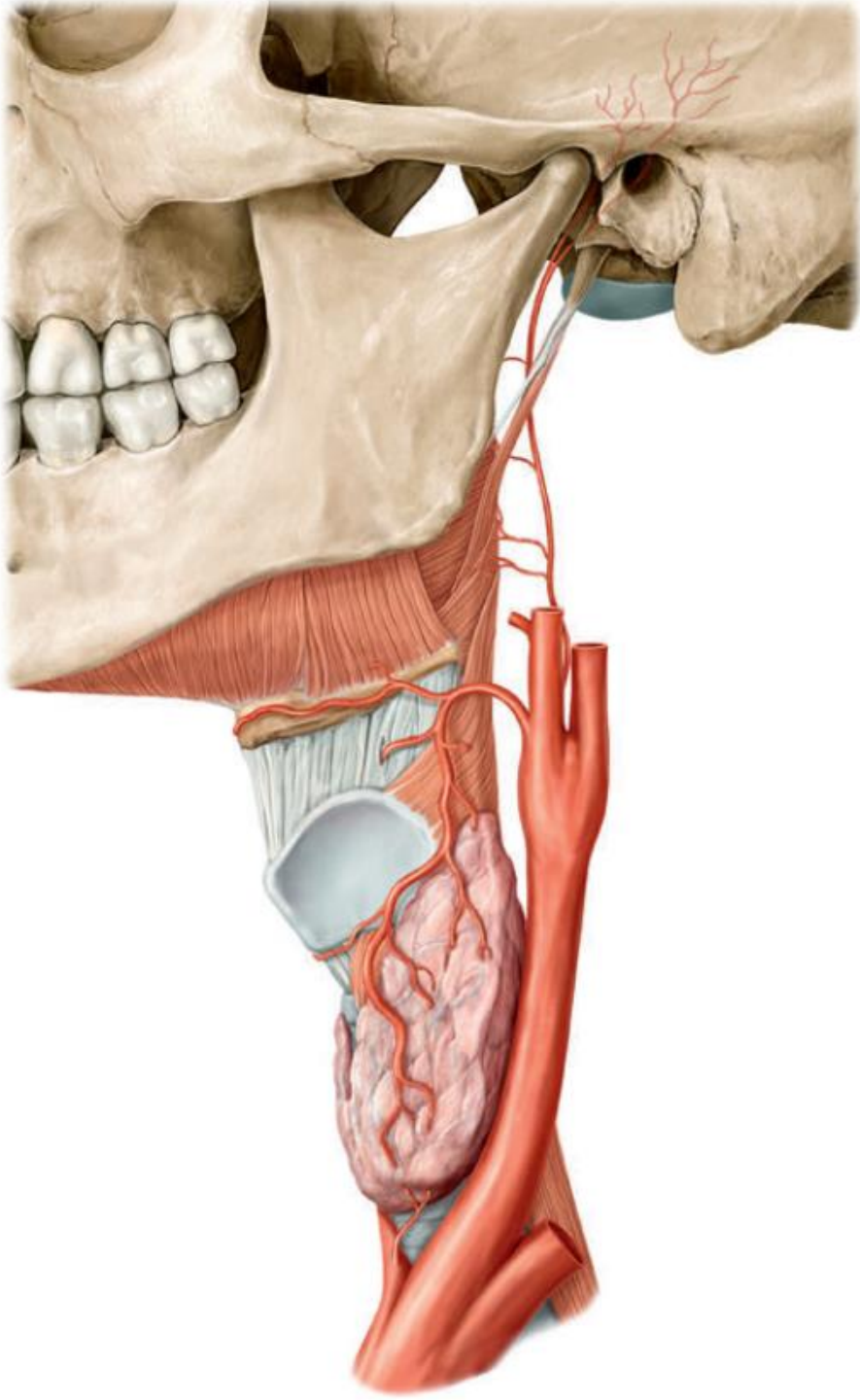
A. Faringea Ascendente



- **Ramas colaterales:**
 - A. Faríngea inferior
 - A. Prevertebrales
 - A Timpánica inferior
- **Ramas terminales:**
 - Meningea posterior

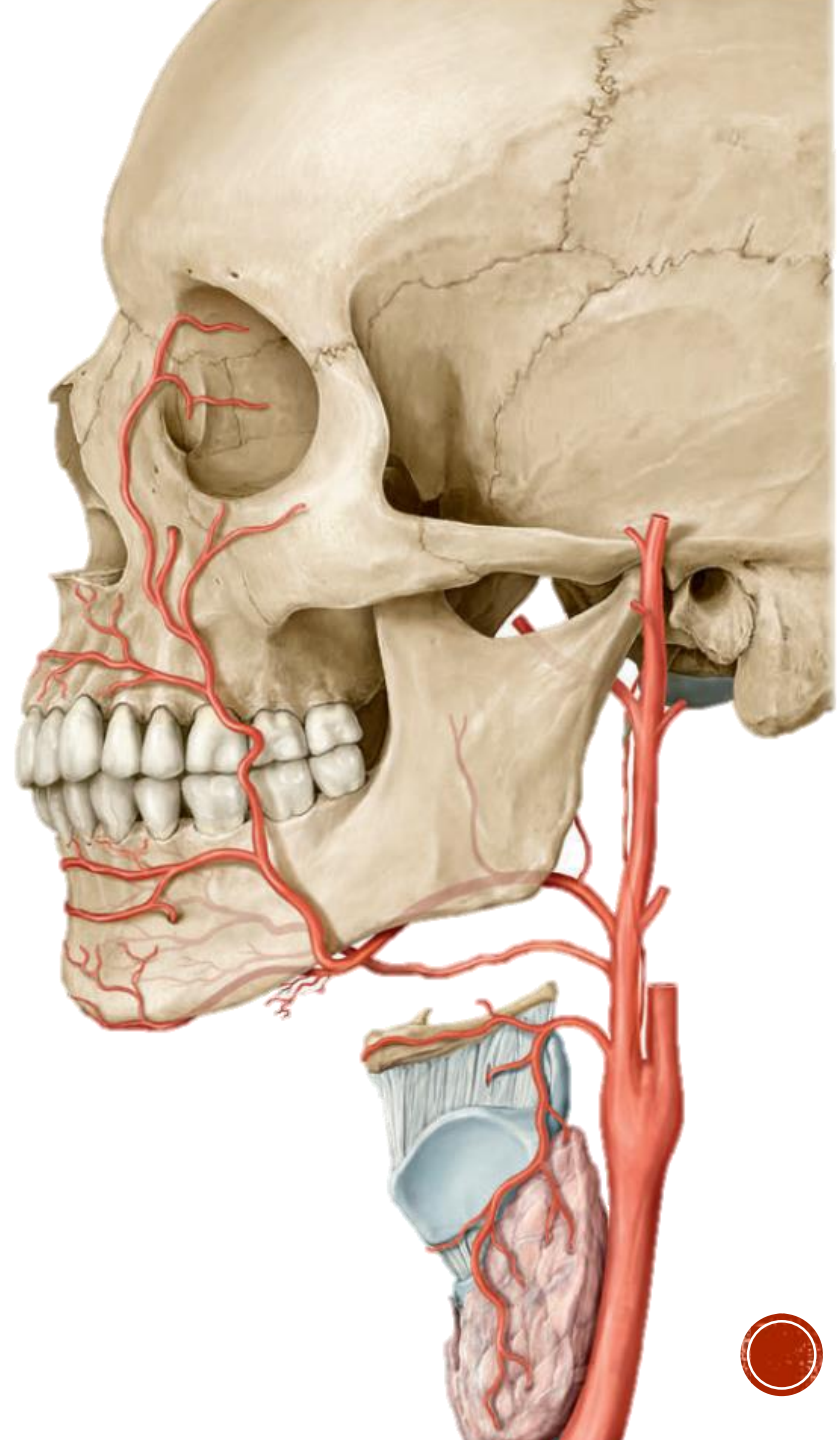


A. Faríngea Ascendente

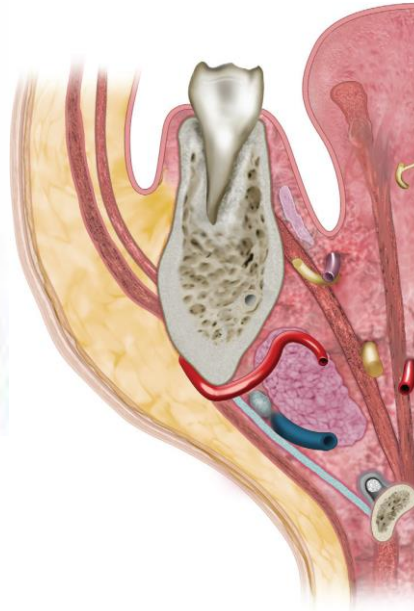


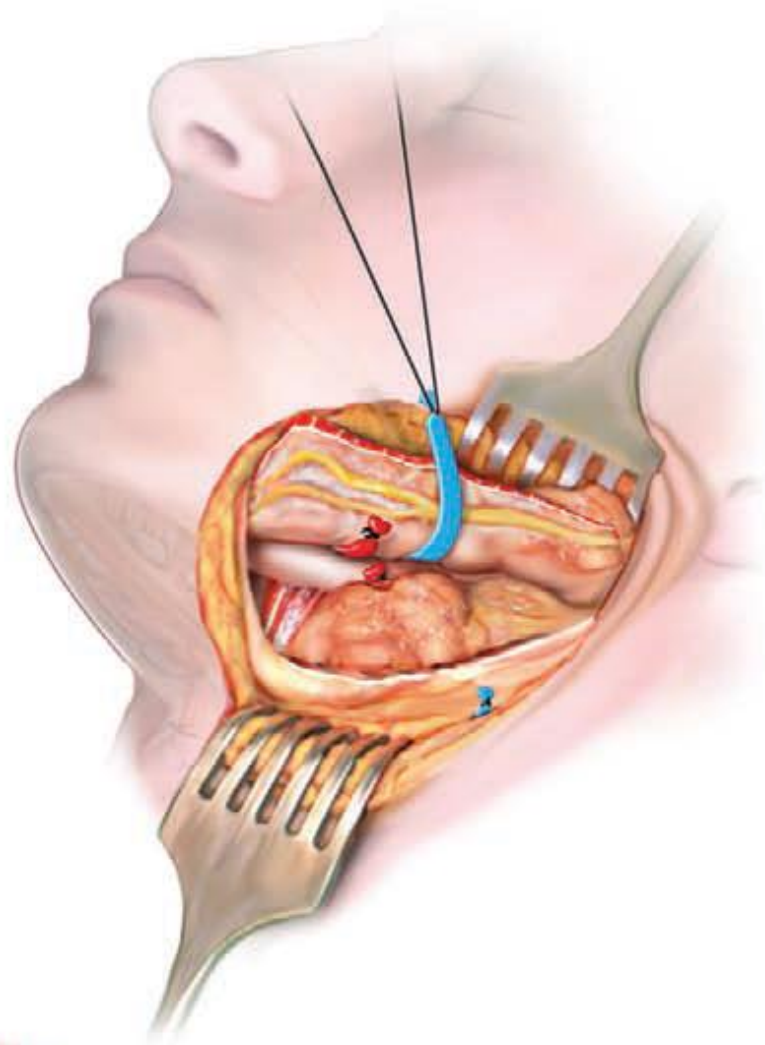
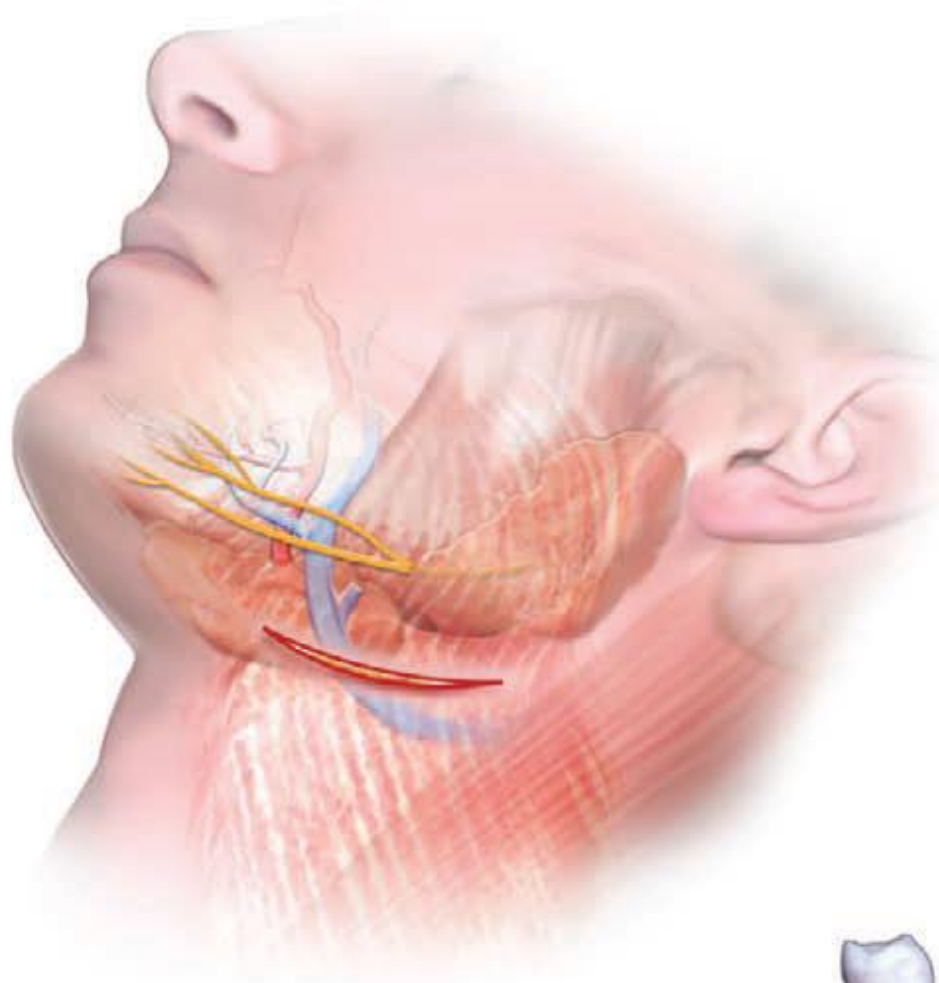
A. Facial

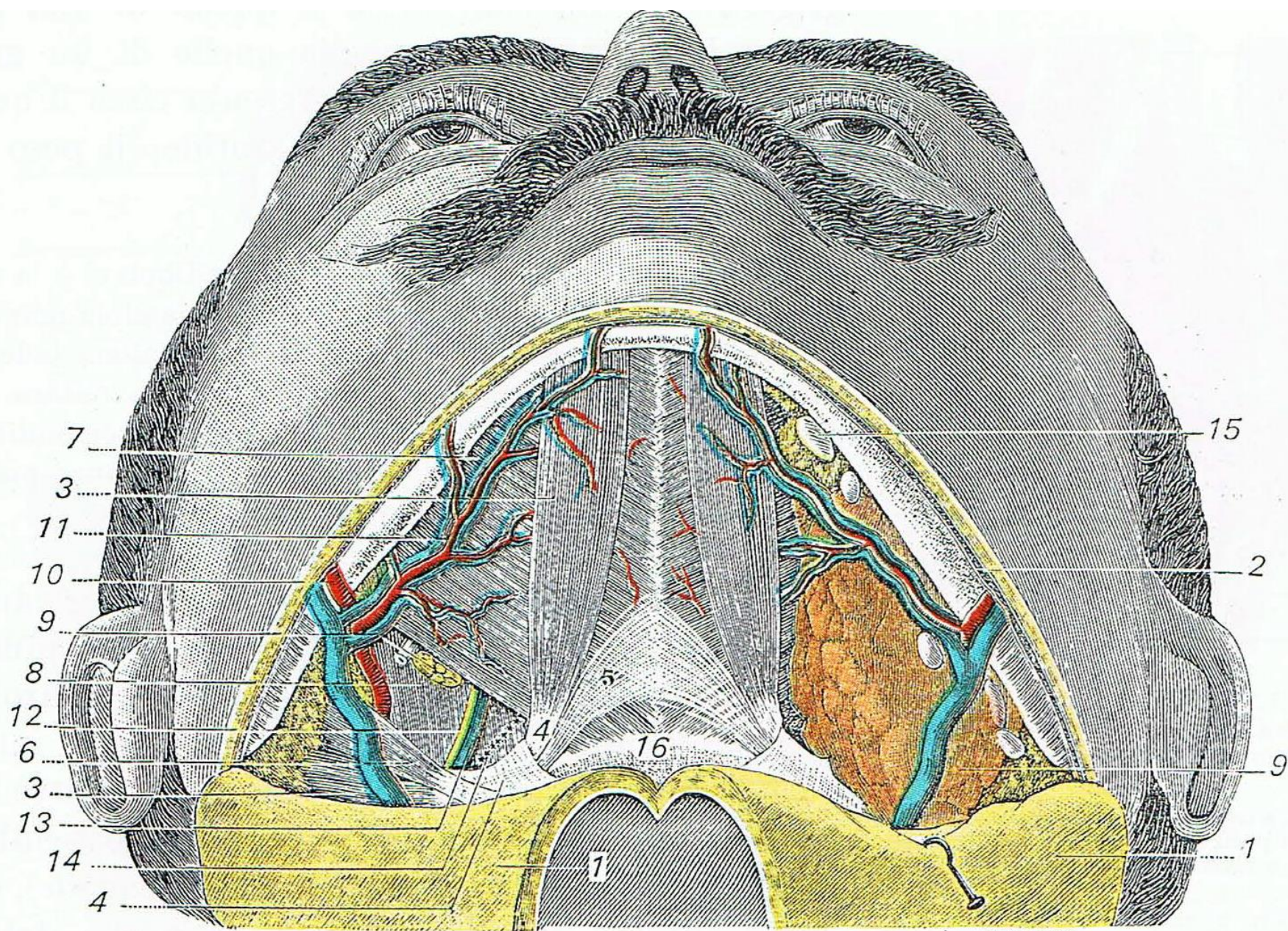
- **Ramas colaterales**
 - **Cervicales:**
 - A. Palatina Ascendente (tonsilar)
 - A. Pterigoidea
 - A. Submentoniana
 - A. Submandibular
 - **Faciales**
 - A. Maseterica (inf)
 - A. Labial Superior (A septo nasal)
 - A. Labial Inferior
 - A. Nasal
- **Rama terminal:**
 - A. Angular



A. Palatina Ascendente



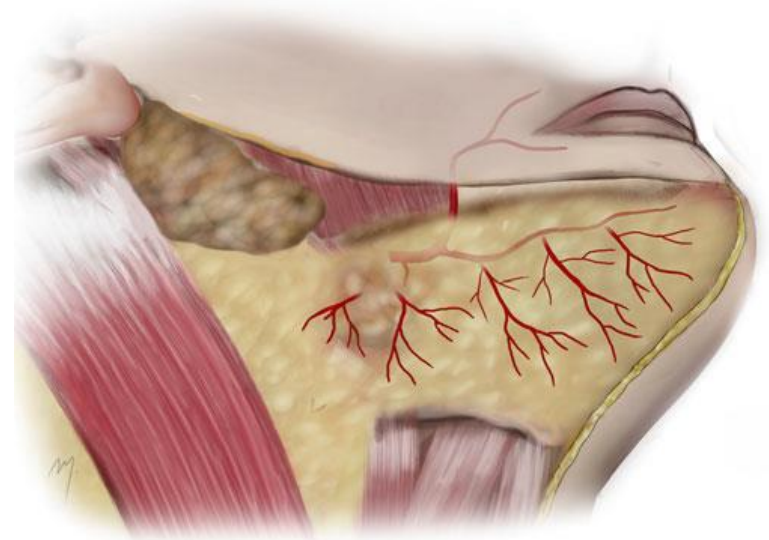
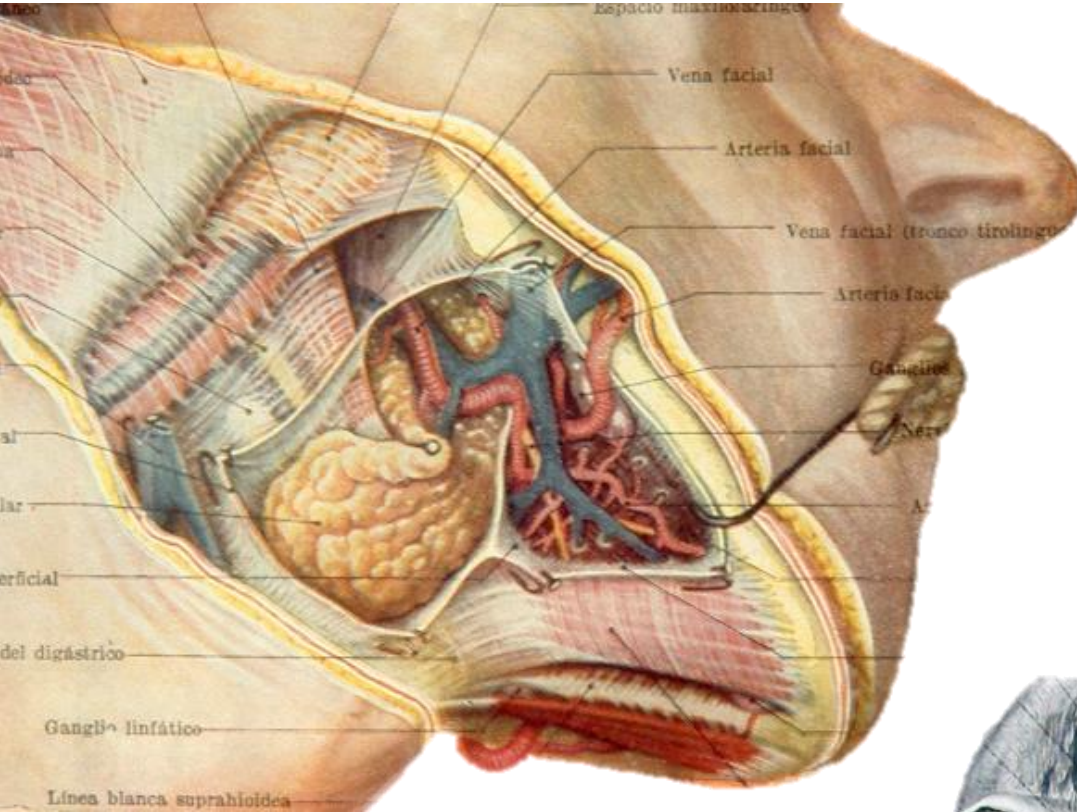




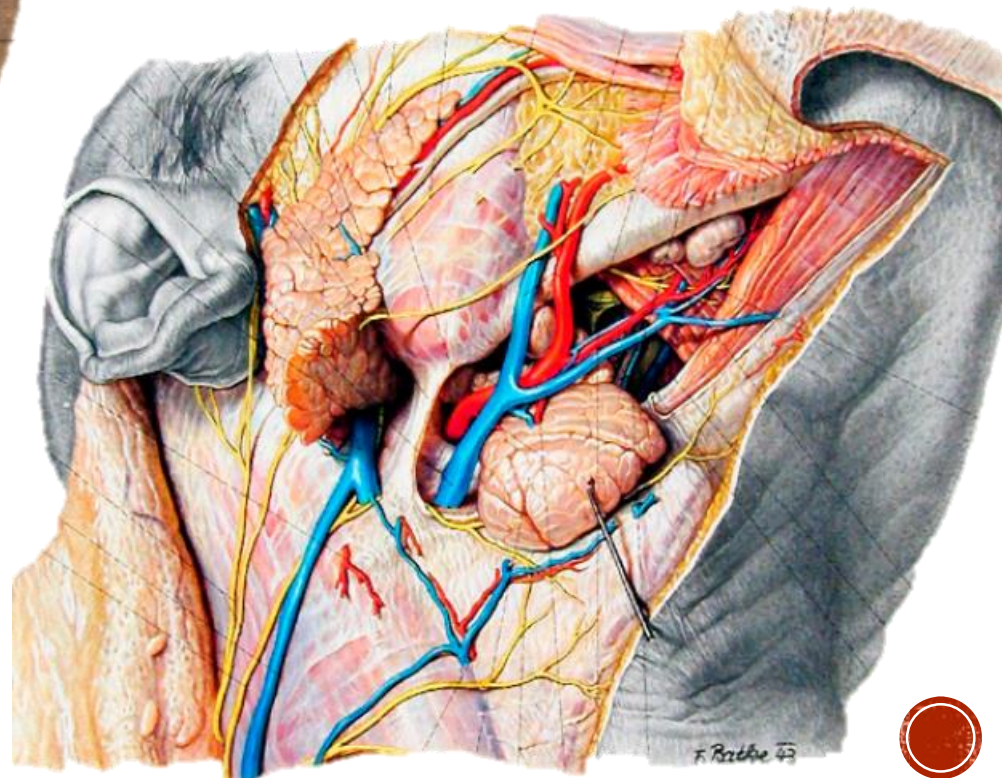
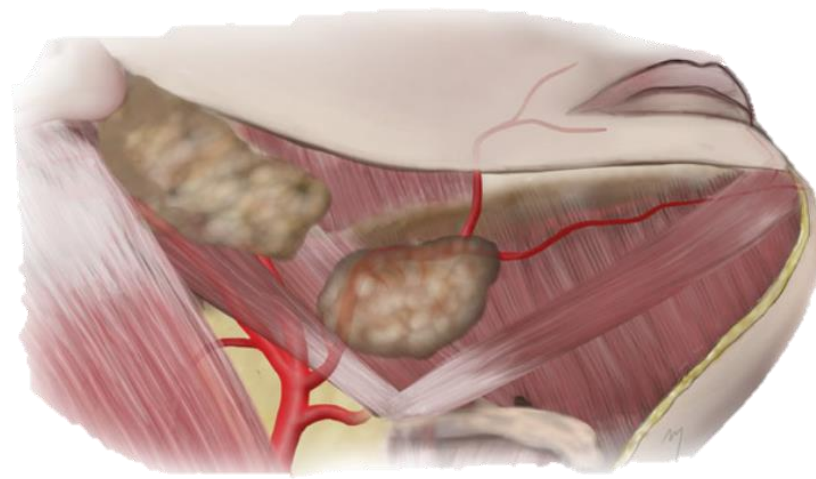
E.B

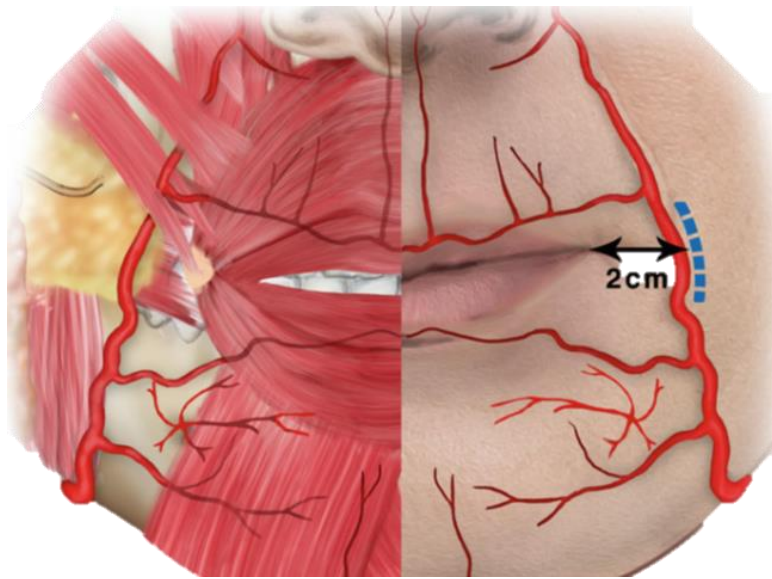
S.DUPRET



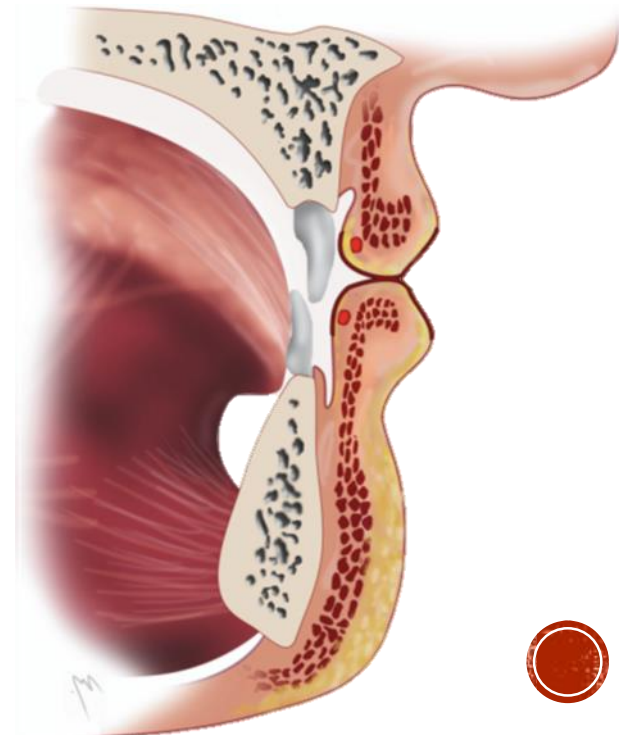
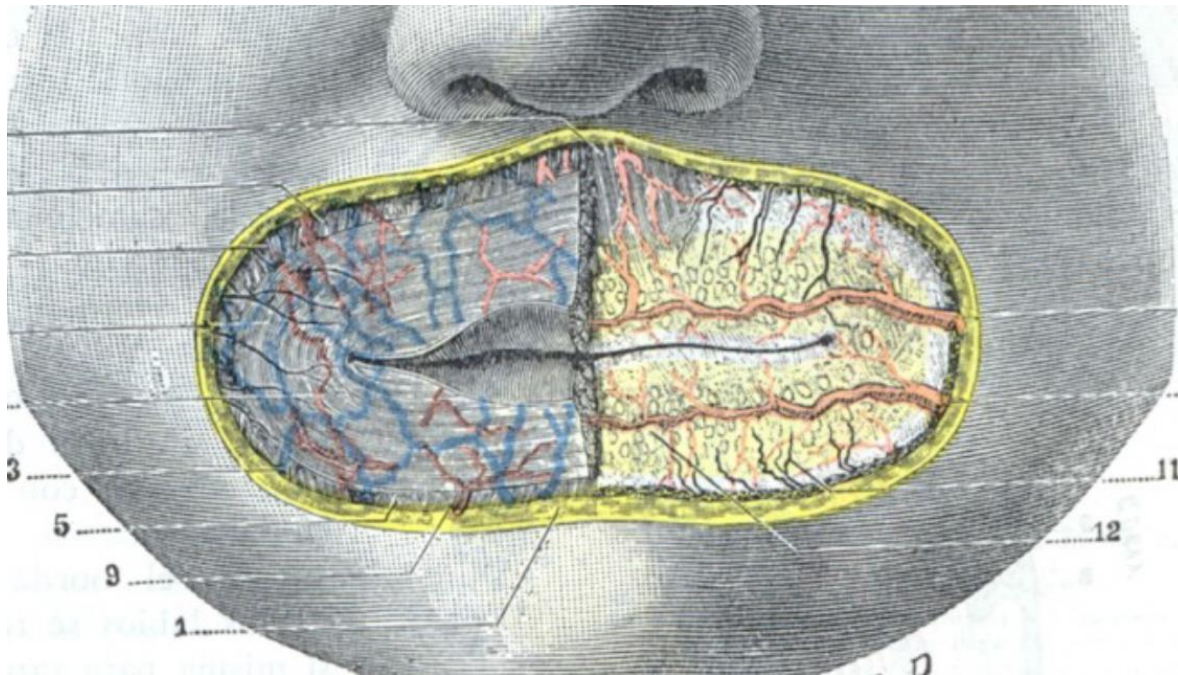


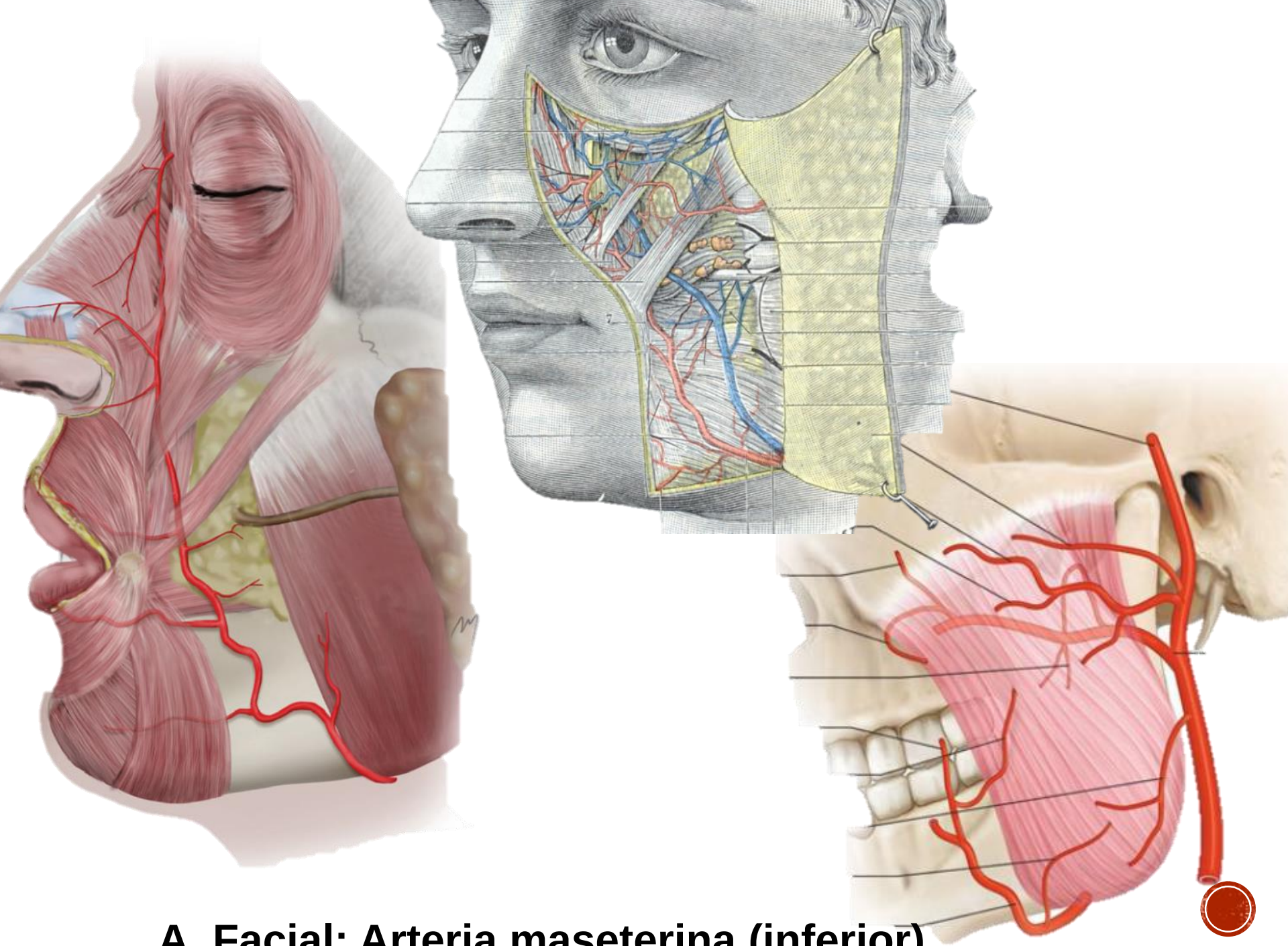
A. Facial : A sumentoniana





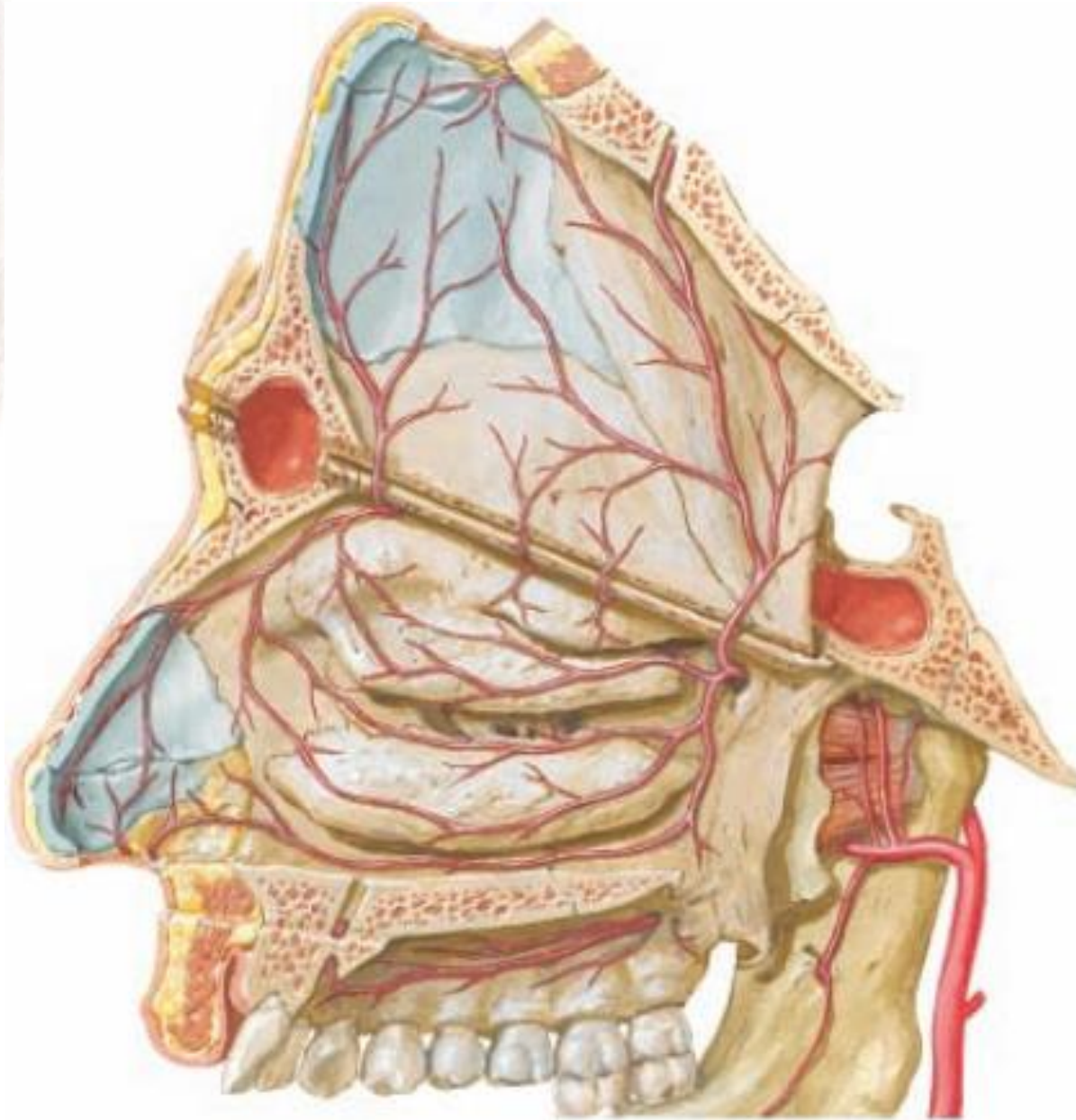
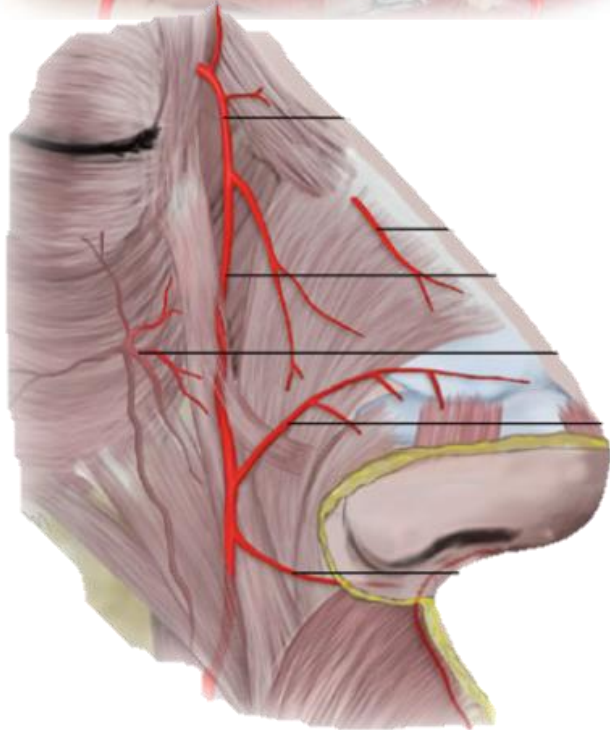
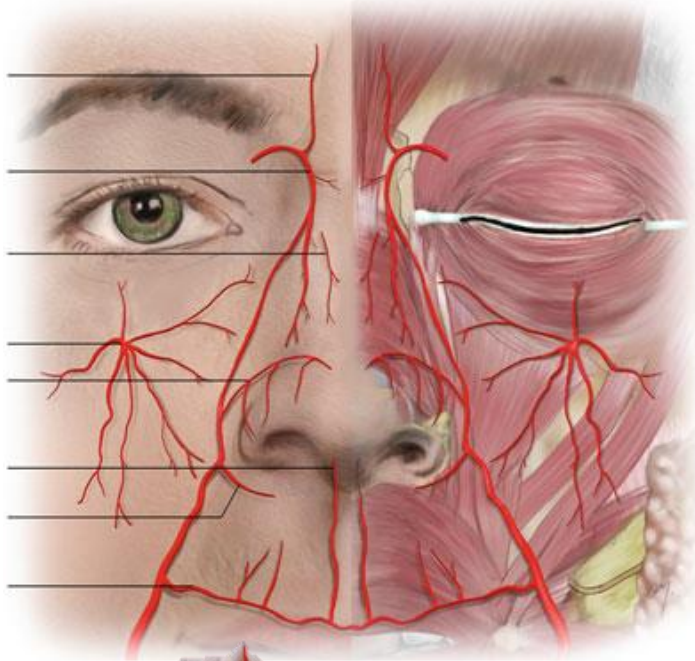
A. Facial: arterias labales





A. Facial: Arteria maseterina (inferior)

A. Facial: arteria nasal



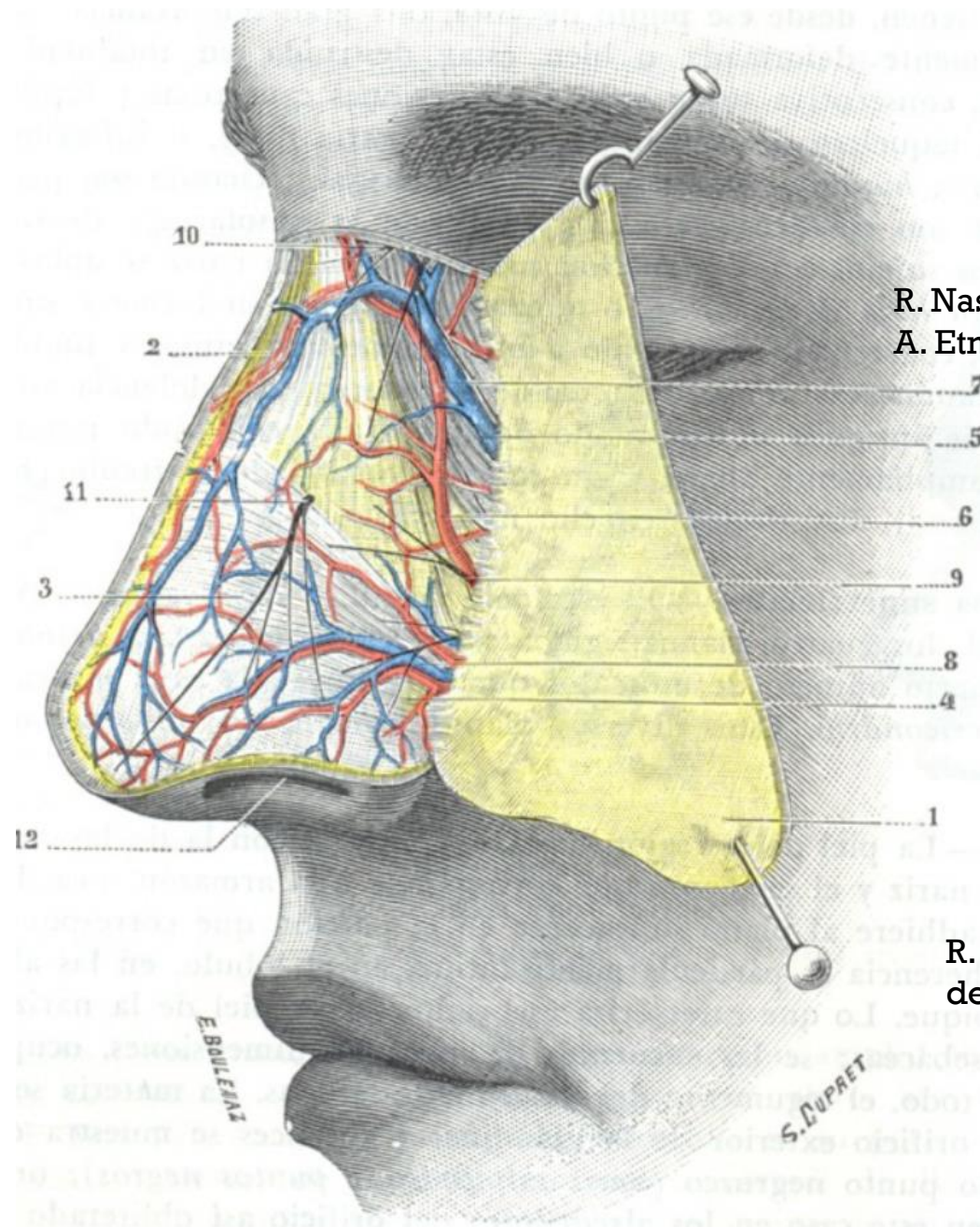
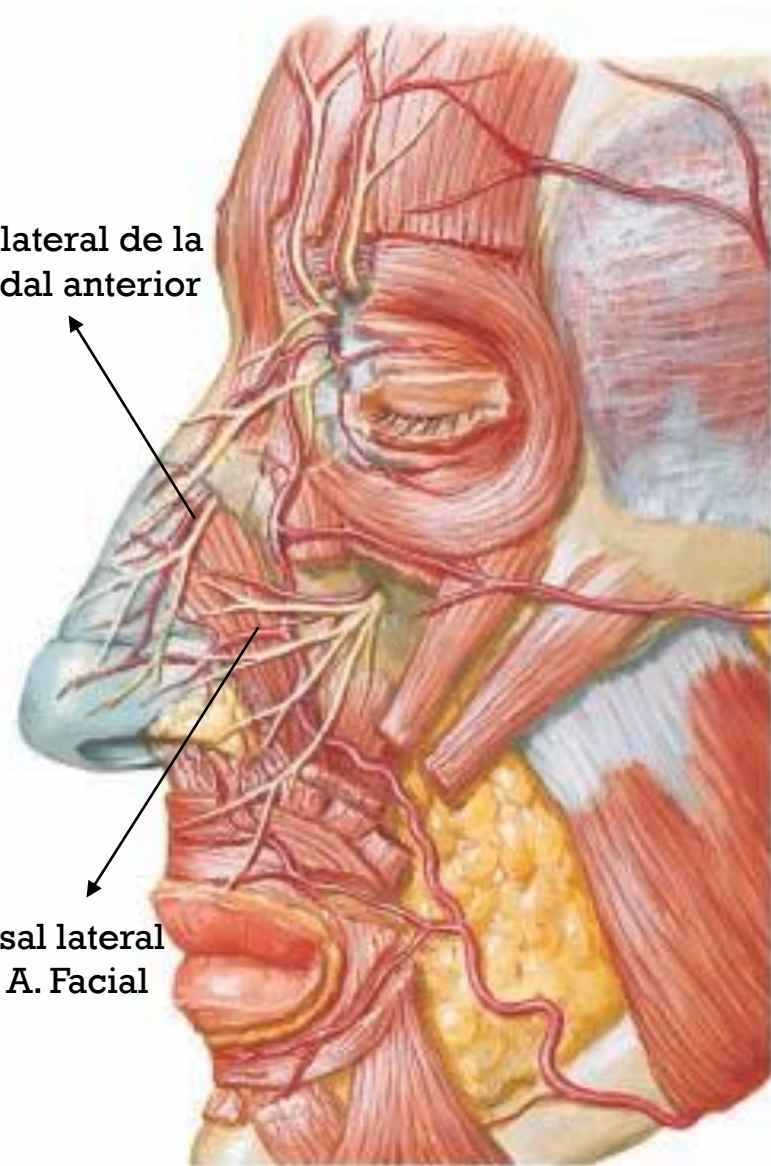


FIG. 152

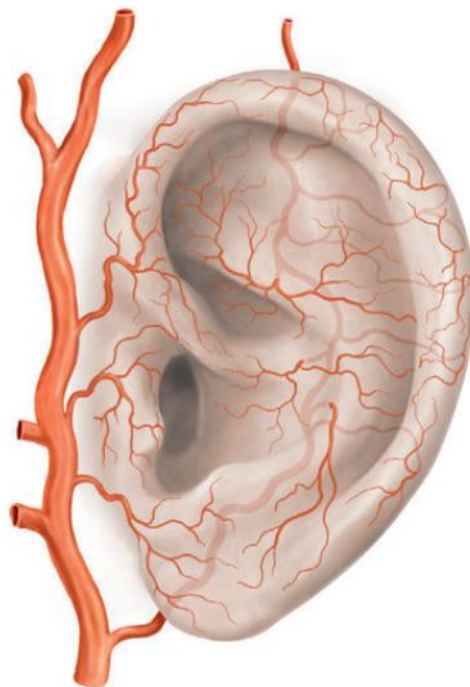
R. Nasal lateral de la
A. Etmoidal anterior



R. Nasal lateral
de la A. Facial



A. Temporal Superficial



Ramas colaterales:

- A. parotídeas
- Arteria transversa de la cara (masetero, buccinador)
- Arteria cigomático-orbitaria
- Temporal Media* (profunda posterior)
- A. Articular
- Auriculares

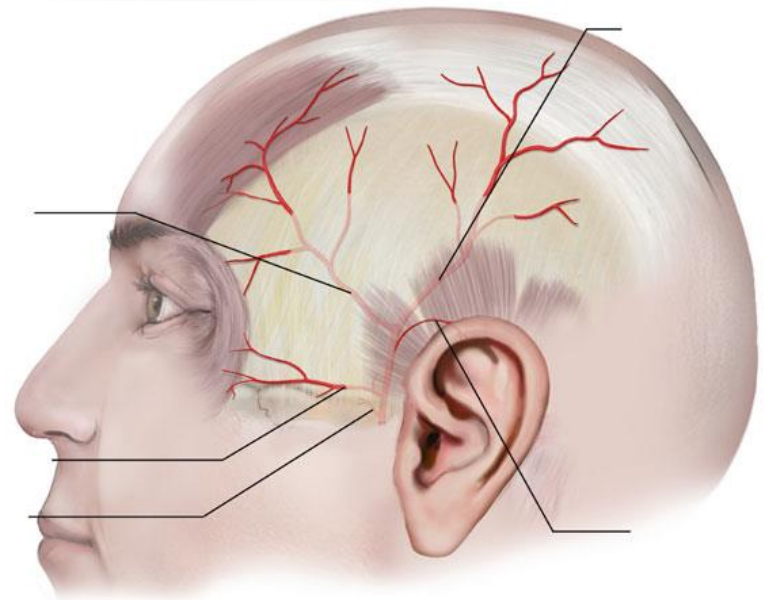
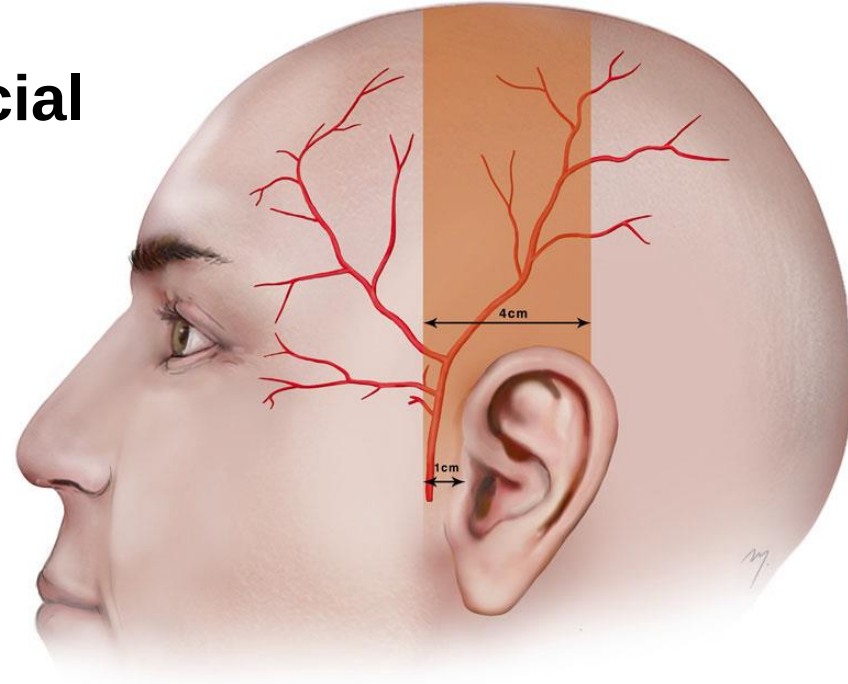
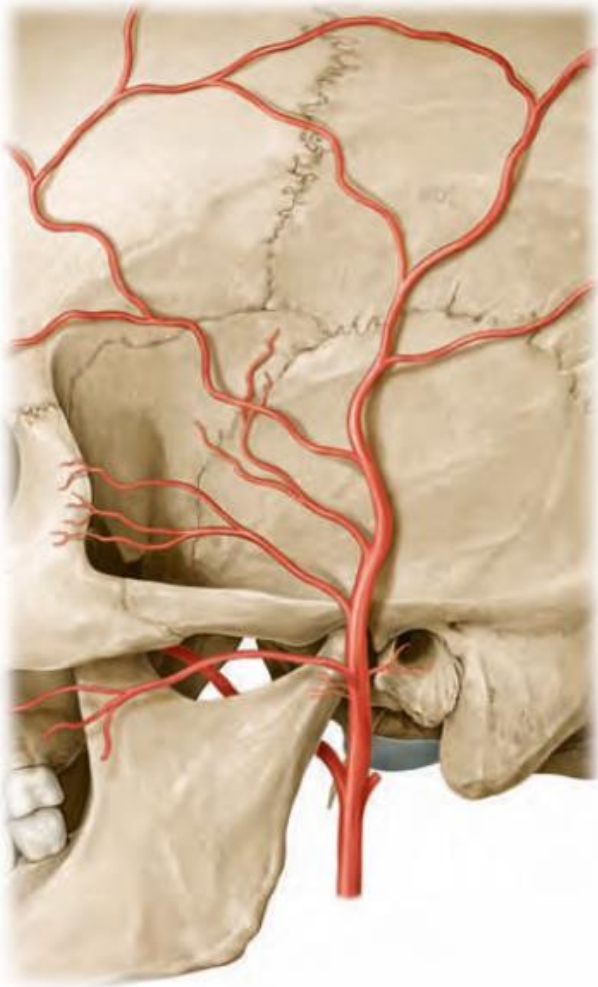


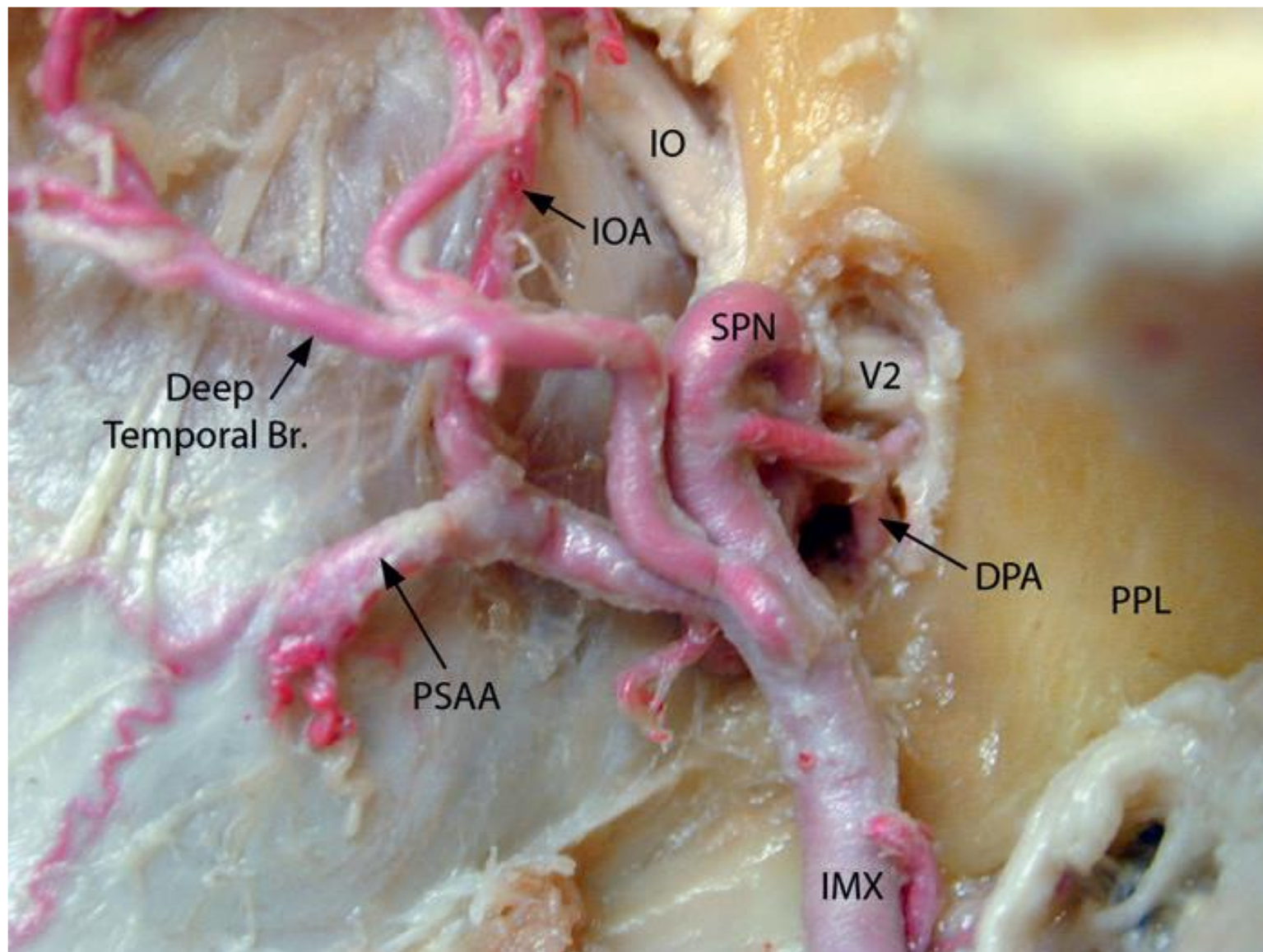
Terminal:

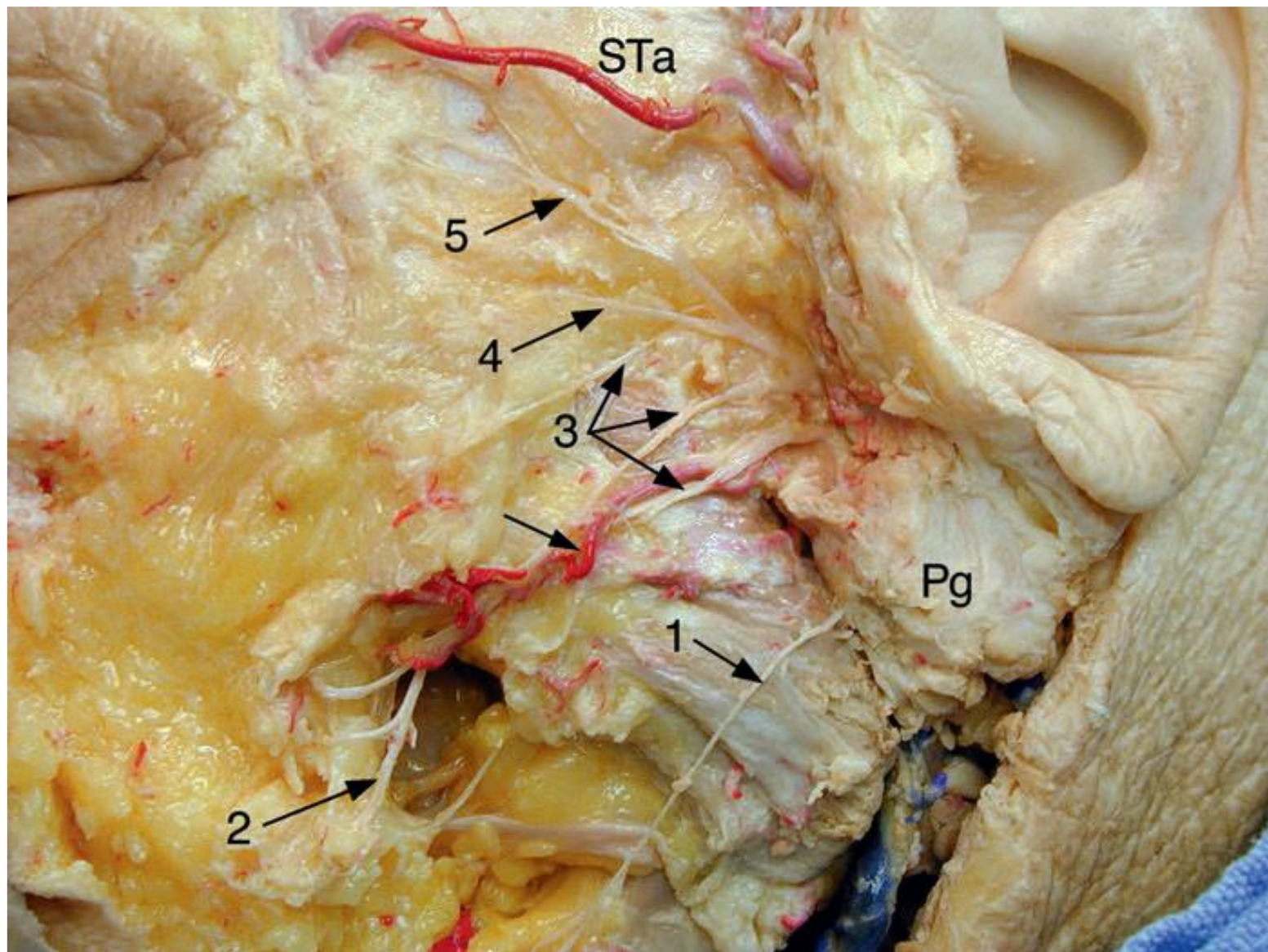
- Rama frontal (anterior)
- Rama parietal (posterior)



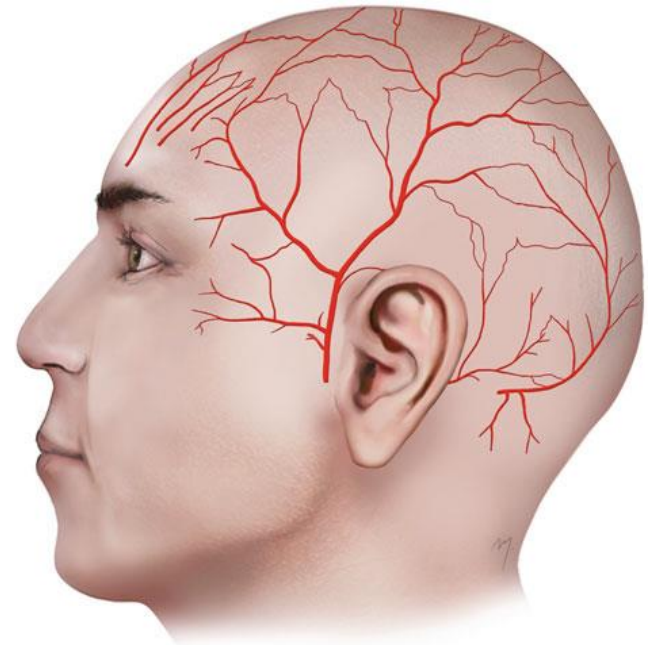
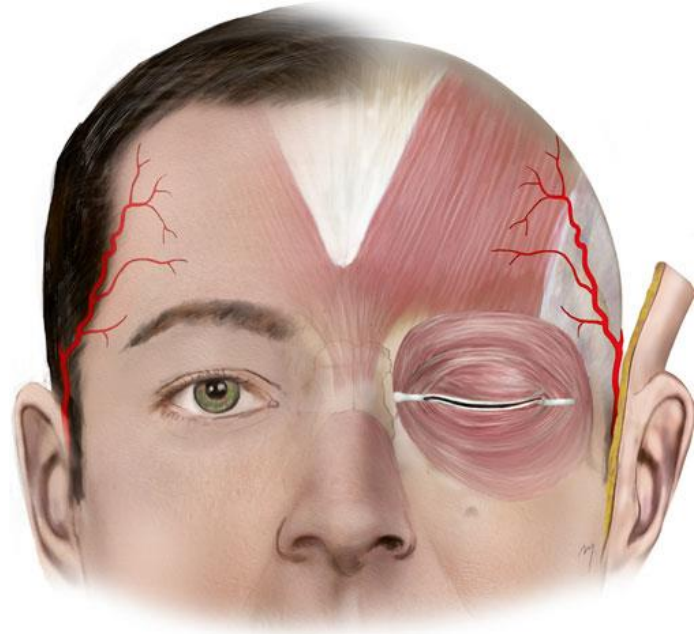
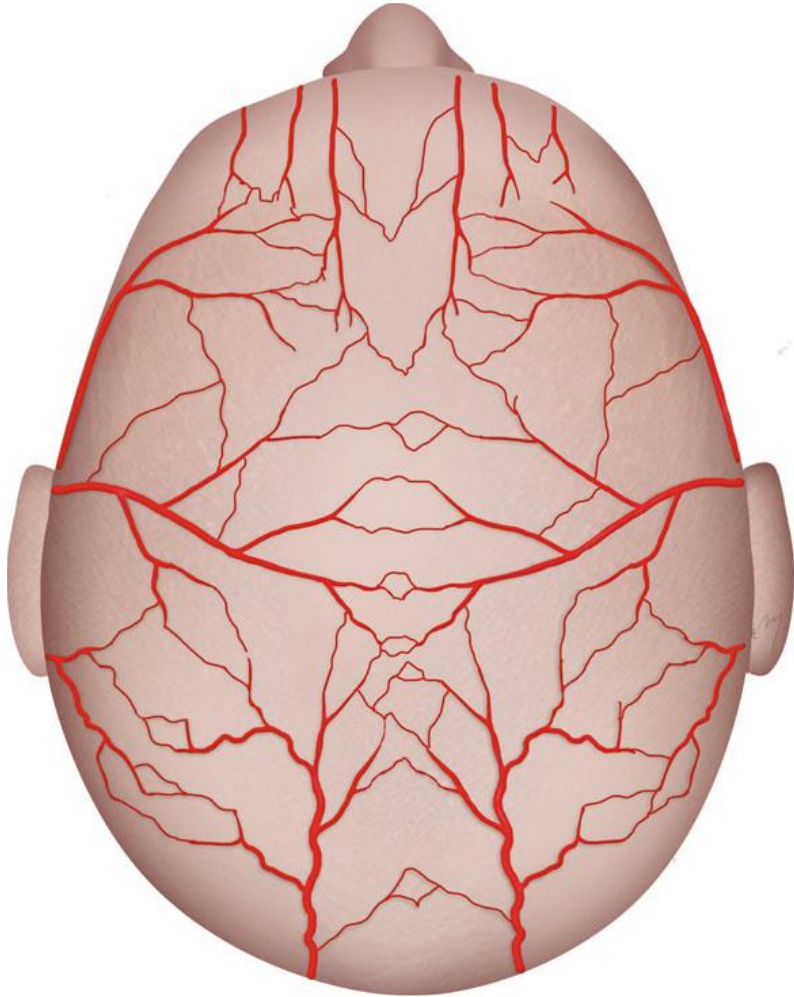
A. Temporal Superficial

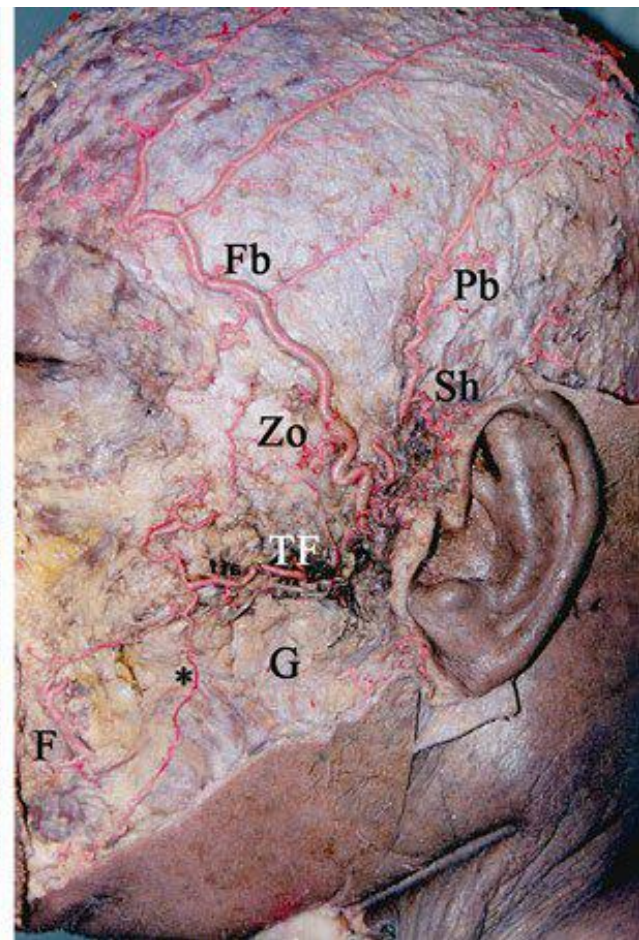
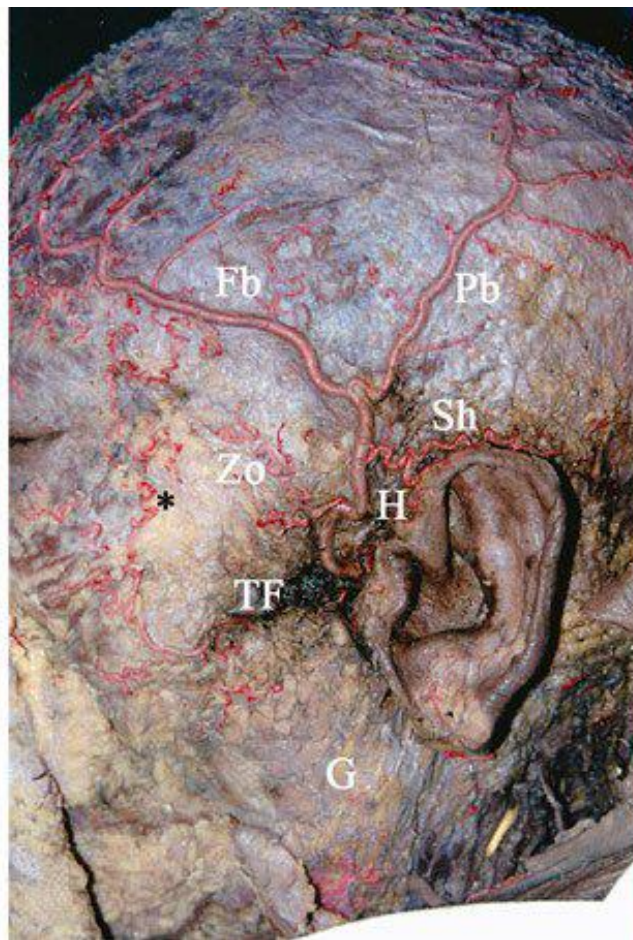
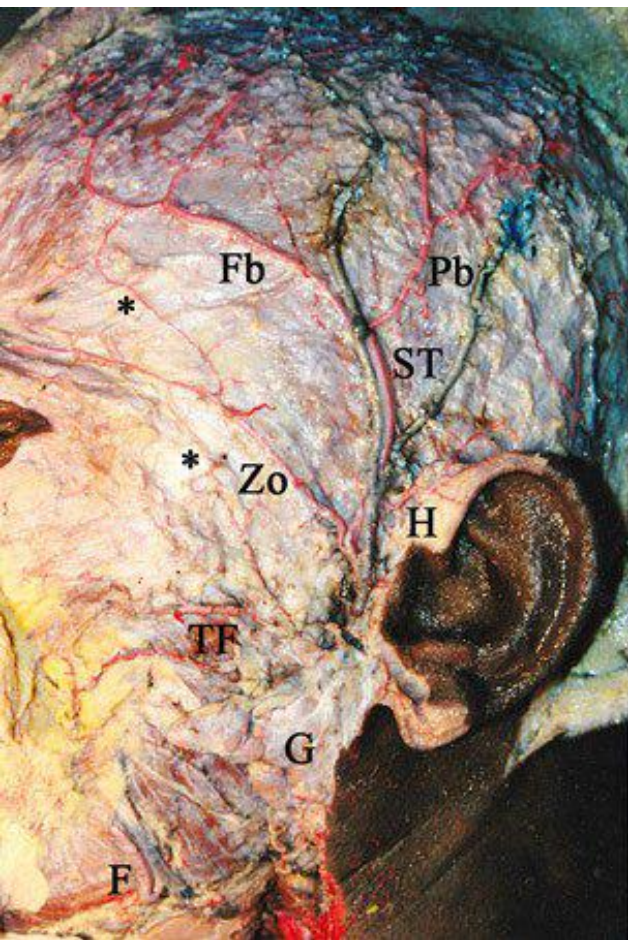


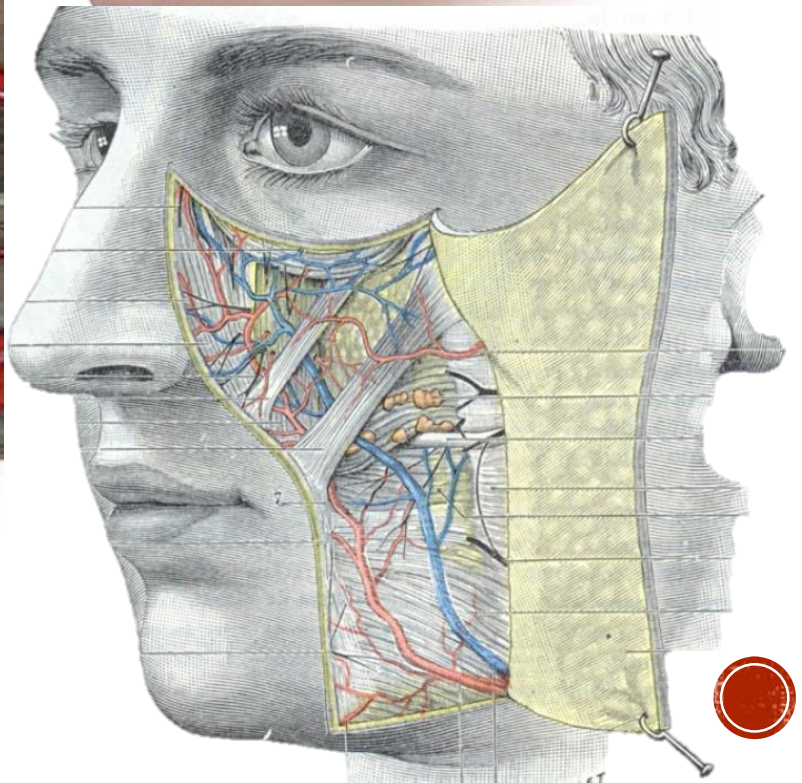
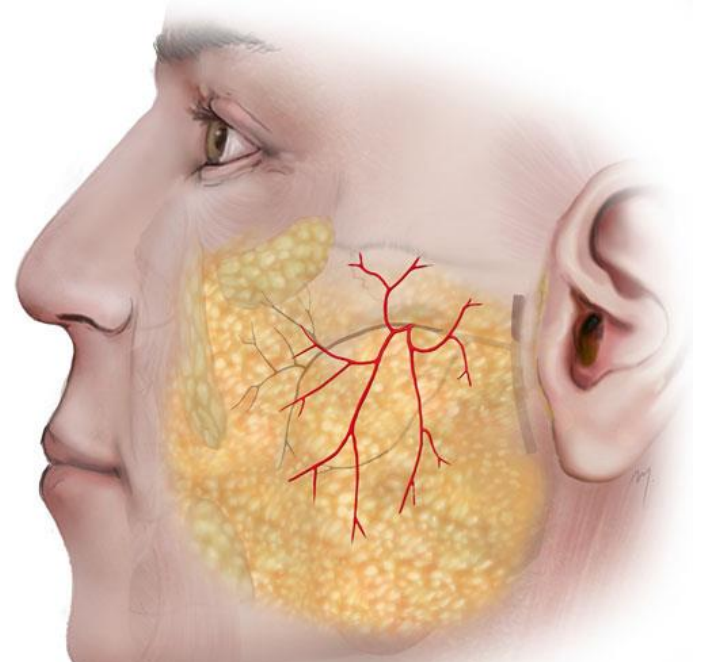
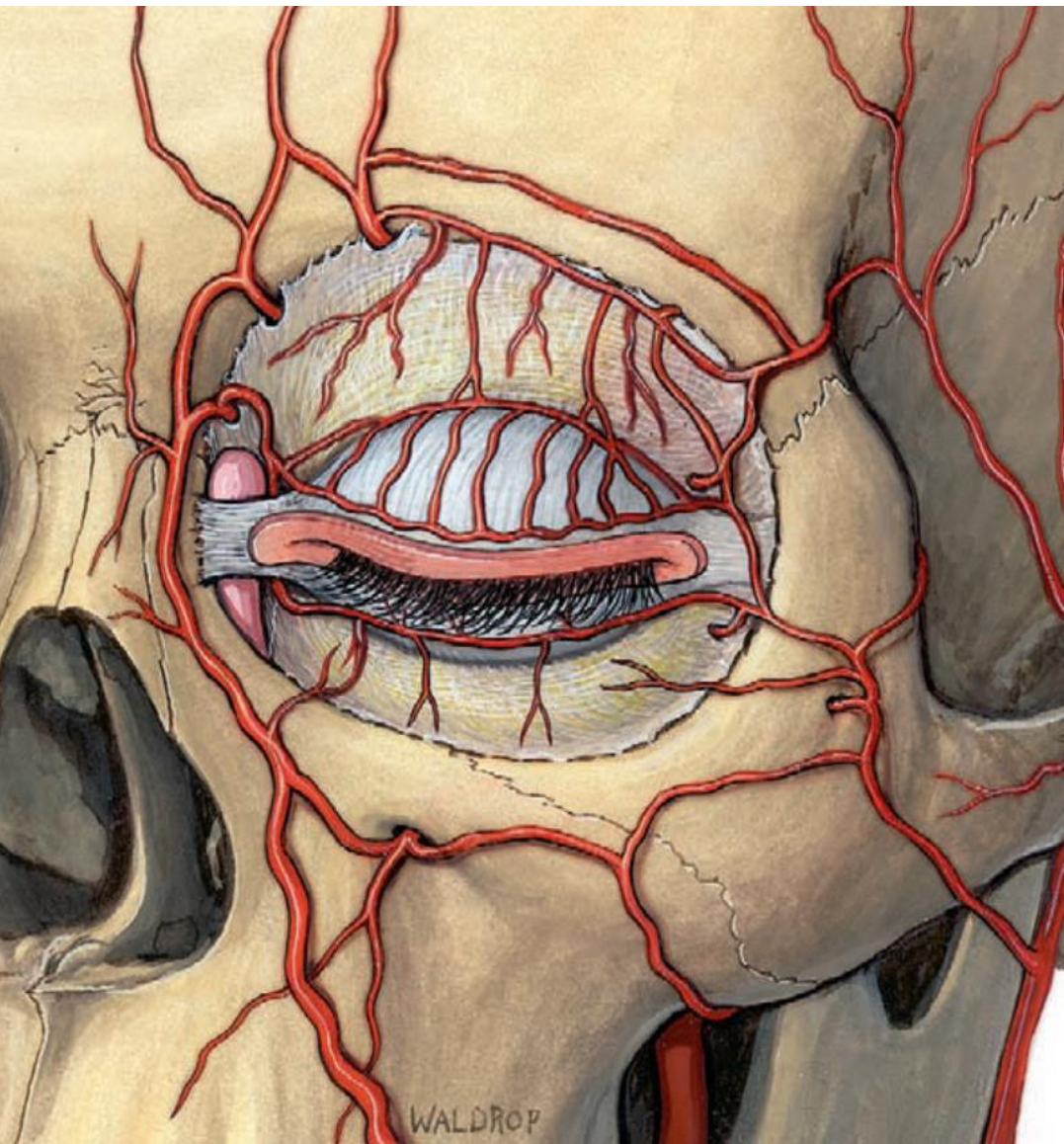




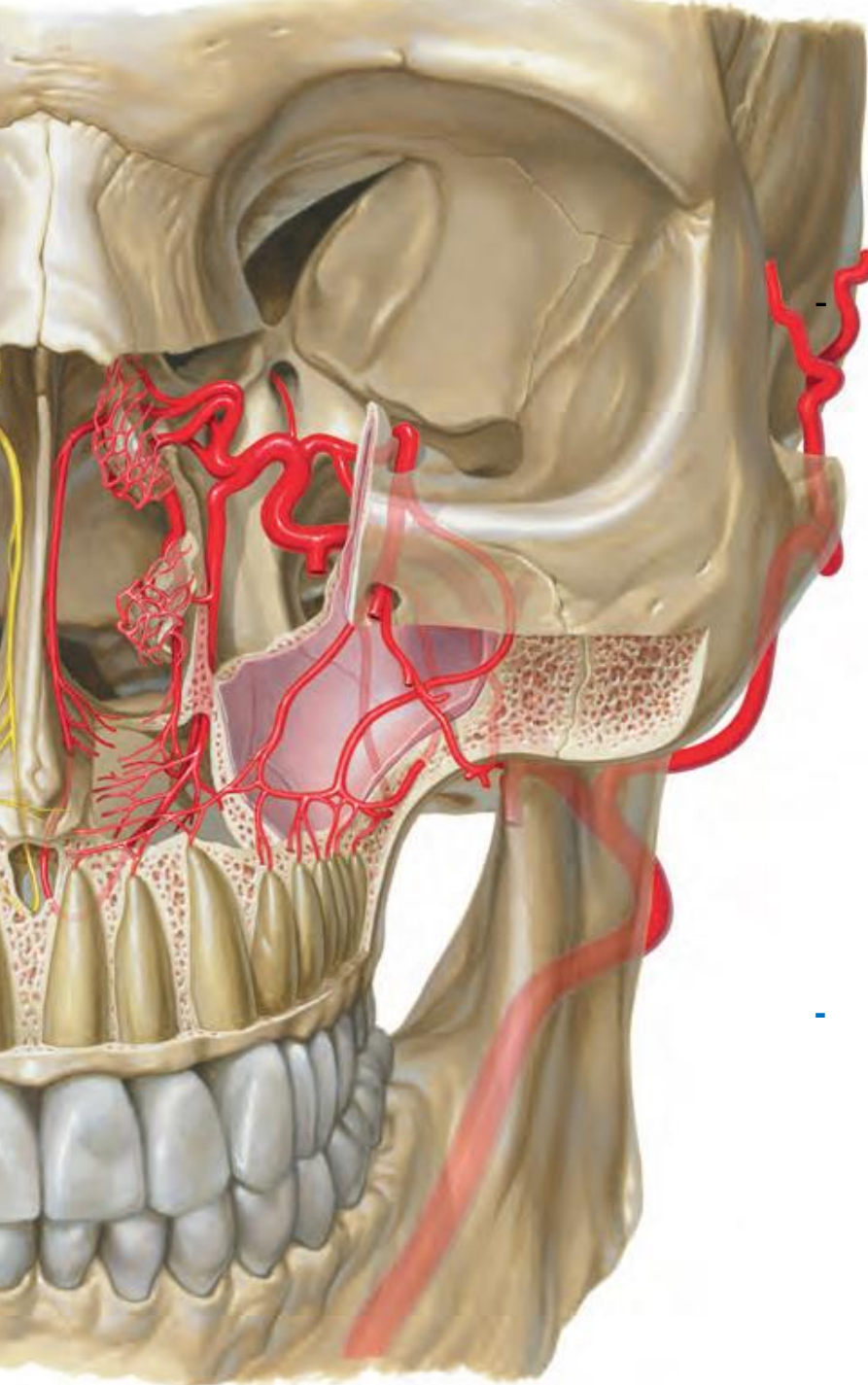
A. Temporal Superficial







A. Maxilar



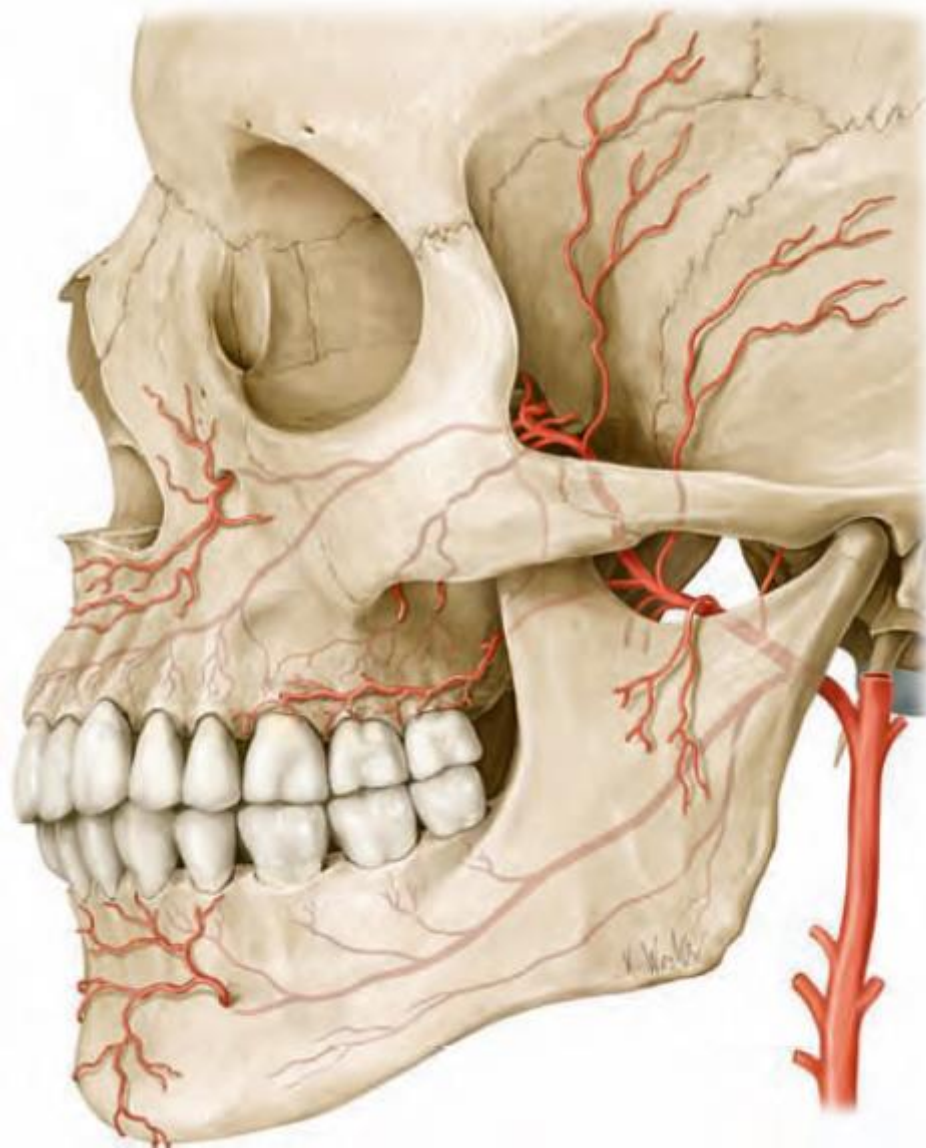
- 14 Ramas colaterales:

- A. Auricular profunda
- A. Timpanica Anterior
 - A. Meningea Media
 - A. Meningea accesoria (pterigomeningea)
 - A. Temporal Profunda Posterior
 - A. Temporal Profunda Anterior (Rr pterigoideas)
 - A. Alveolar Inferior
 - A. Bucal
 - A. Pterigoidea
 - A. Maseterina
 - A. Palatina Descendente
 - A. Alveolares Superiores posteriores
 - A. Infraorbitaria
 - A. Faríngea (pterigopalatina)
 - A. del canal pterigoideo

- Ramas terminales:

- A. Esfenopalatina (nasales posteriores laterales, Rr septales posteriores)





ales al pterigoideo lateral

- A. Auricular profunda

Timpanica Anterior

- A. Meningea Media
- A. Meningea accesoria (pterigomeningeal)

es al pterigoideo lateral

- A. Alveolar Inferior
- A. Maseterina
- A. Temporal Profunda Posterior
- A. Pterigoideas

es al pterigoideo lateral

- A. Bucal
- A. Temporal Profunda Anterior (Rr pterigoideas)
- A. Alveolares Superiores posteriores
- A. Infraorbitaria

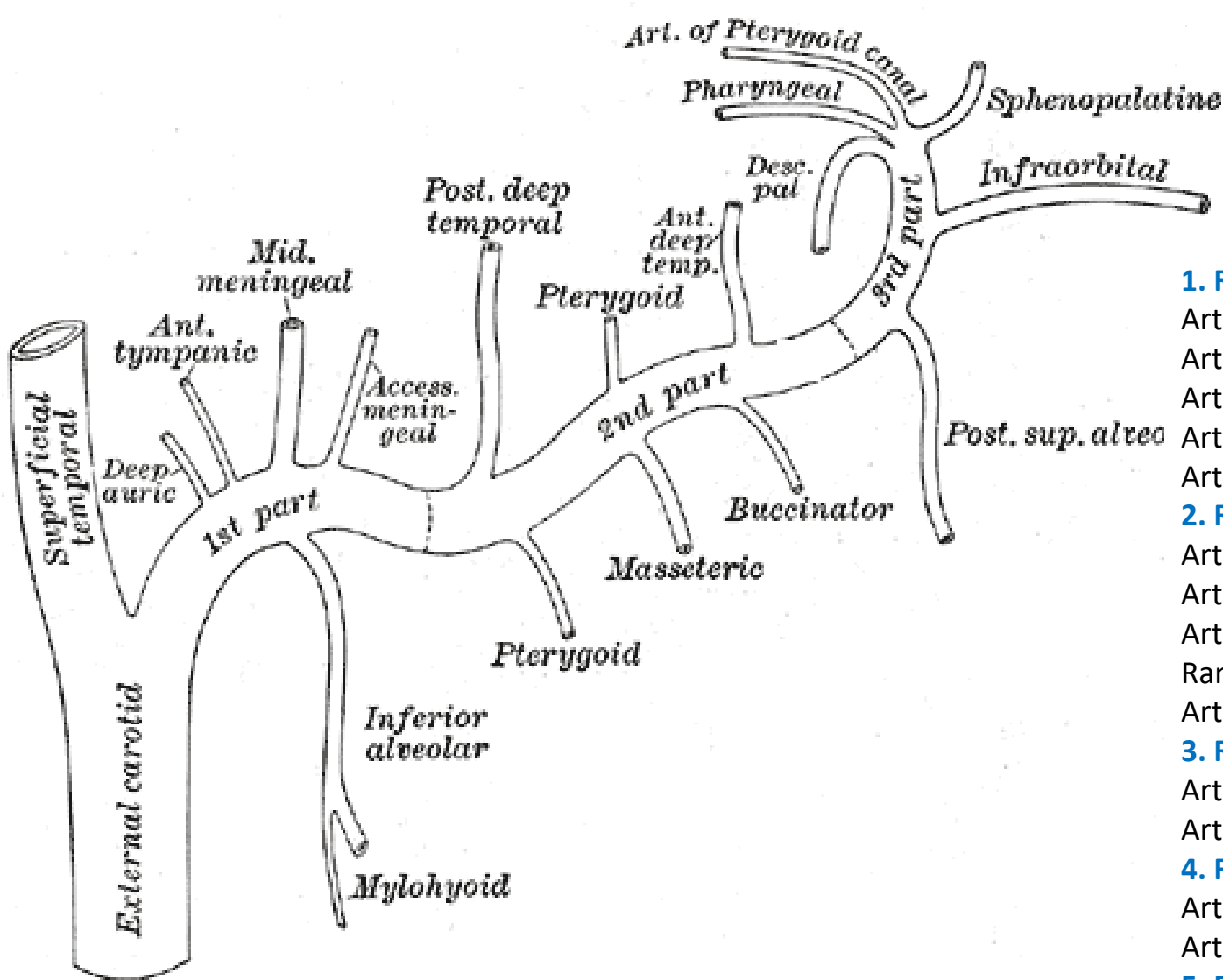
sa Pterigopalatina

- A. Palatina Descendente
- A. del conducto pterigoideo
- A. Faríngea (pterigopalatina)

Ramas terminales:

- A. Esfenopalatina (nasales posteriores laterales, Rr septales posteriores)





1. Ramas ascendentes:

- Arteria timpánica anterior.
- Arteria meníngea media.
- Arteria meníngea accesoria.
- Arteria temporal profunda posterior.
- Arteria temporal profunda anterior.

2. Ramas descendentes:

- Arteria alveolar inferior.
- Arteria maseterina.
- Arteria bucal.
- Ramas pterigoideas.
- Arteria palatina descendente.

3. Ramas anteriores:

- Arteria alveolar postero-superior.
- Arteria infraorbitaria.

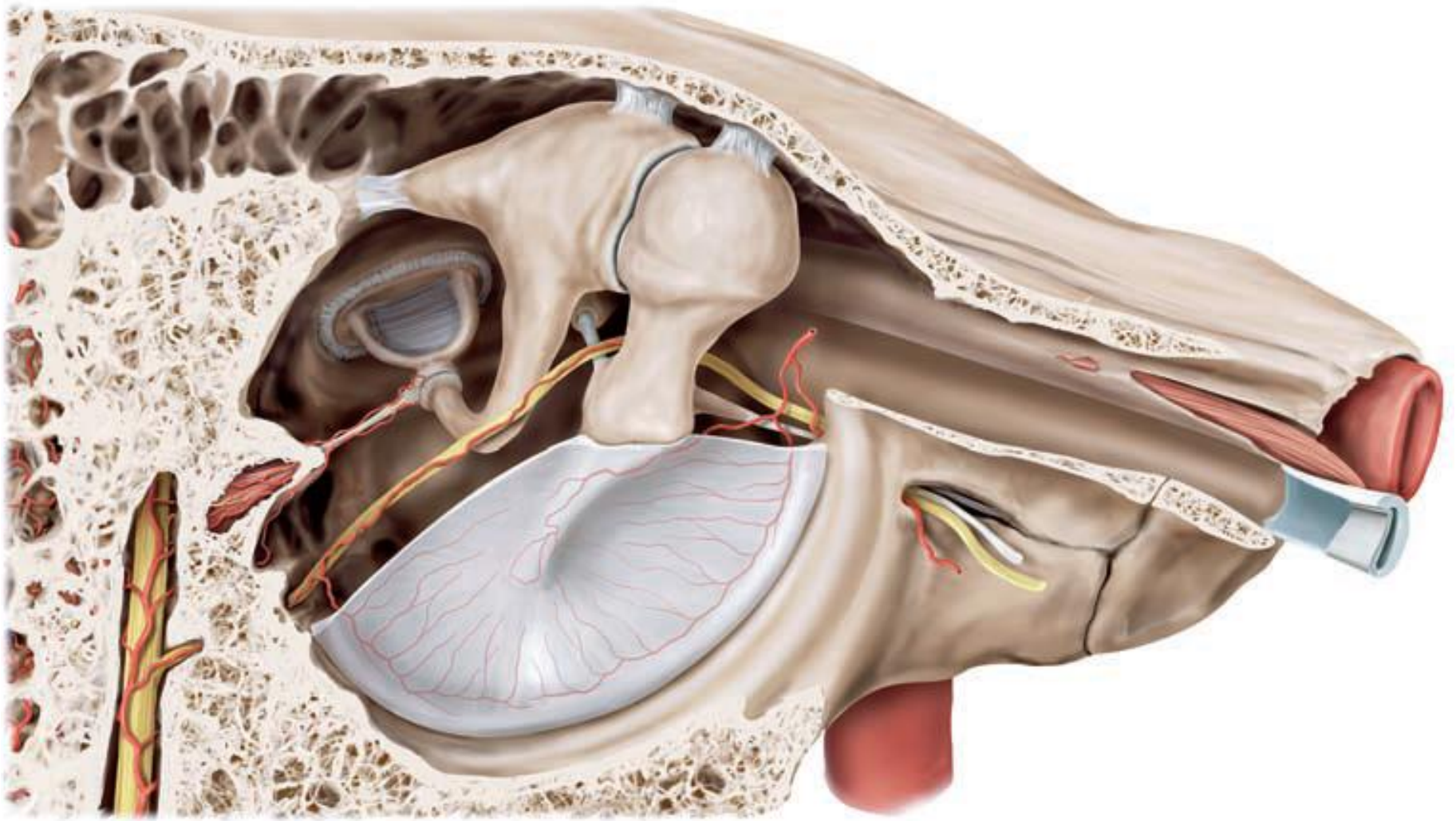
4. Ramas posteriores.

- Arteria del conducto pterigoideo.
- Arteria pterigopalatina(Rama faríngea)

5. Rama Terminal:

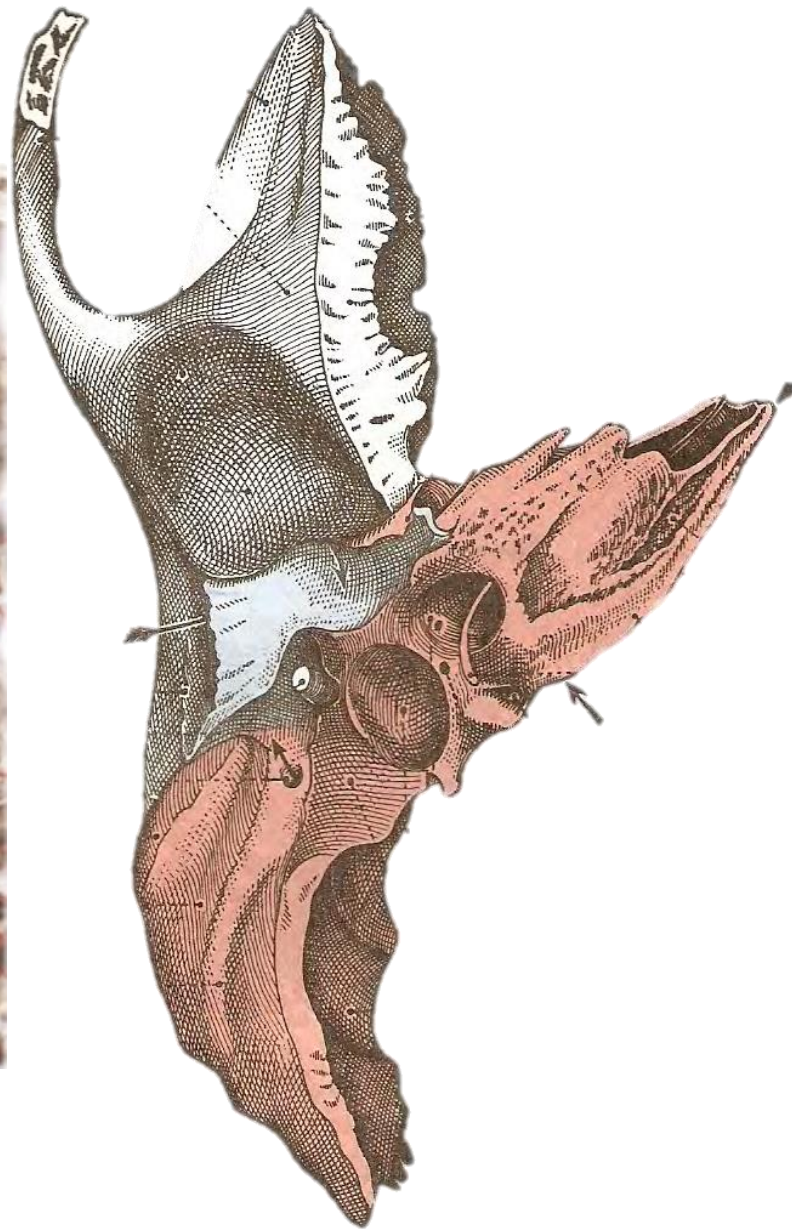
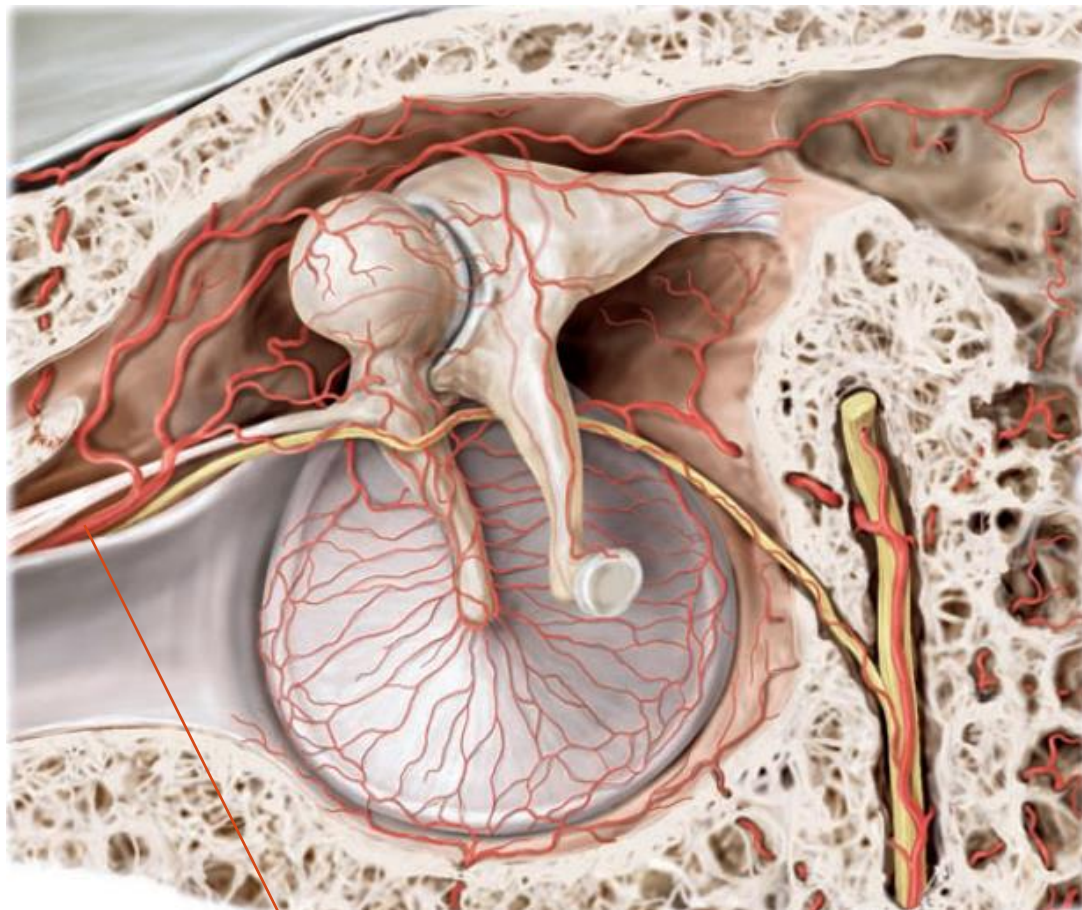
- Arteria esfenopalatina:
- Ramas septalesposteriores.
- Arterias nasales posteriores laterales.





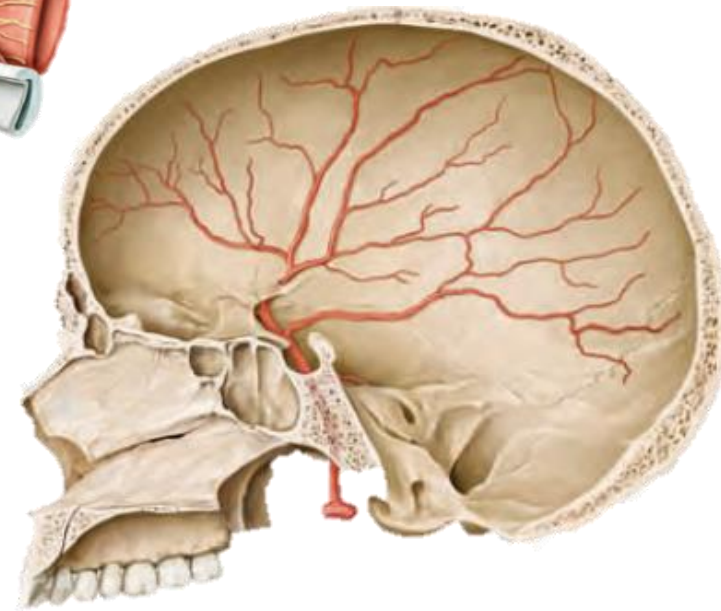
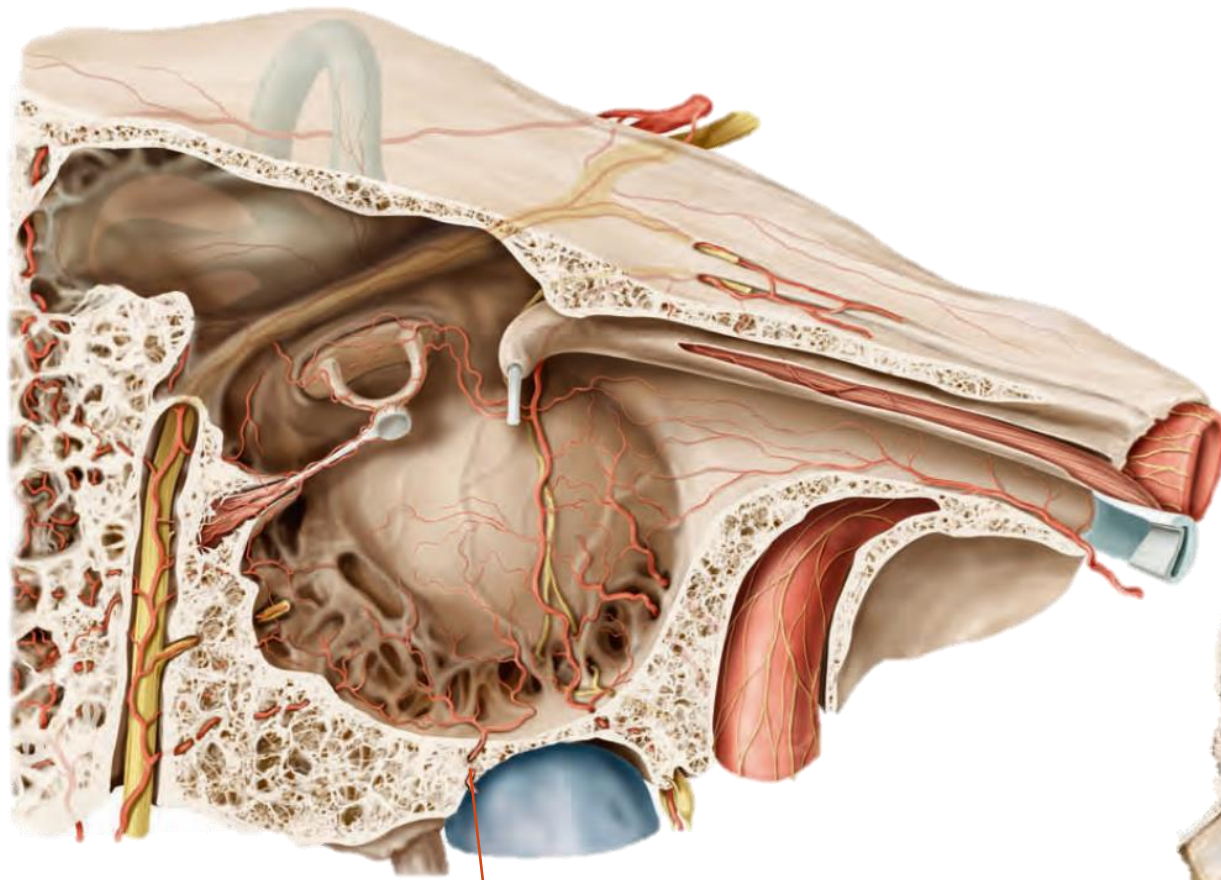
A. Maxilar: A. Timpánica Anterior





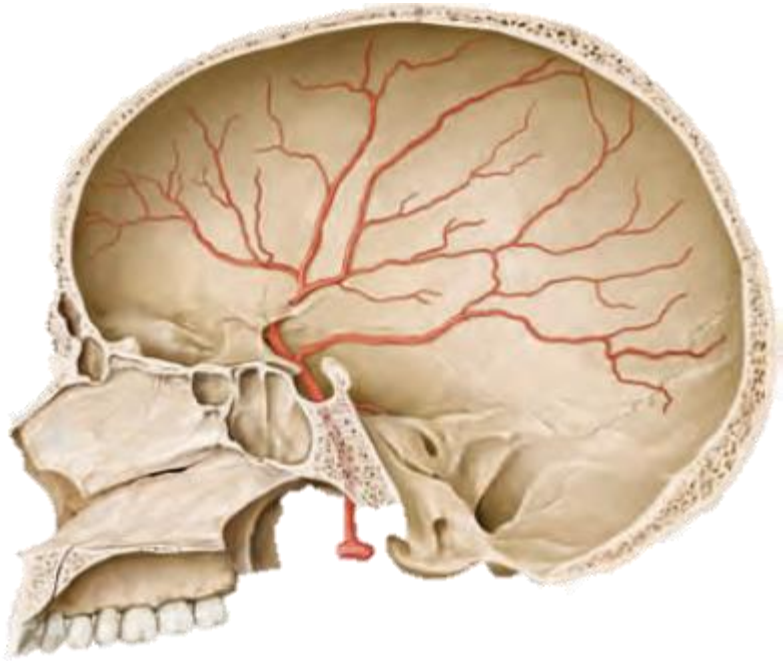
A. Maxilar: A. Timpánica Anterior



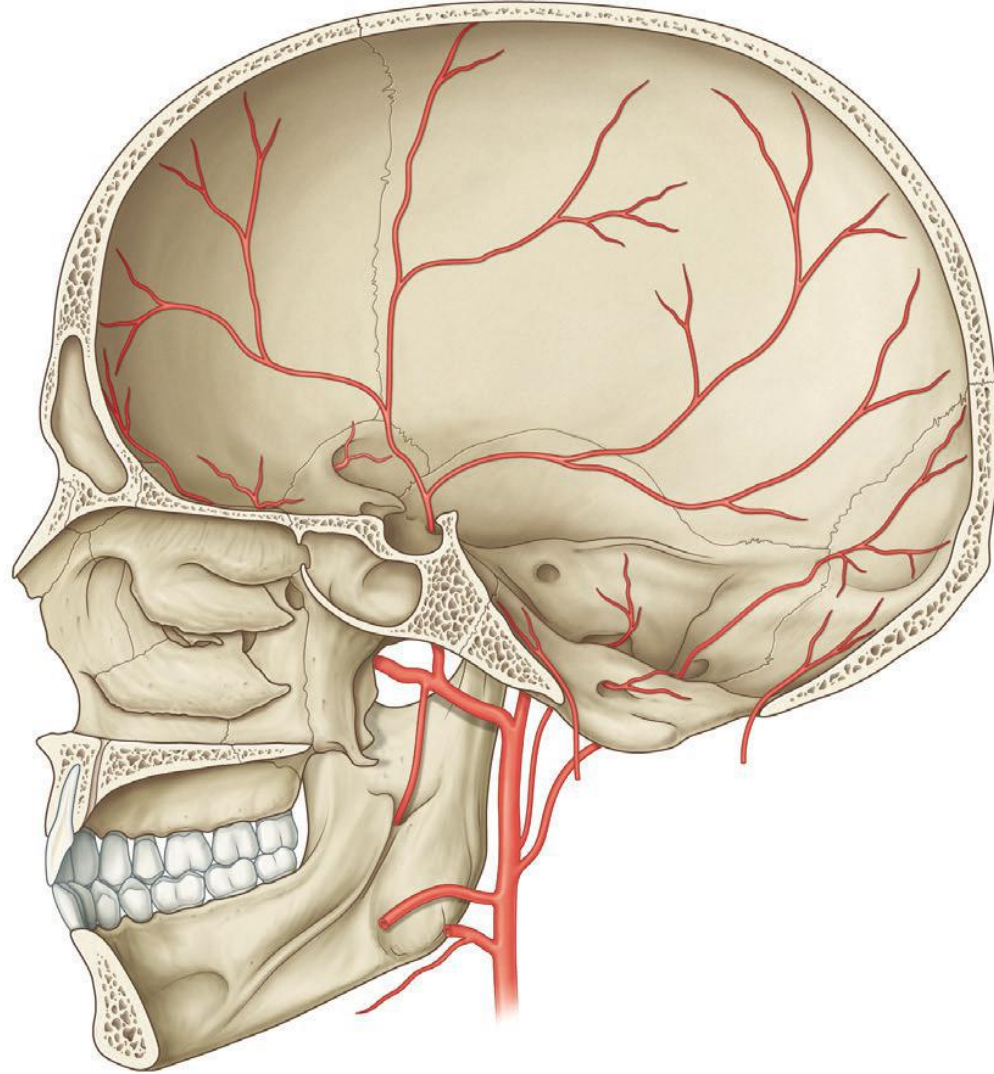


A. Maxilar: A. auricular profunda



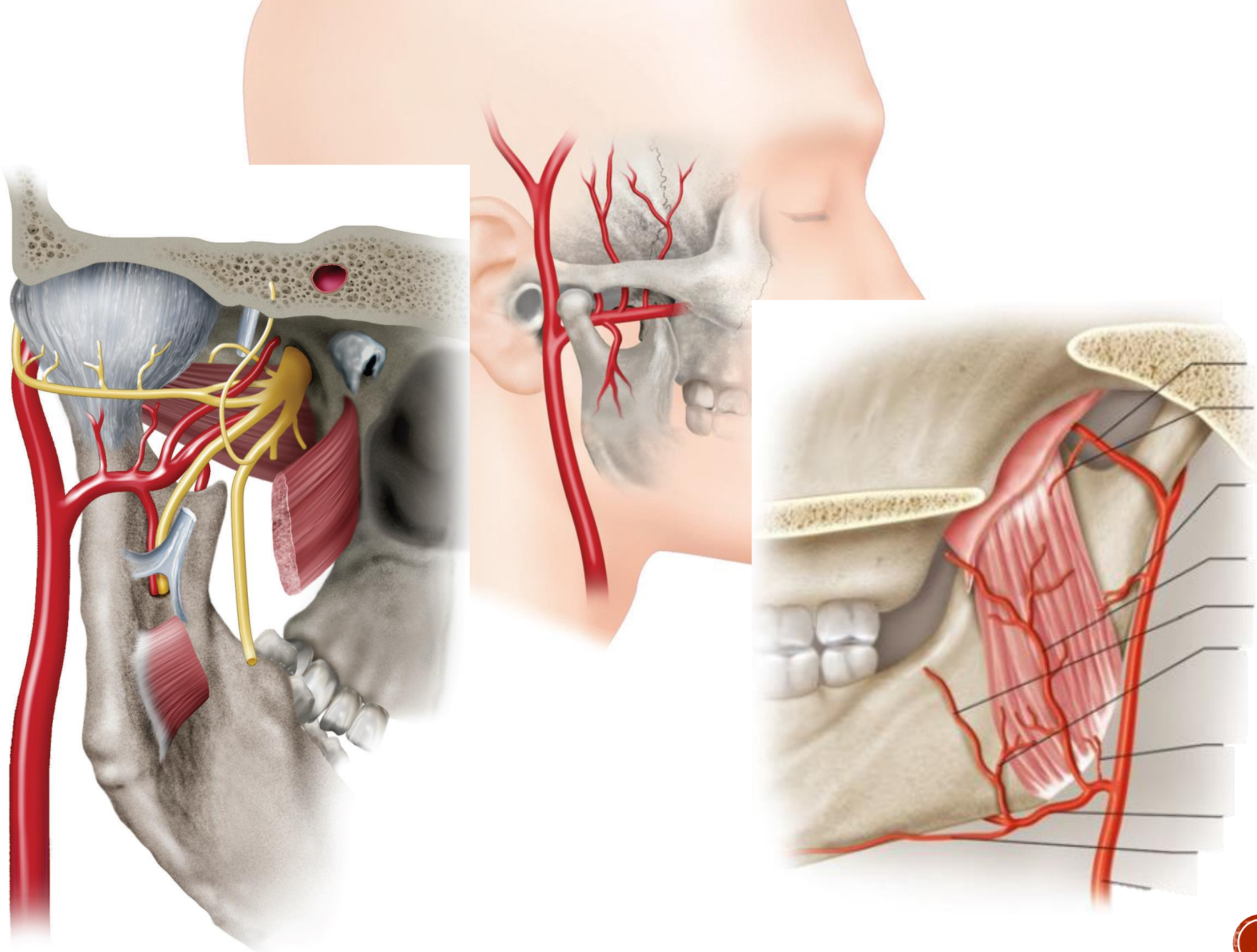


- R. Frontal
- R. Orbitaria
- R. Parietal
- R. Petrosa



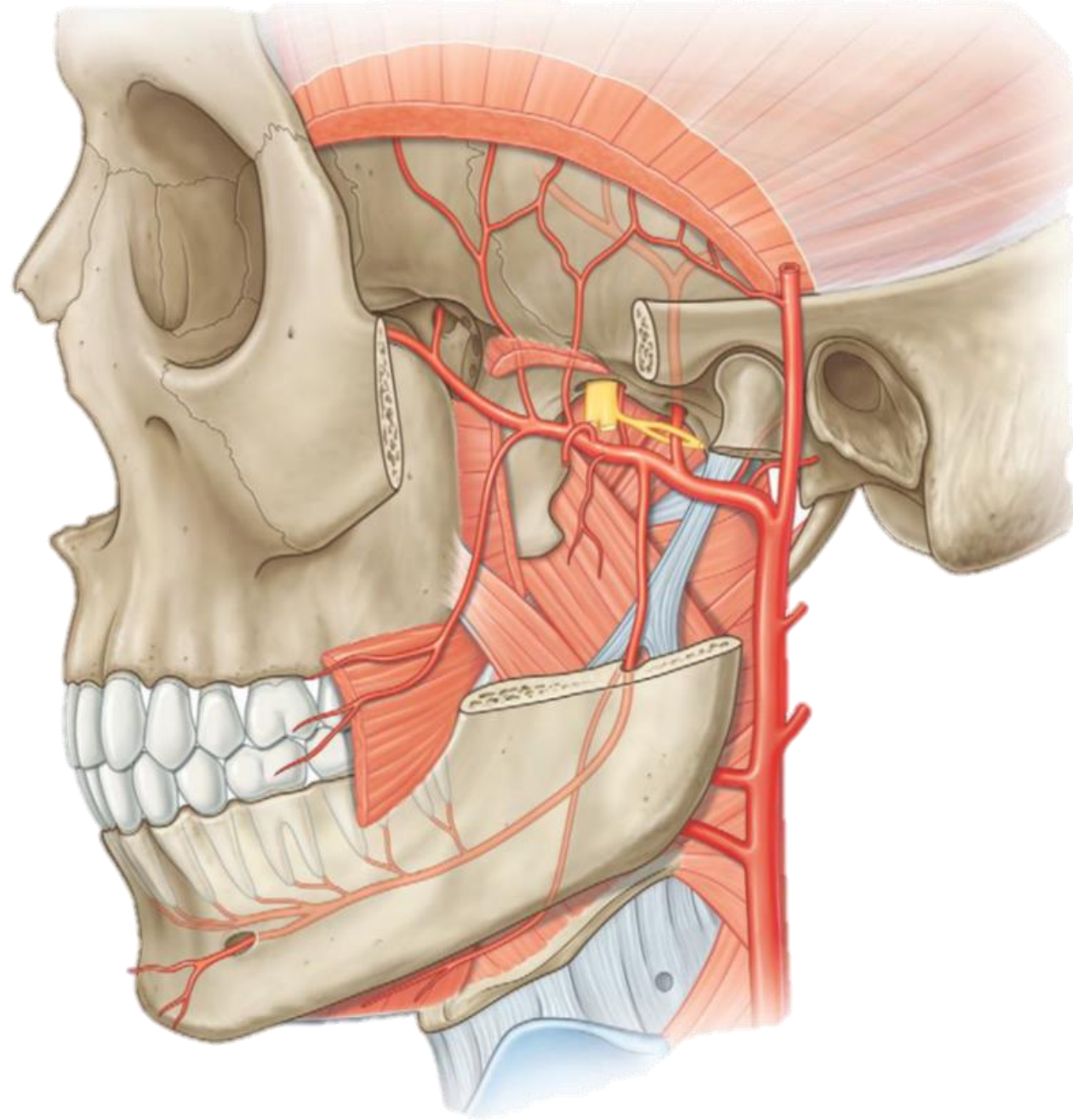
A. Maxilar: A. Meníngnea Media





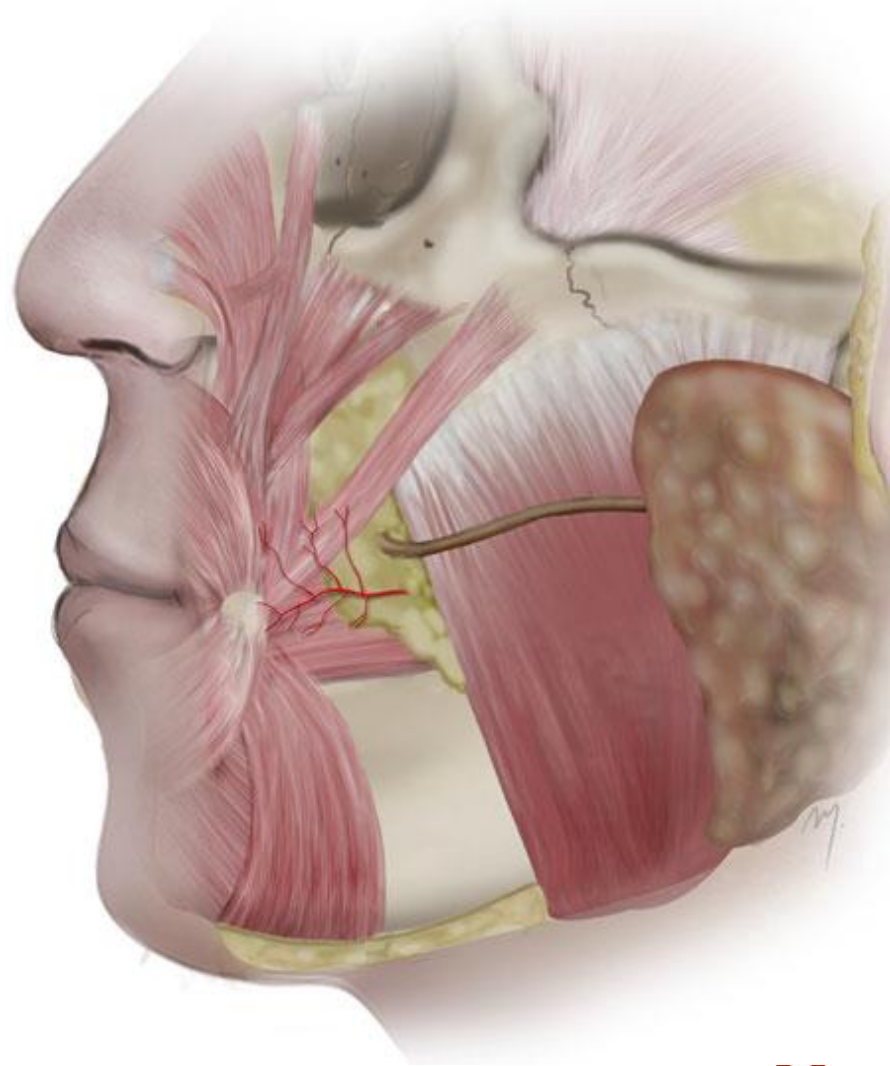
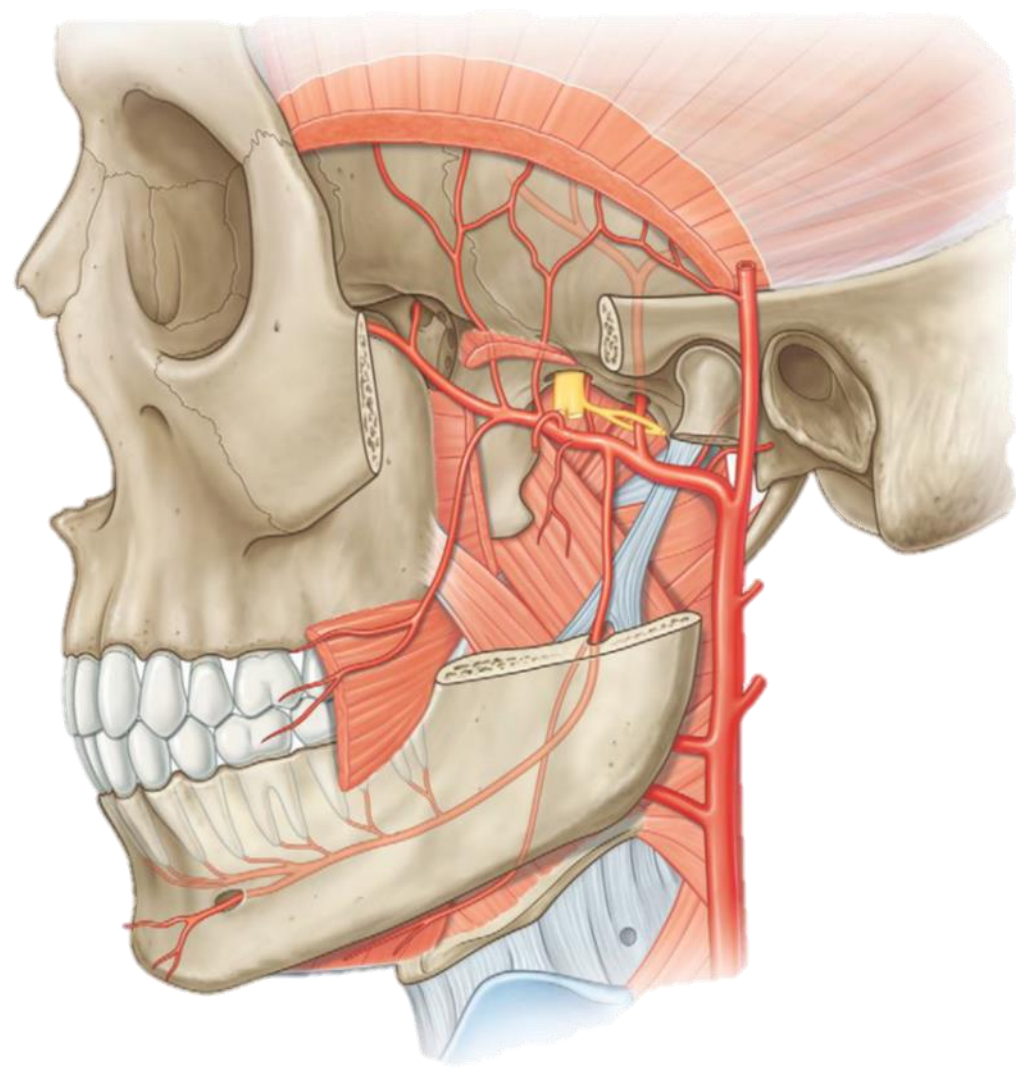
A. Maxilar: A. Maseterina





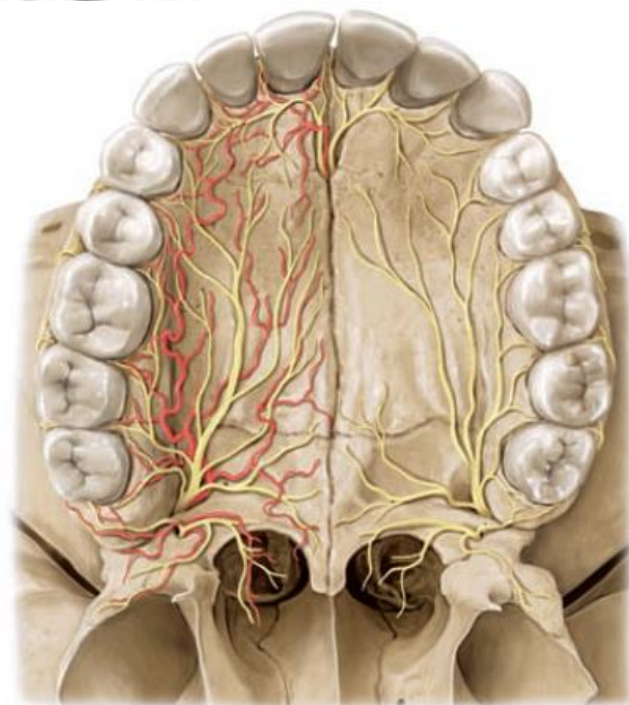
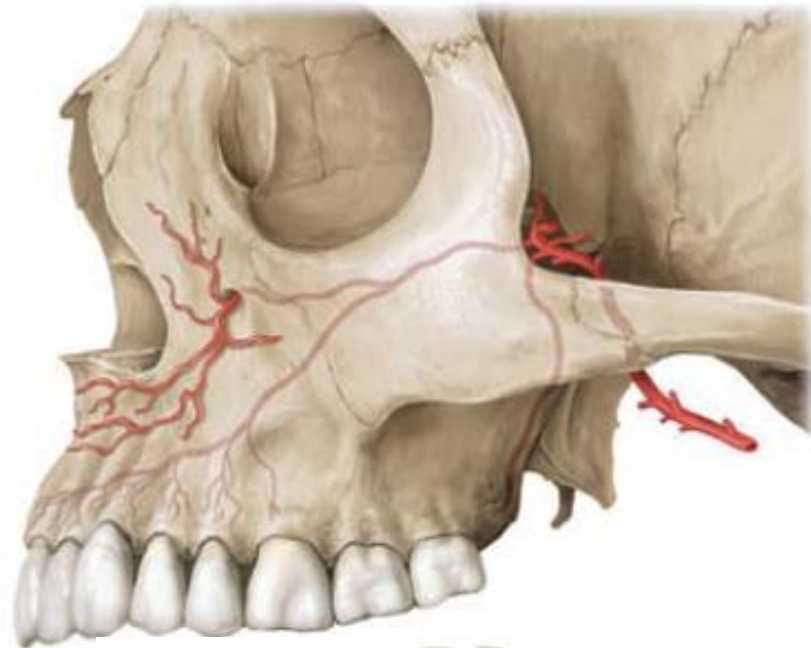
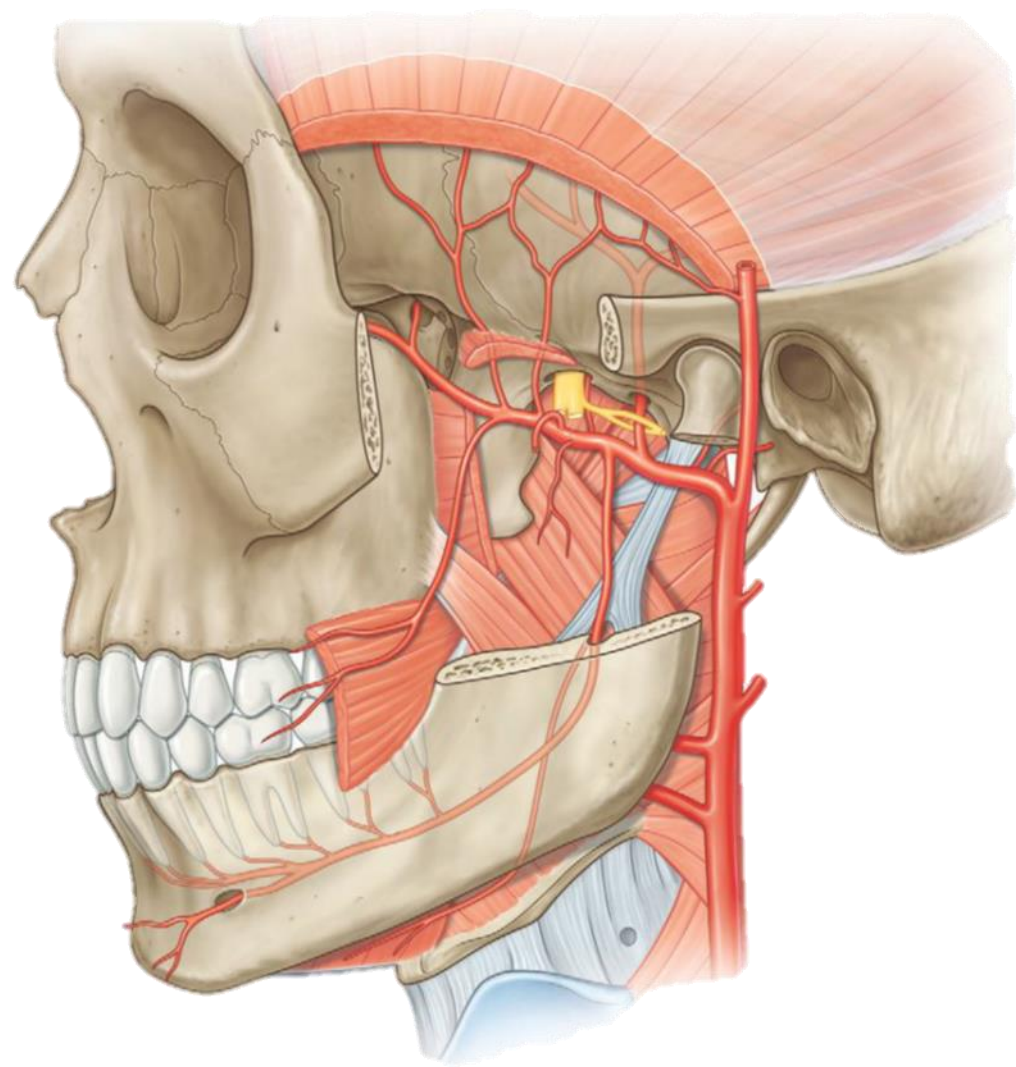
A. Maxilar: A. Pterigoidea



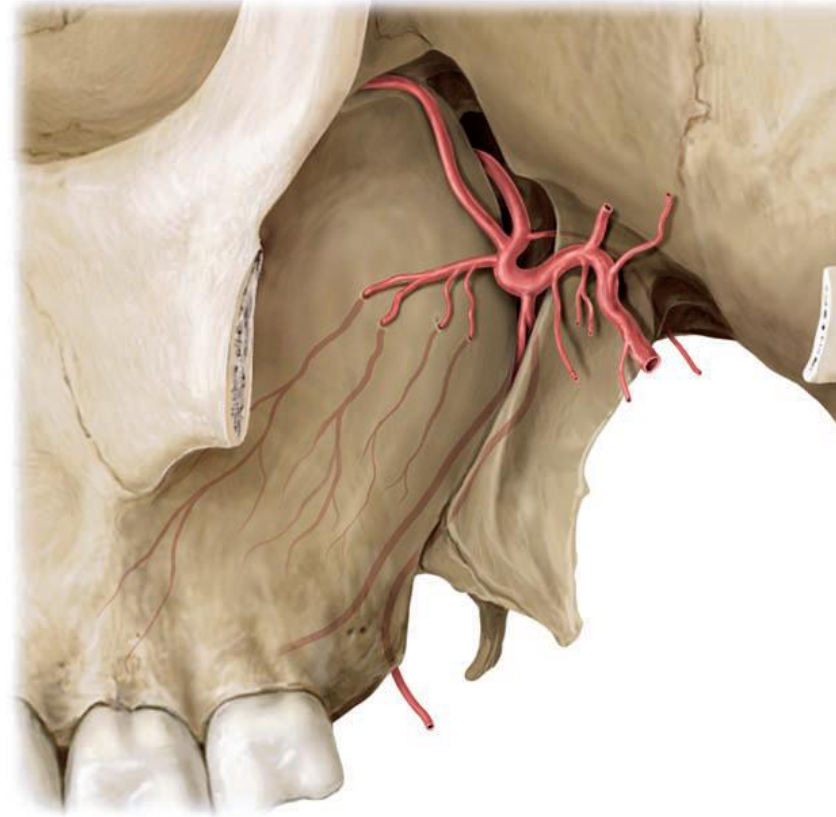
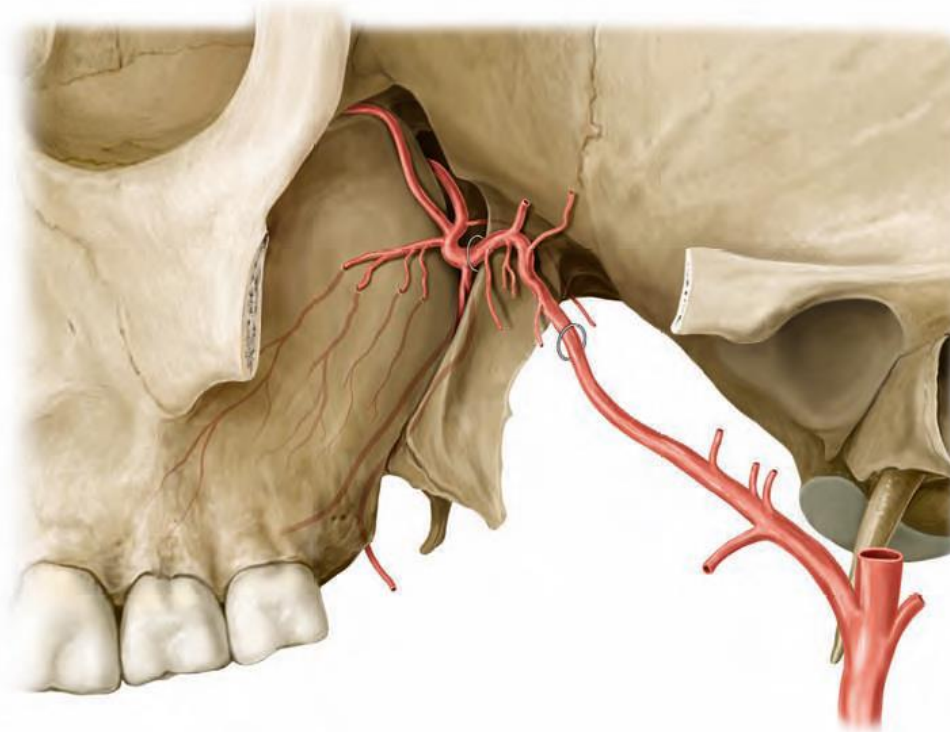


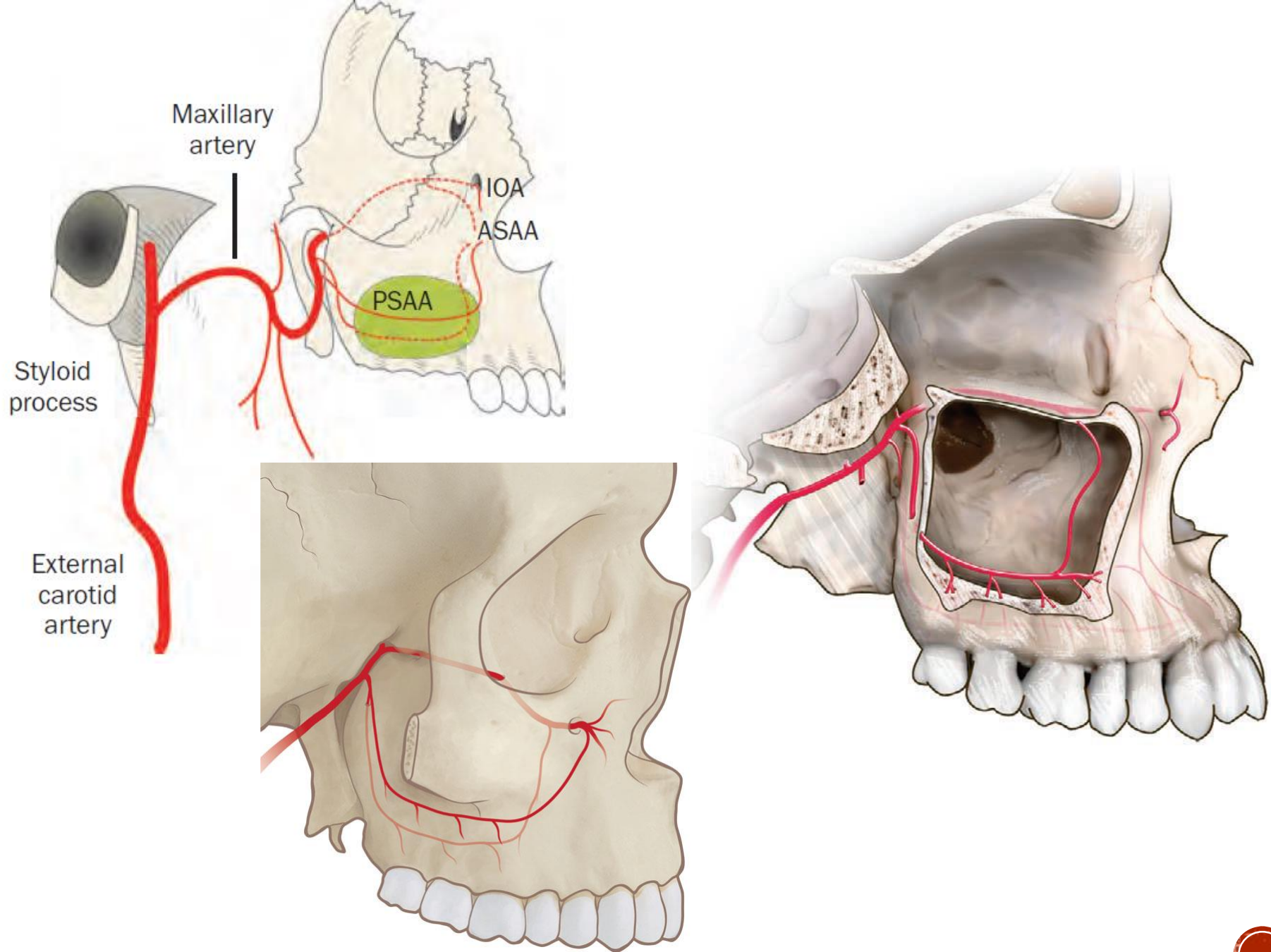
A. Maxilar: A. Bucal



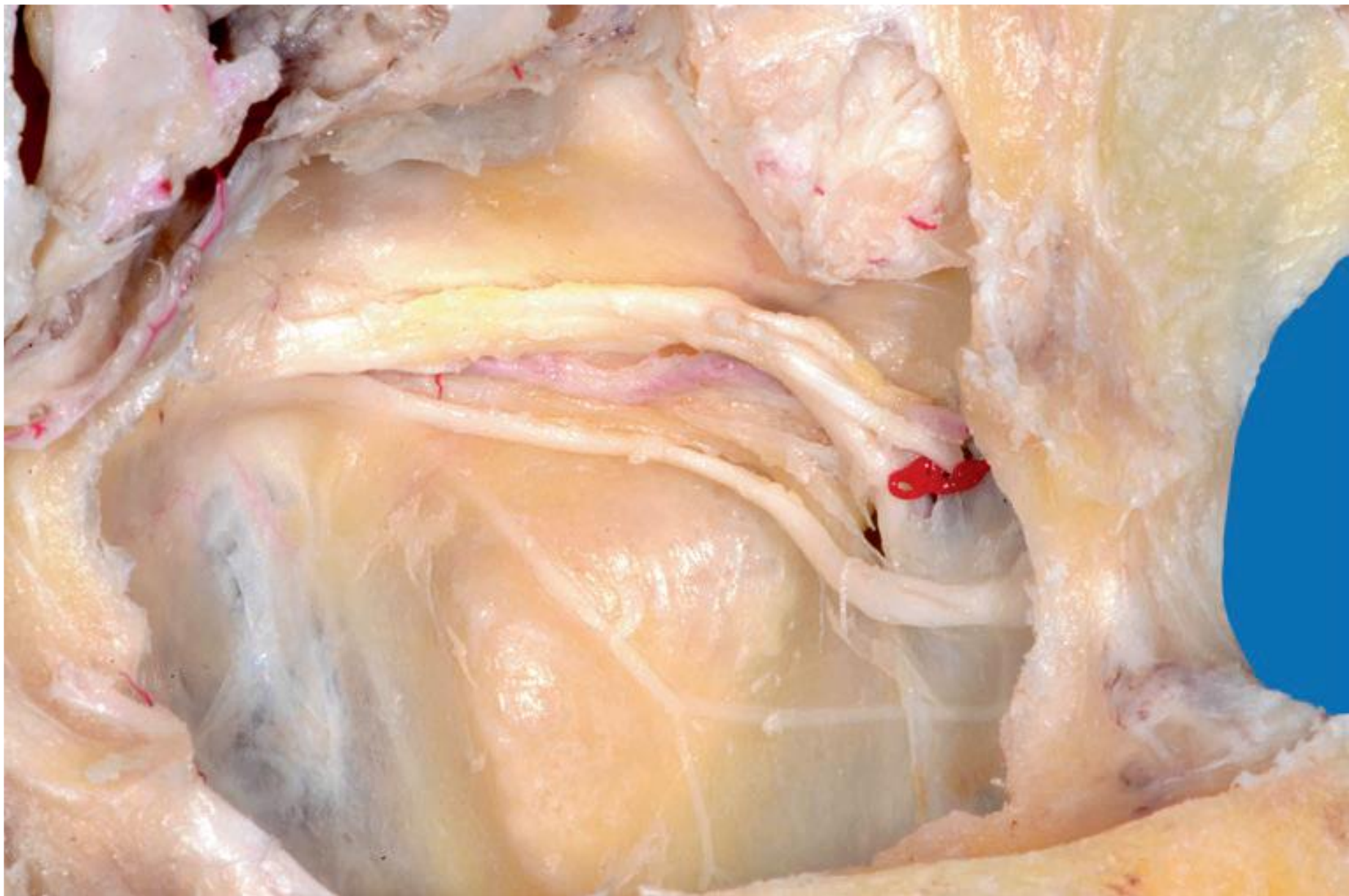


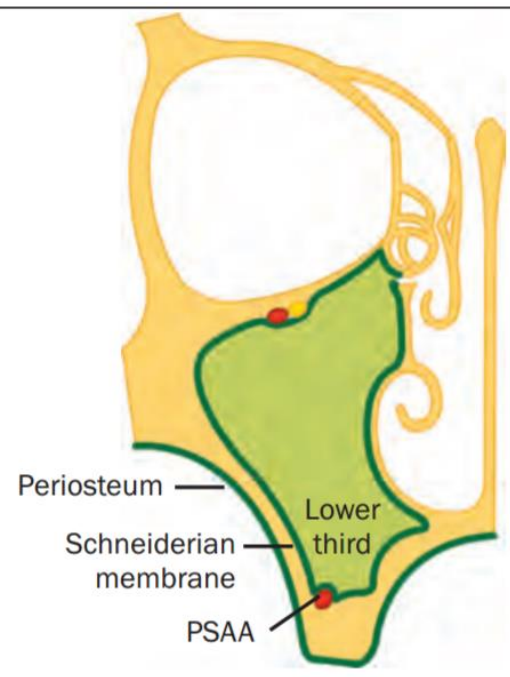
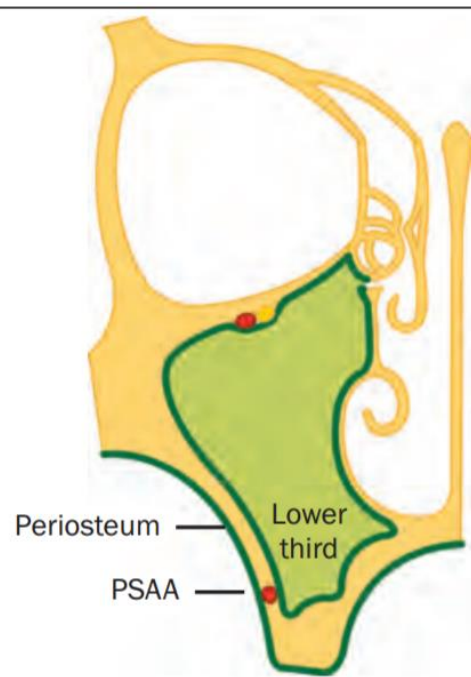
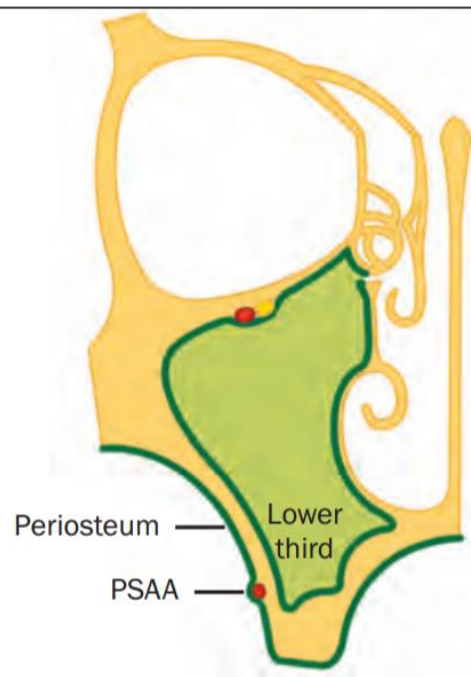
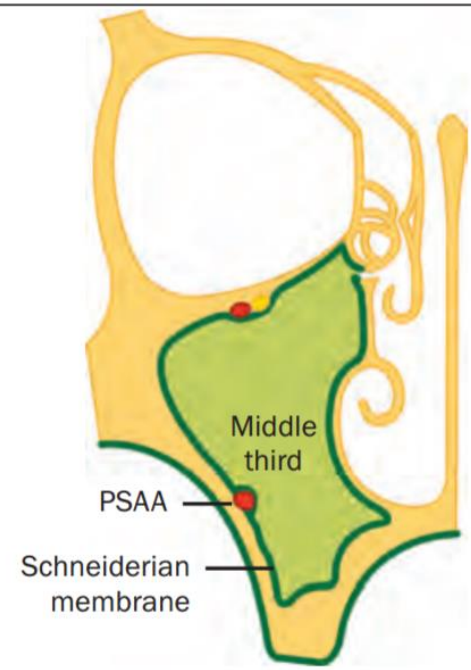
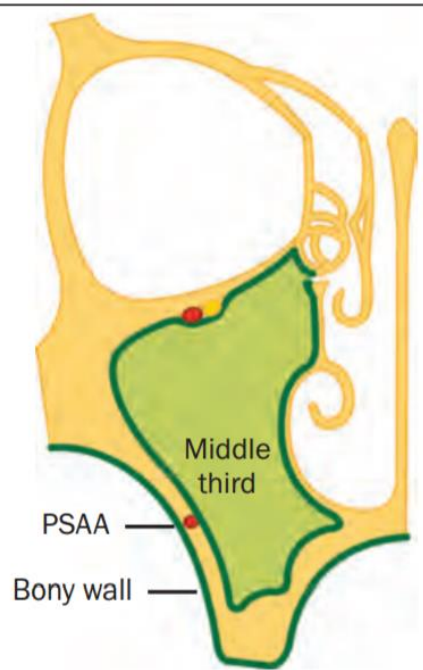
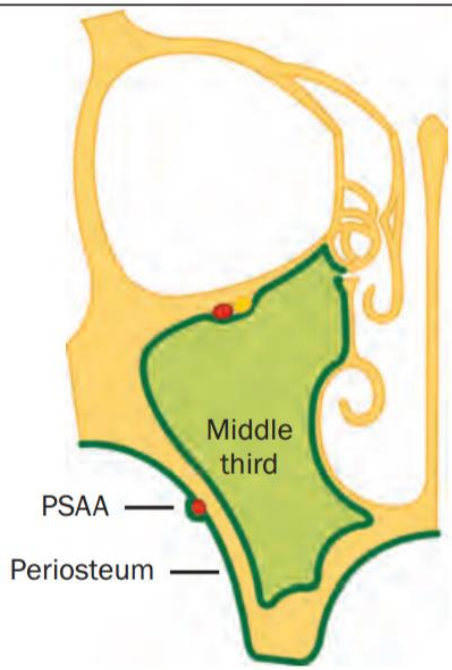
A. Maxilar: A. Palatina Descendente e infraorbitaria

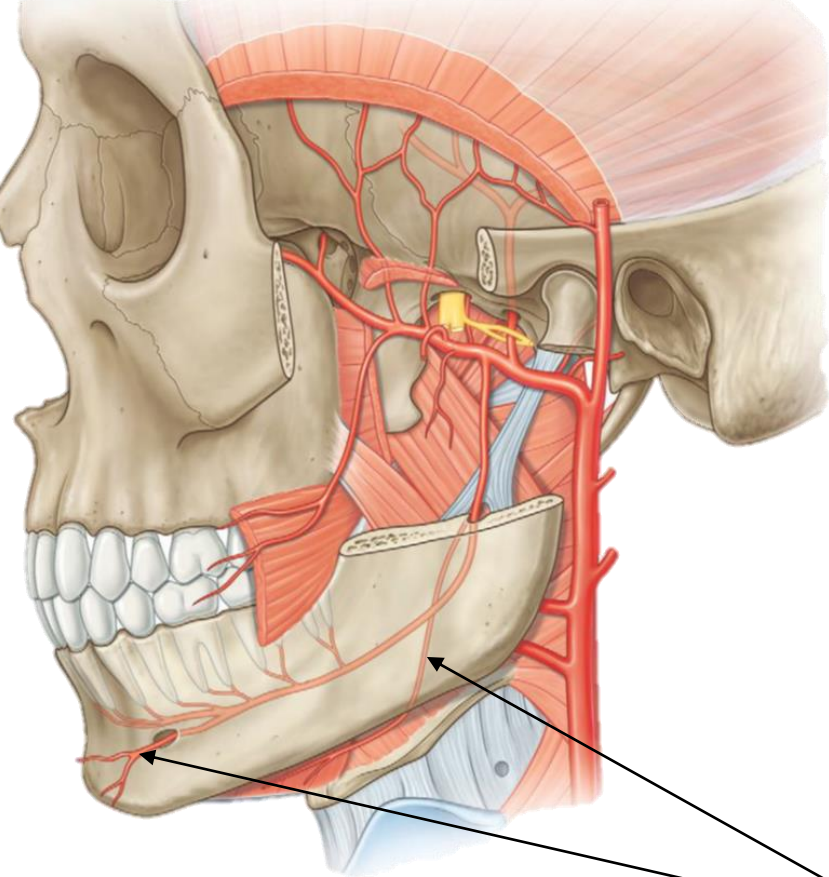




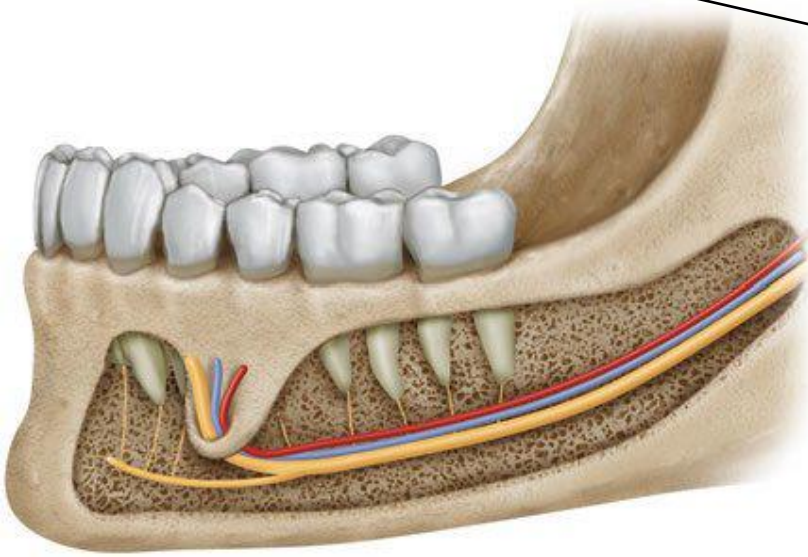
A. Maxilar: A. Alveolares superiores posteriores y anteriores





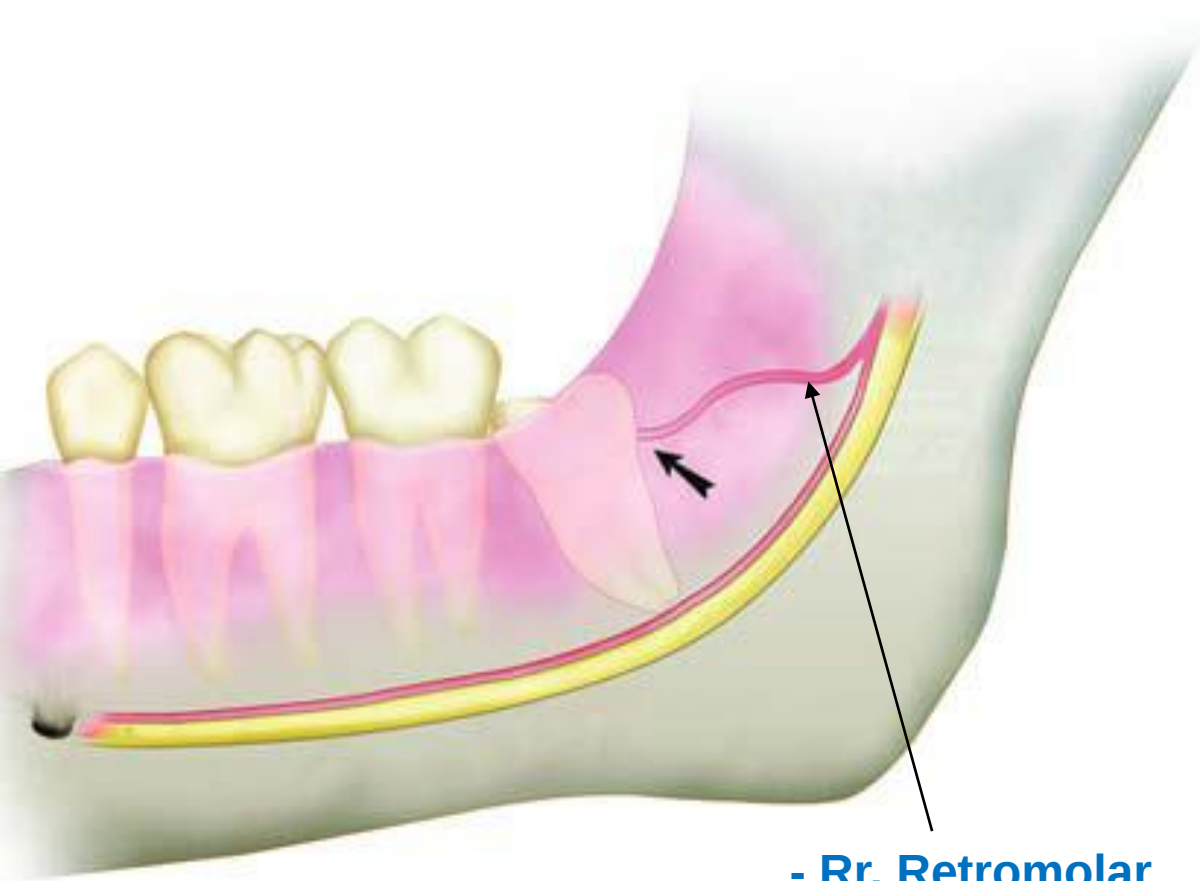


- Rr. Dentales
- Rr. Peridentales
- Rr. Mentoniana
- Rr. Milohioidea

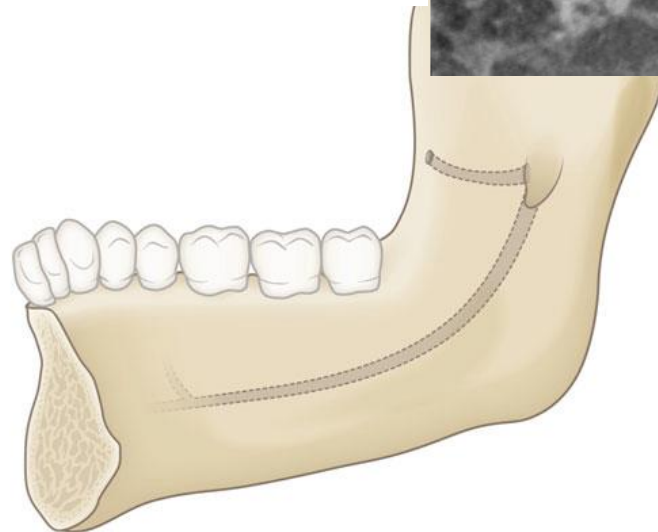
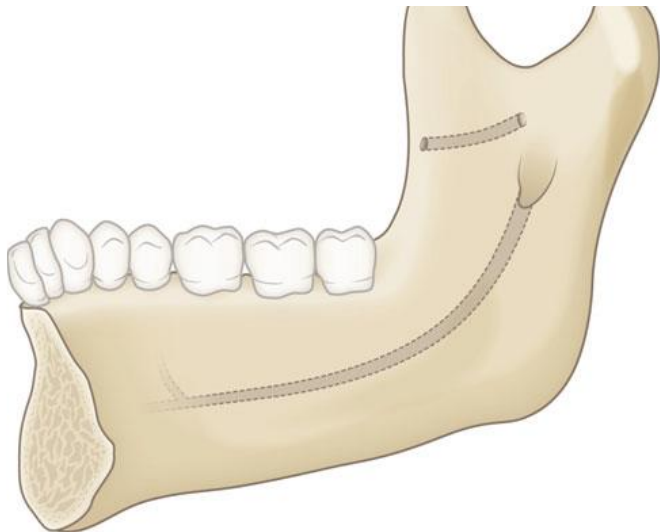
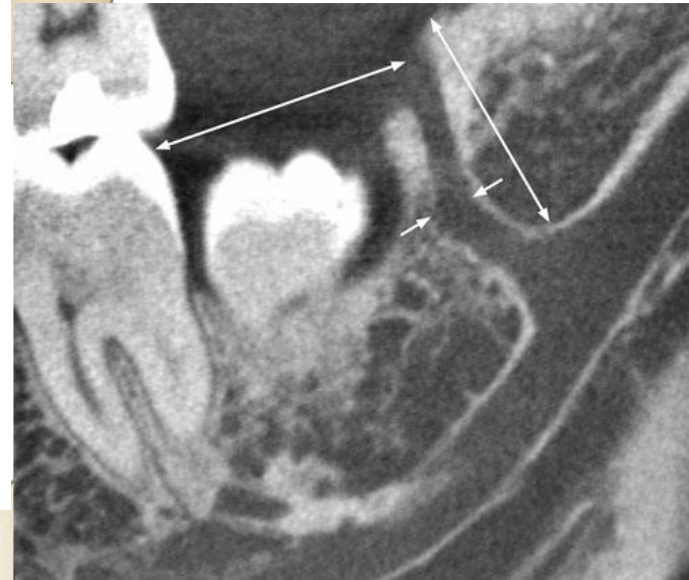
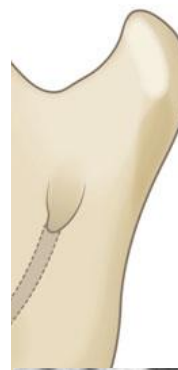


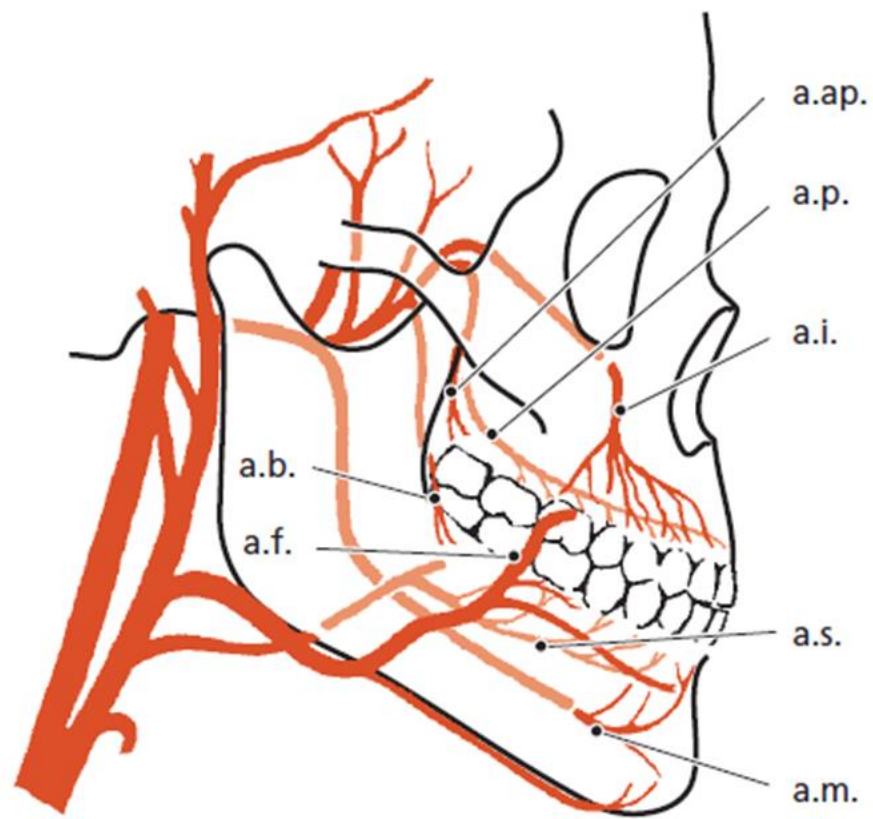
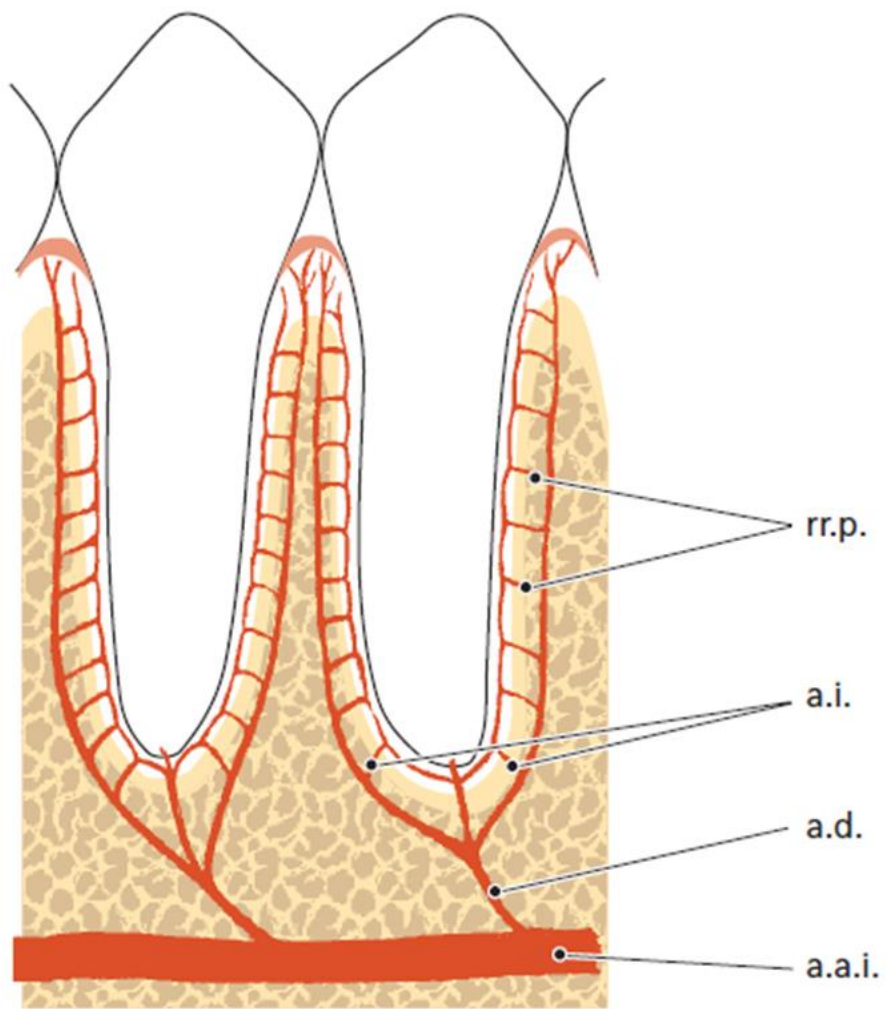
A. Maxilar: A. Alveolar inferior

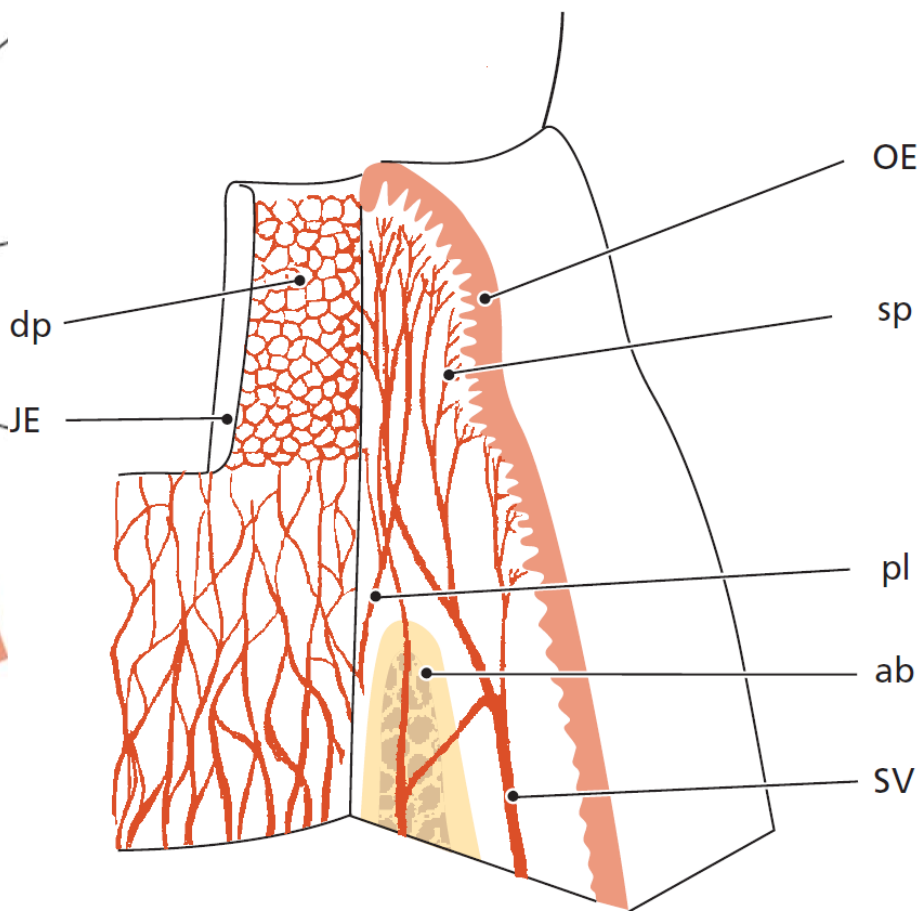
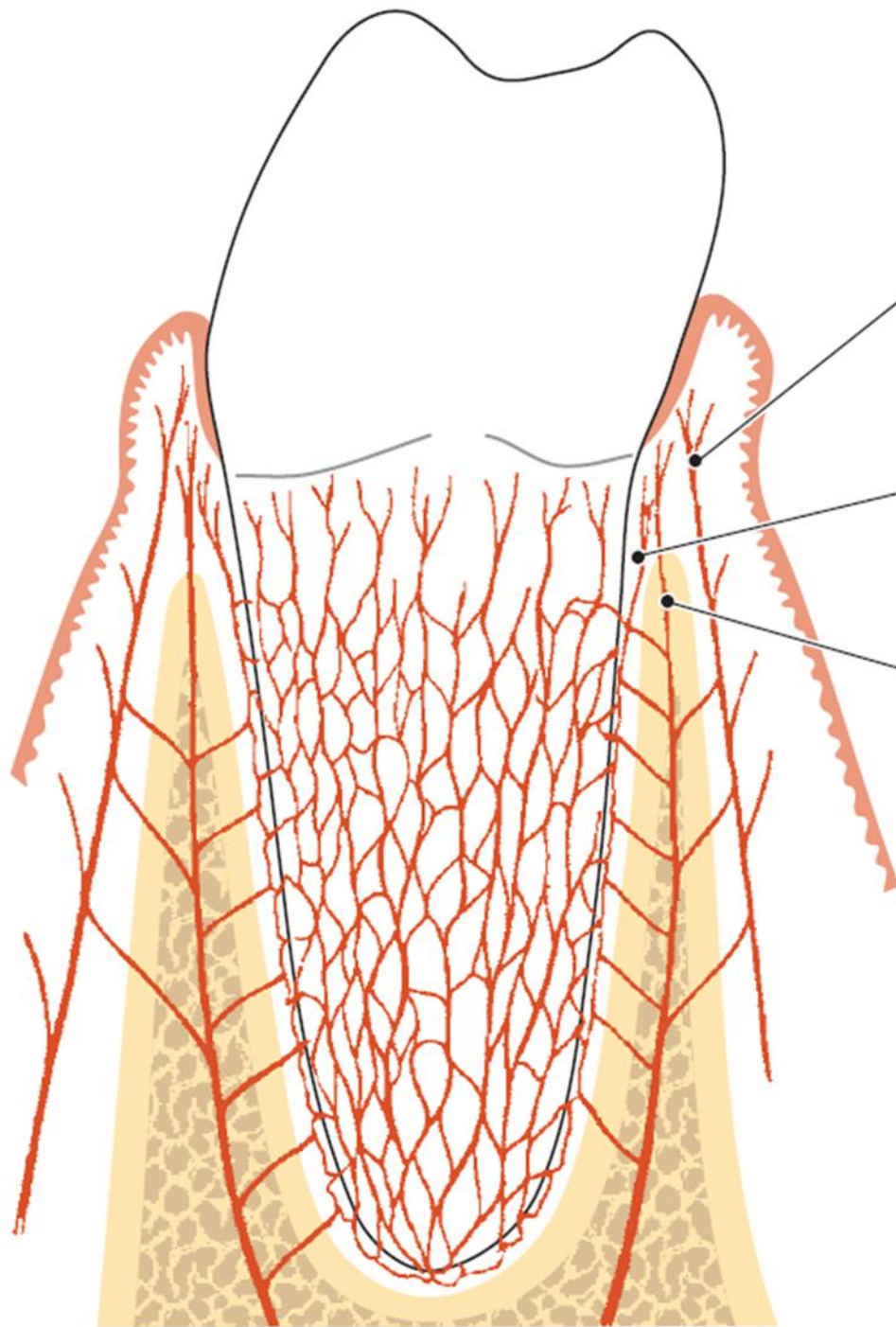


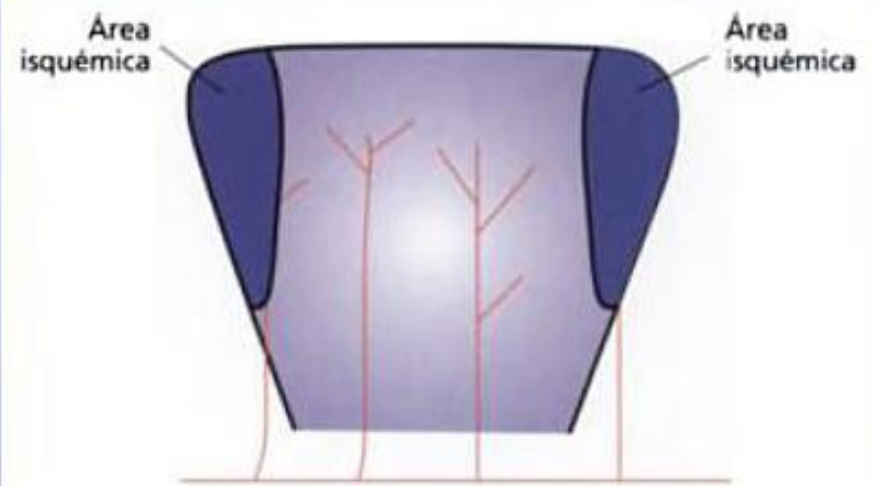
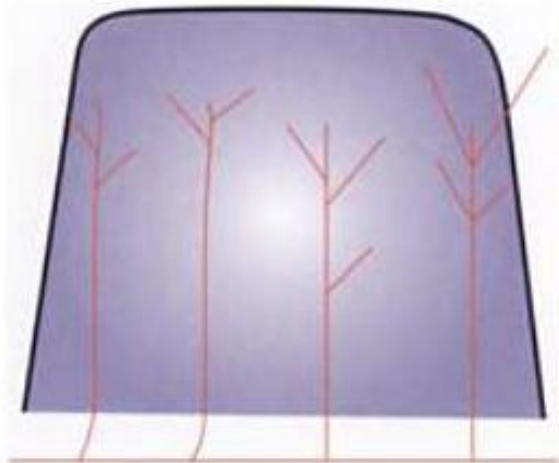


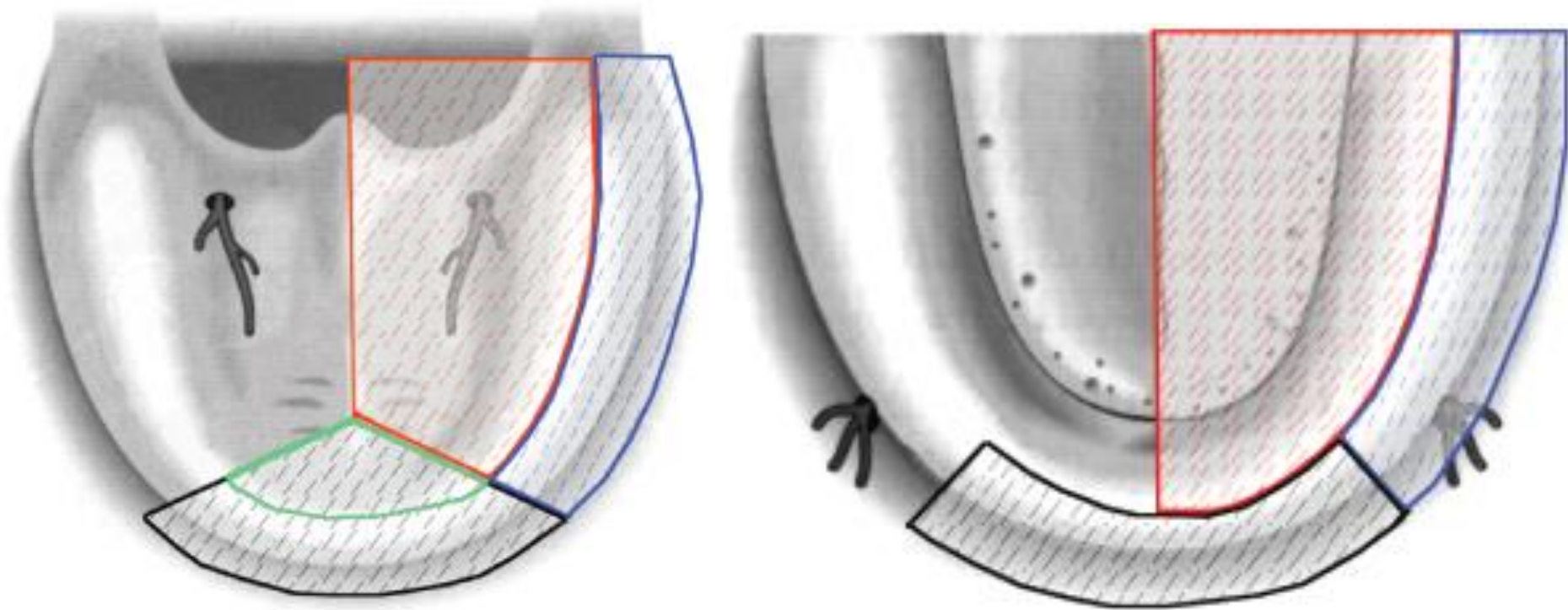
- Rr. Retromolar











Incision design in implant dentistry based on vascularization of the mucosa

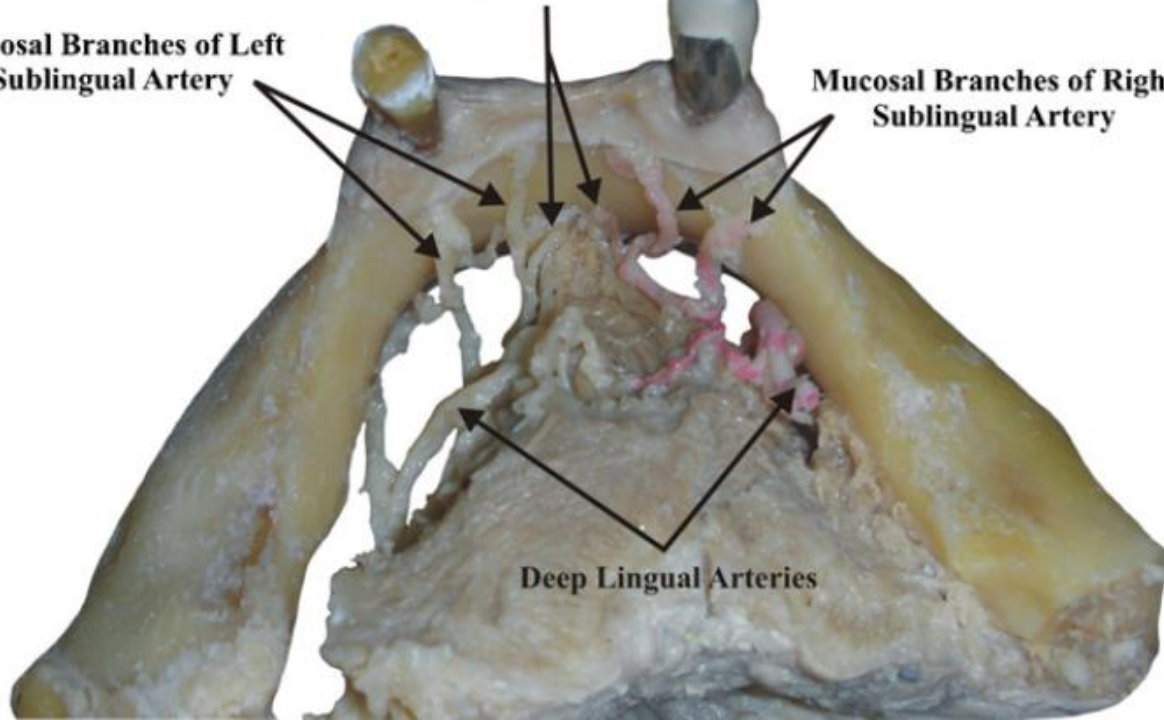


Perforating Anastomosing
Branches of Left and Right
Sublingual Arteries

Mucosal Branches of Left
Sublingual Artery

Mucosal Branches of Right
Sublingual Artery

Deep Lingual Arteries



Lingual artery

Sublingual region

Sublingual artery

Mylohyoid muscle

Submental artery

Facial artery

Submandibular/mental region

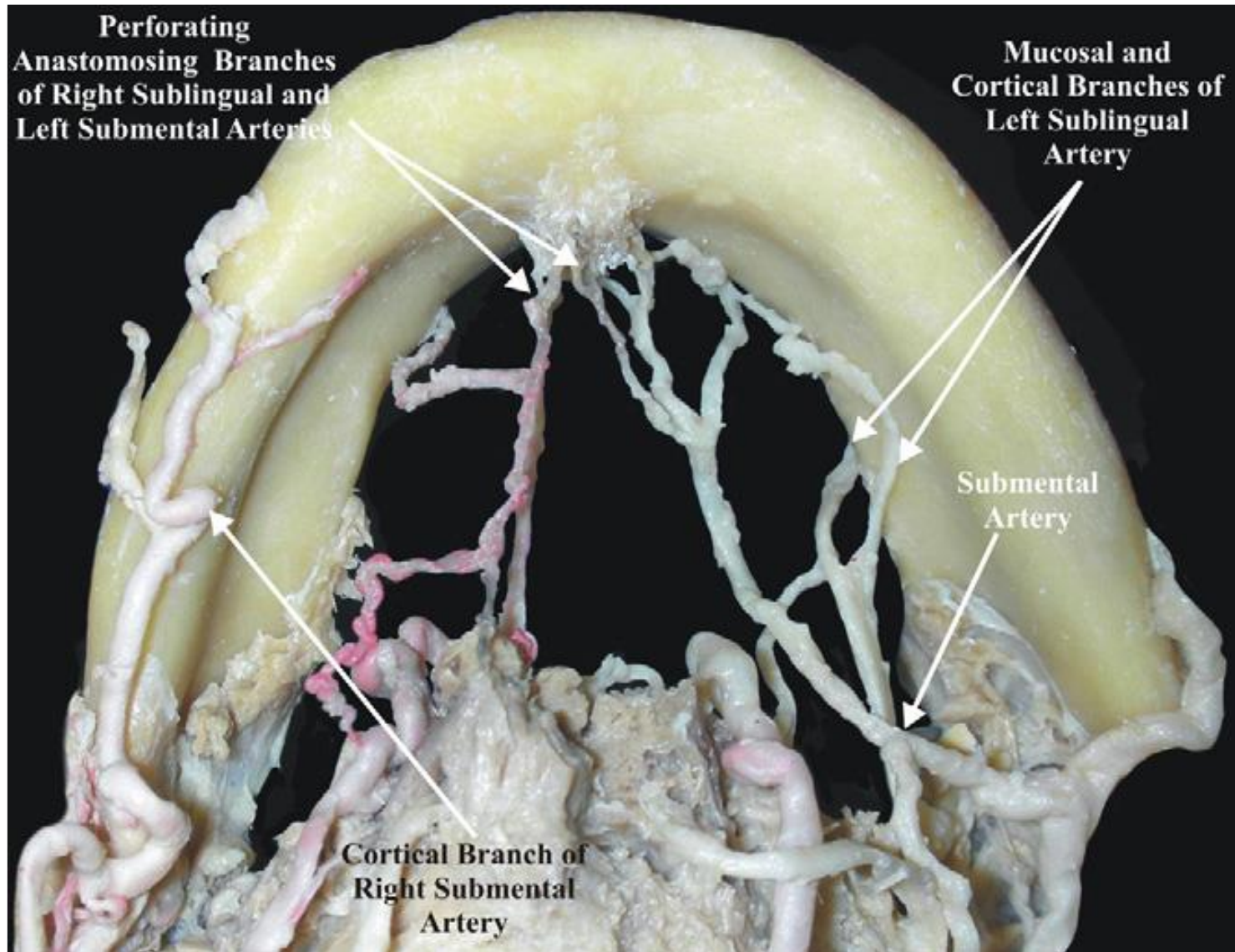
Mandible

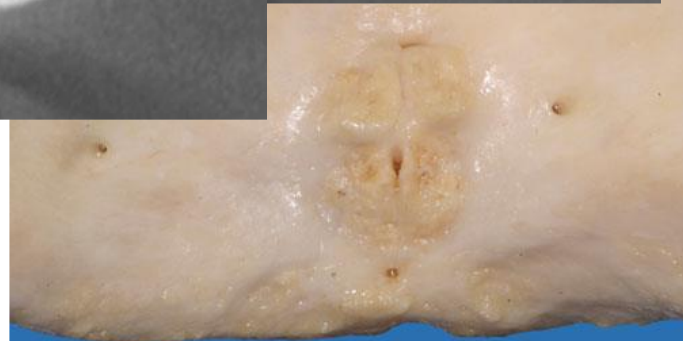
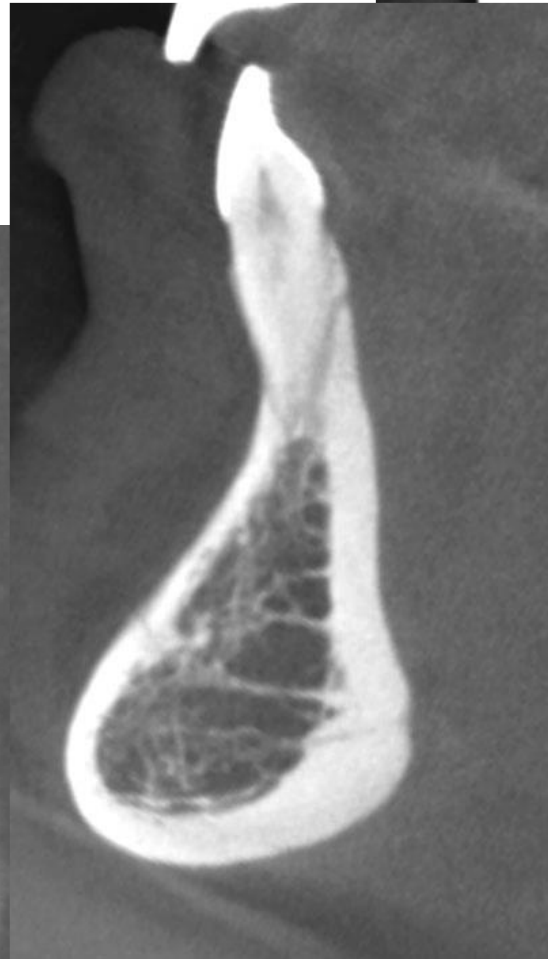
Incisive
artery

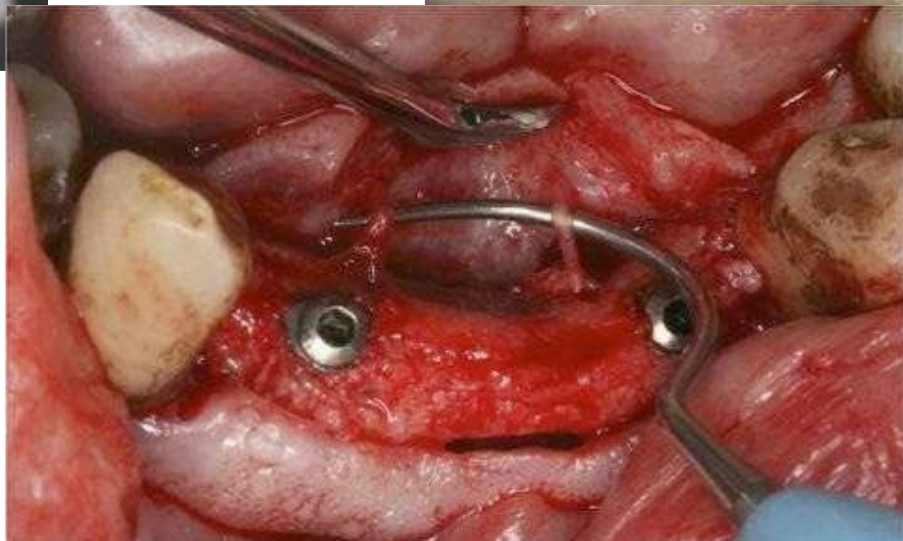
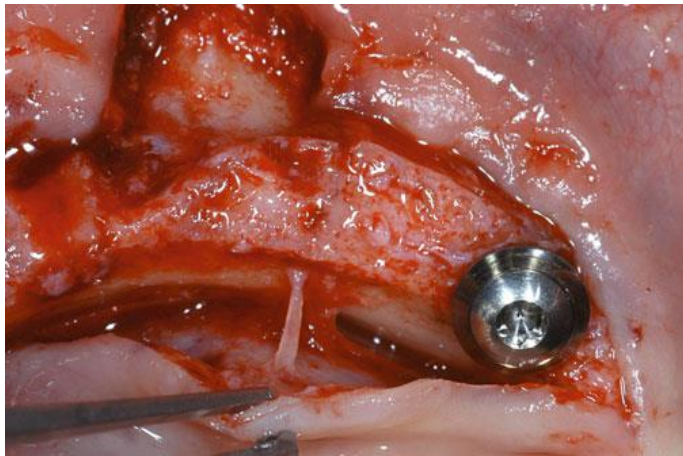
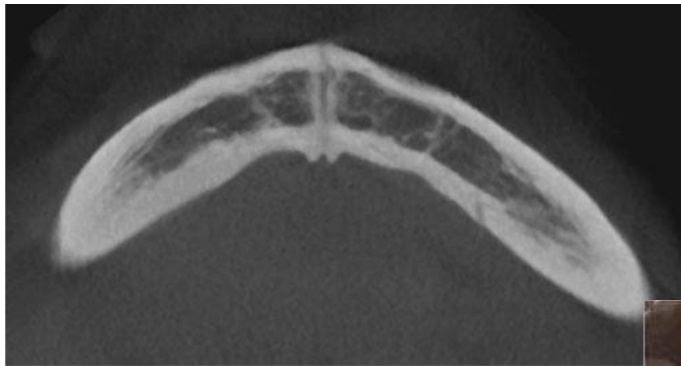
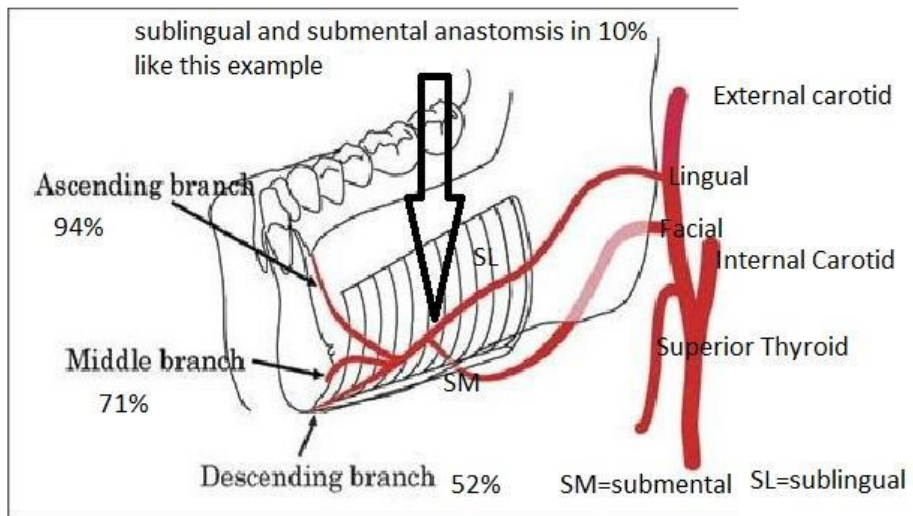
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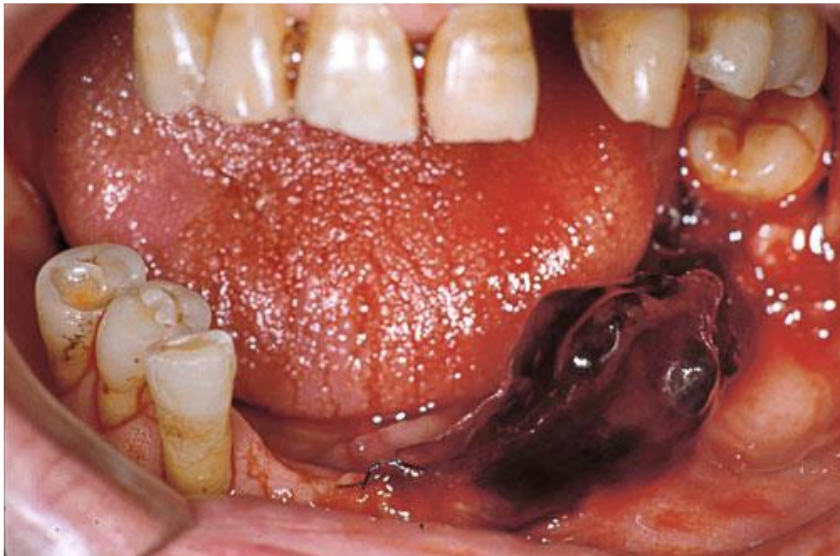
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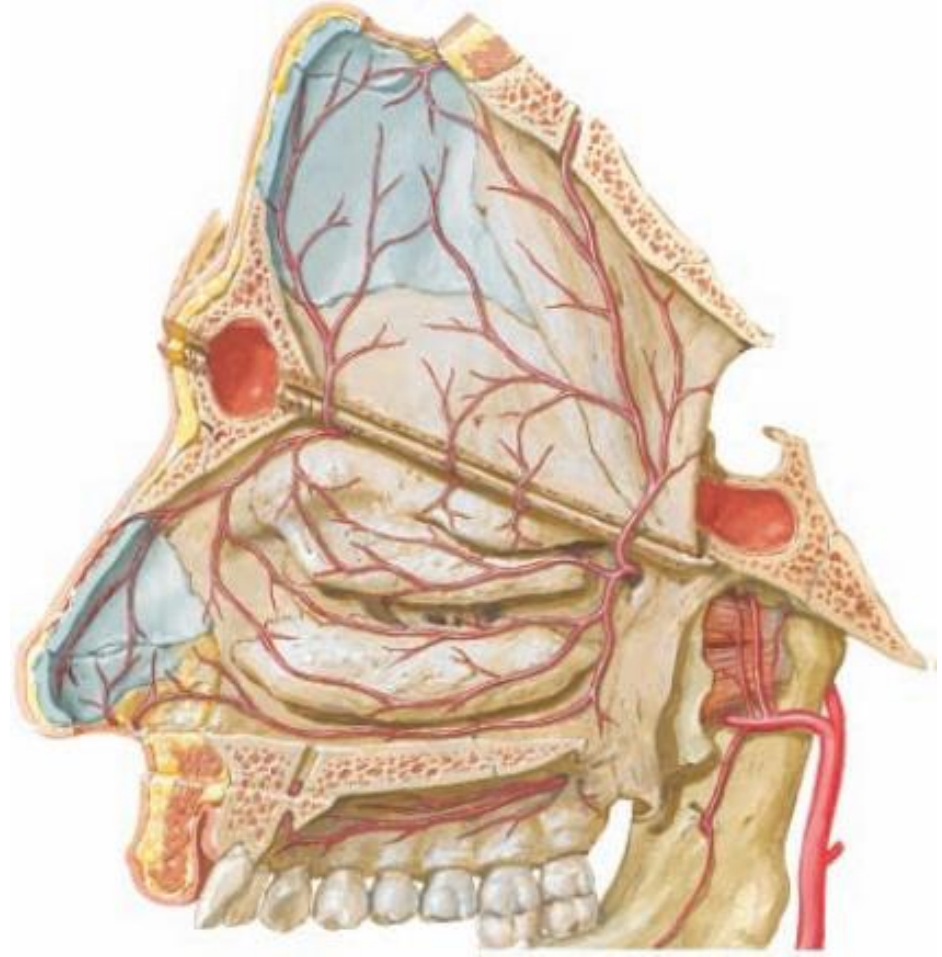
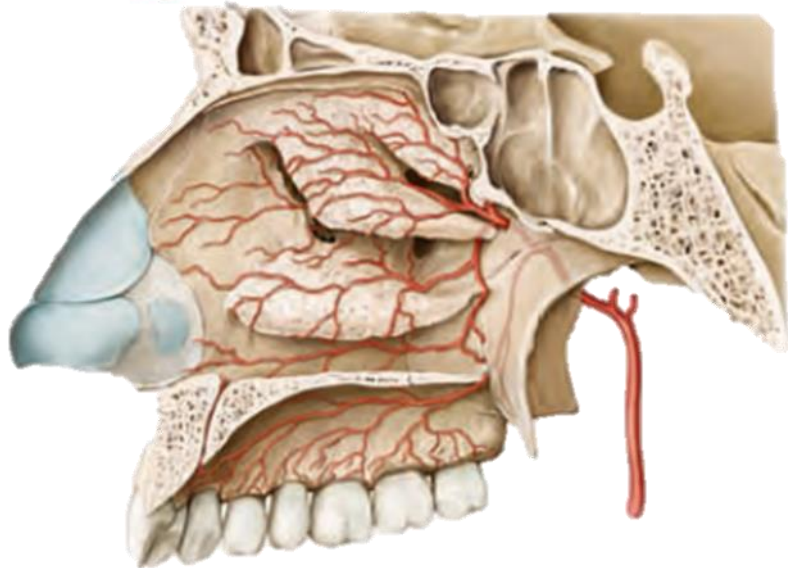
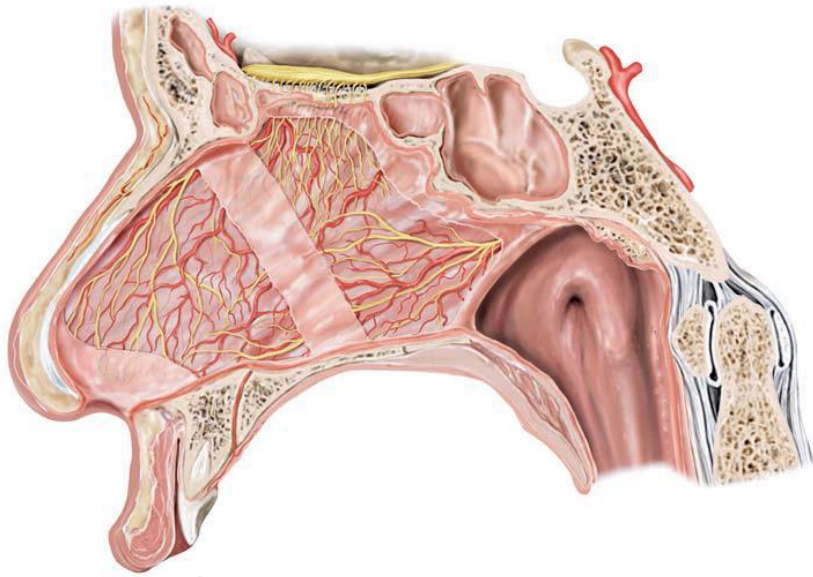








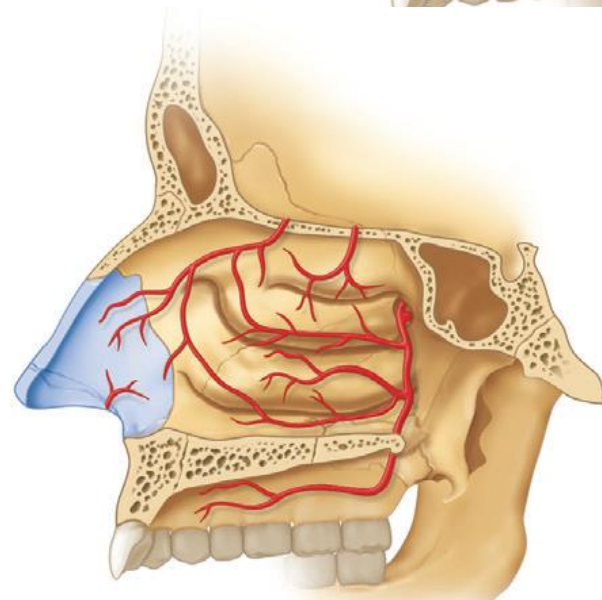
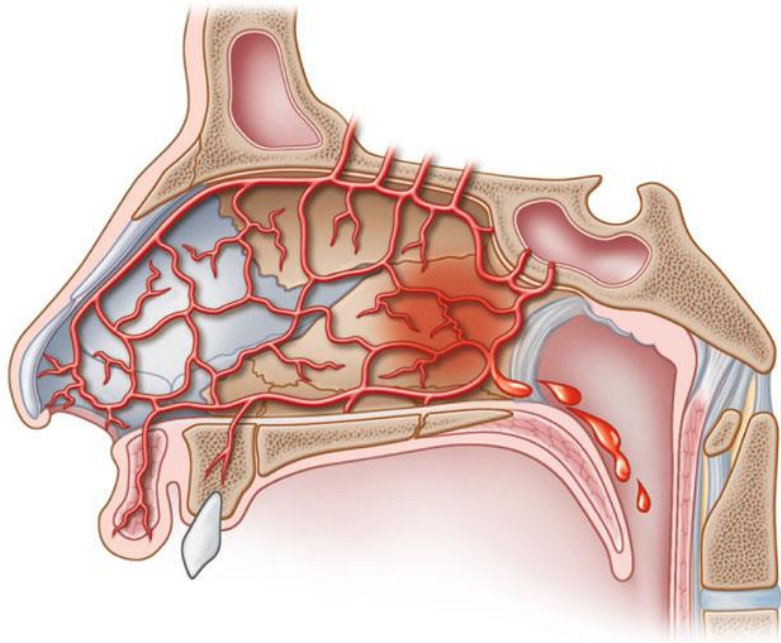
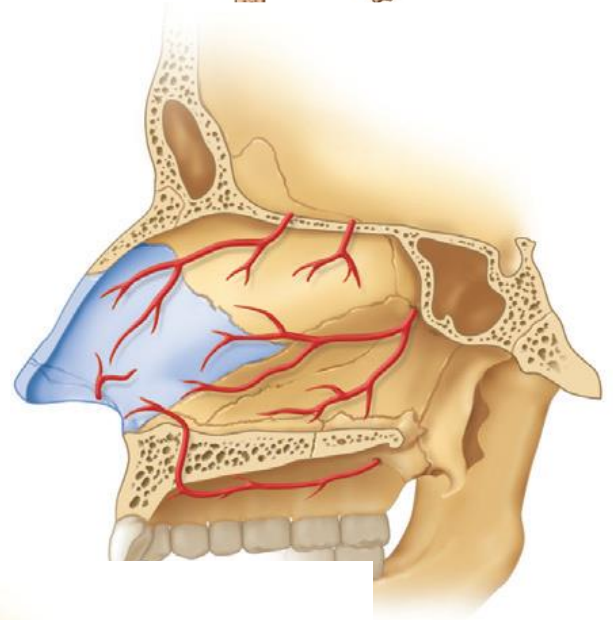
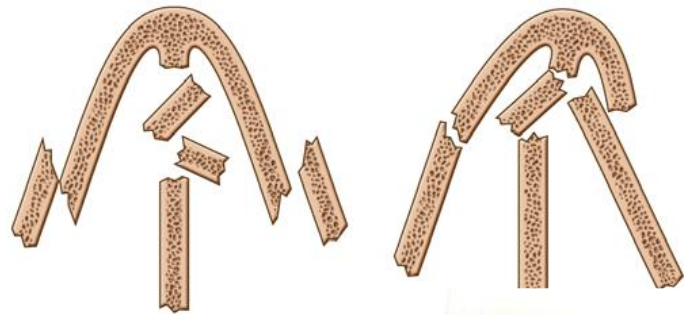
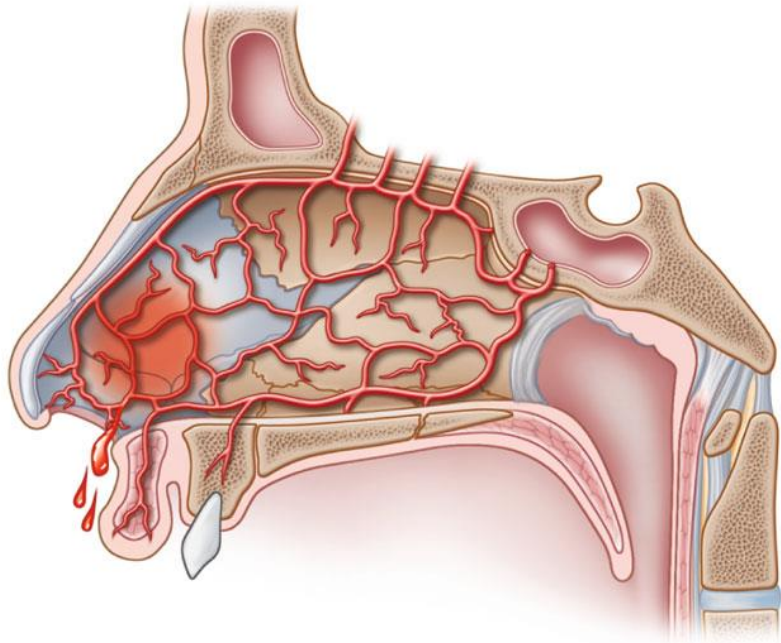


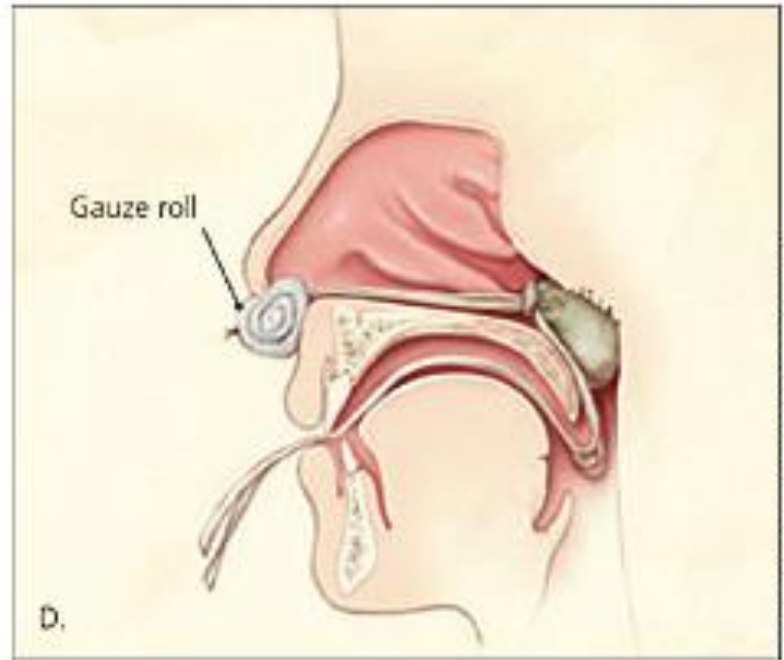
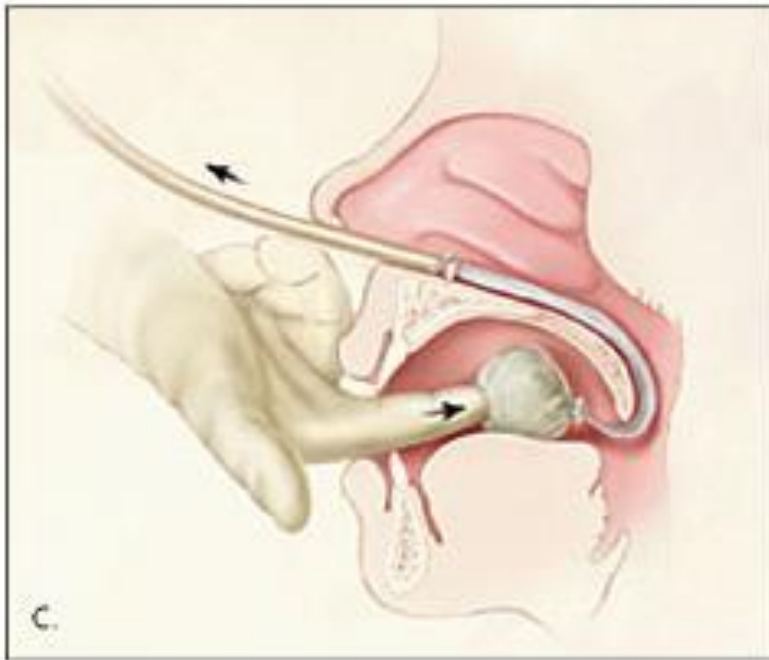
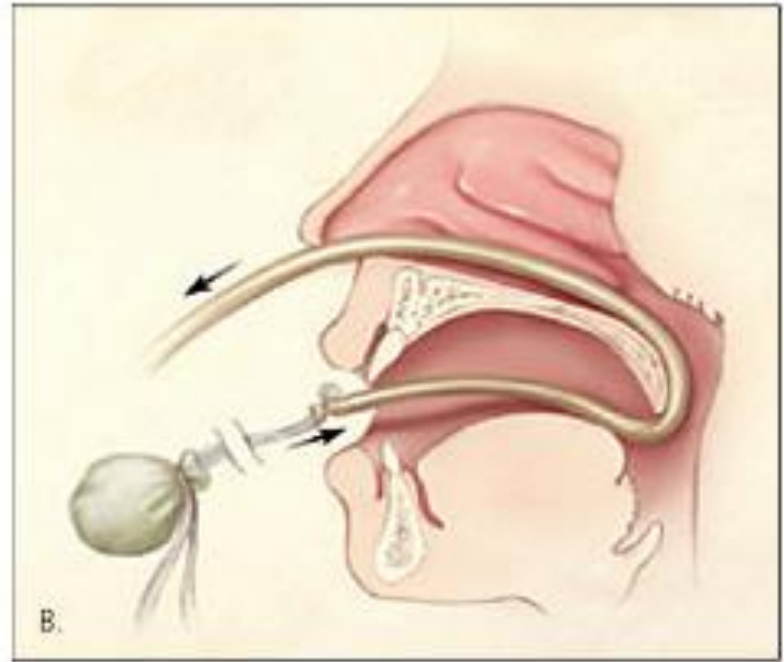
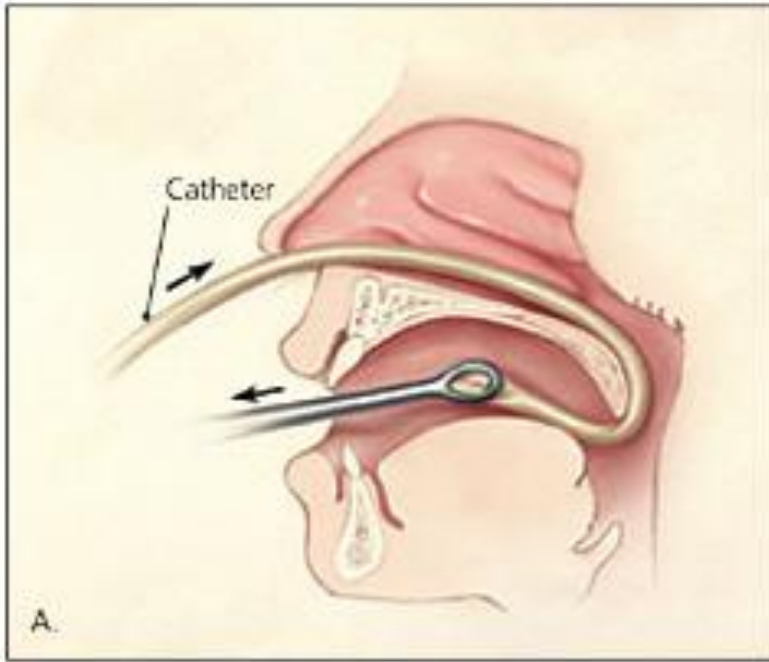


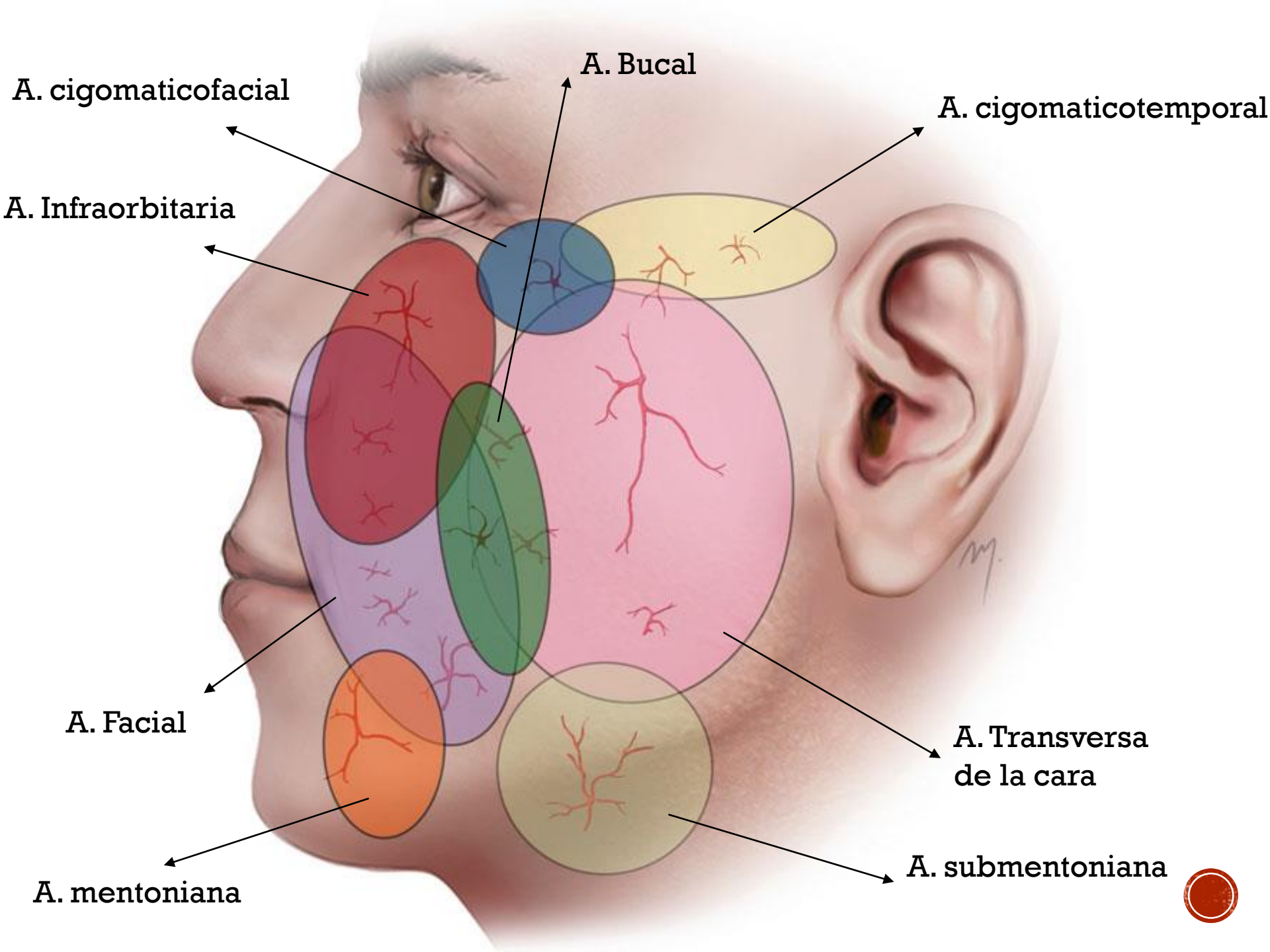
- A. Nasales laterales posteriores
- A. septal posterior

A. Maxilar: A. Esfenopalatina









A. cigomaticofacial

A. Bucal

A. cigomaticotemporal

A. Infraorbitaria

A. Facial

A. Transversa
de la cara

A. mentoniana

A. submentoniana



FIN.



BIBLIOGRAFÍA

- Testut L, Jacob O. Tratado de anatomía topográfica con aplicaciones medicoquirúrgicas: Abdomen, pelvis, miembros. T. segundo [Internet]. Salvat; 1986. (Tratado de anatomía topográfica con aplicaciones medicoquirúrgicas). Available from: <https://books.google.cl/books?id=MDfqOgAACAAJ>
- Drake R, Vogl AW, Mitchell AWM, Tibbitts R, Richardson P. Gray's Atlas of Anatomy E-Book [Internet]. Elsevier Health Sciences; 2014. (Gray's Anatomy). Available from: <https://books.google.cl/books?id=1ipVCwAAQBAJ>
- Schuenke M, Schulte E. Head and Neuroanatomy (THIEME Atlas of Anatomy) [Internet]. Thieme; 2011. (THIEME Atlas of Anatomy Series). Available from: <https://books.google.cl/books?id=ZlnVSgXEuHEC>
- Netter FH. Atlas de Anatomía Humana + StudentConsult [Internet]. Elsevier Health Sciences Spain; 2011. Available from: <https://books.google.cl/books?id=Se7SkA0z1yoC>
- Co, N. (2008). Vascular Connections of the Lateral Wall of the Sinus :, (November), 1047–1052.
- Kalpidis, C. D. R., & Setayesh, R. M. (2004). Hemorrhaging Associated With Endosseous Implant Placement in the Anterior Mandible: A Review of the Literature. *Journal of Periodontology*, 75(5), 631–645. <https://doi.org/10.1902/jop.2004.75.5.631>
- Kleinheinz, J., Büchter, A., Kruse-Lösler, B., Weingart, D., & Joos, U. (2005). Incision design in implant dentistry based on vascularization of the mucosa. *Clinical Oral Implants Research*, 16(5), 518–523. <https://doi.org/10.1111/j.1600-0501.2005.01158.x>
- Kumar, P. (2003). *Flaps in Head and Neck Reconstruction. Plastic and Reconstructive Surgery* (Vol. 112). <https://doi.org/10.1097/01.PRS.0000067441.39522.5E>
- Loukas, M., Kinsella, C. R., Kapos, T., Tubbs, R. S., & Ramachandra, S. (2008). Anatomical variation in arterial supply of the mandible with special regard to implant placement. *International Journal of Oral and Maxillofacial Surgery*, 37(4), 367–371. <https://doi.org/10.1016/j.ijom.2007.11.007>

