



SOLUNUM SİSTEMİ ANATOMİSİ

Dr. Selçuk Tunalı
TOBB ETÜ, 23 Kasım 2020

Burun

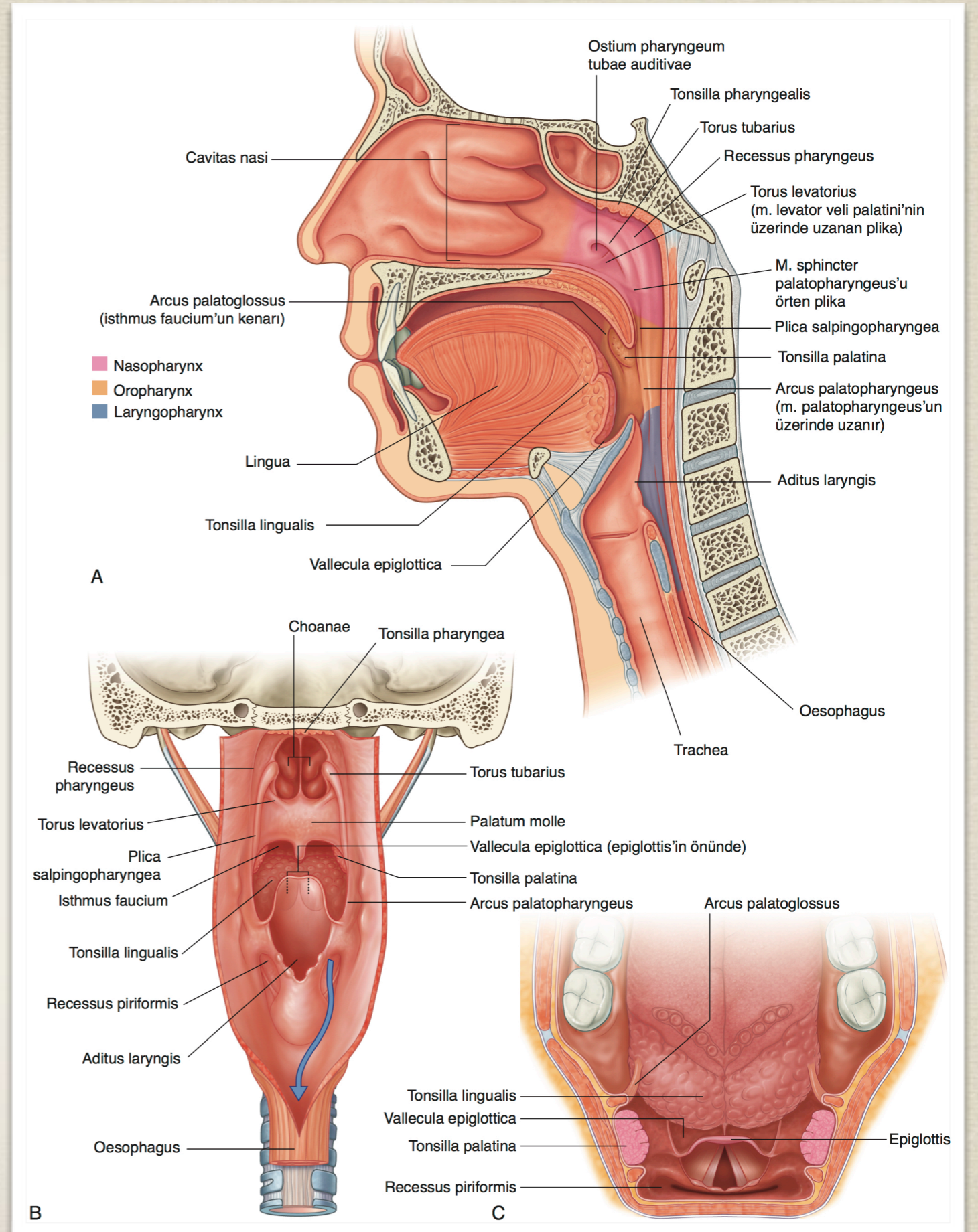
* Solunum

* Koku

* Kemik + kıkırdak +
kas + deri

* Nasus externus

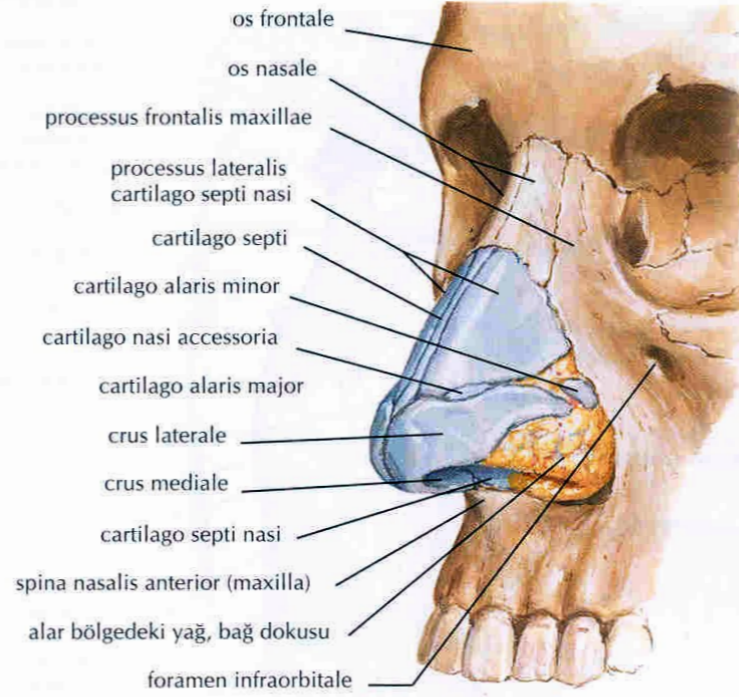
* Cavitas nasi



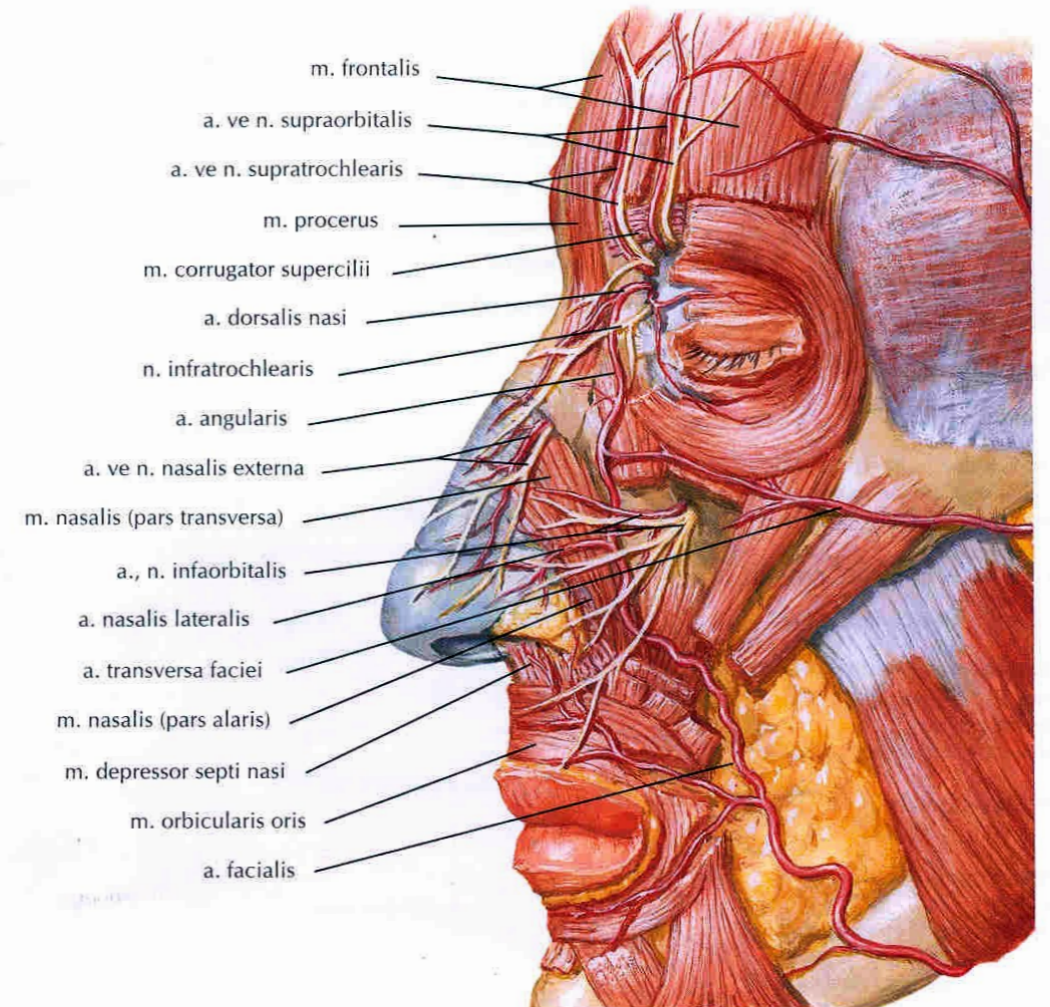
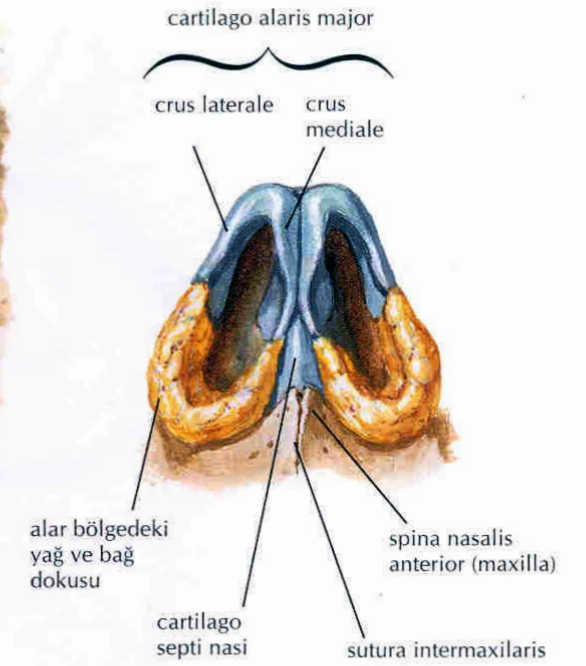
Nasus Externus-1

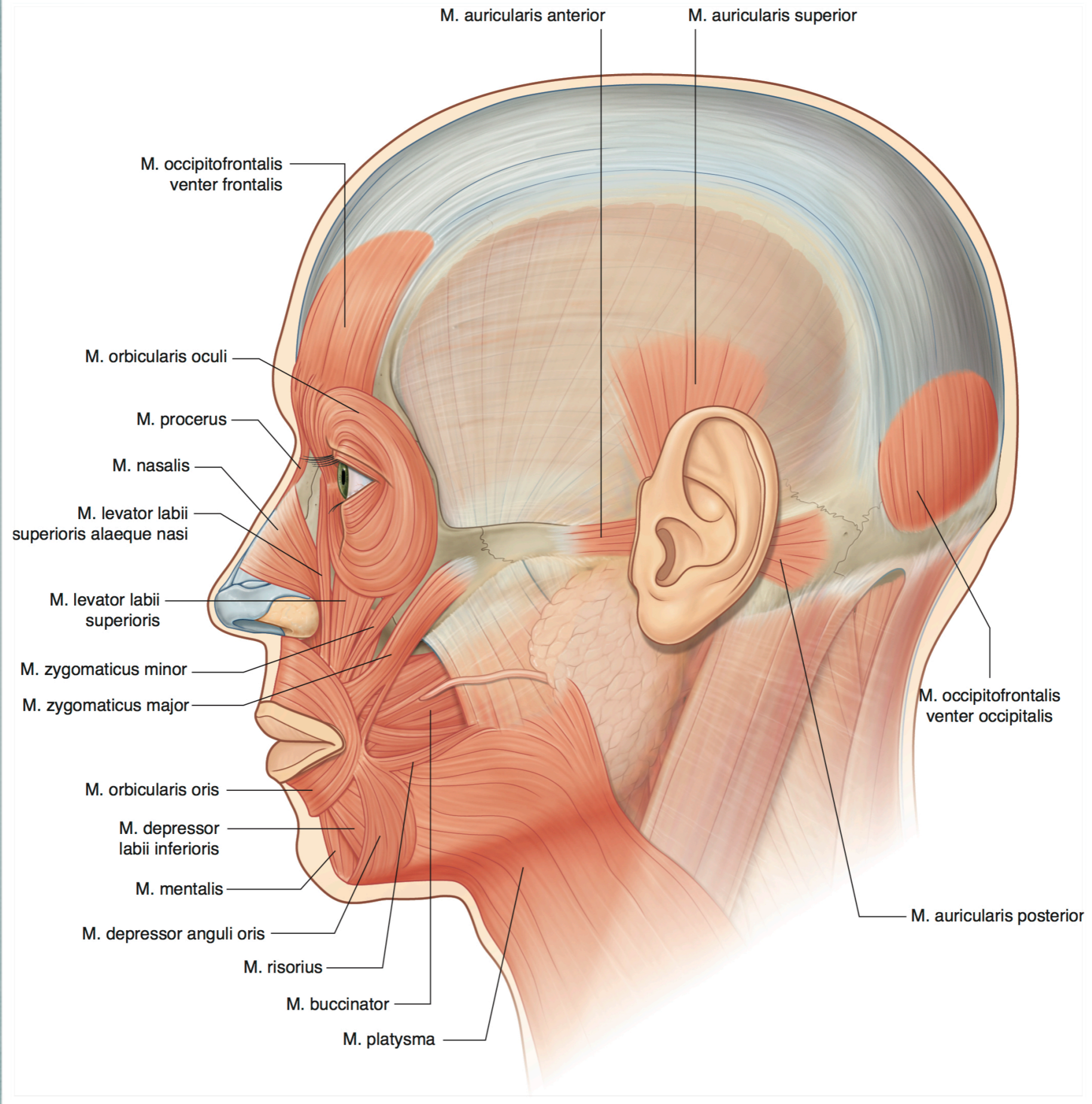
- * Dorsum nasi
- * Radix nasi
- * Apex nasi
- * Nares
- * Alae nasi
- * Deride yağ bezleri
- * Deri altında kaslar

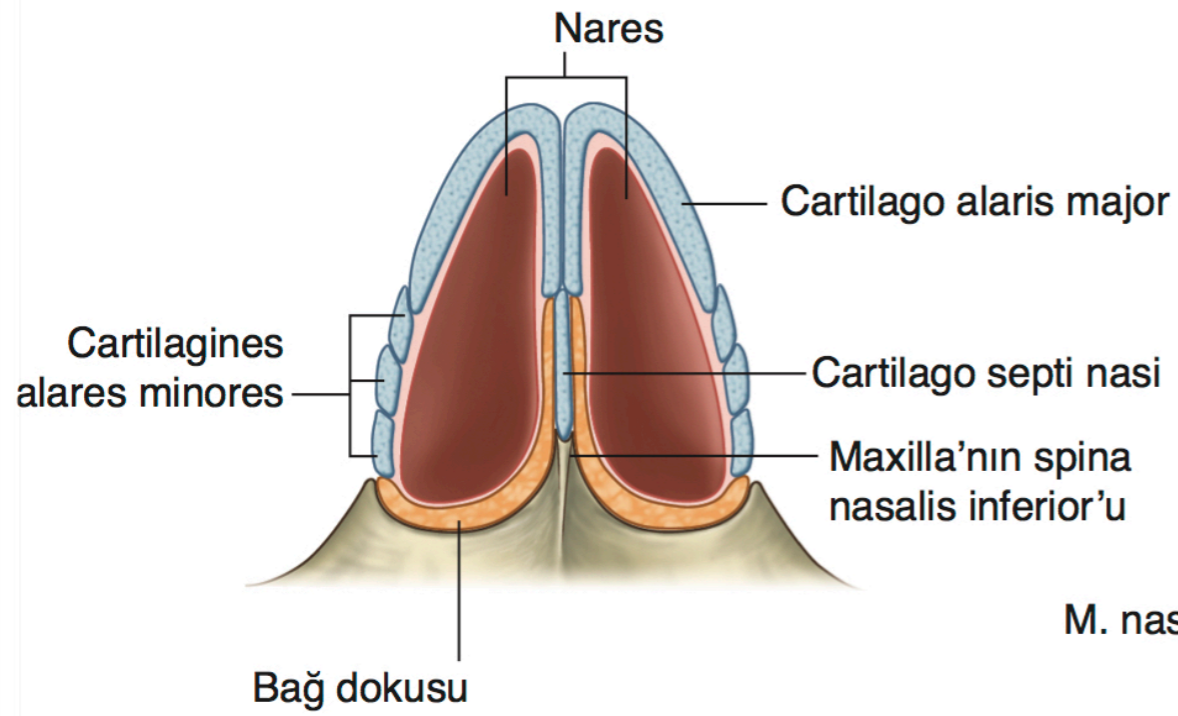
Anterolateral'den görünüşü



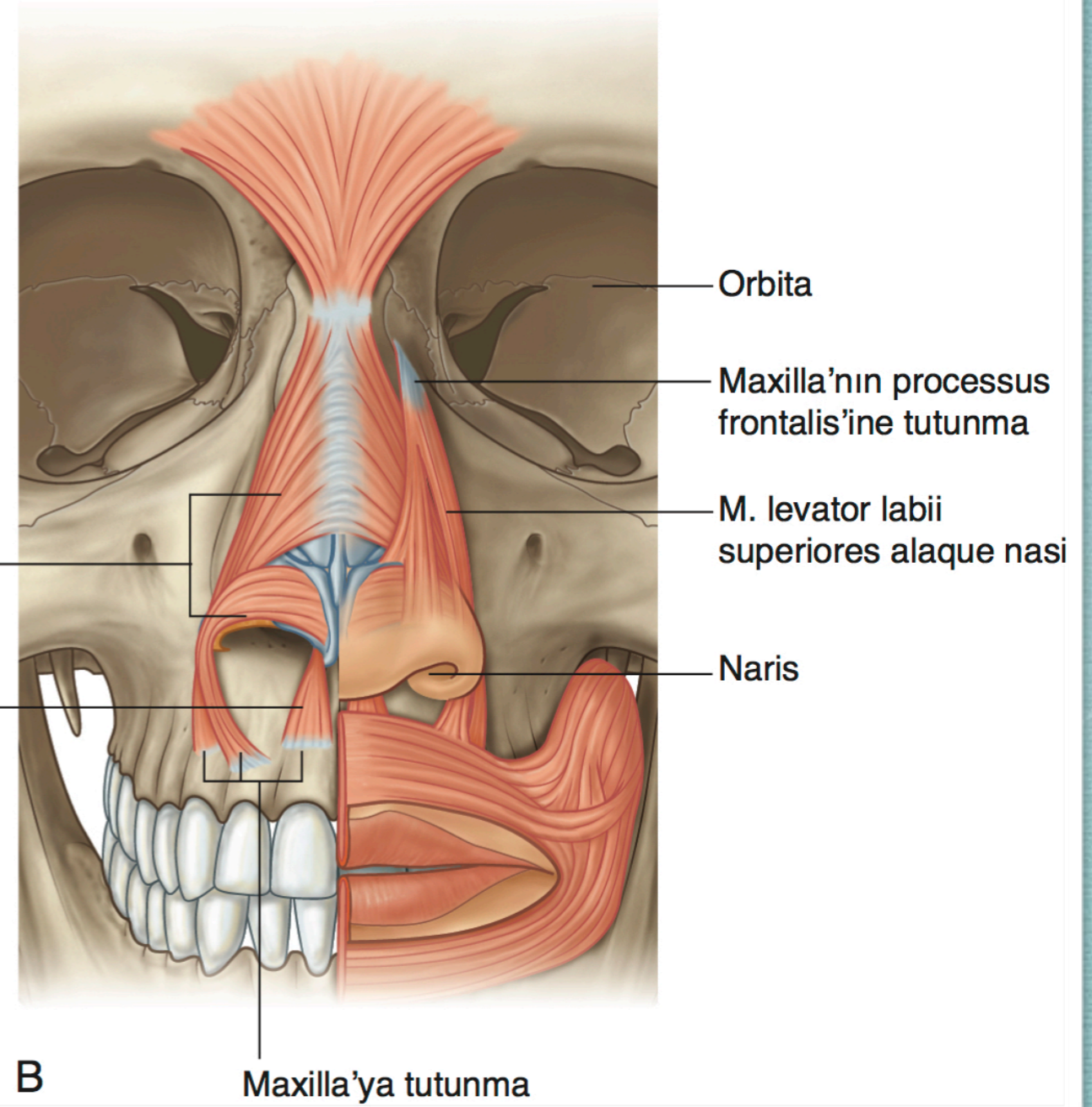
Alttan görünüşü







A

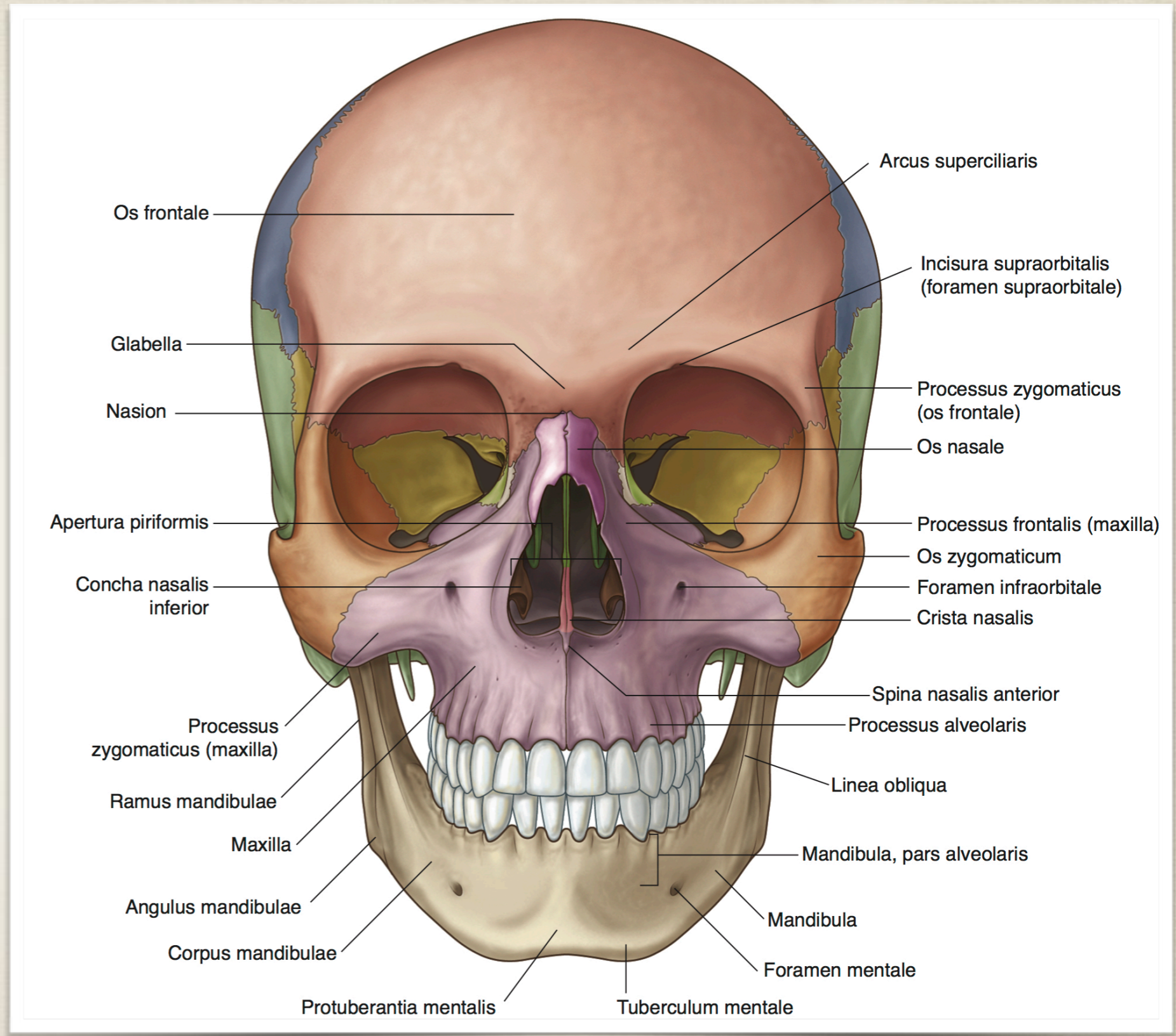


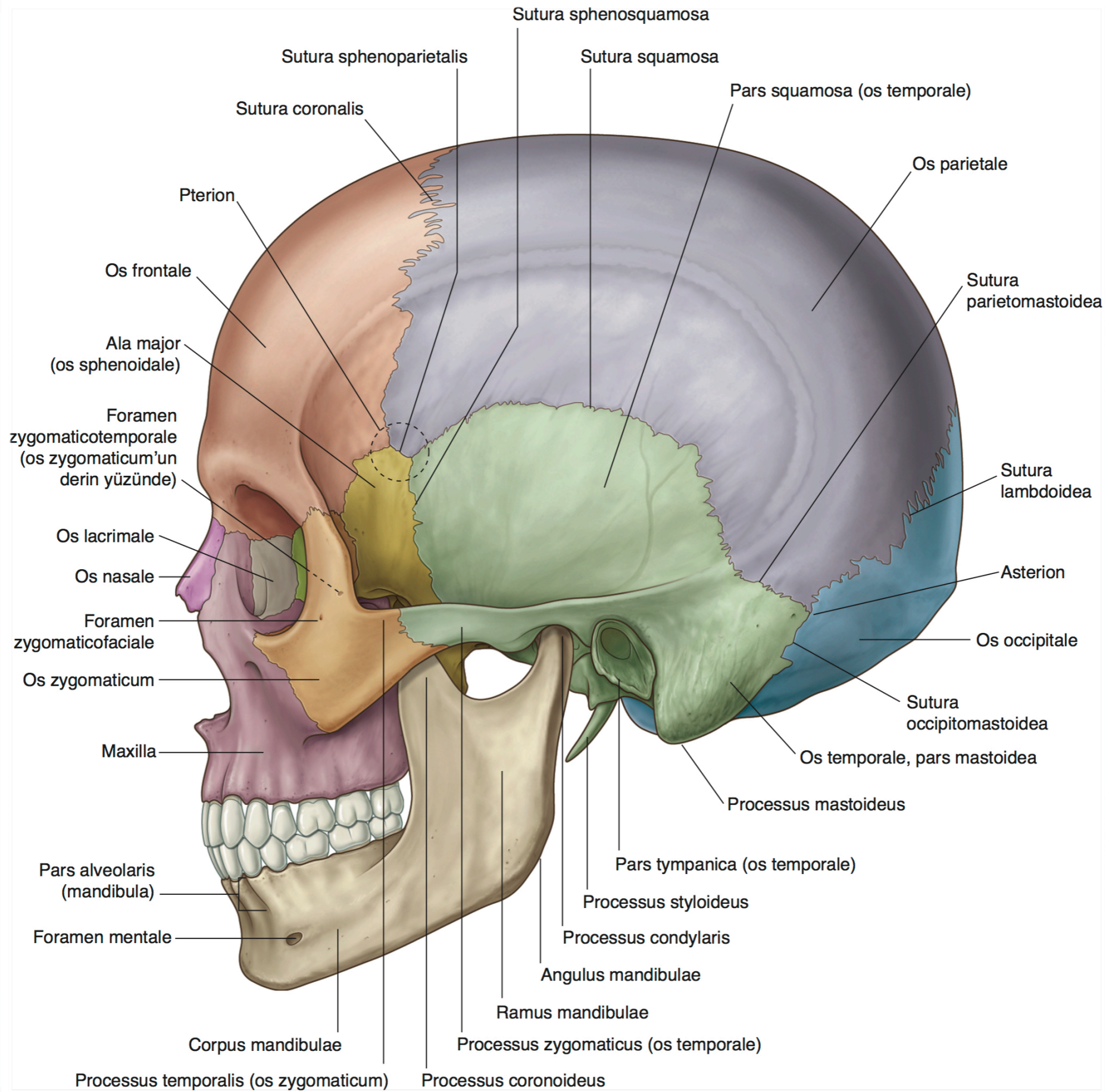
B



Nasus Externus-2

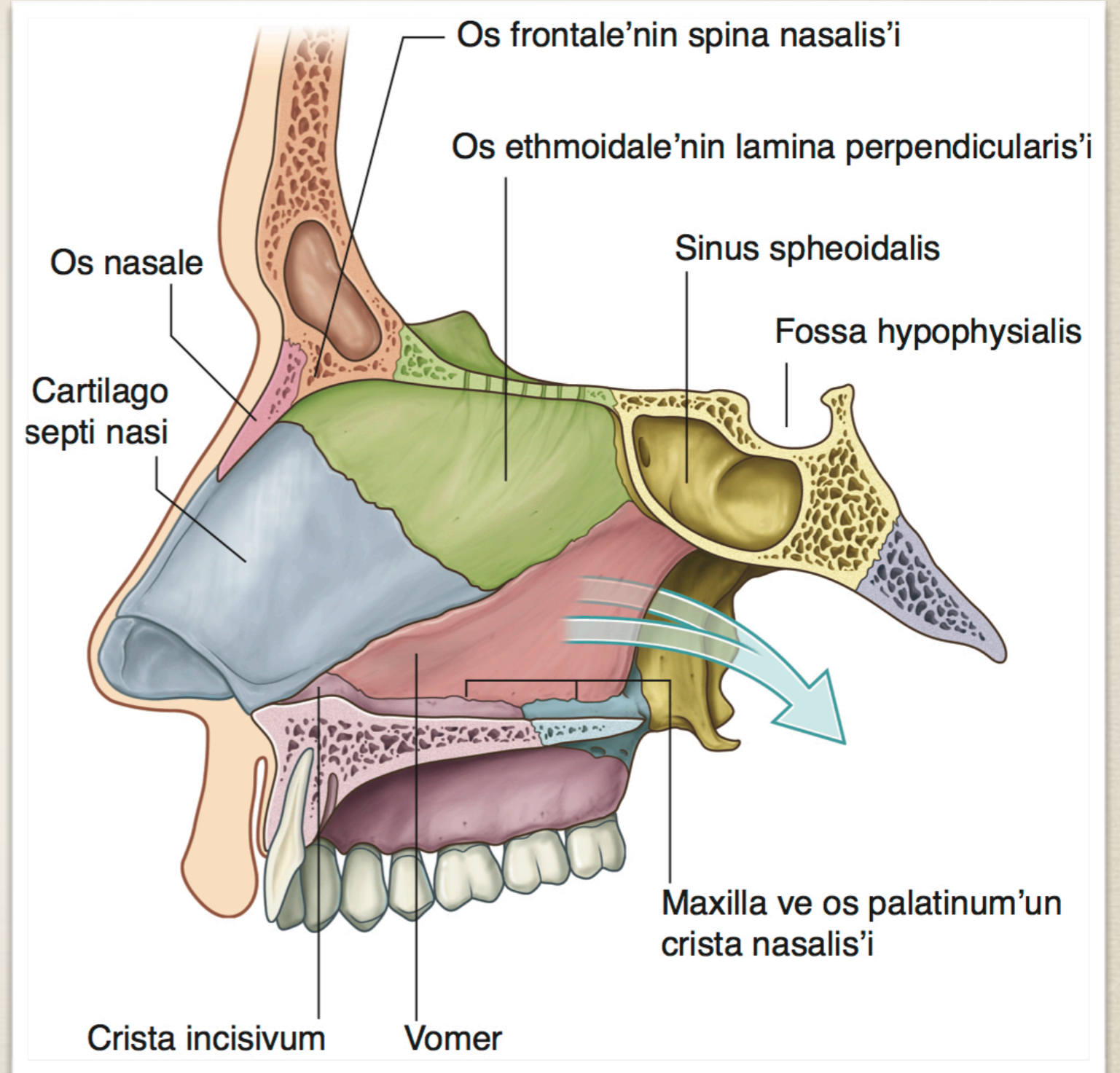
- * Os nasale
- * Maxilla
- * Apertura piriformis
- * Os frontale

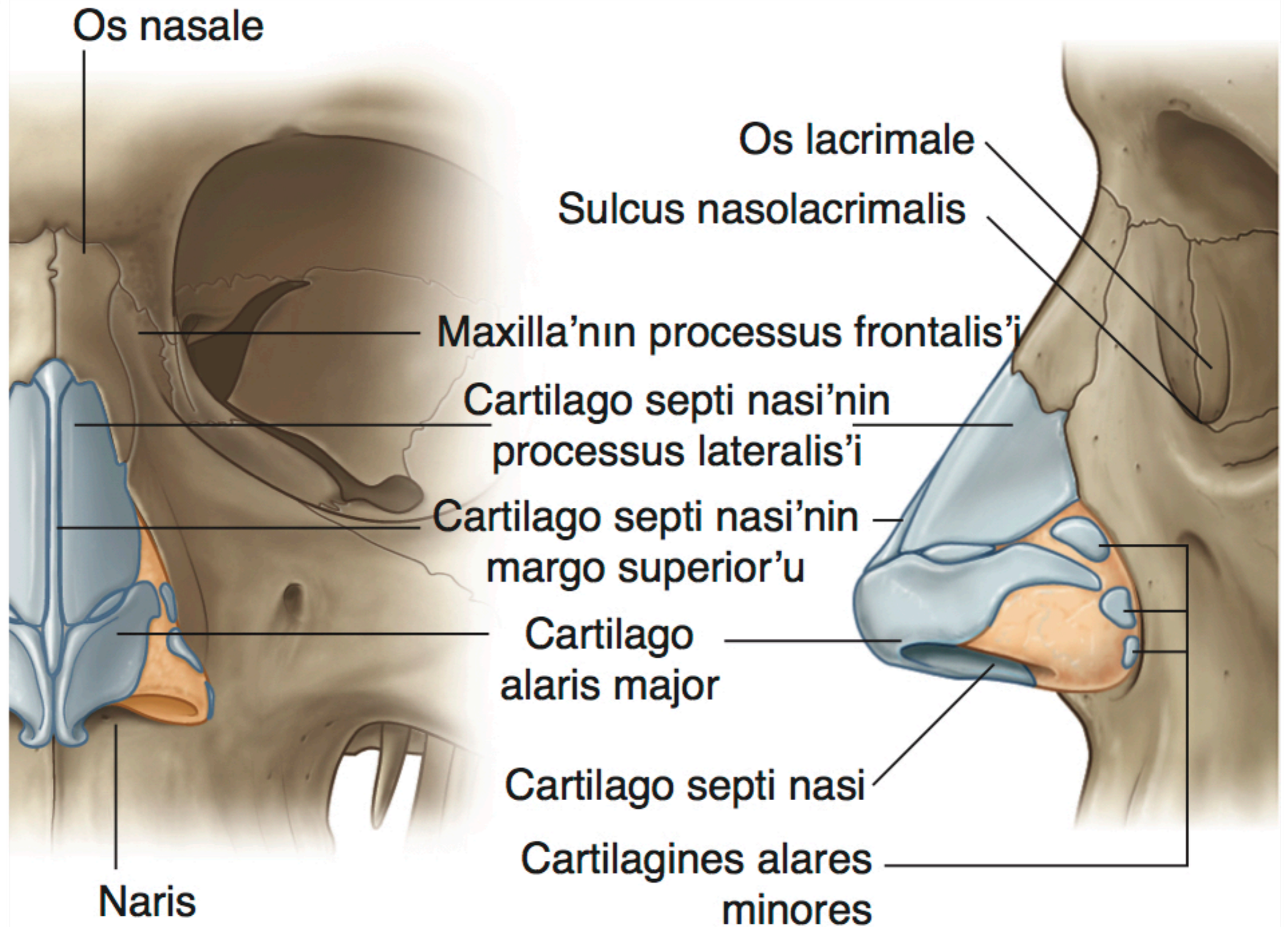


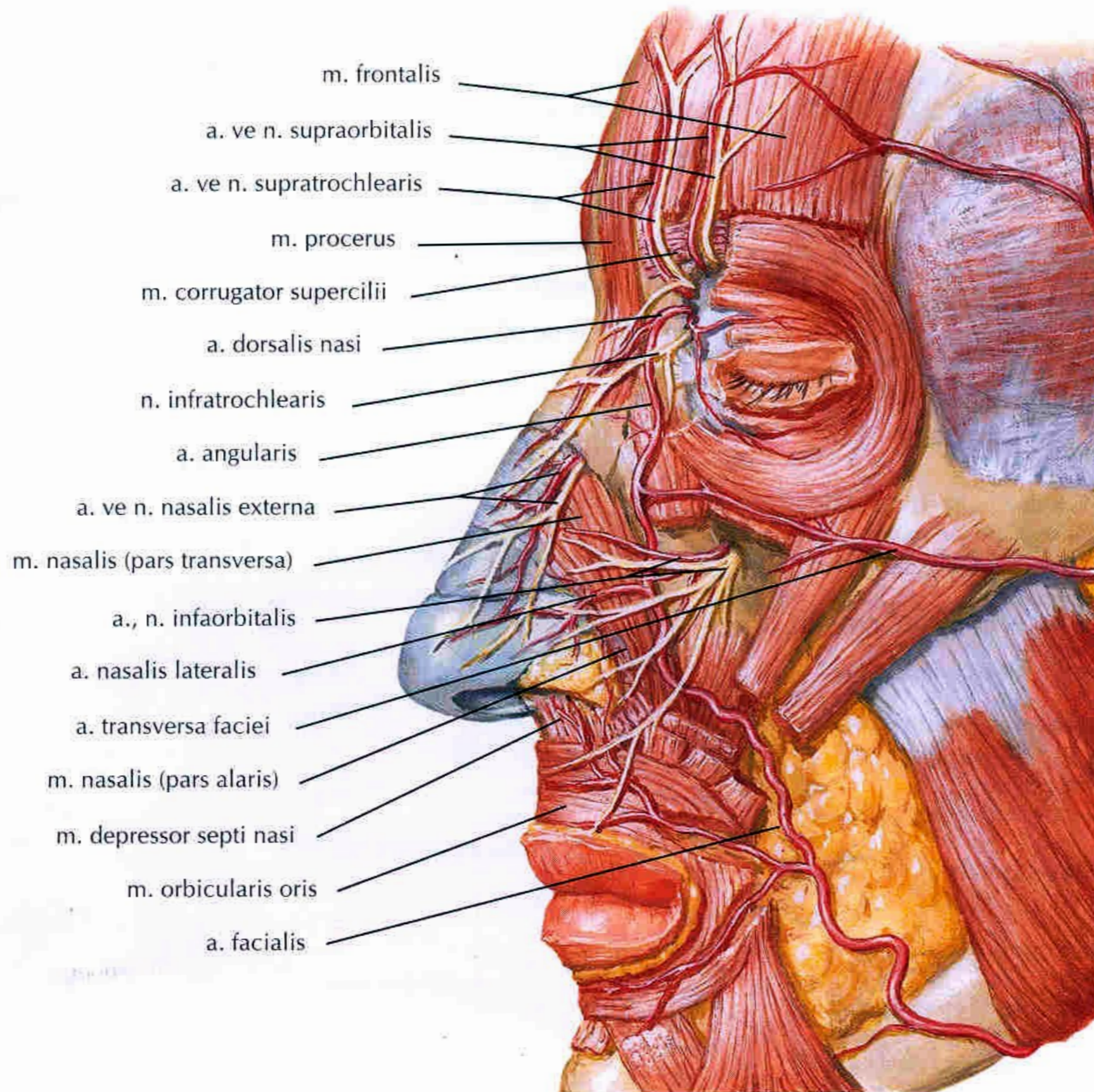


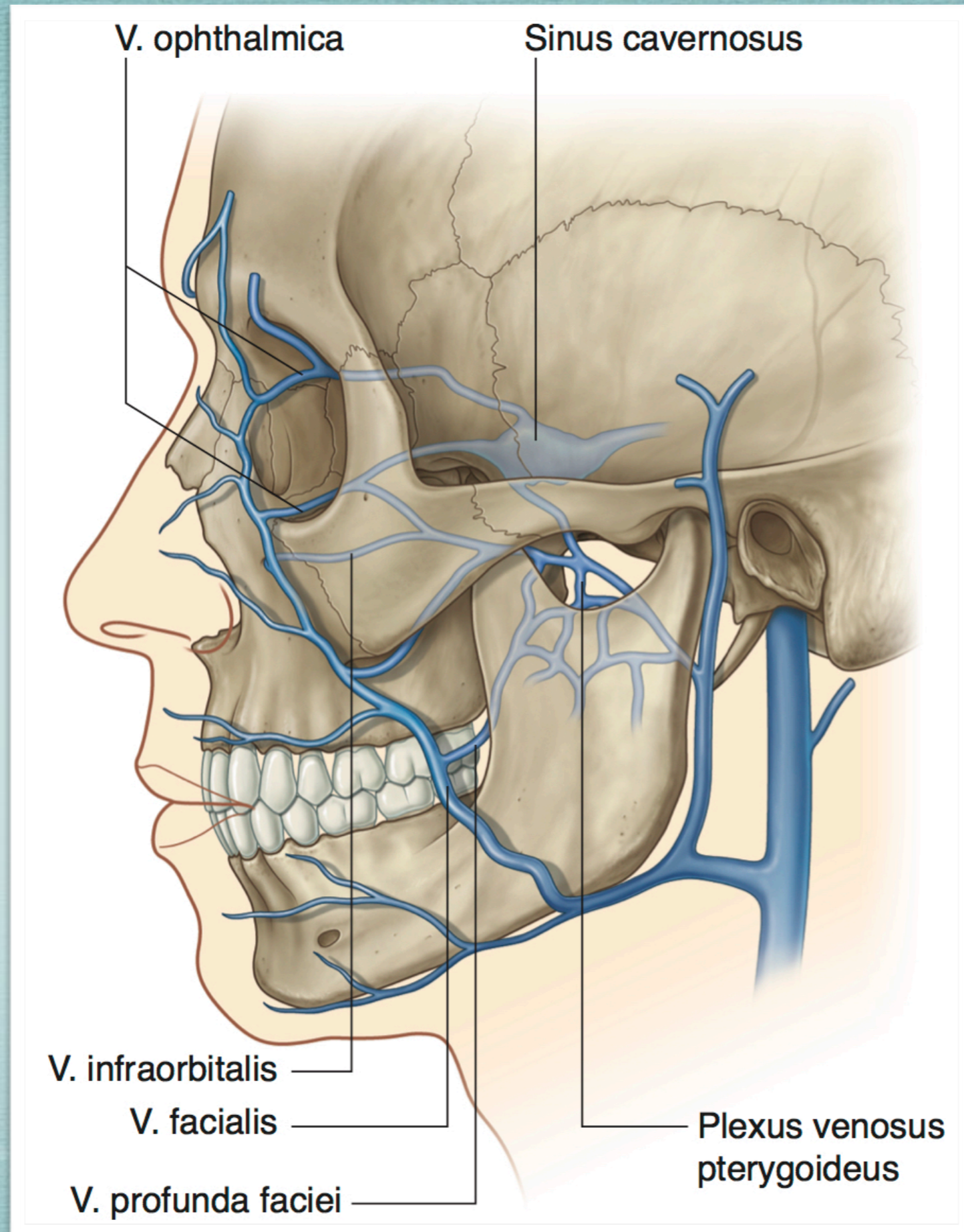
Burun Kıkırdakları

- * Cartilago septi nasi
- * Cartilago alaris major
- * Cartilagine alares minores









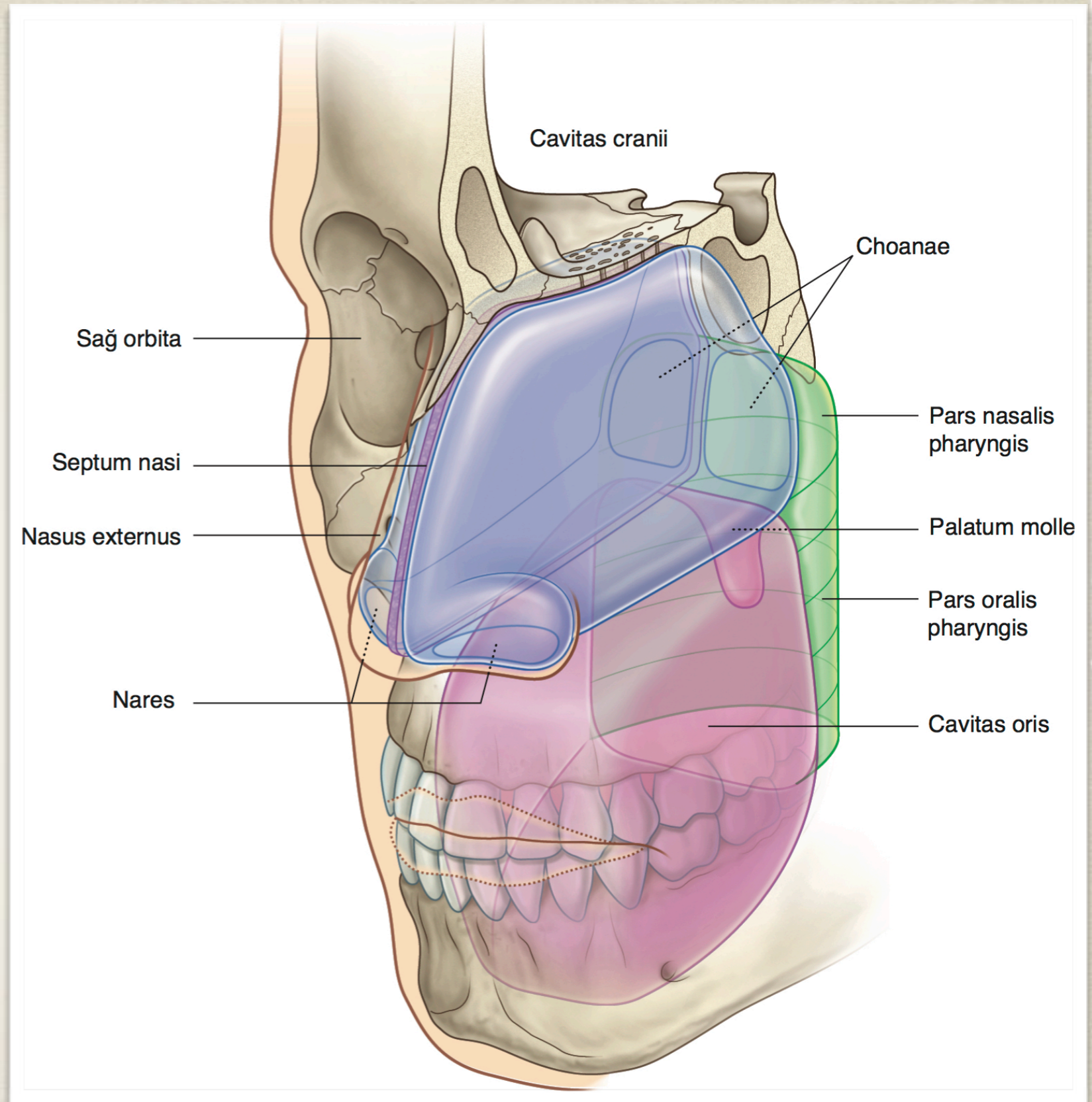


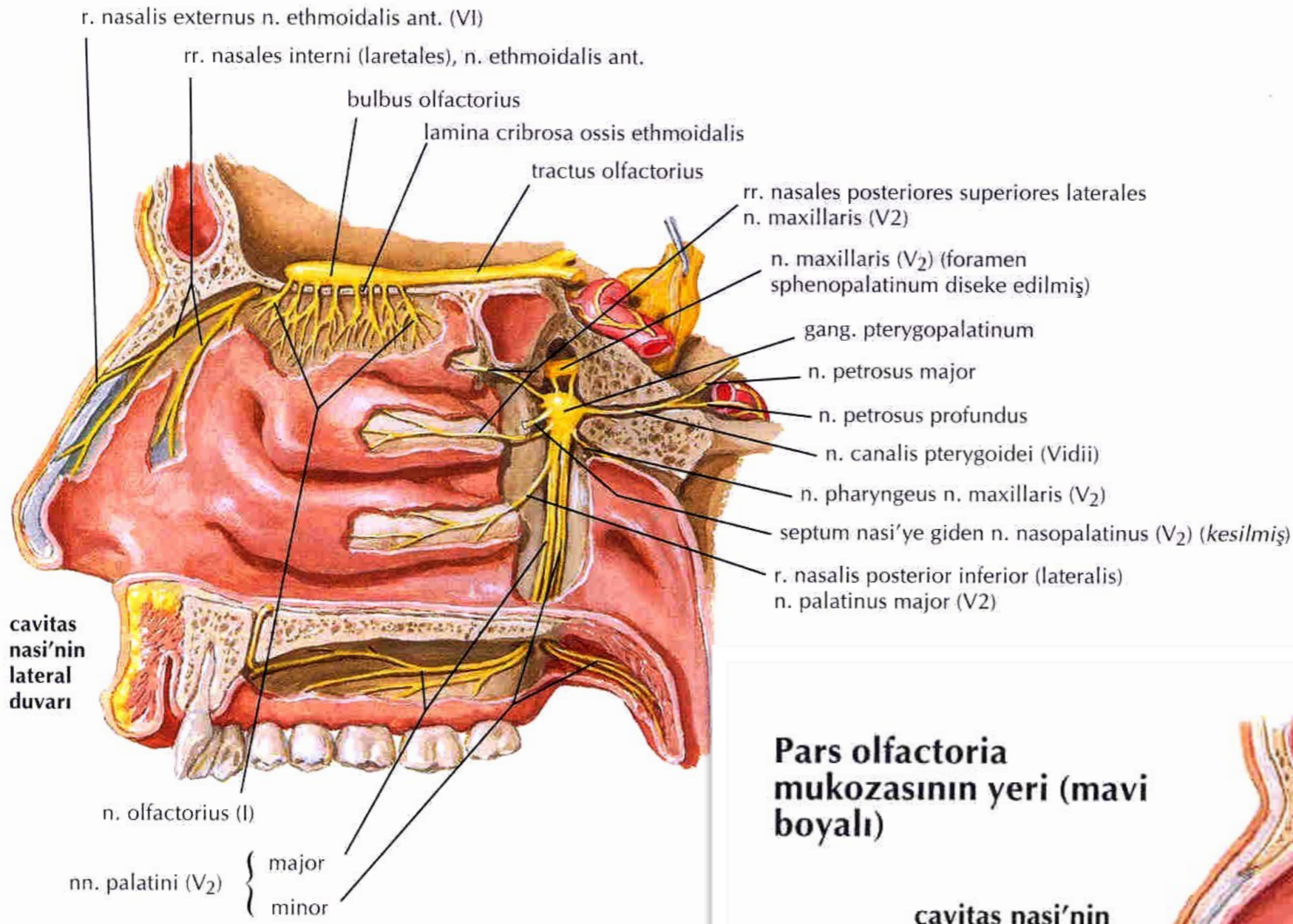
Gal Gadot



Cavitas Nasi – 1

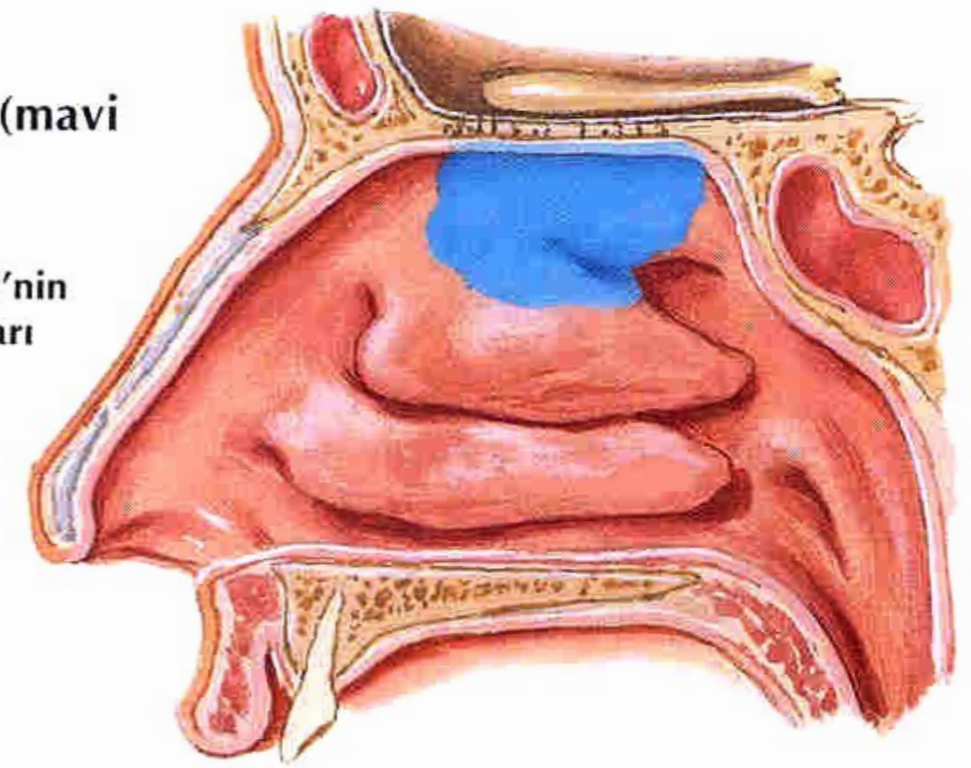
- * Nares
- * Choanae
- * Vestibulum nasi
- * Septum nasi
- * Regio olfactoria
- * Regio respiratoria



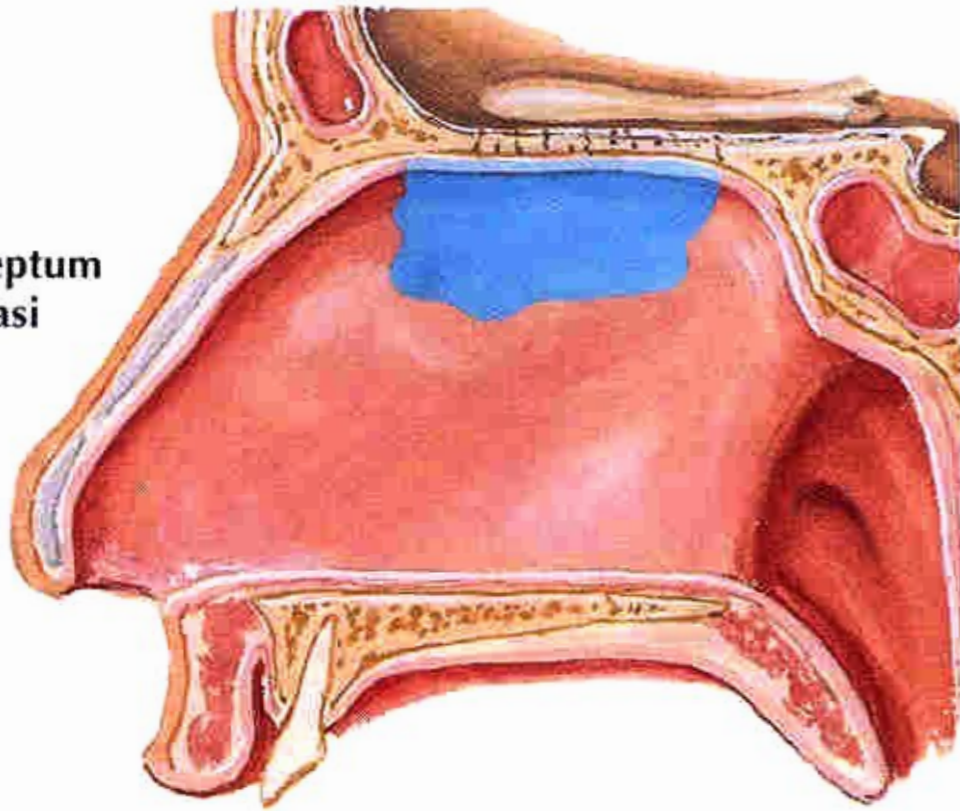


Pars olfactoria mukozasının yeri (mavi boyalı)

cavitas nasi'nin lateral duvarı



septum
nasi



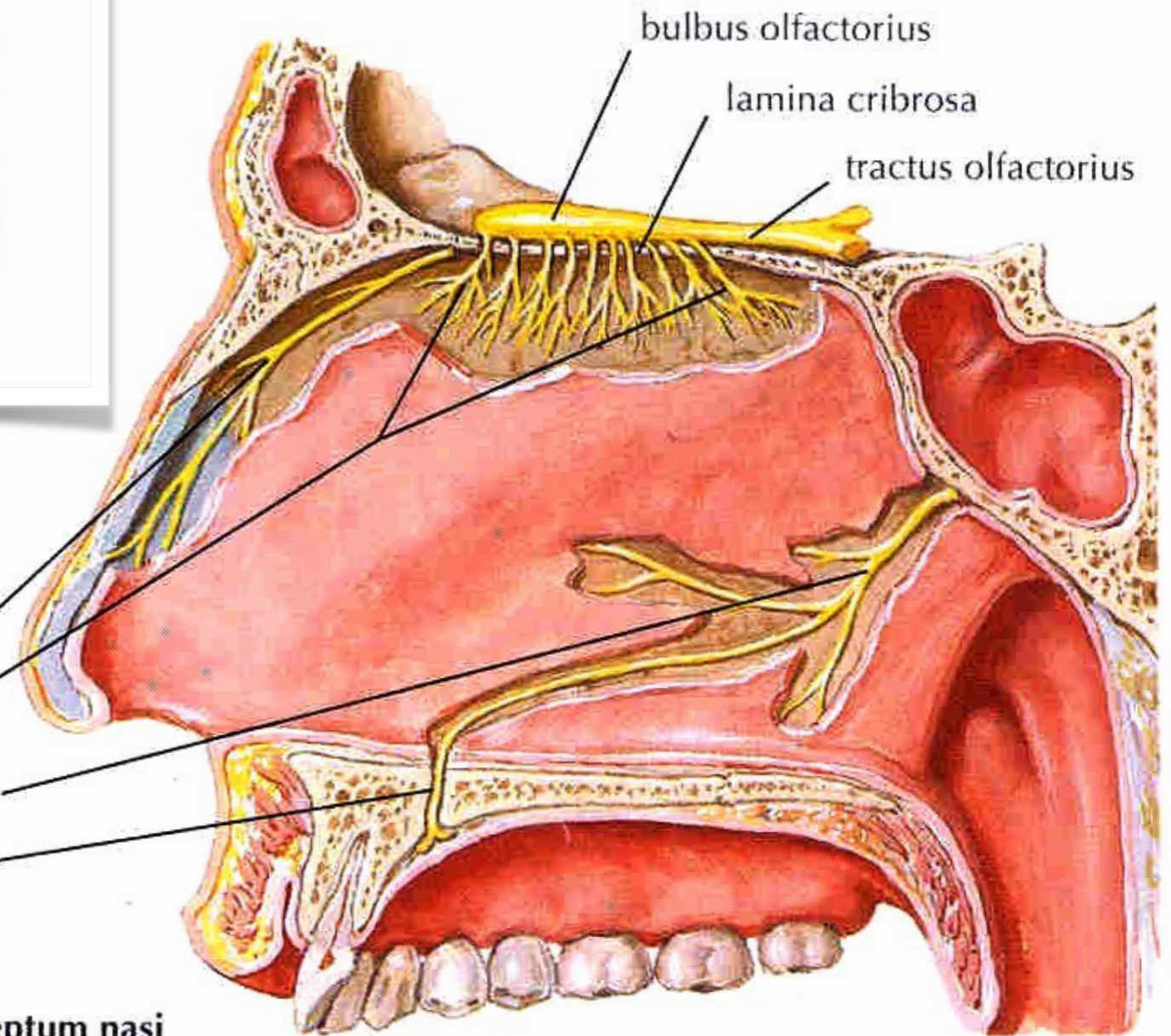
rr. nasales interni
(mediales) n. ethmoidalis ant. (V₁)

n. olfactorius (I)

n. nasopalatinus (V₂)

canalis incisivus

Septum nasi



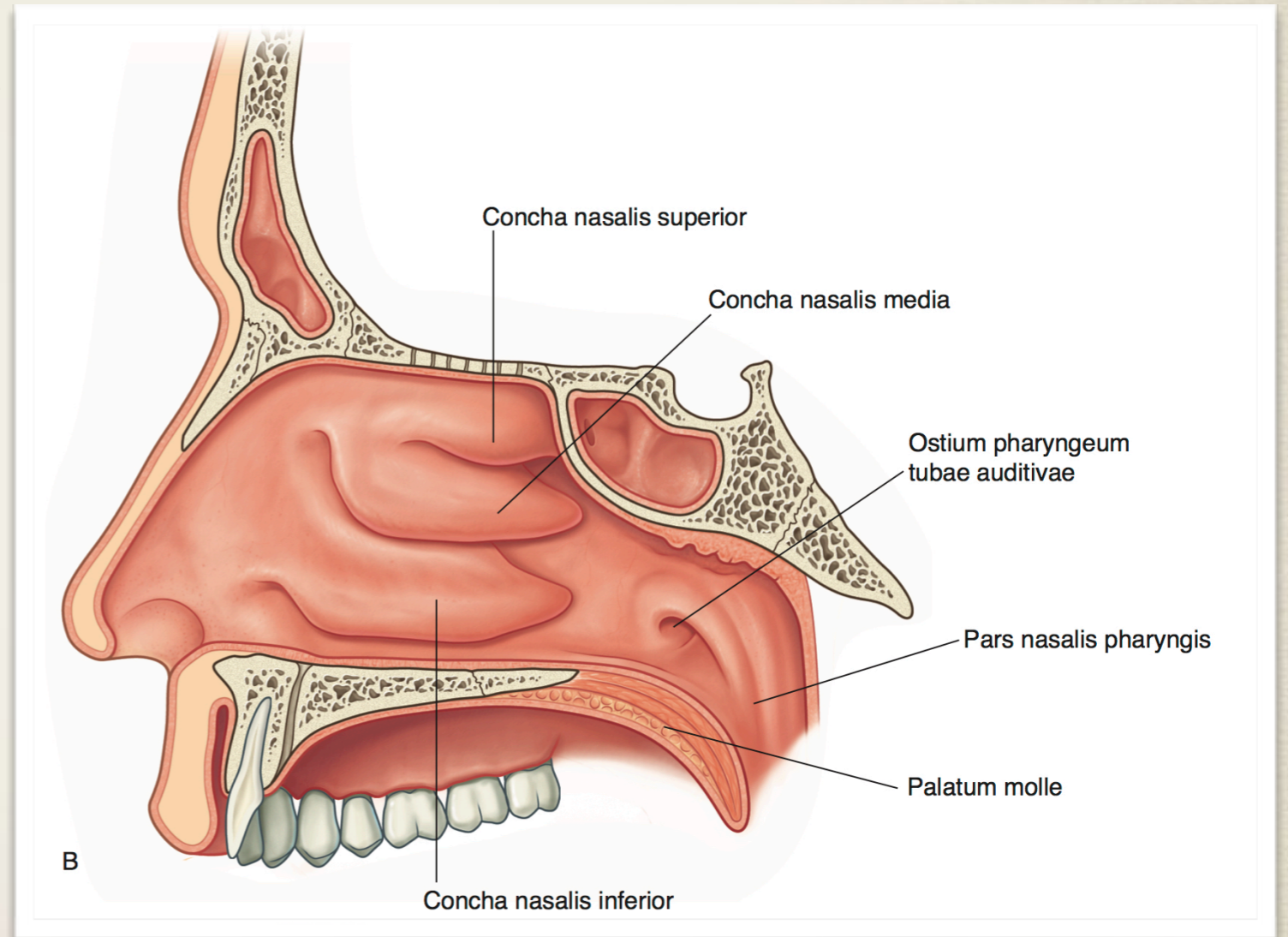
bulbus olfactorius

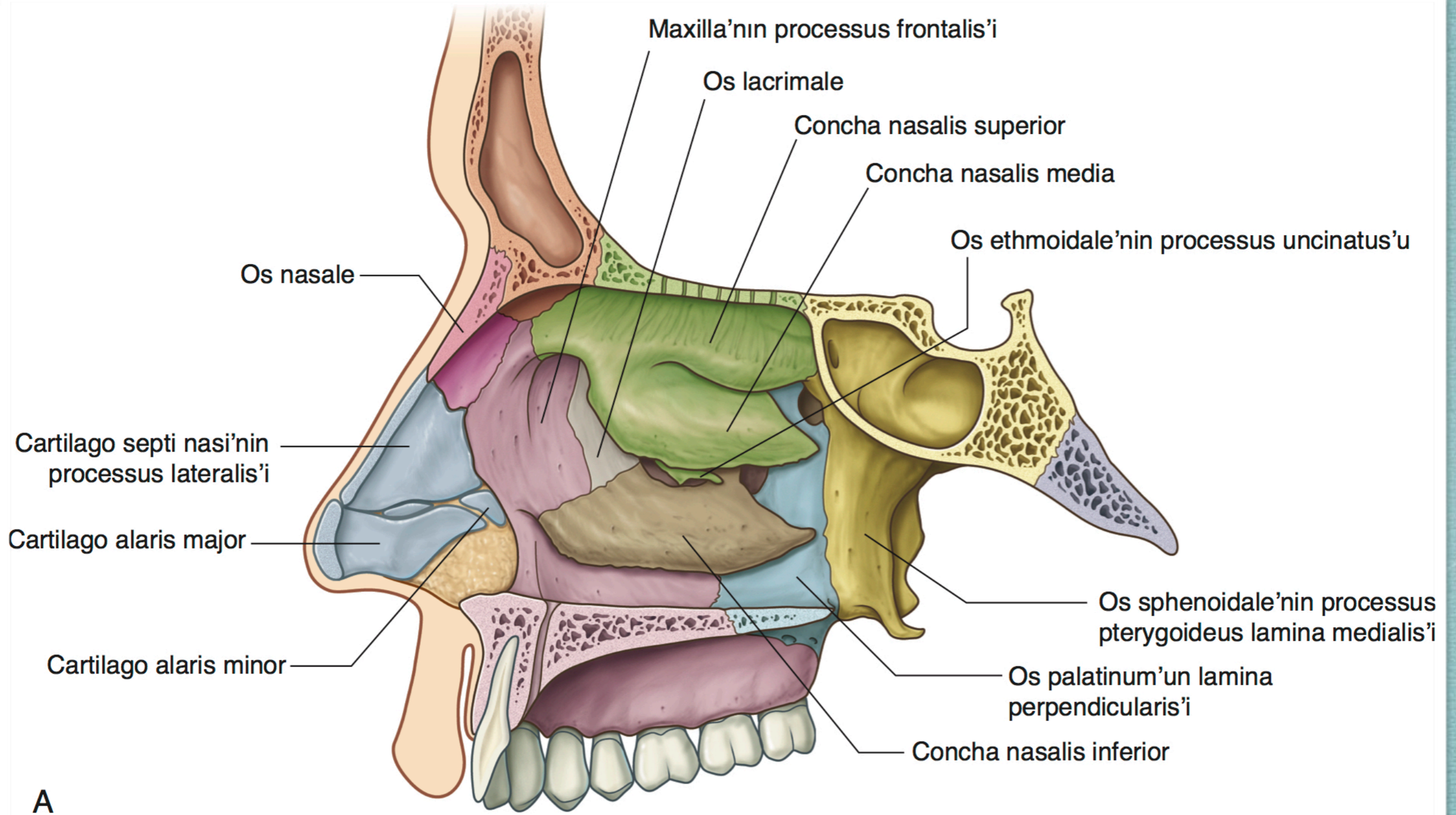
lamina cribrosa

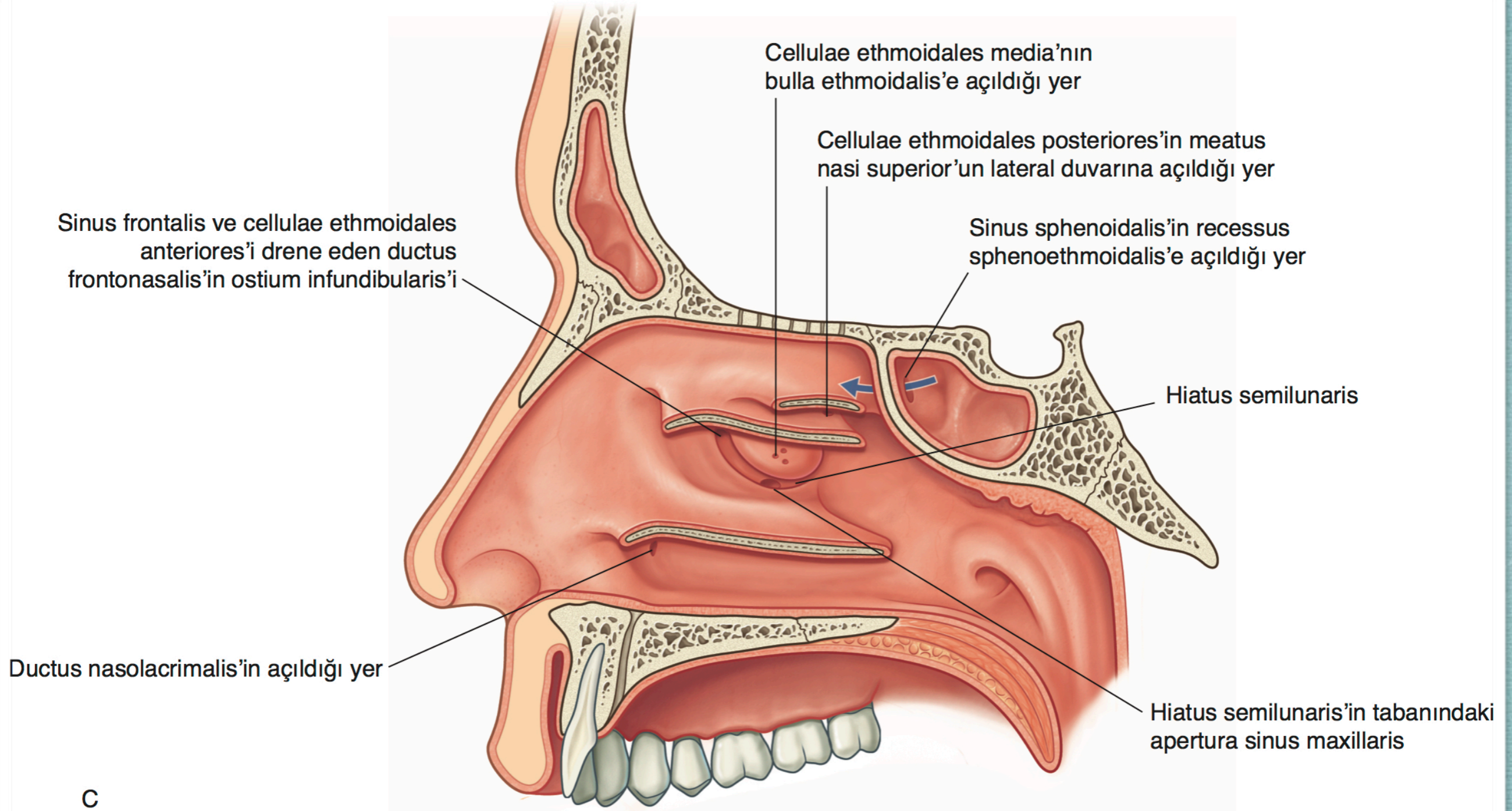
tractus olfactorius

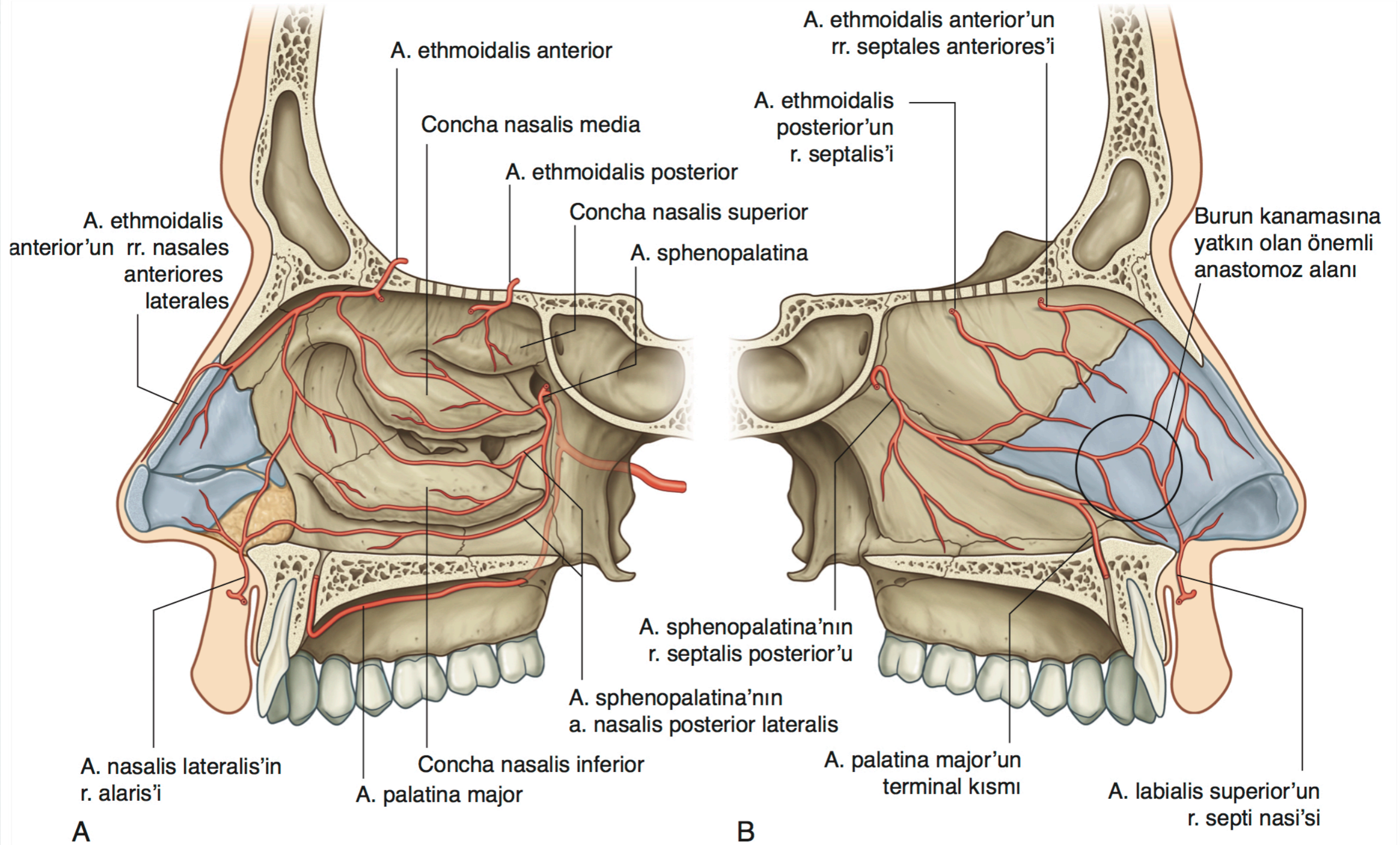
Cavitas Nasi – 2

- * Concha nasalis superior
- * Concha nasalis media
- * Concha nasalis inferior
- * Meatus nasi superior
- * Meatus nasi medius
- * Meatus nasi inferior



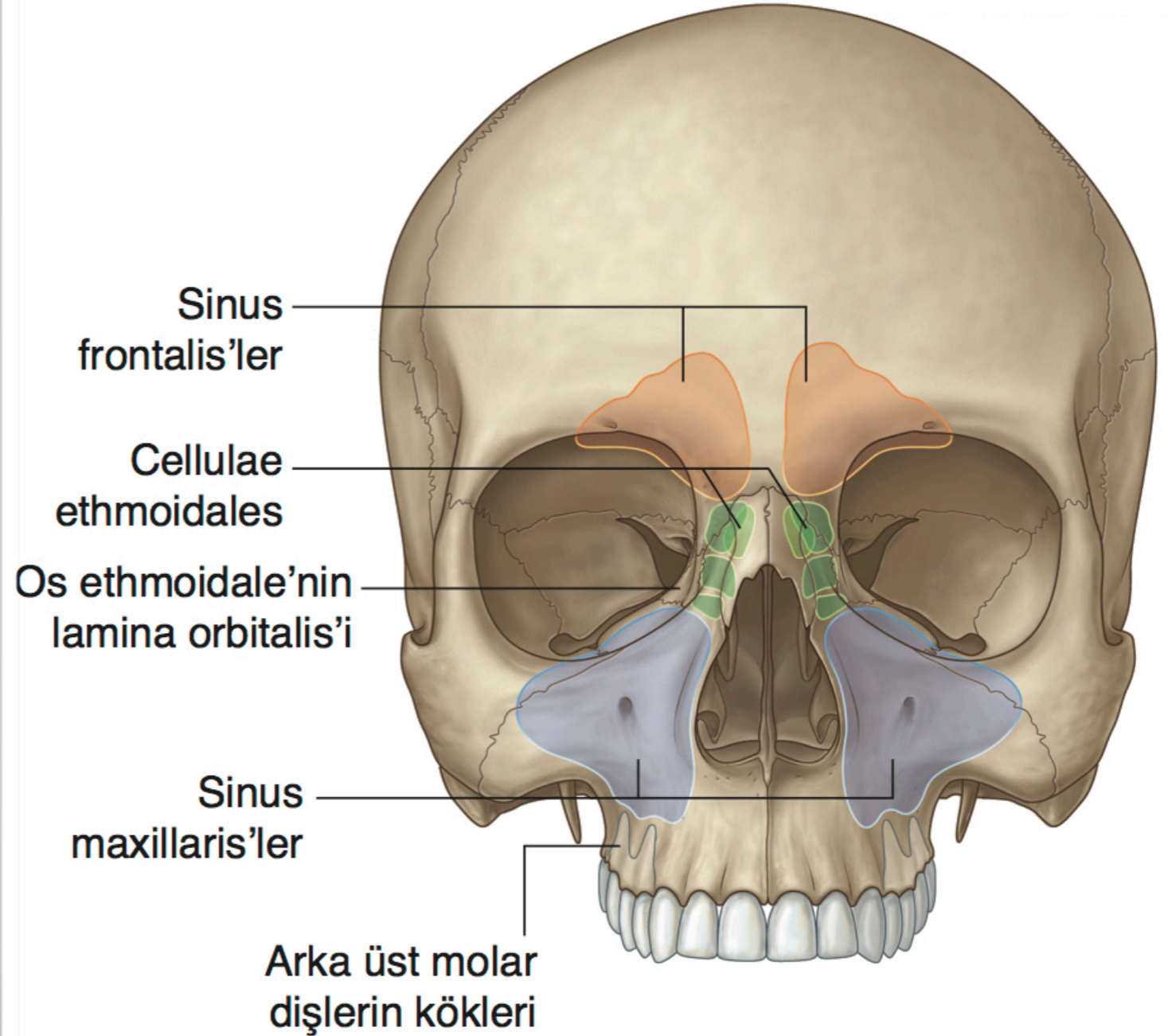


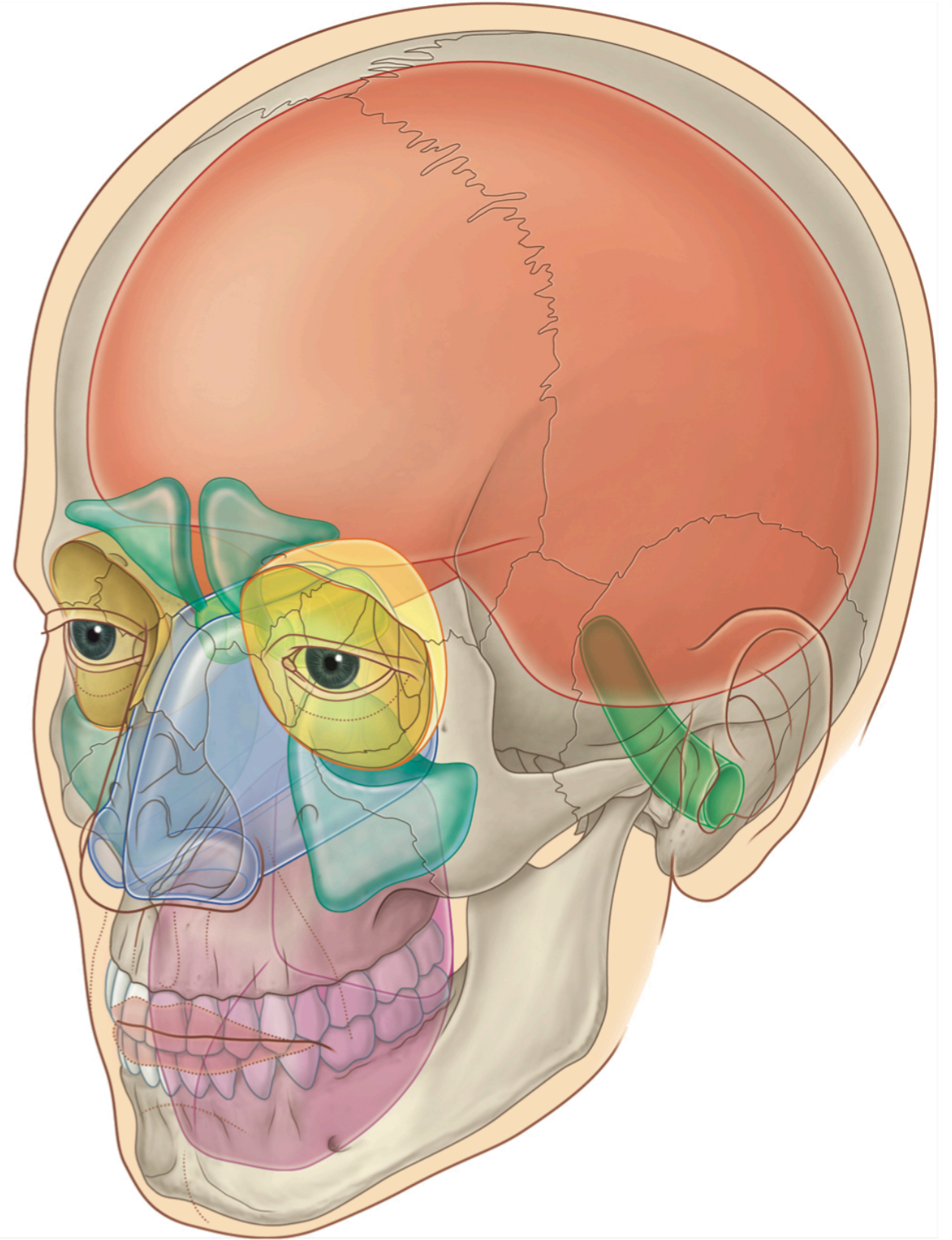
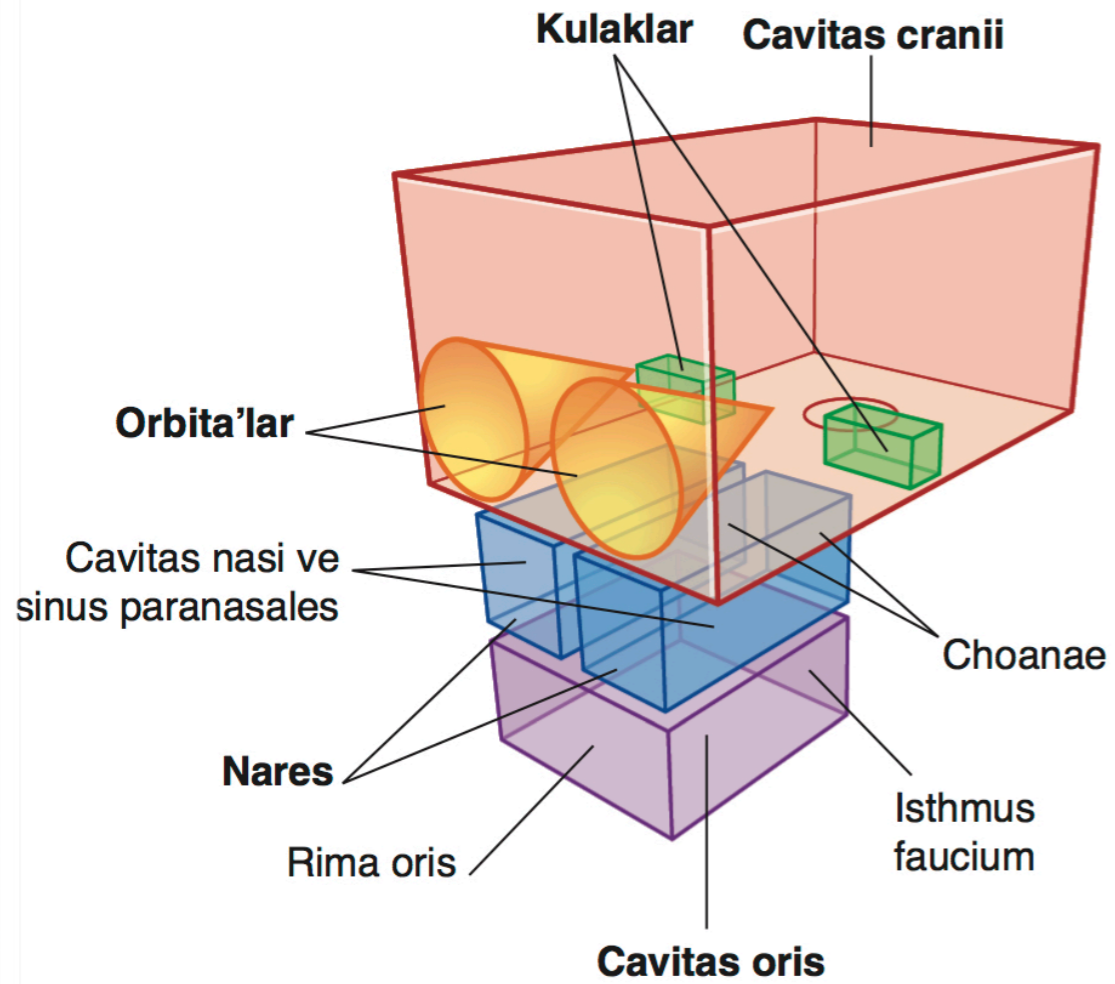




Paranasal Sinüsler – 1

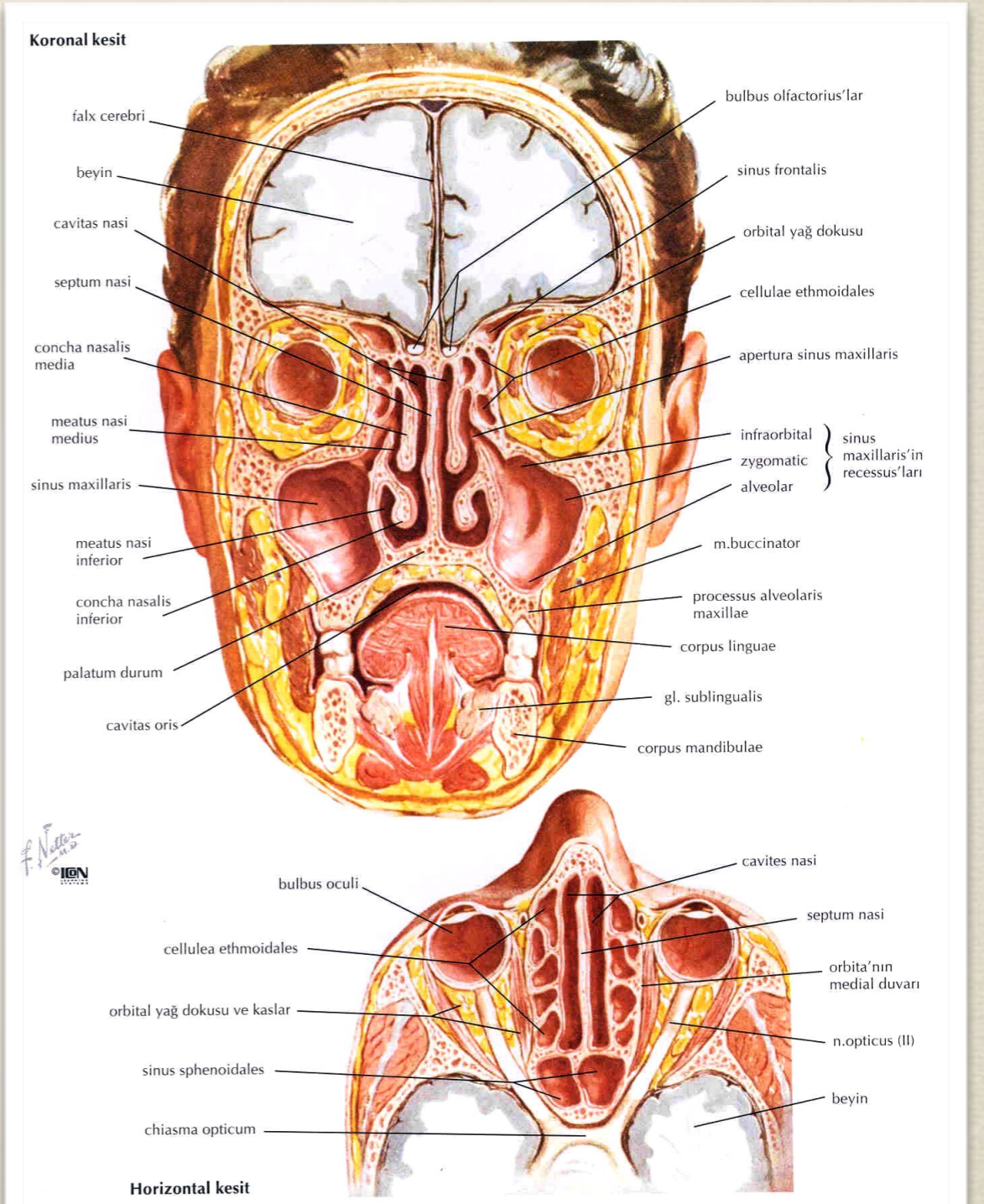
- * Mukoza ile örtülü
- * İçi hava dolu
- * Kemiklerin ağırlığını azaltır
- * Sese rezonans verir

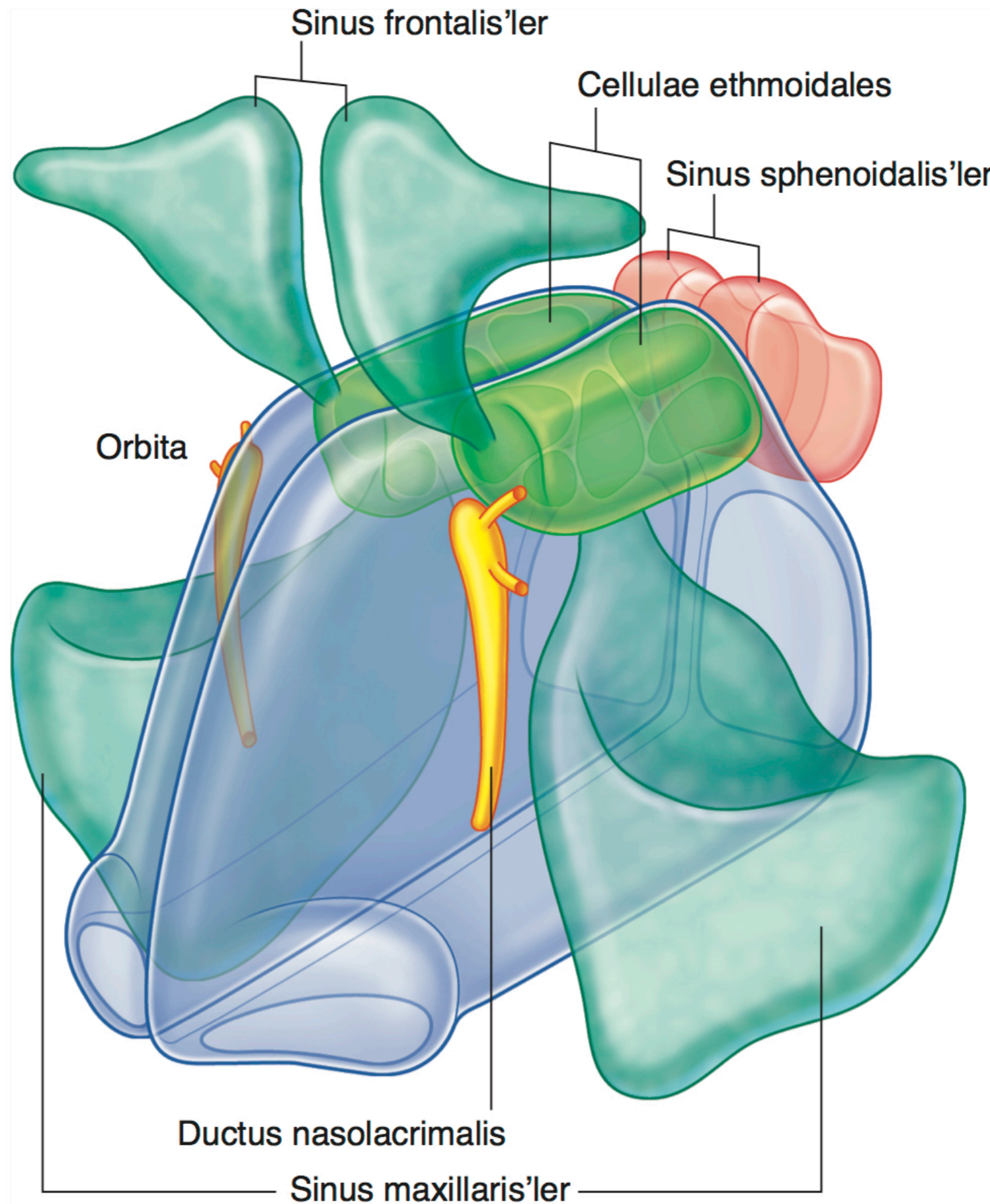




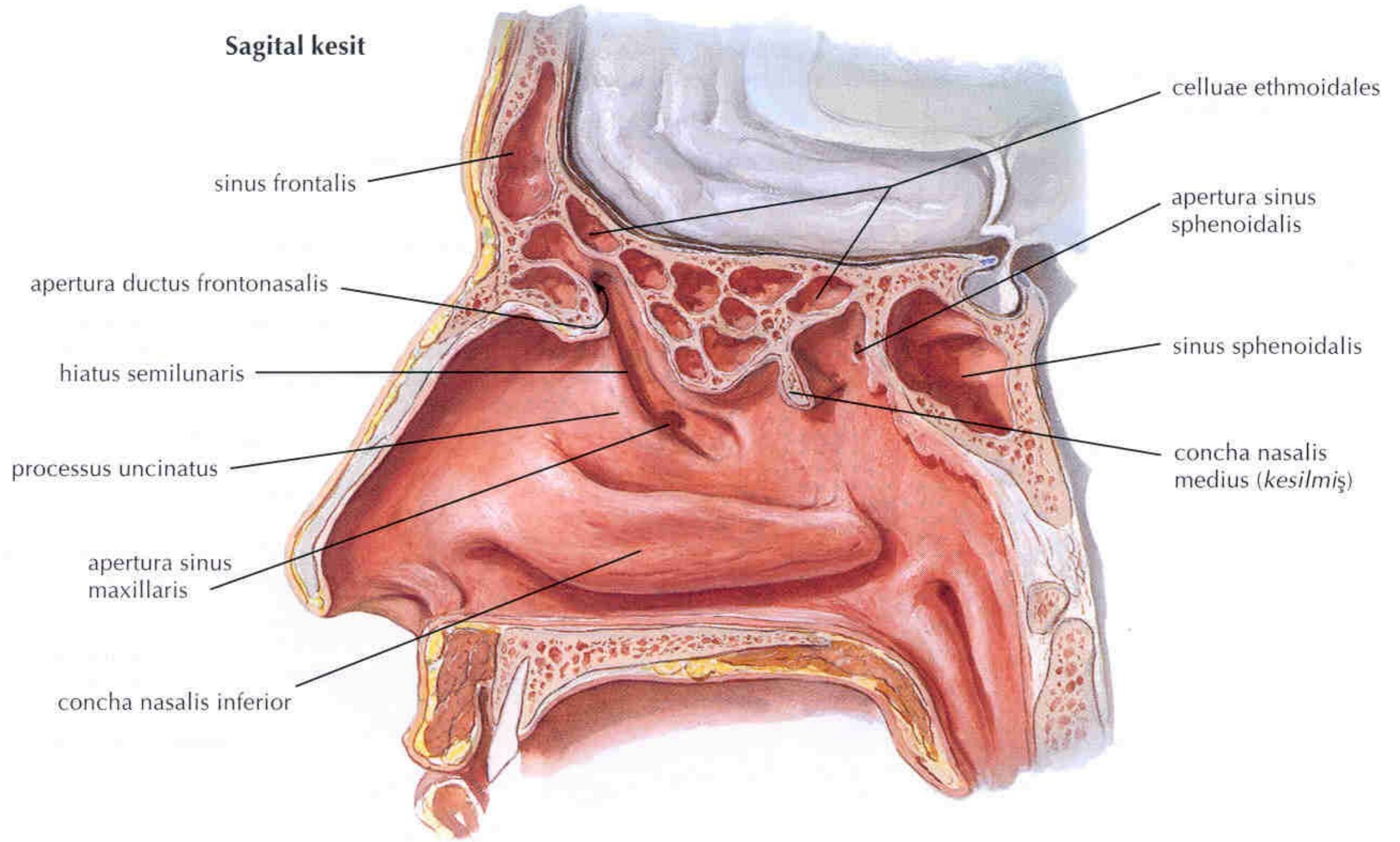
Paranasal Sinüsler – 2

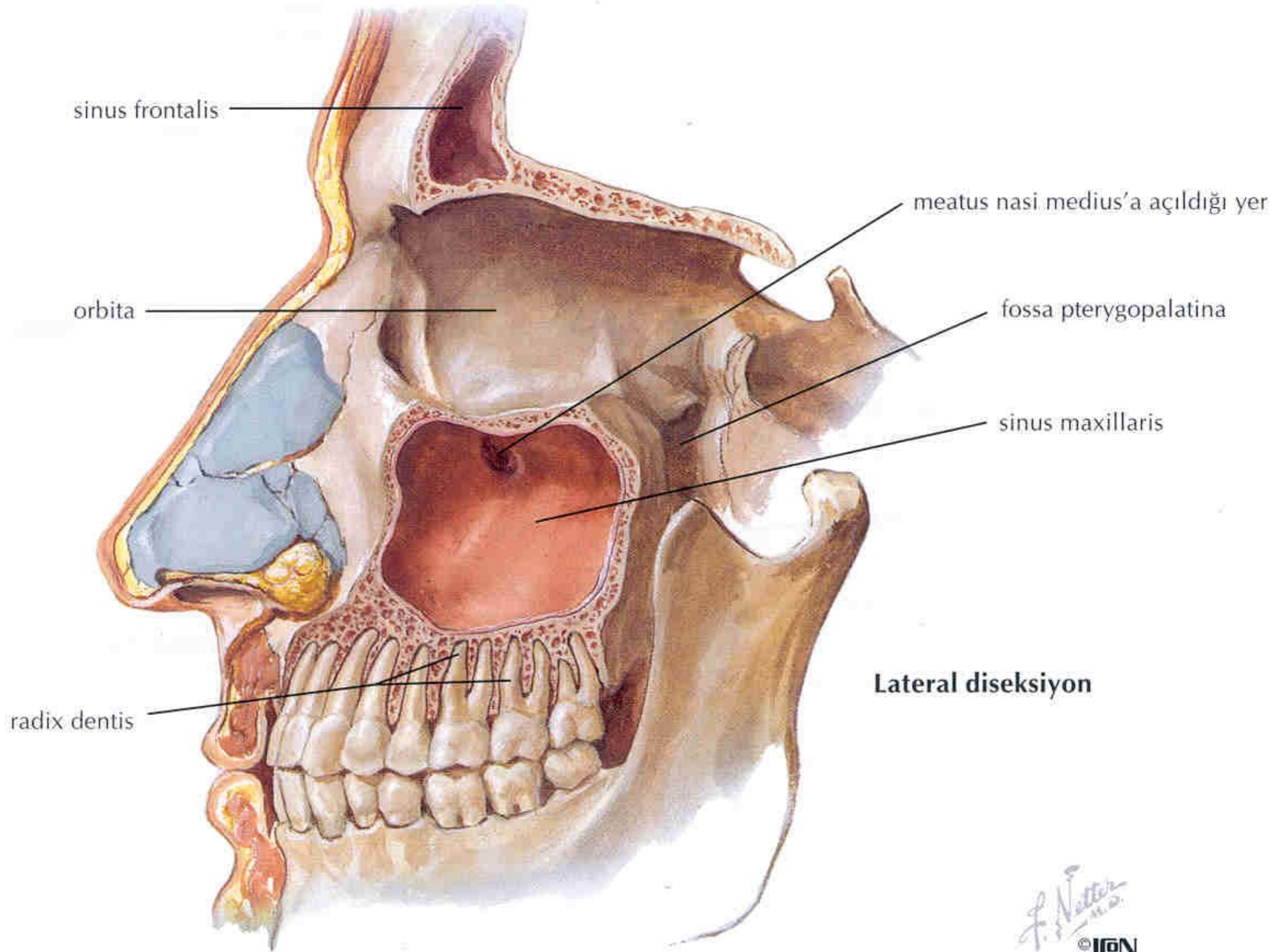
- * Sinus frontalis
- * Sinus sphenoidalis
- * Cellulae ethmoidales
- * Sinus maxillaris



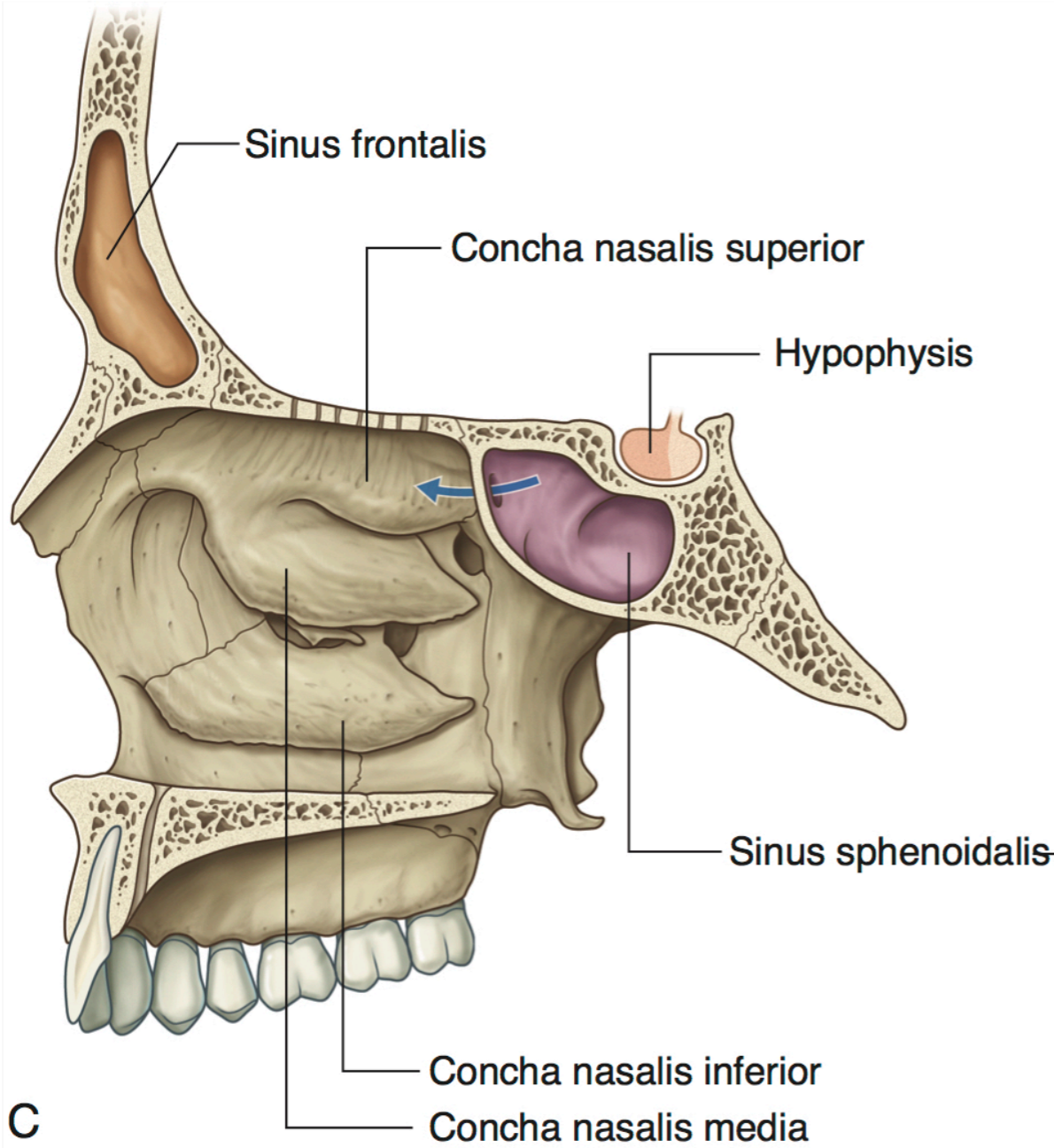


Sagittal kesit

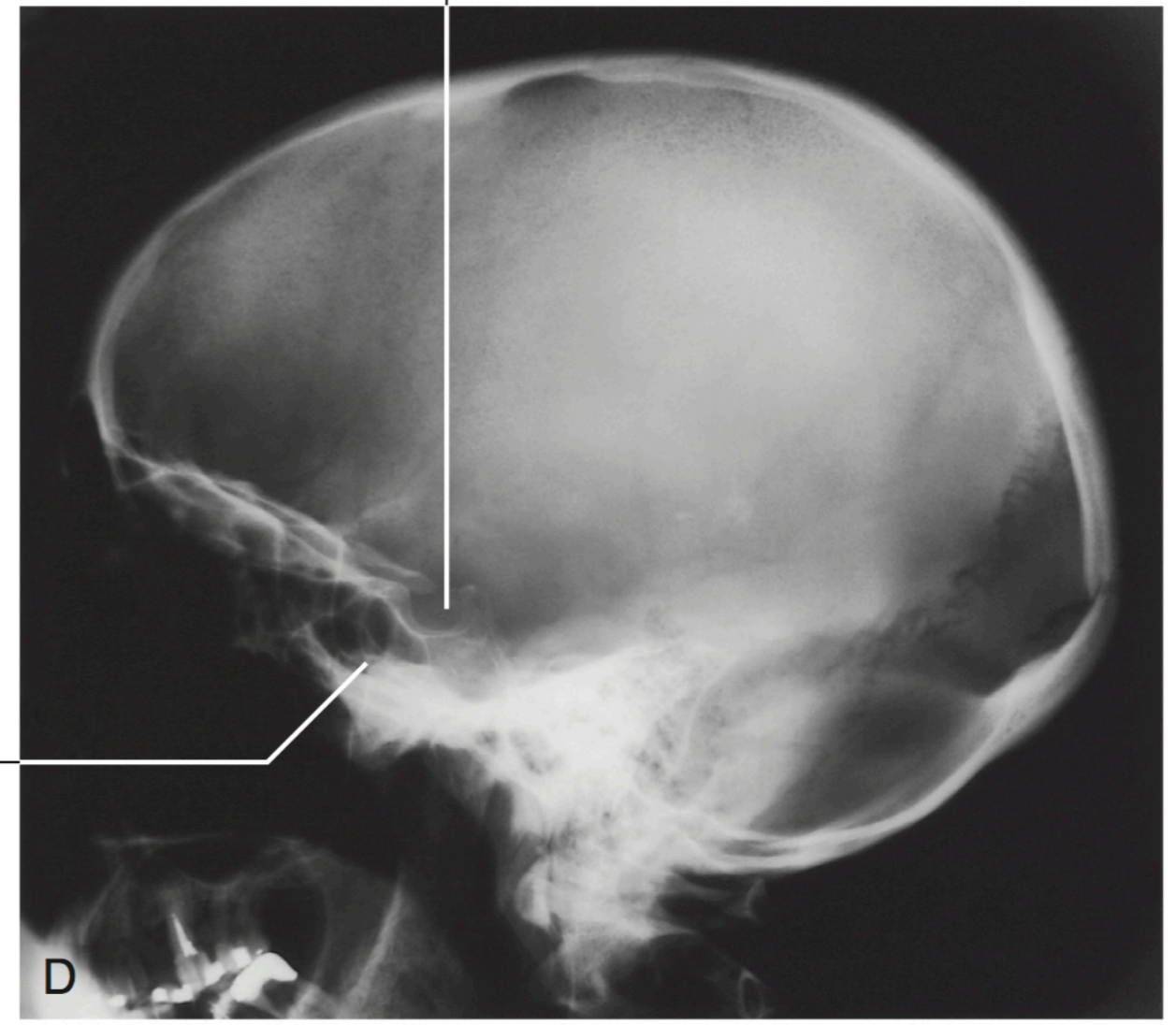


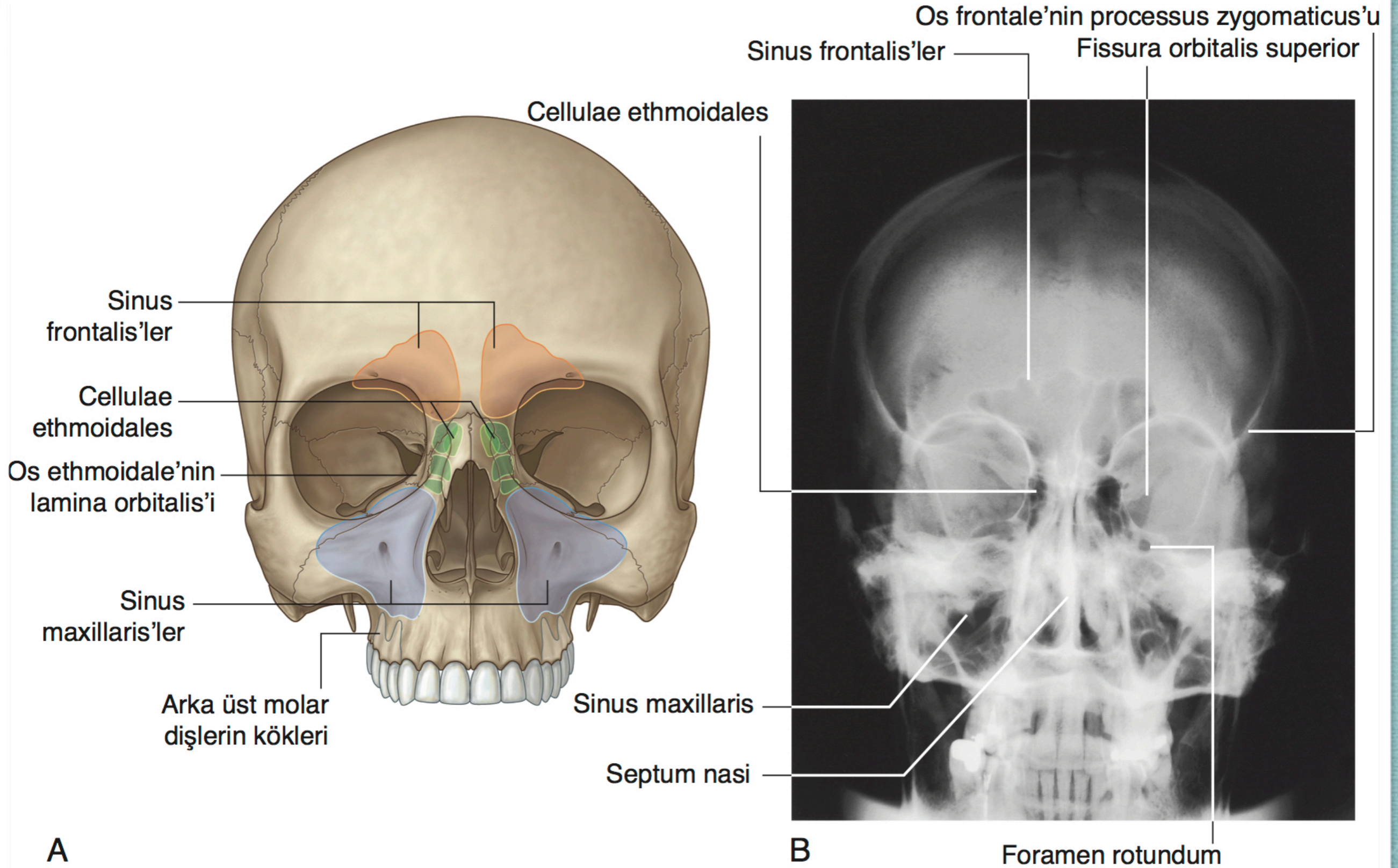


F. S. Netter
M.D.
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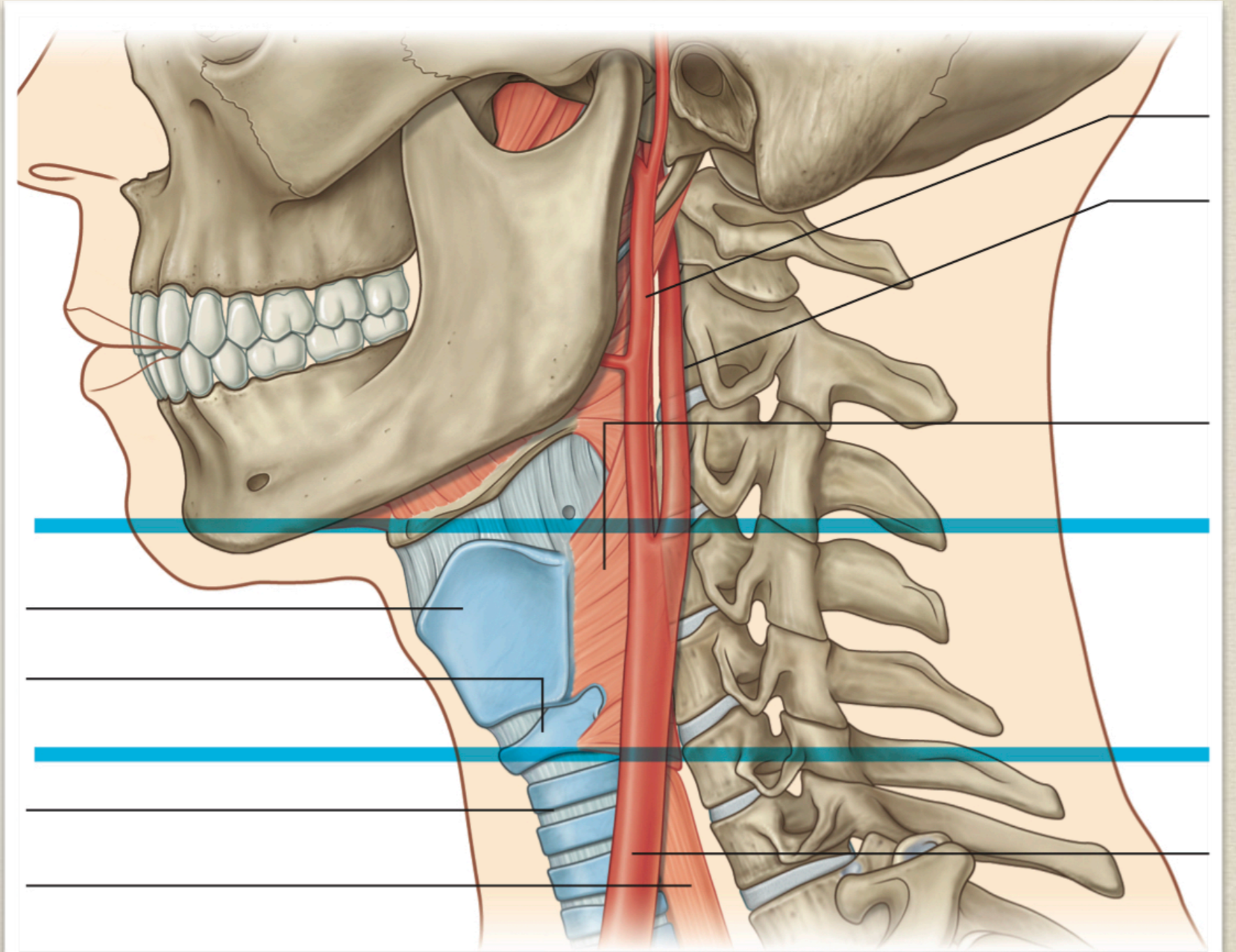
Fossa hypophysialis





Larynx

- * Kıkırdak, bağ, kas
- * CIII – CVI
- * Ses oluşumu
- * Solunum yolunda sfinkter

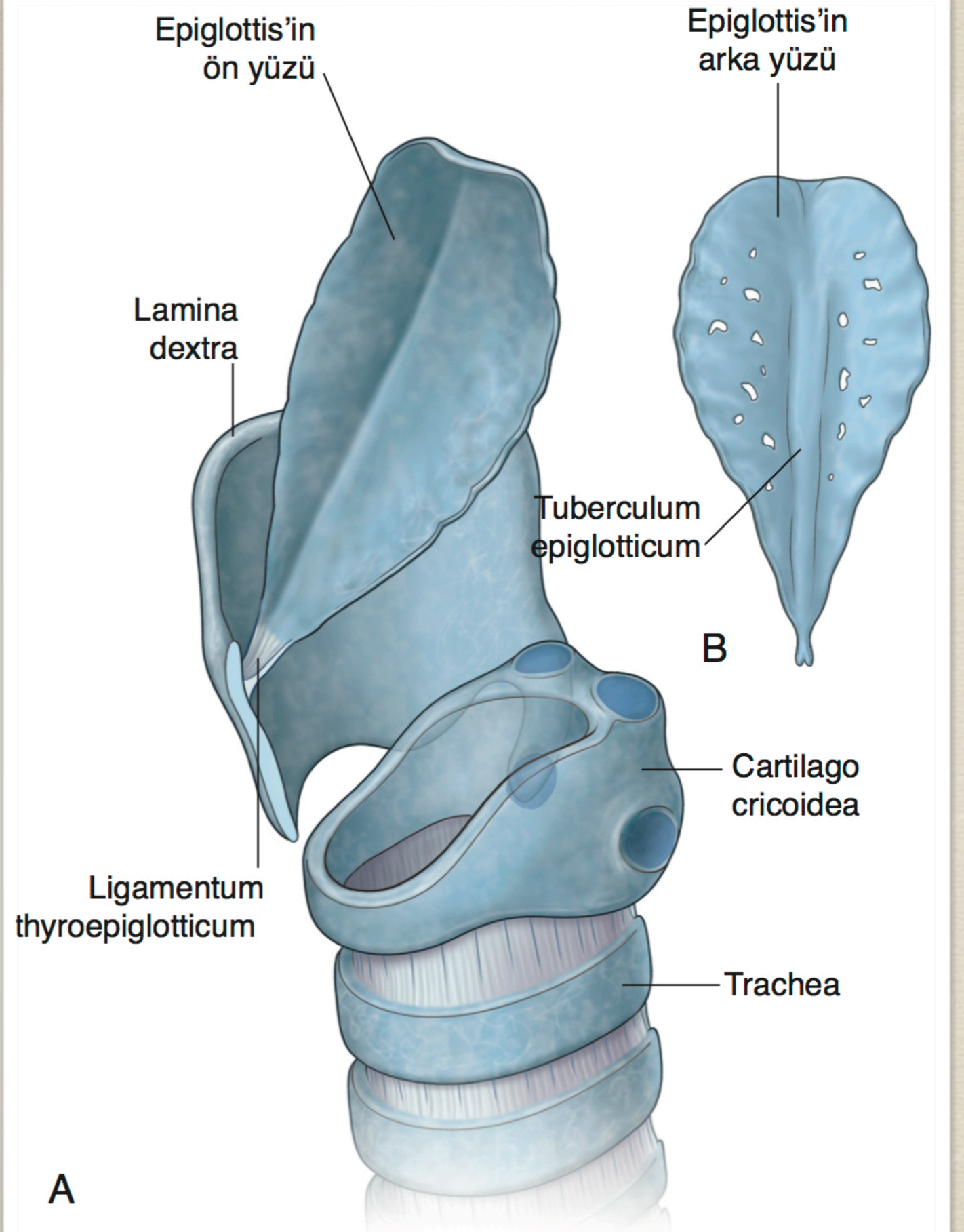


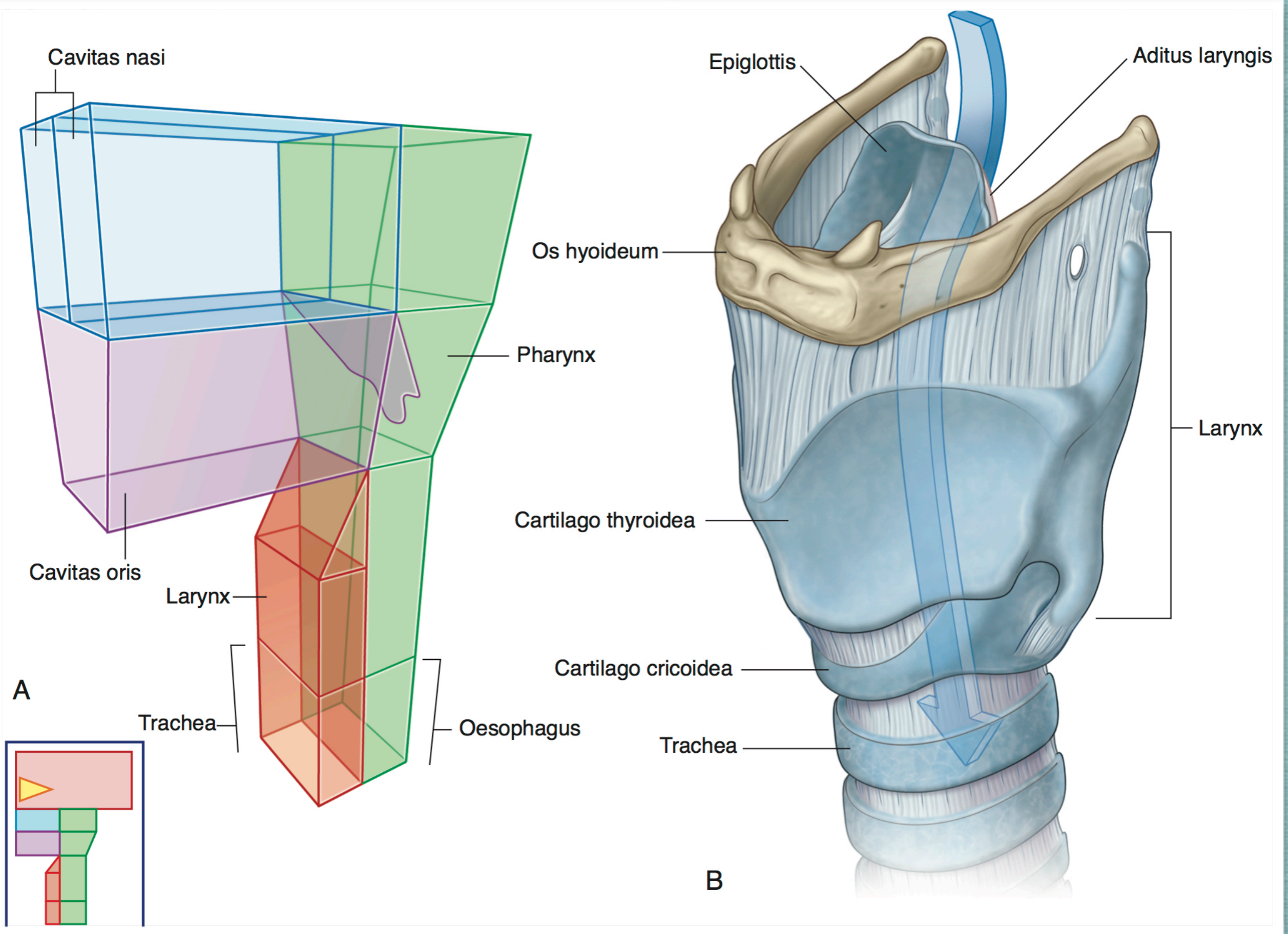


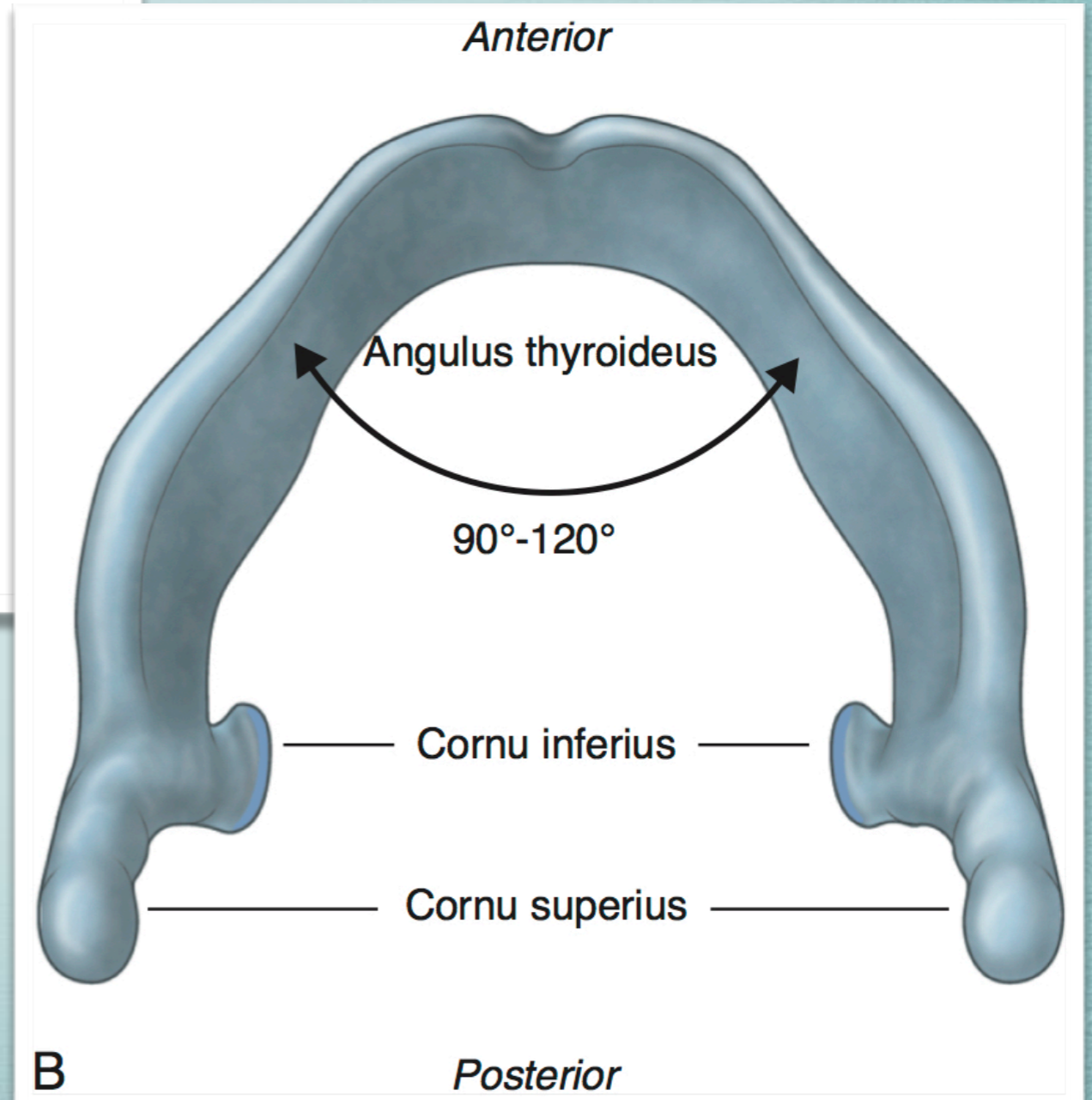
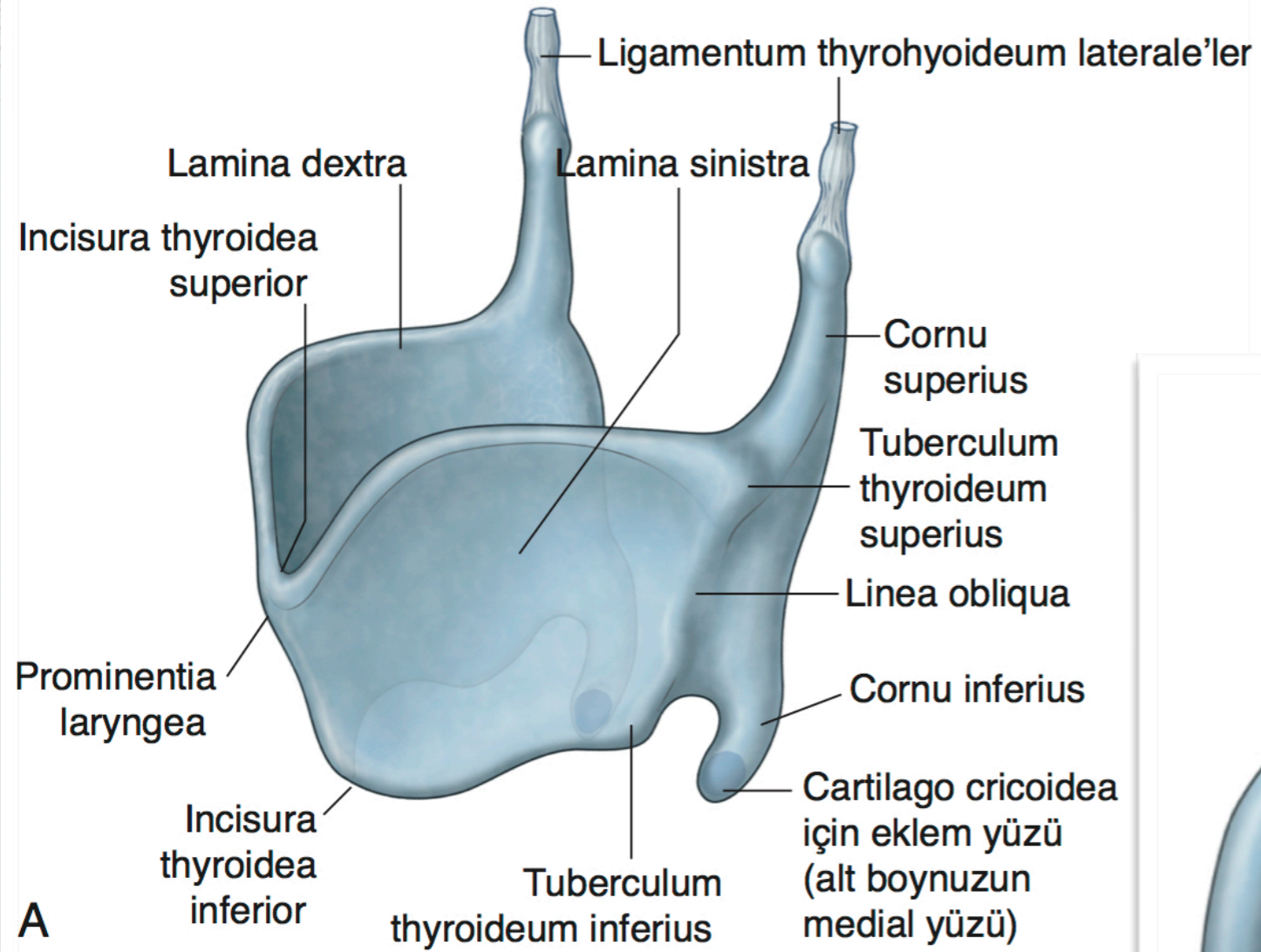
Larynx

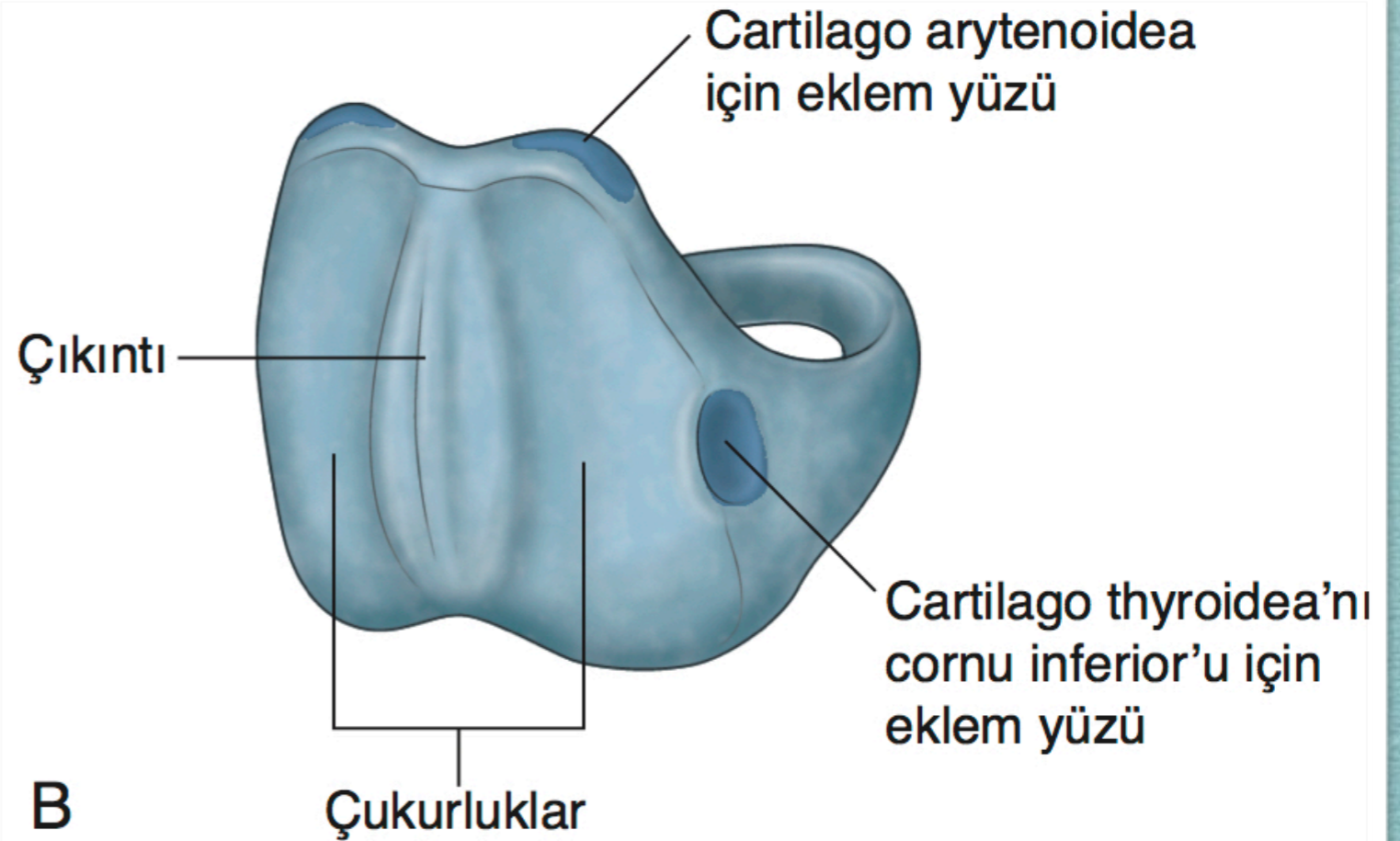
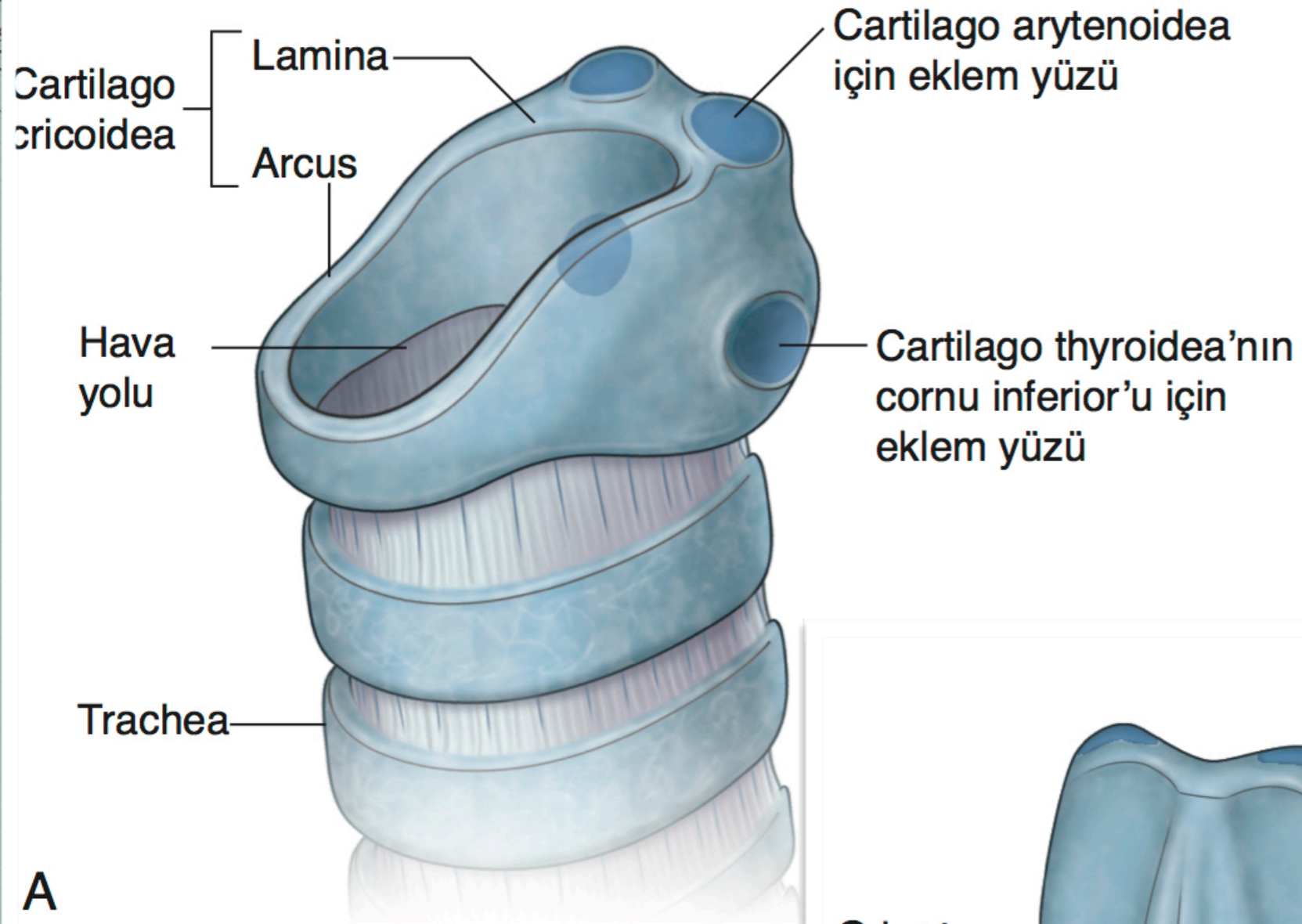
Kıkırdakları

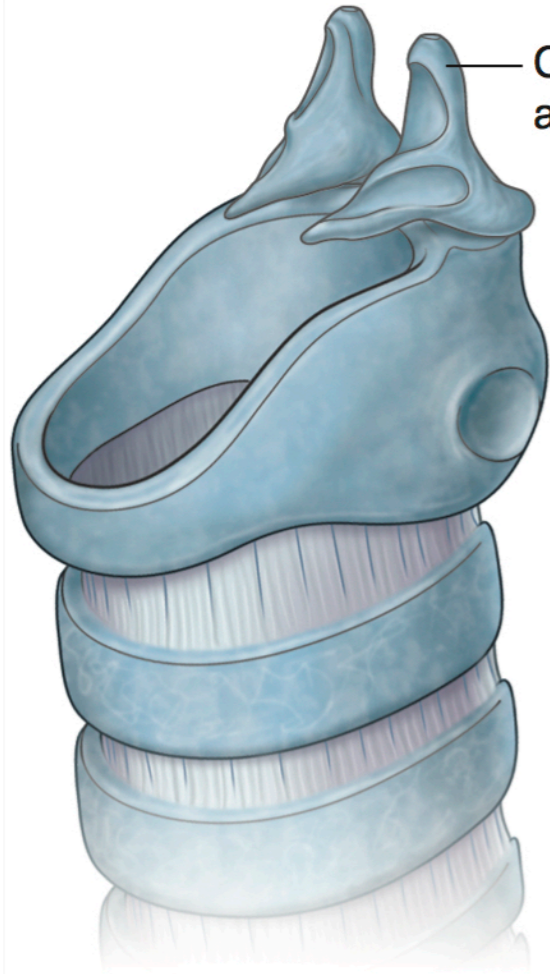
- * Cartilago thyroidea
- * Cartilago cricoidea
- * Epiglottis
- * Cartilago arytenoidea
- * Cartilago corniculata
- * Cartilago cuneiformis











Cartilago arytenoidea

Cart. corniculata için eklem yüzü

Facies posterior

Apex

Facies anterolateralis

Fovea triangularis (lig. vestibulare'nin tutunması için çukurluk)

Facies medialis

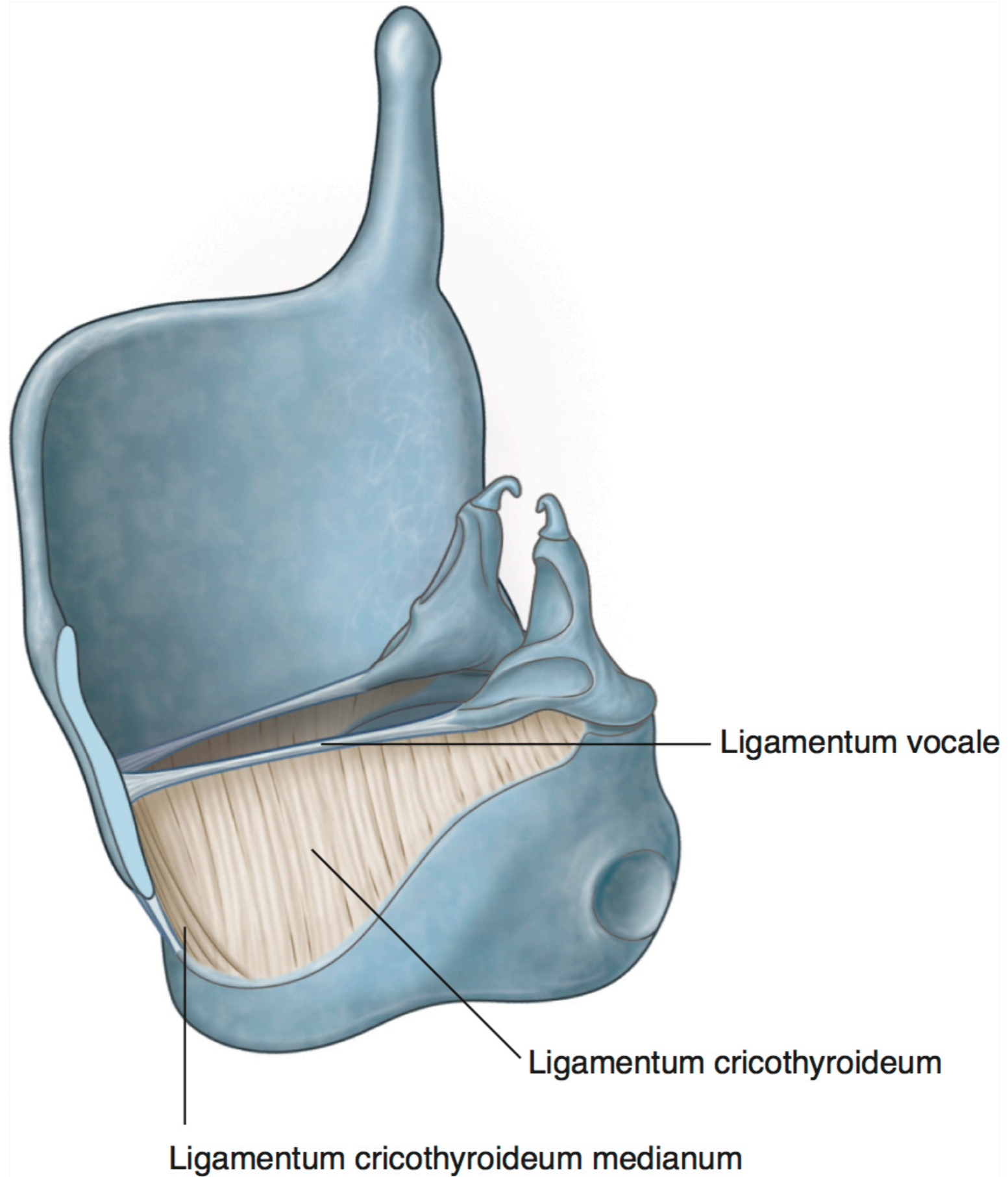
Crista arcuata (facies anterolateralis'teki çıkıntı)

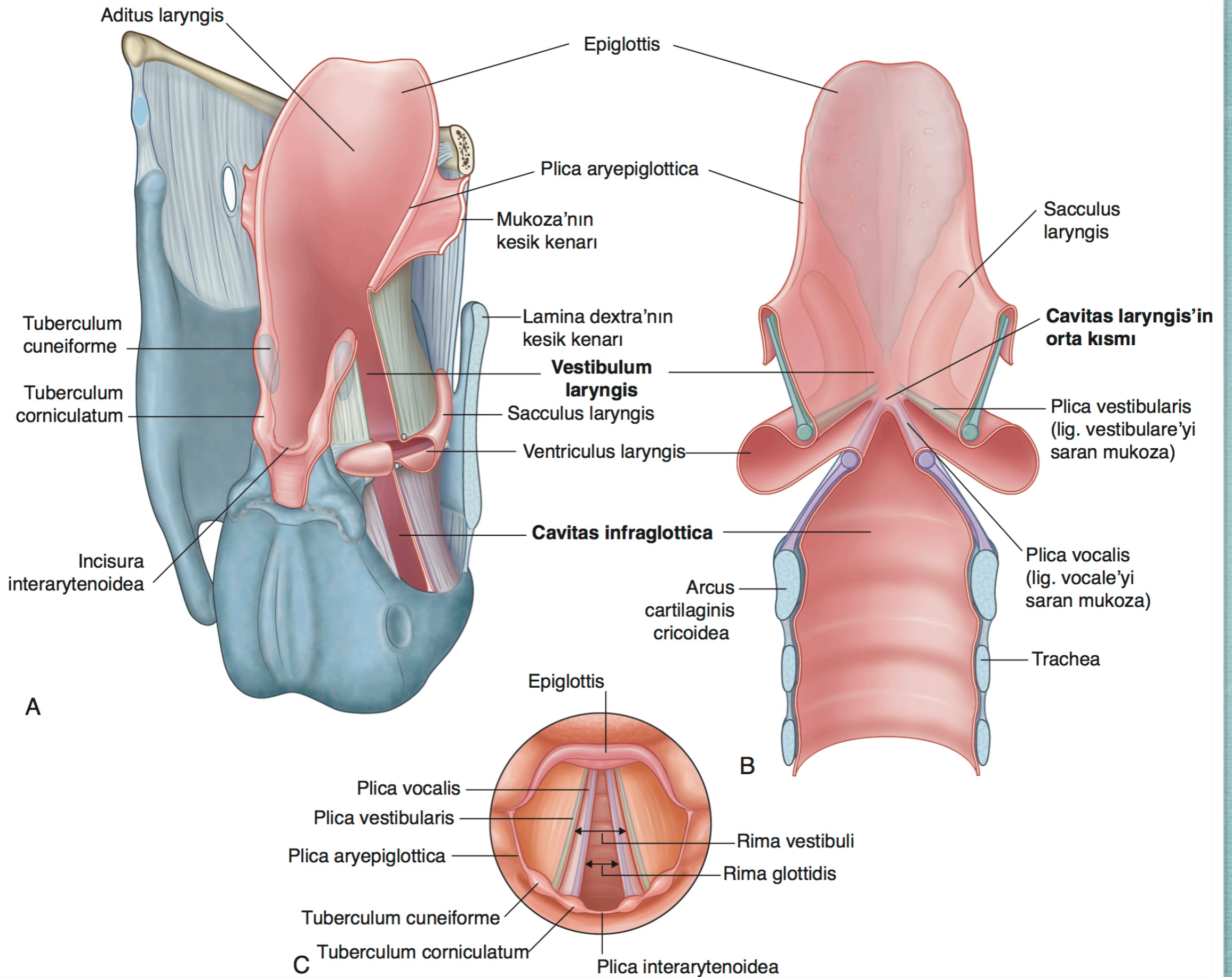
Processus muscularis

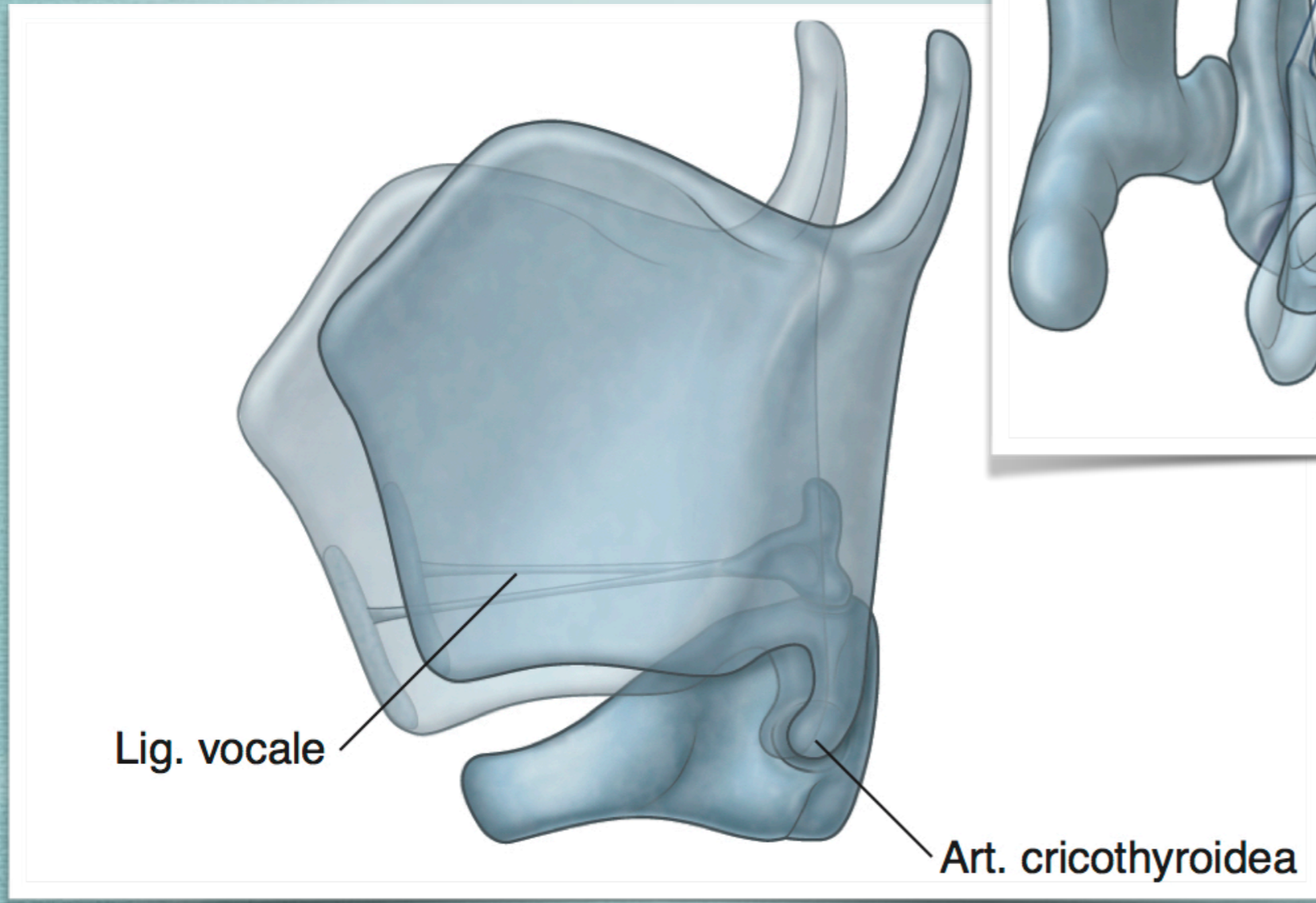
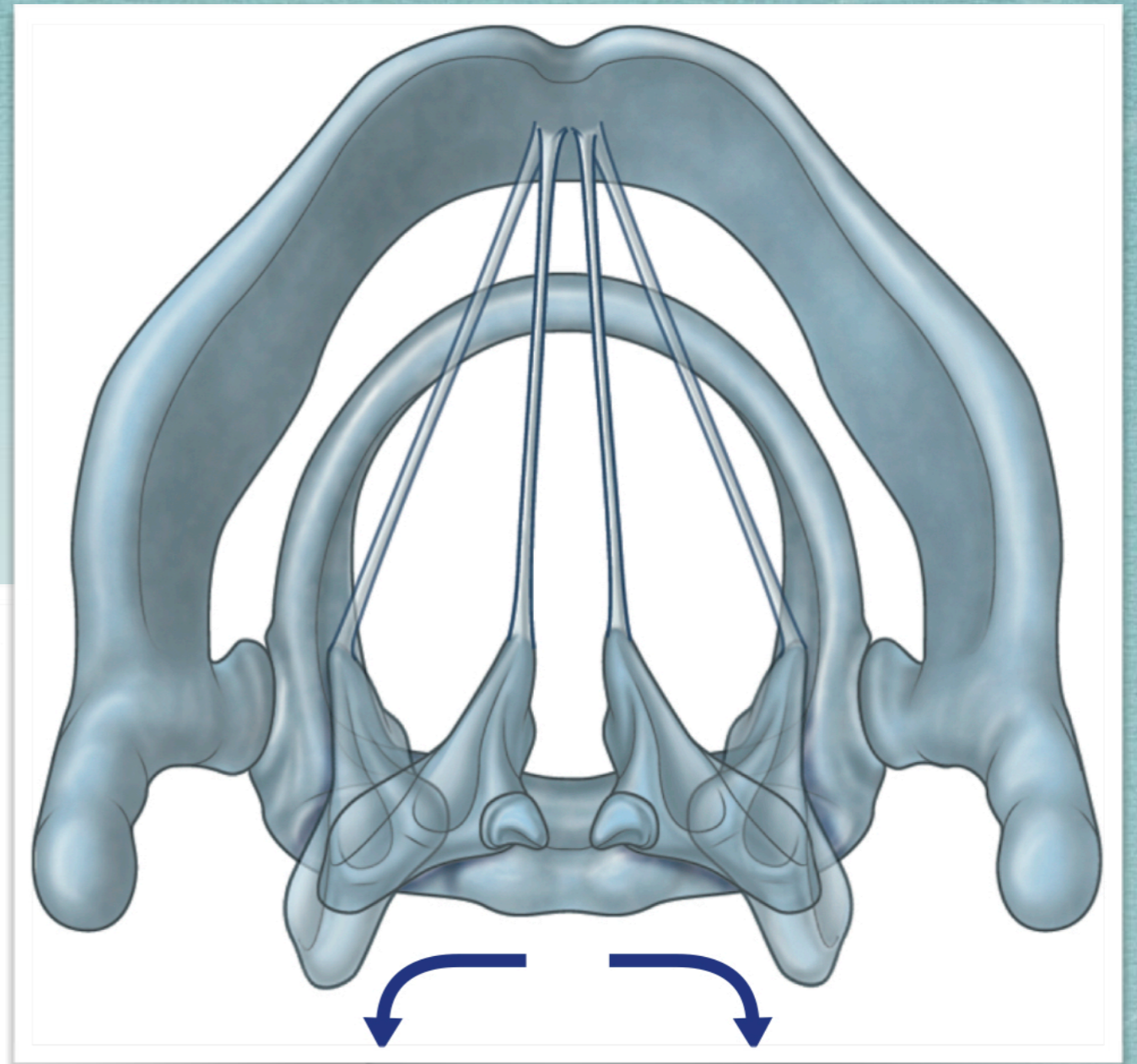
Processus vocalis

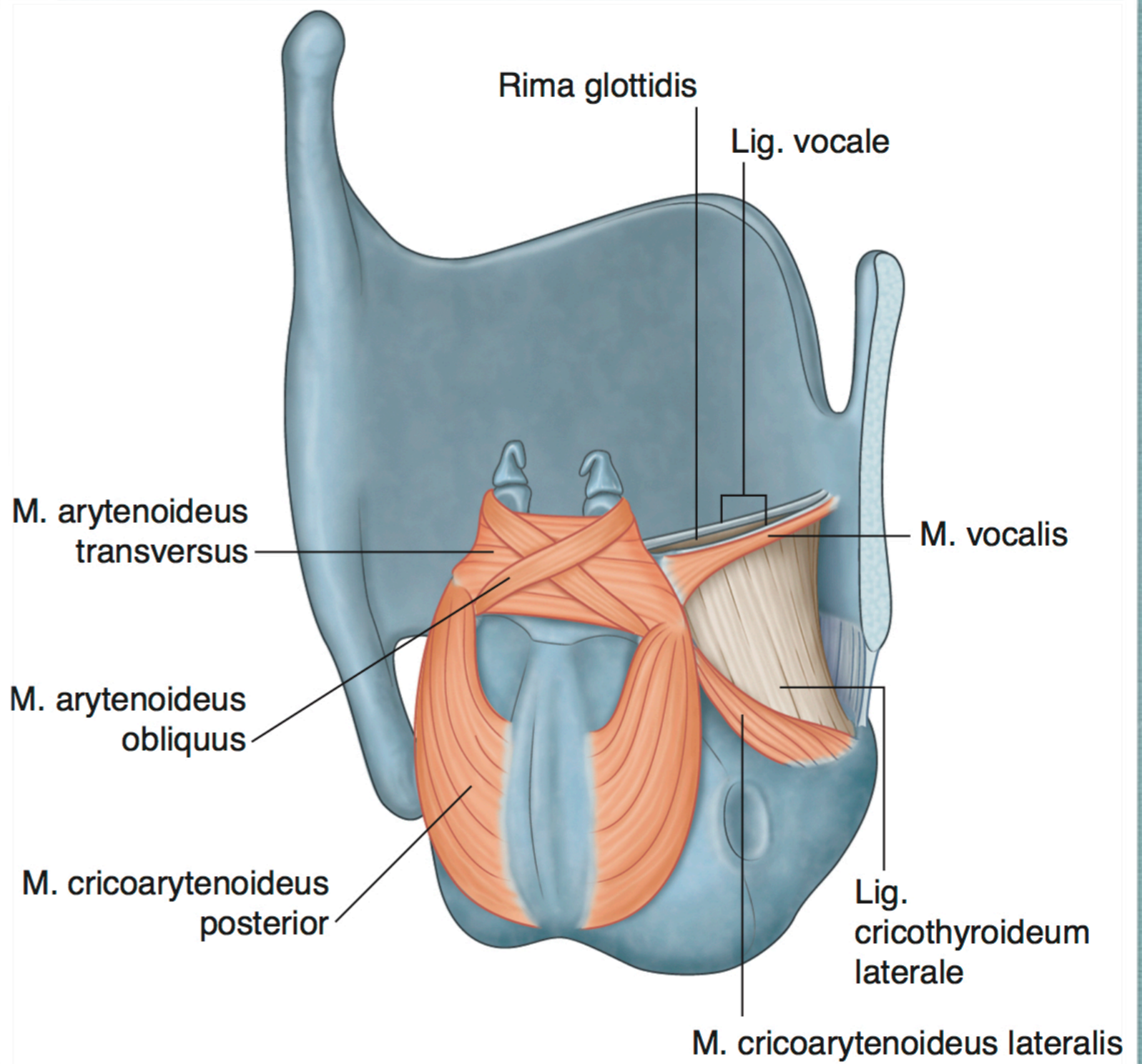
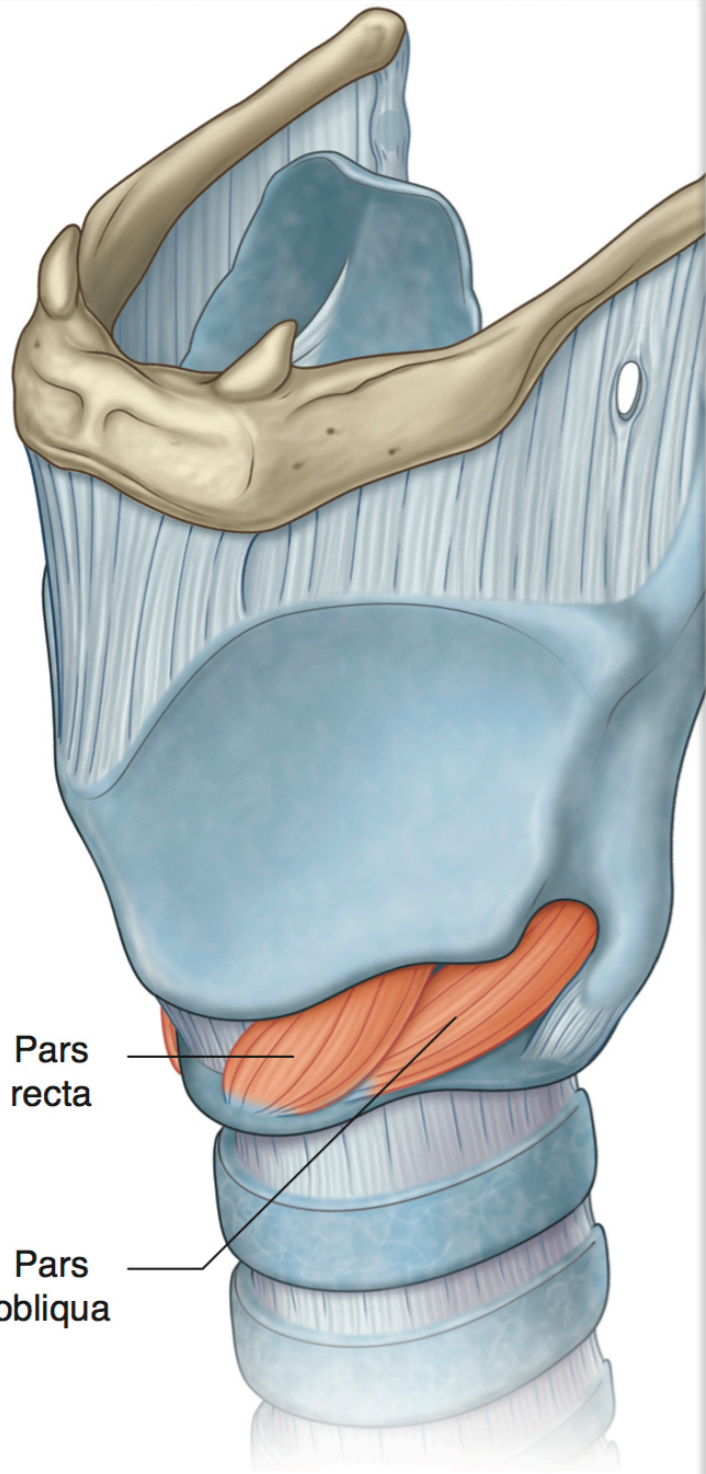
Fovea oblonga (m. vocalis'in tutunması için çukurluk)

Basis cartilaginis arytenoidea (krikoid kıkırdak ile eklem içi-çukurluk)



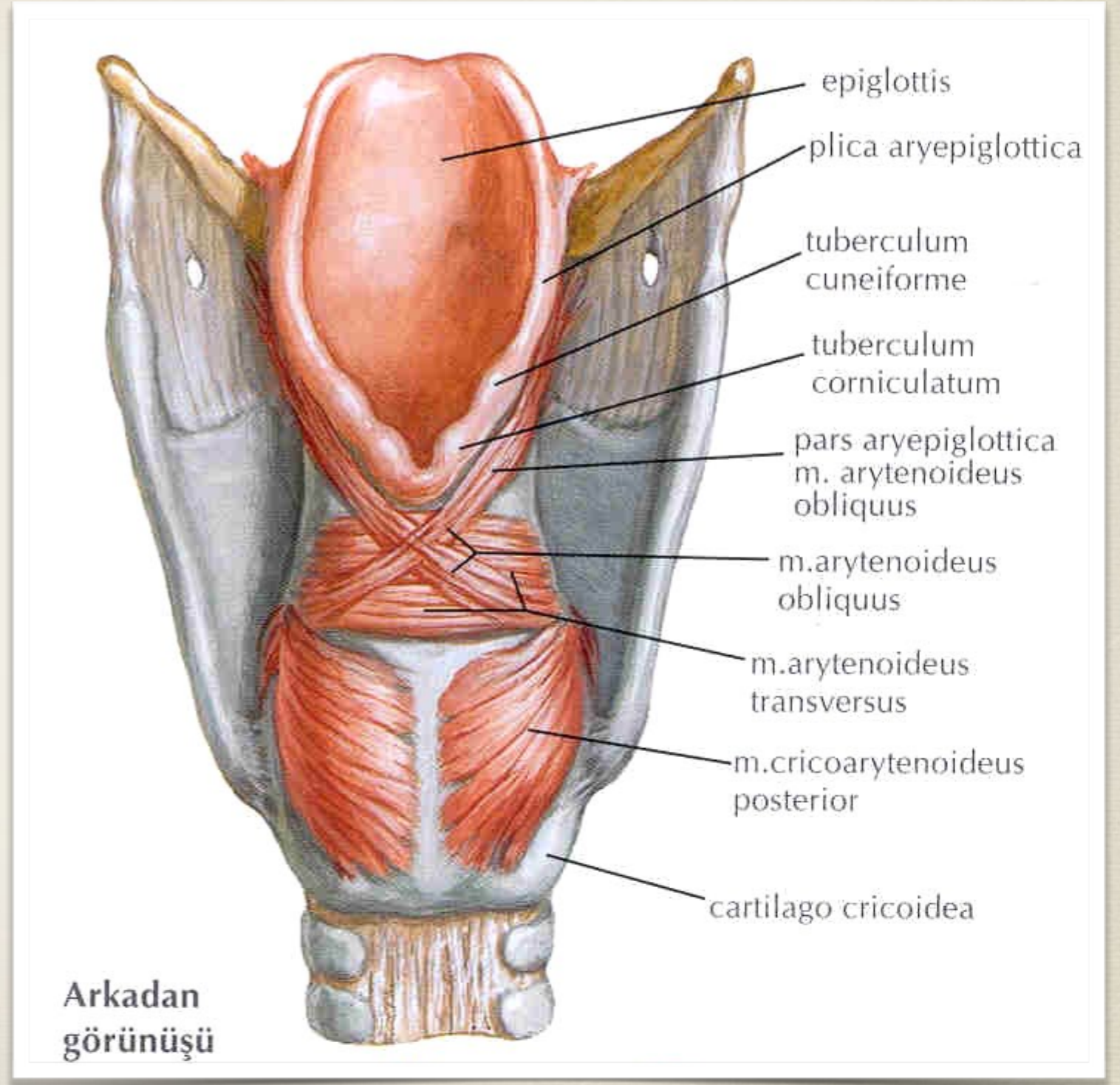


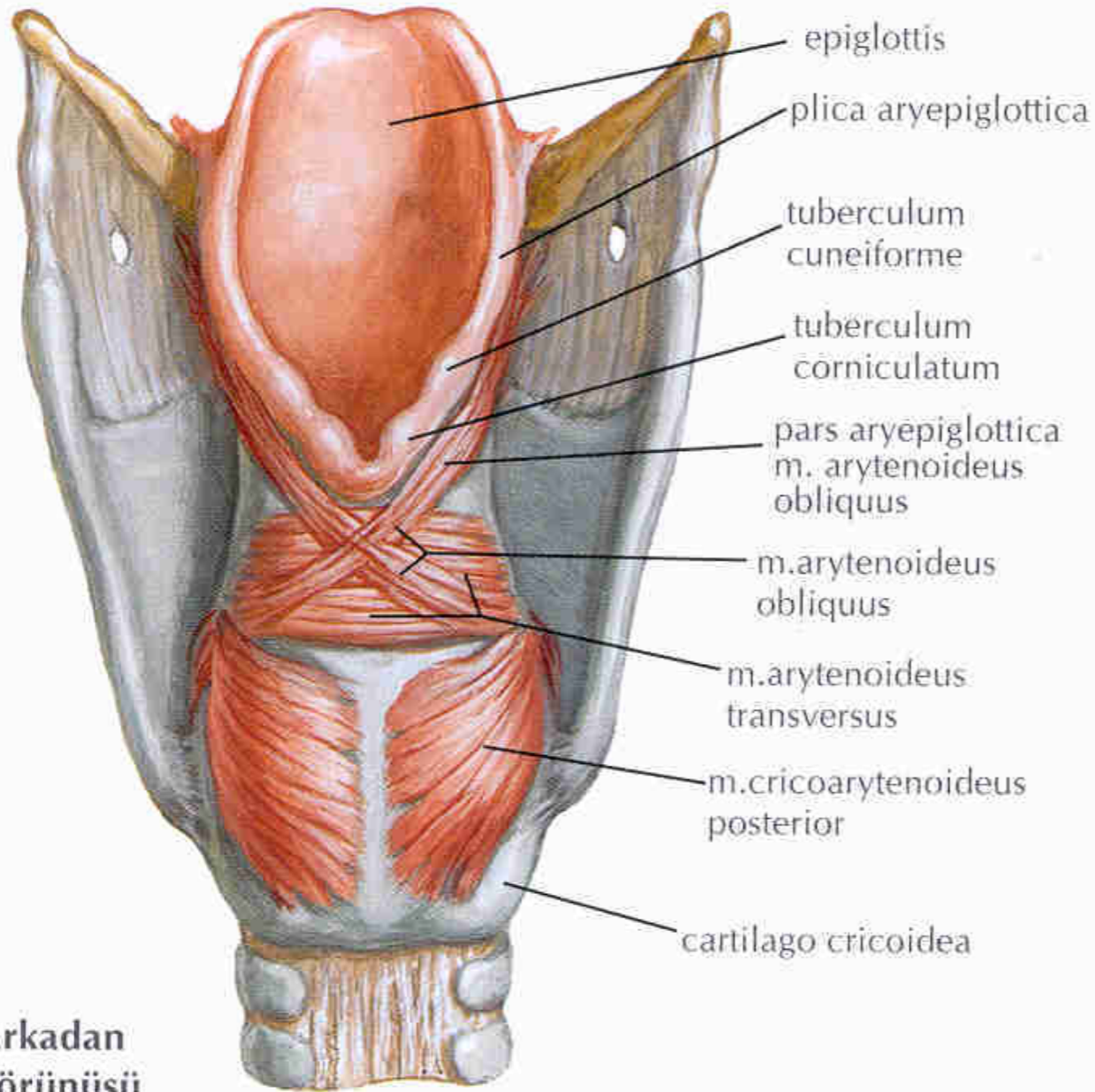




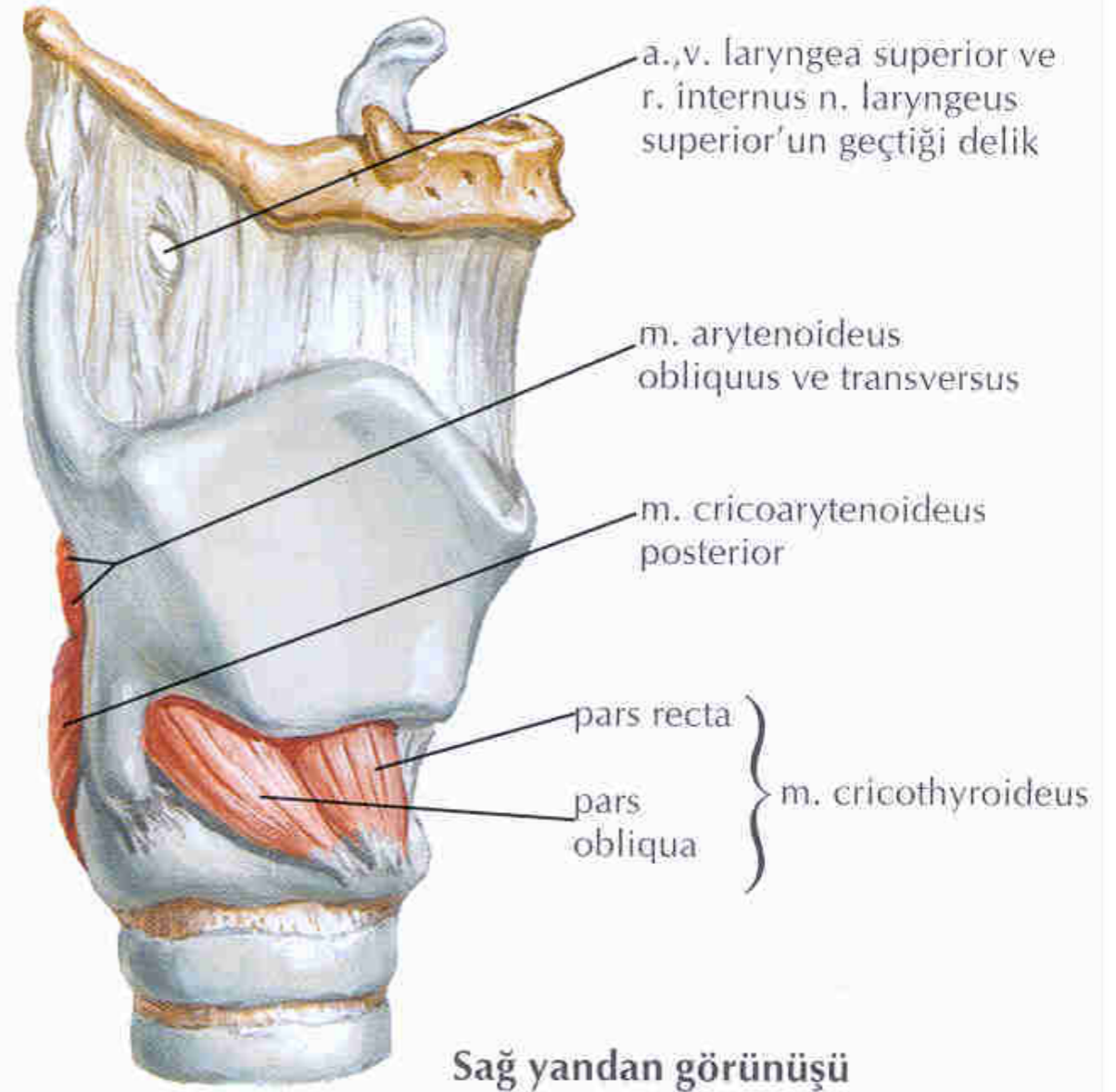
Larynx'in Kasları

- * M. cricothyroideus
- * M. cricoarytenoideus posterior/lateralis
- * M. thyroarytenoideus
- * M. vocalis
- * M. thyroepiglotticus
- * M. arytenoideus obliquus/transversus

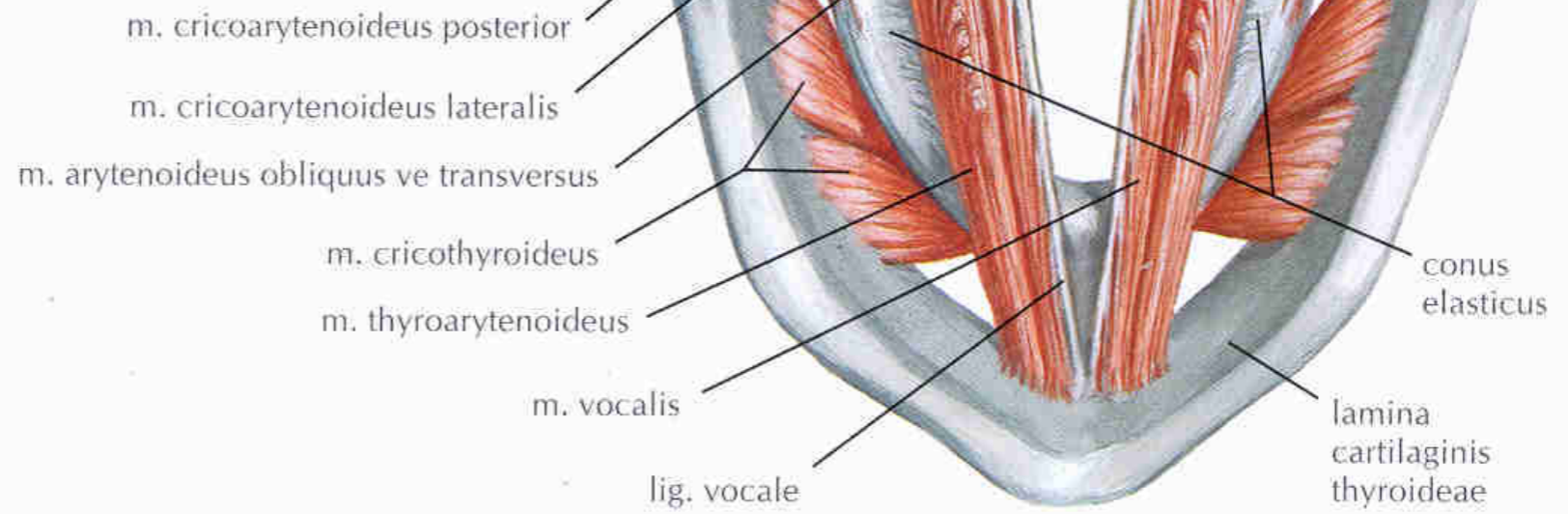
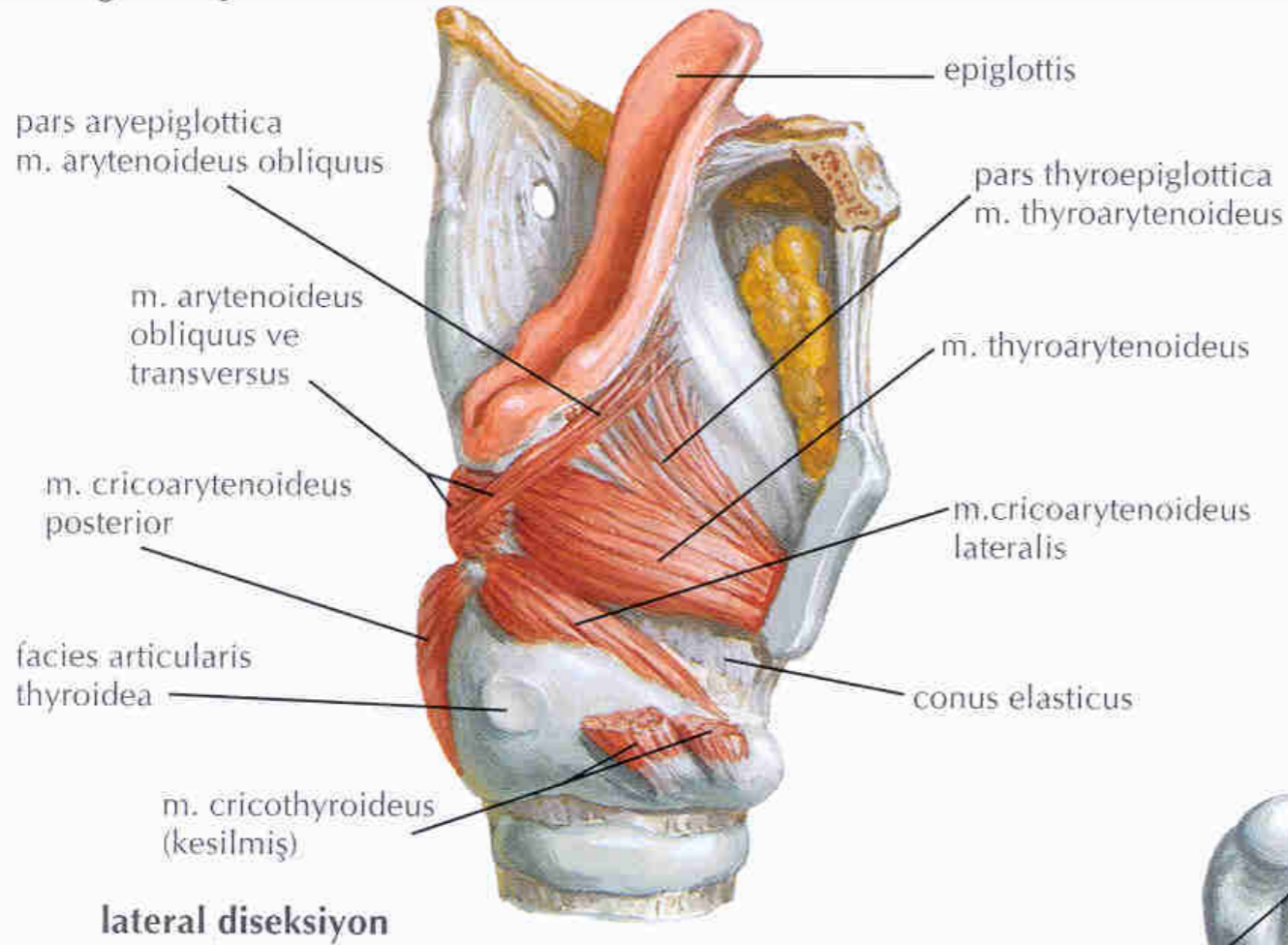




Arkadan görünüşü



Sağ yandan görünüşü



Üstten görünüşü

Trachea – 1

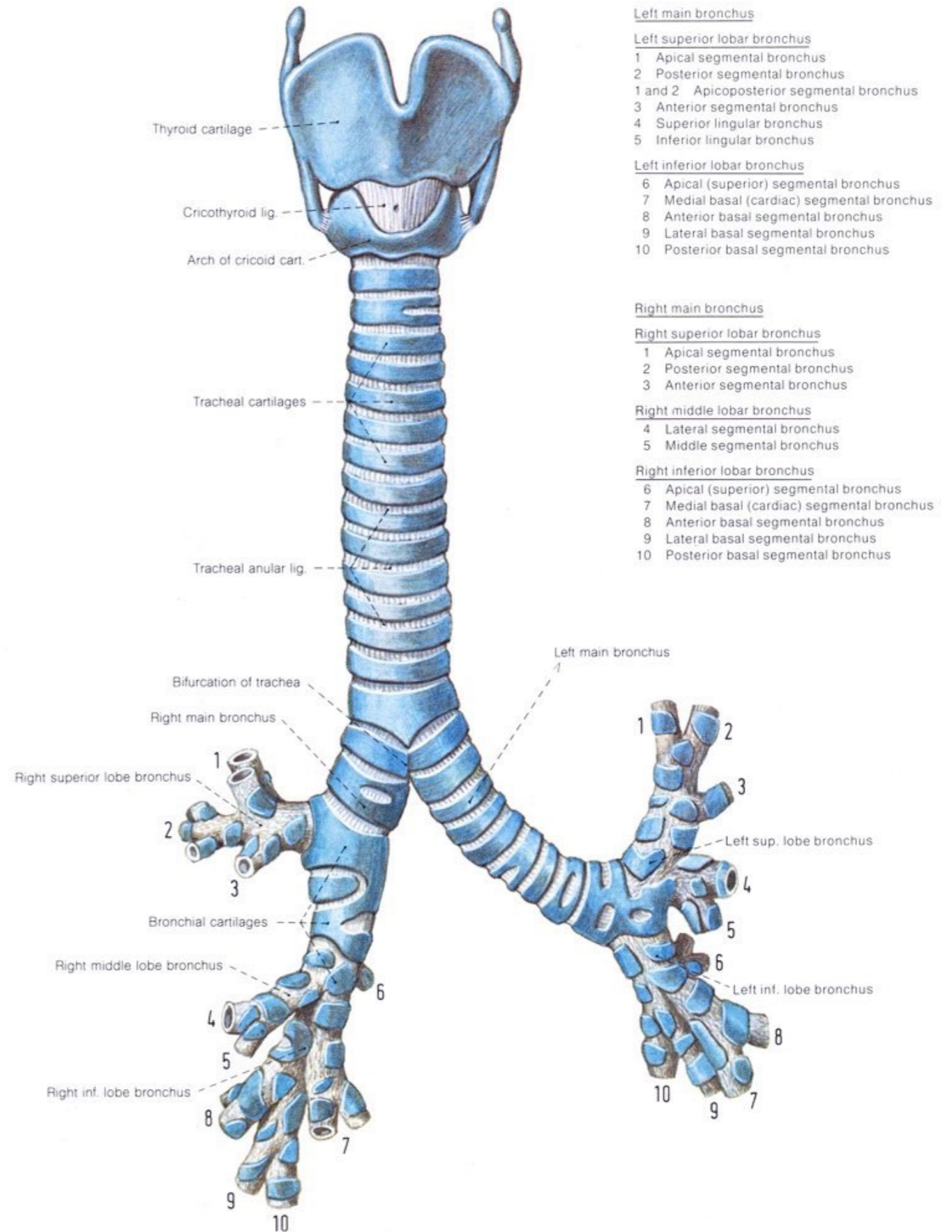
* C6 – T5

* Ligg. anularia

* Trachea kırıkrdakları

► I6 – 20

* Membrana elastica trachea



Trachea – 2

- * Pars cervicalis
- * Pars thoracica
- * Bifurcatio trachea
- * Bronchus principalis dexter
- * Bronchus principalis sinister

Left main bronchus

Left superior lobar bronchus

- 1 Apical segmental bronchus
- 2 Posterior segmental bronchus
- 1 and 2 Apicoposterior segmental bronchus
- 3 Anterior segmental bronchus
- 4 Superior lingular bronchus
- 5 Inferior lingular bronchus

Left inferior lobar bronchus

- 6 Apical (superior) segmental bronchus
- 7 Medial basal (cardiac) segmental bronchus
- 8 Anterior basal segmental bronchus
- 9 Lateral basal segmental bronchus
- 10 Posterior basal segmental bronchus

Right main bronchus

Right superior lobar bronchus

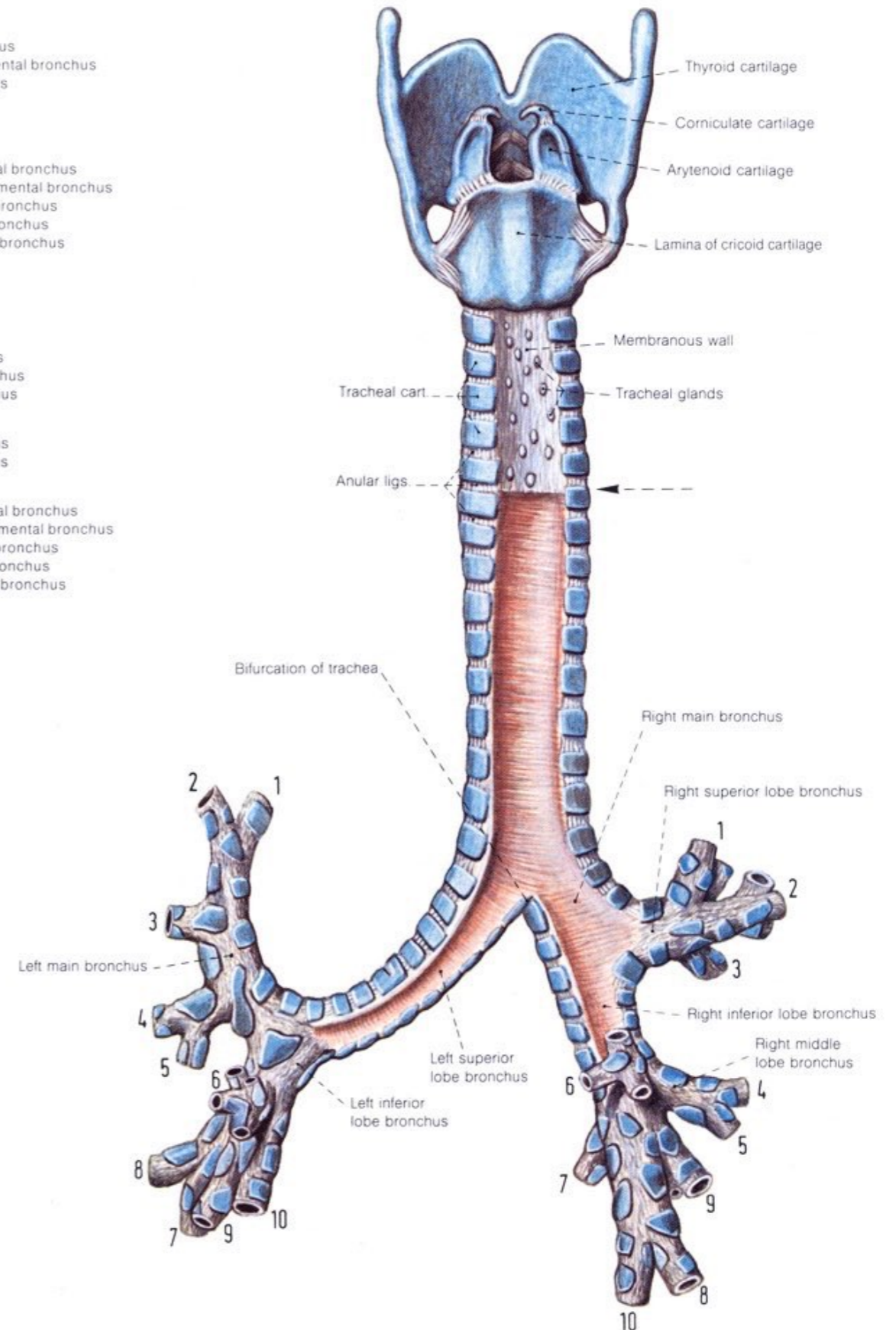
- 1 Apical segmental bronchus
- 2 Posterior segmental bronchus
- 3 Anterior segmental bronchus

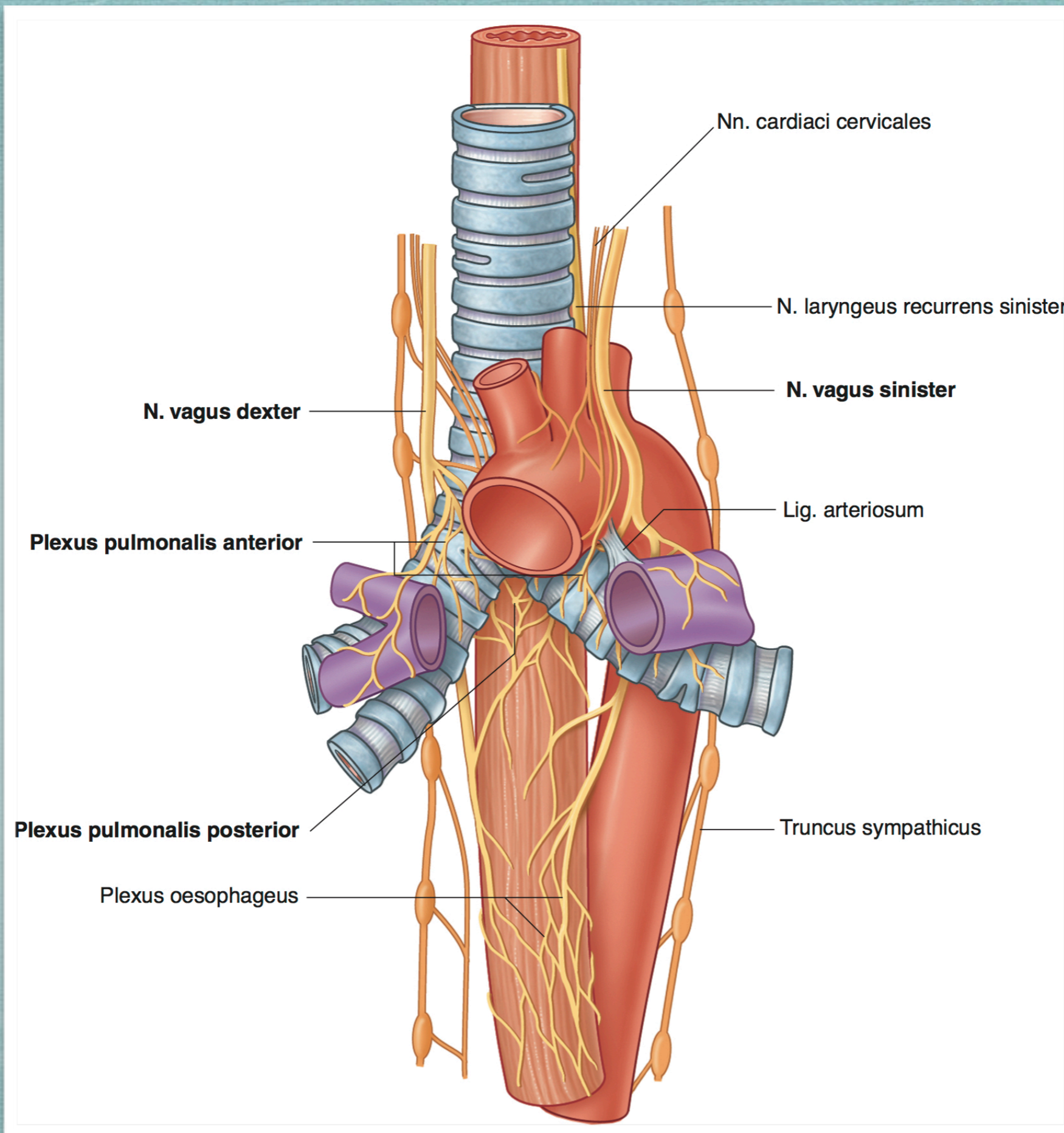
Right middle lobar bronchus

- 4 Lateral segmental bronchus
- 5 Middle segmental bronchus

Right inferior lobar bronchus

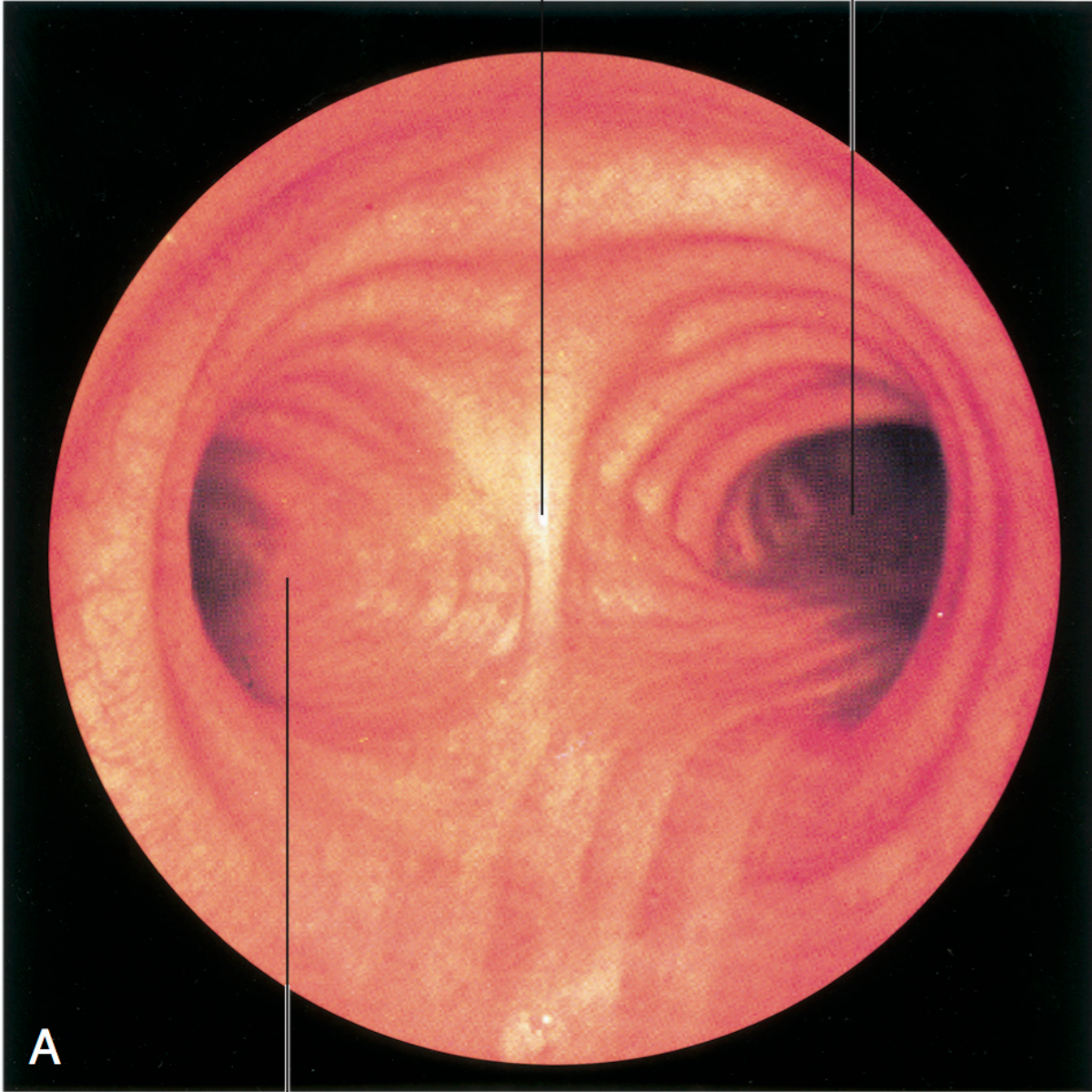
- 6 Apical (superior) segmental bronchus
- 7 Medial basal (cardiac) segmental bronchus
- 8 Anterior basal segmental bronchus
- 9 Lateral basal segmental bronchus
- 10 Posterior basal segmental bronchus





Carina

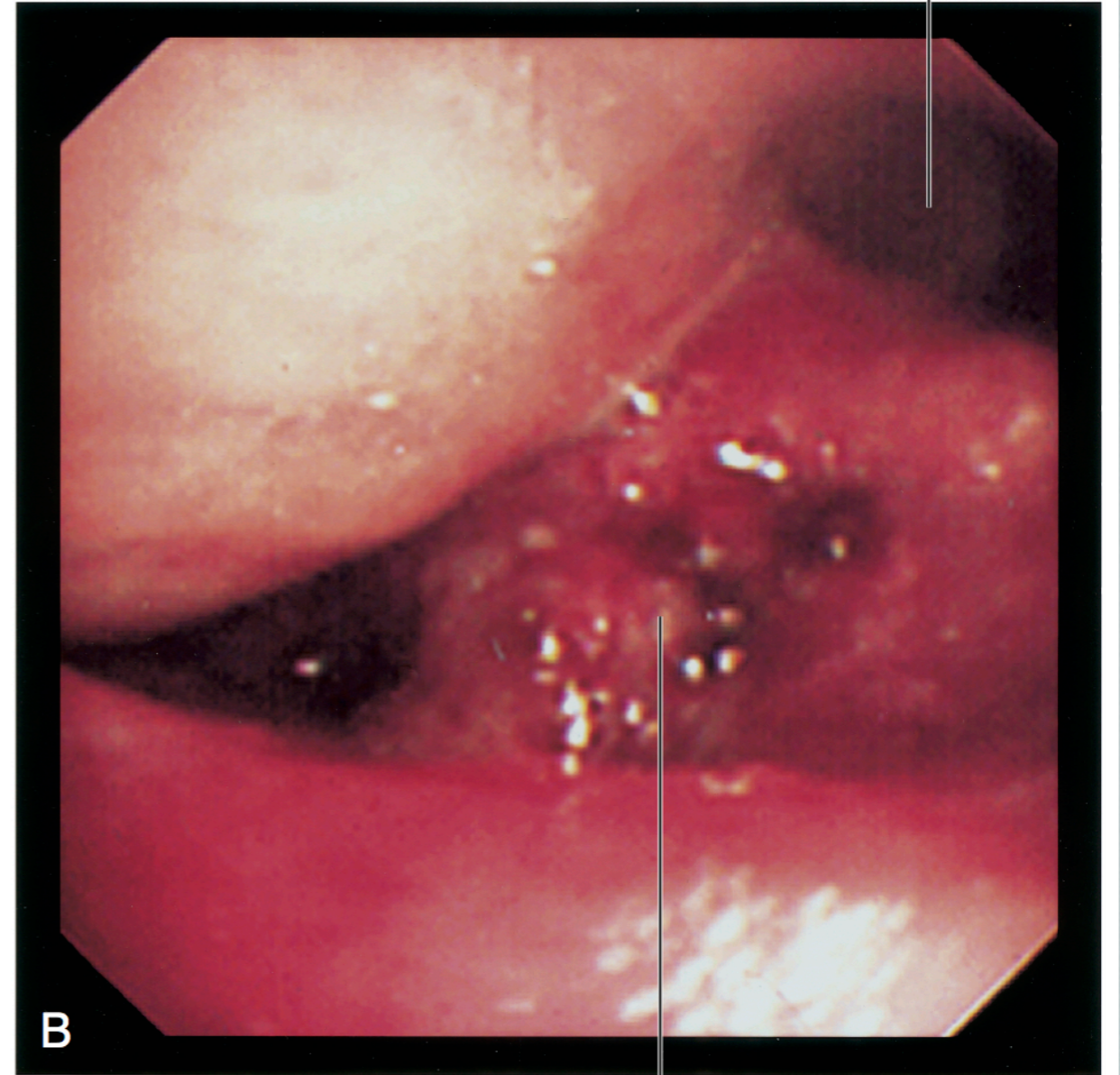
Bronchus principalis dexter



A

Bronchus principalis sinister

Bronchus principalis dexter

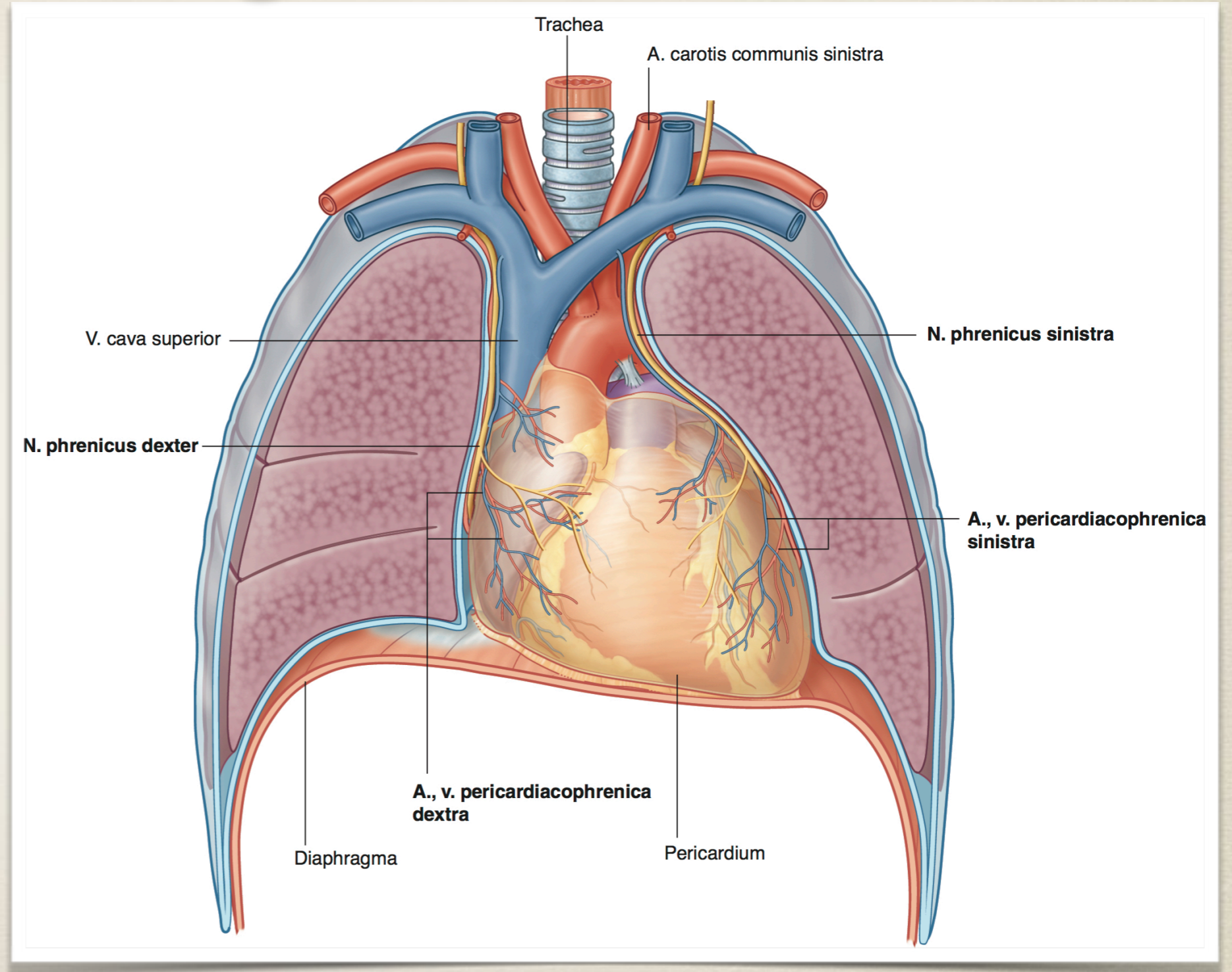


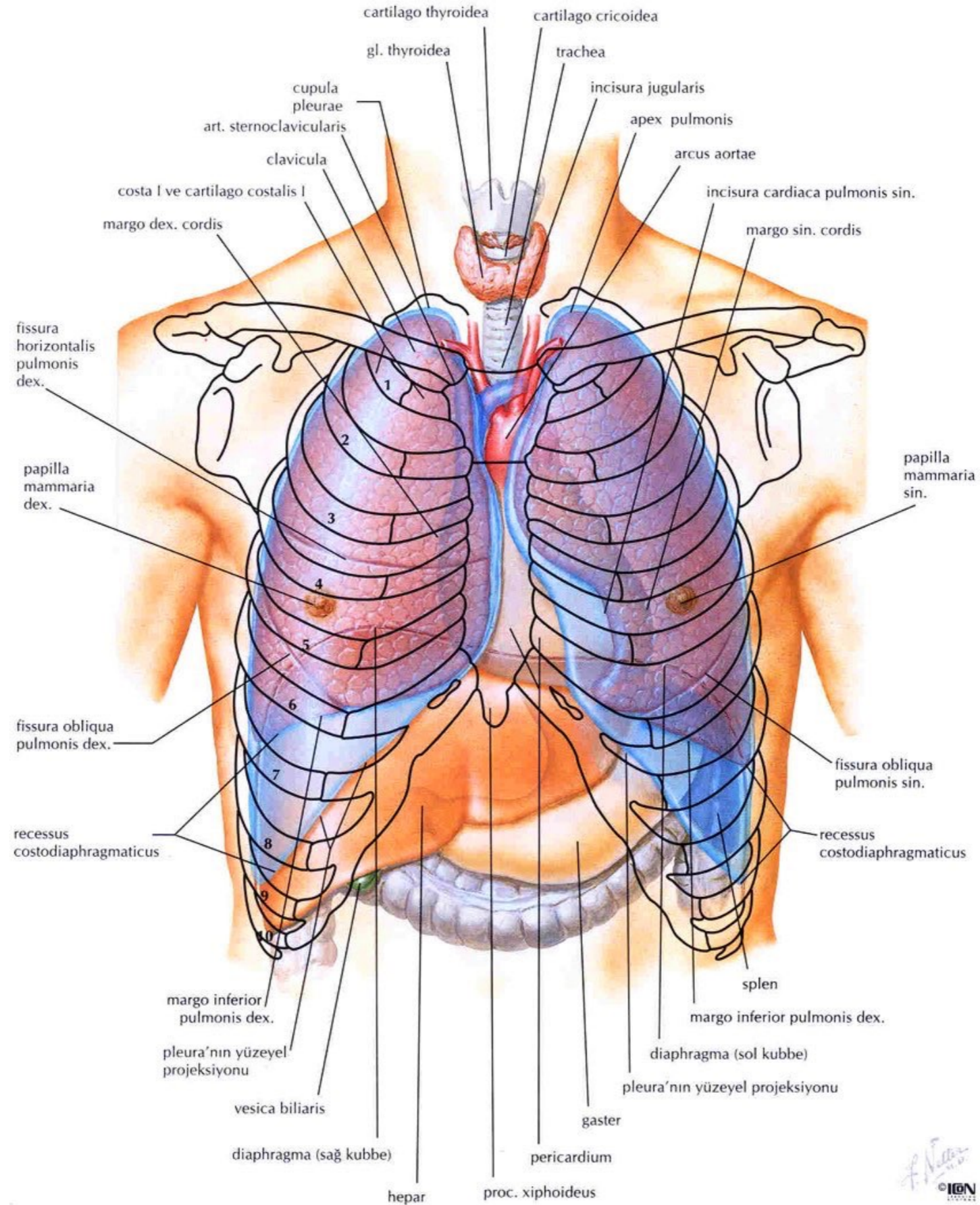
B

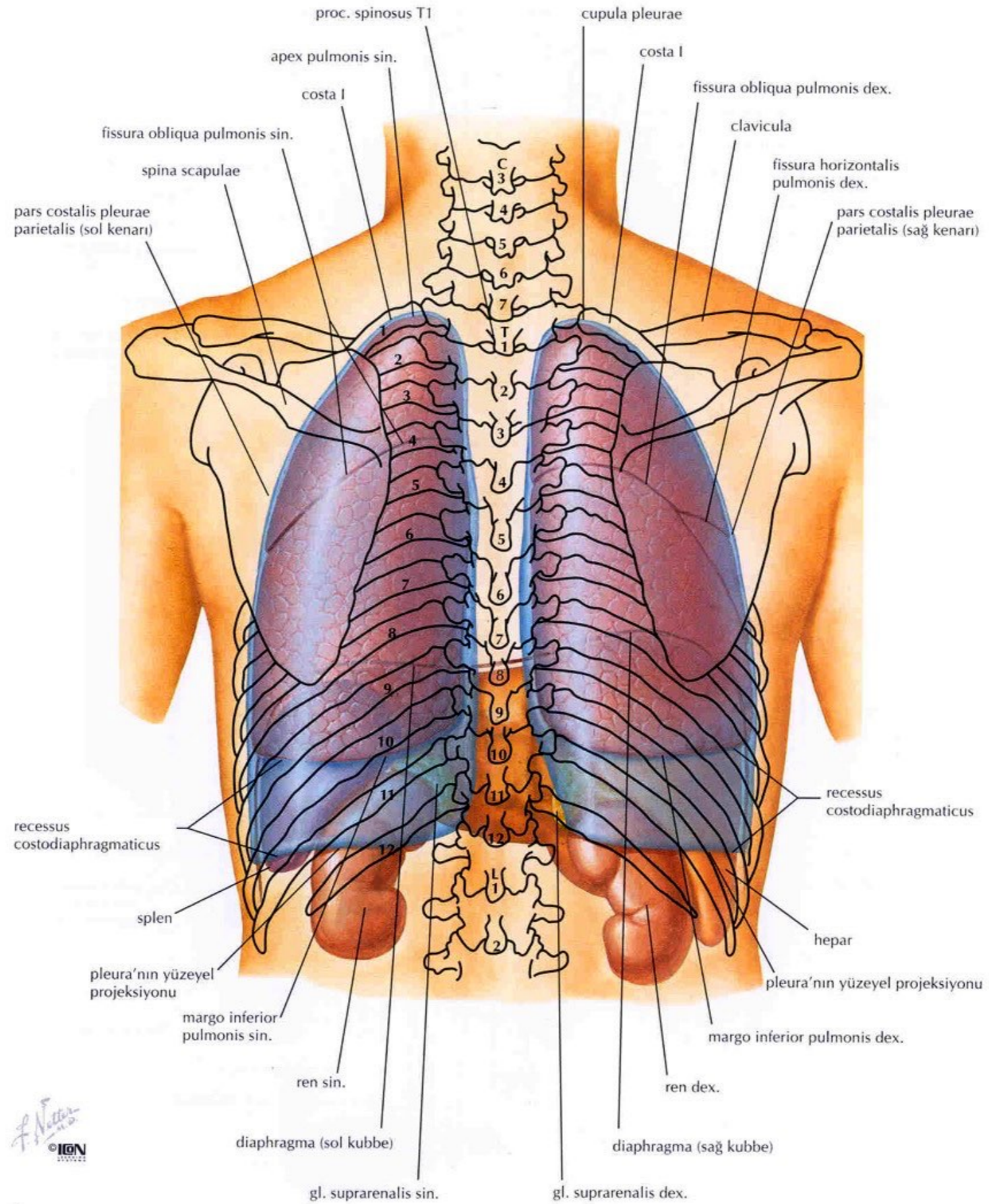
Tümör

Akciğerler – 1

- * Apex
- * Basis
- * Facies costalis
- * Facies mediastinalis







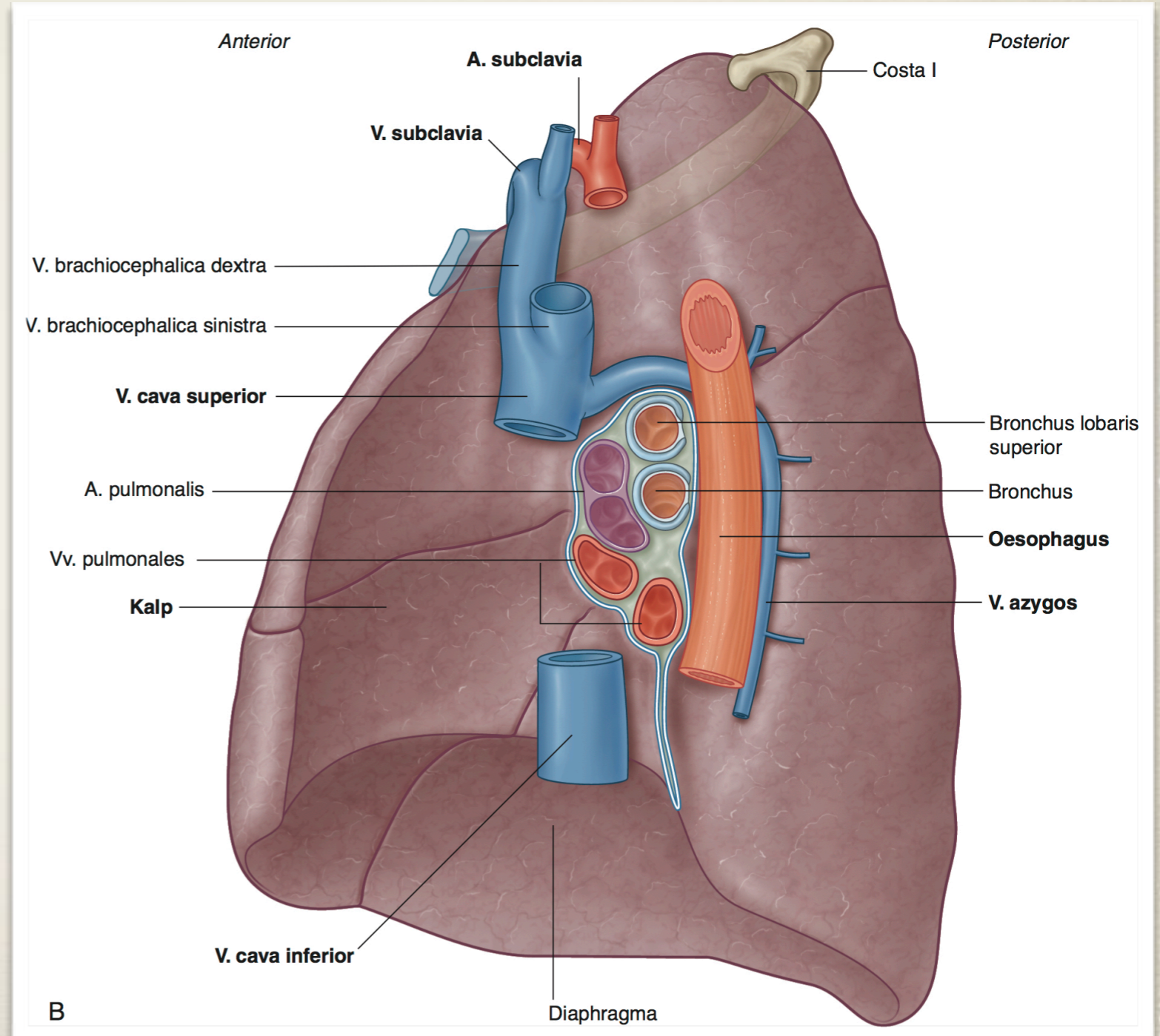
Akciğerler – 2

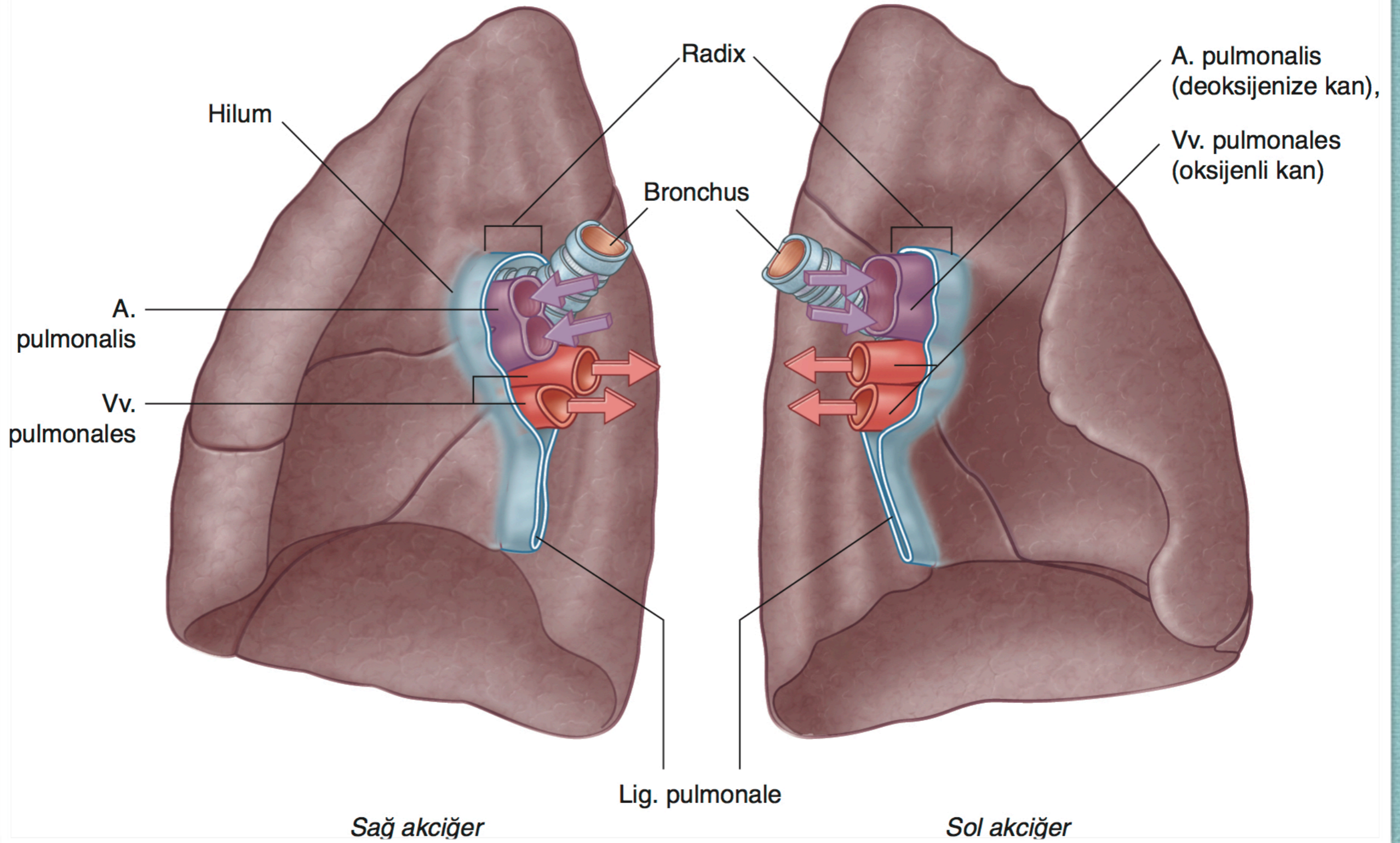
* Hilum pulmonis

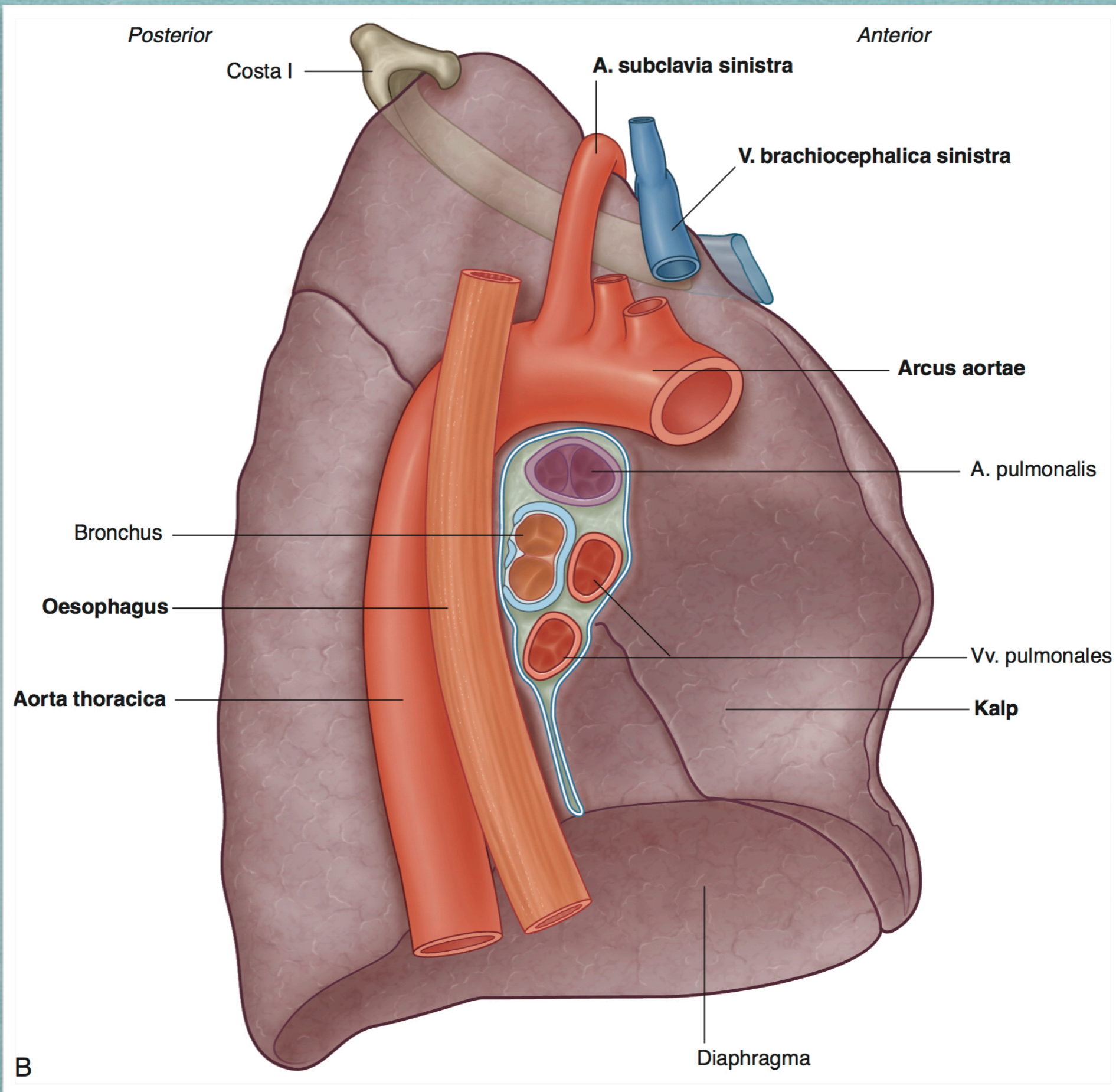
* Radix pulmonis

▶ A., V. pulmonalis

▶ Bronchus principalis

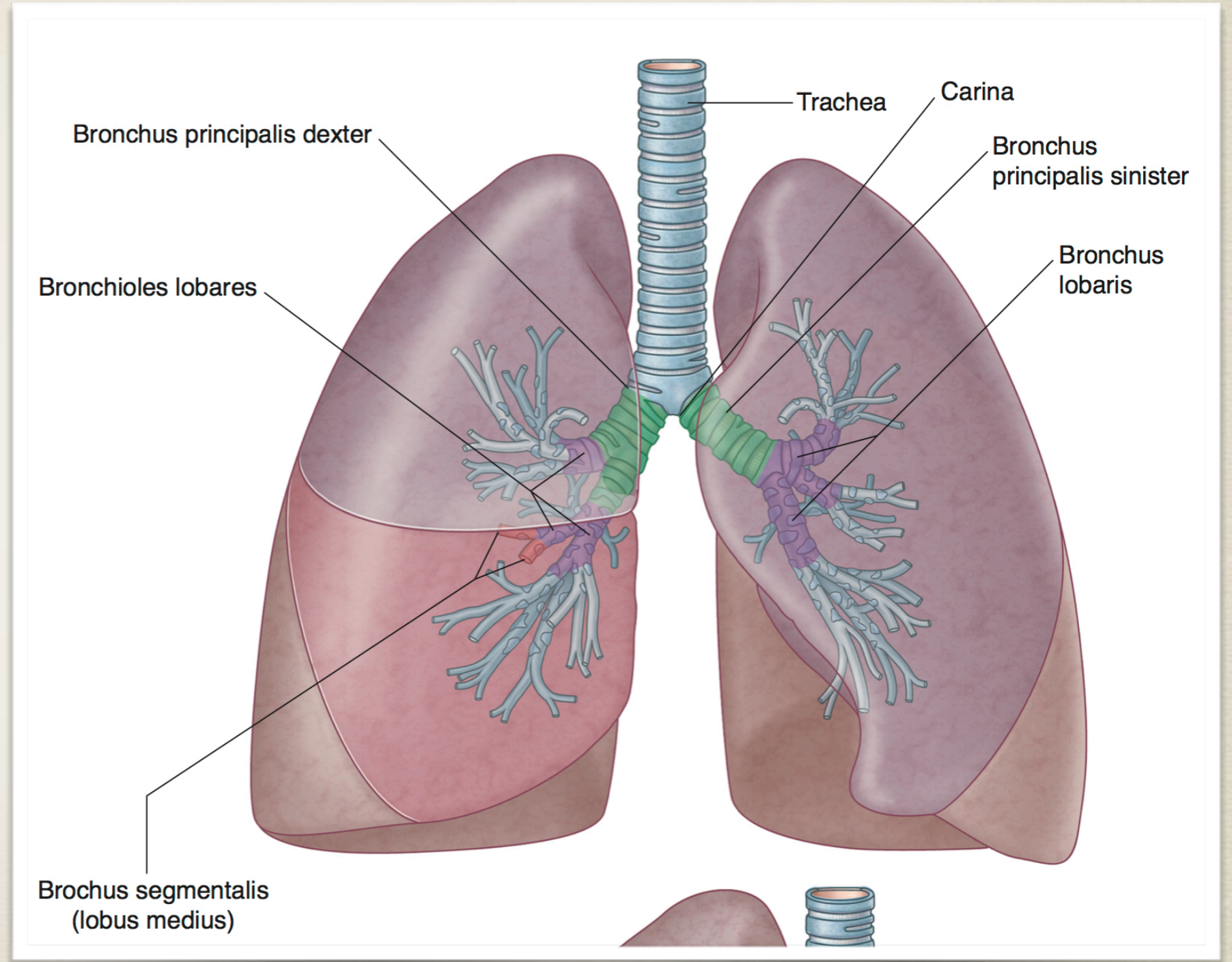


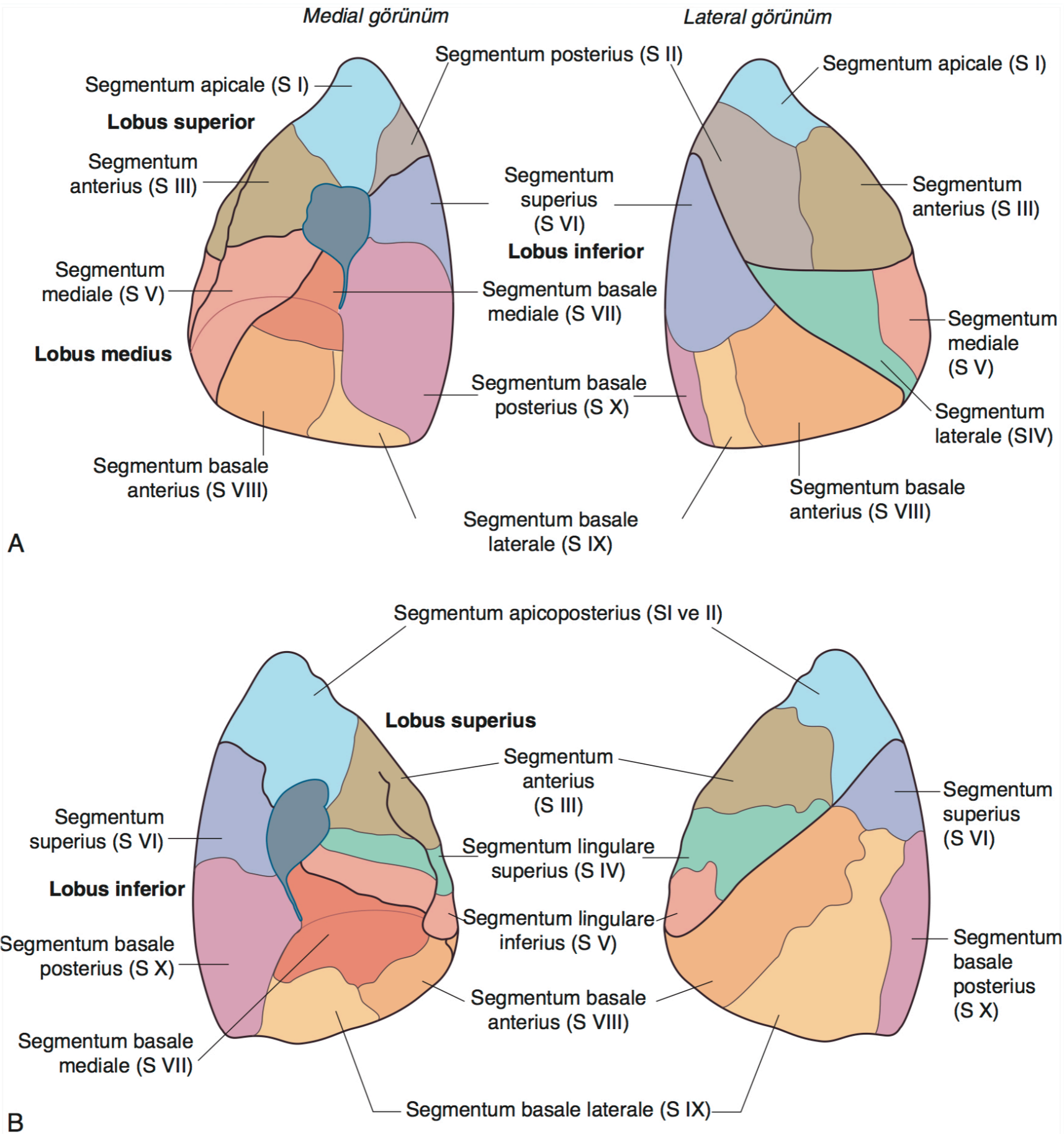




Akciğerler – 3

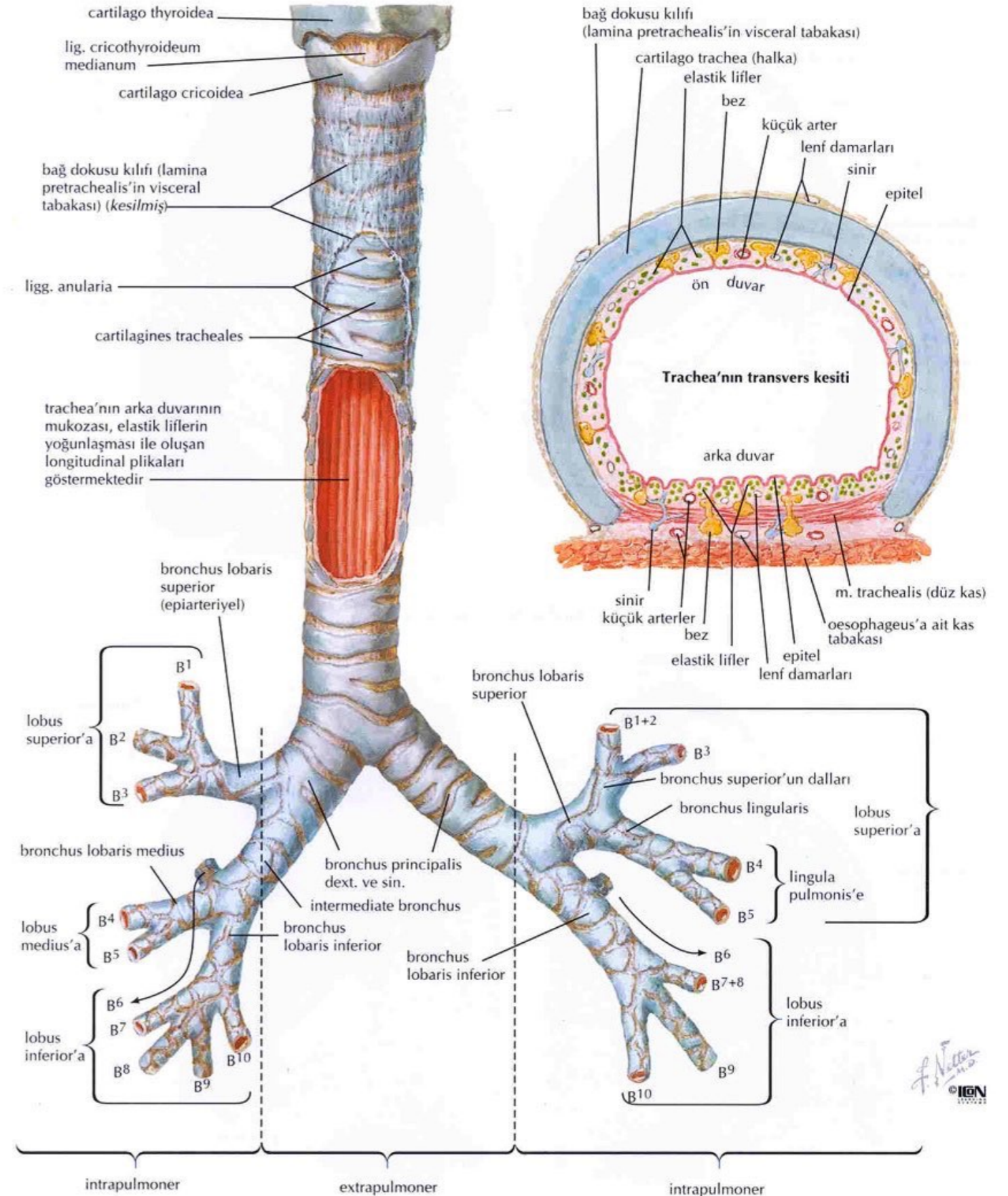
- * Sağ – 2 fissür – 3 lob
- * Sol – 1 fissür – 2 lob
- * Fissura obliqua
- * Fissura horizontalis
- * Lingula pulmonis
- * Lobus superior
- * Lobus medius
- * Lobus inferior

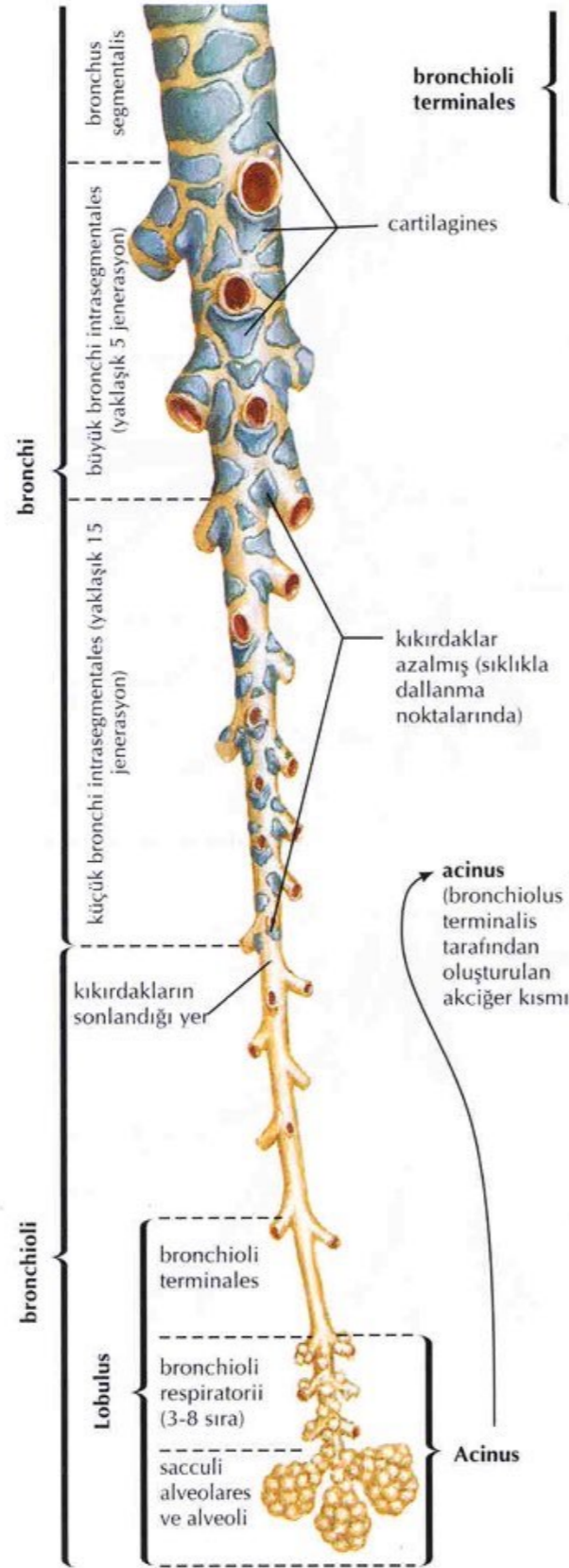




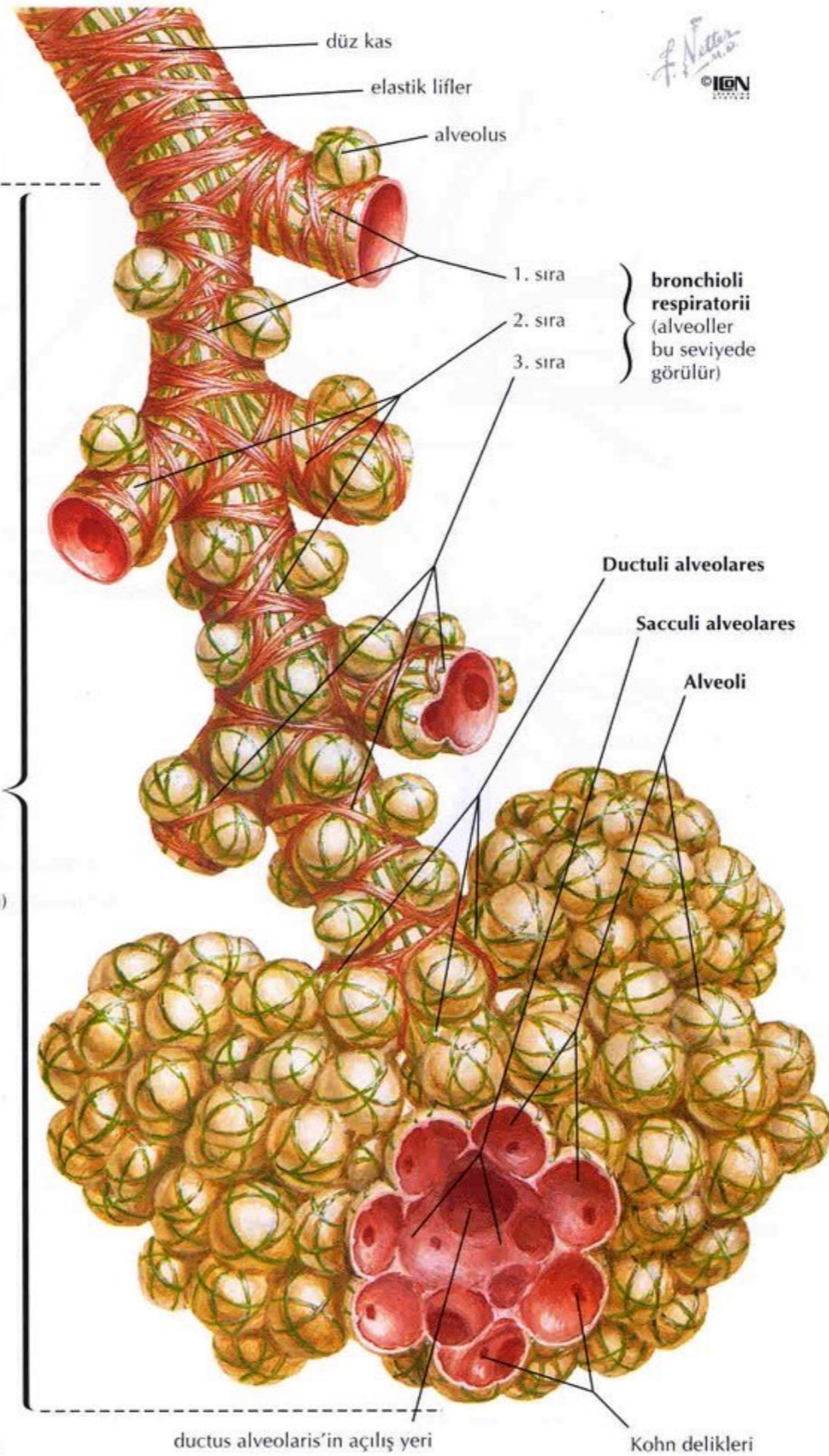
Bronşlar

- * Bronchus principalis
- * Bronchus lobaris
- * Bronchus segmentalis
- * Bronchus terminalis
- * Bronchiolus respiratorius
- * Ductus alveolaris
- * Saccus alveolaris
- * Alveolus pulmonis

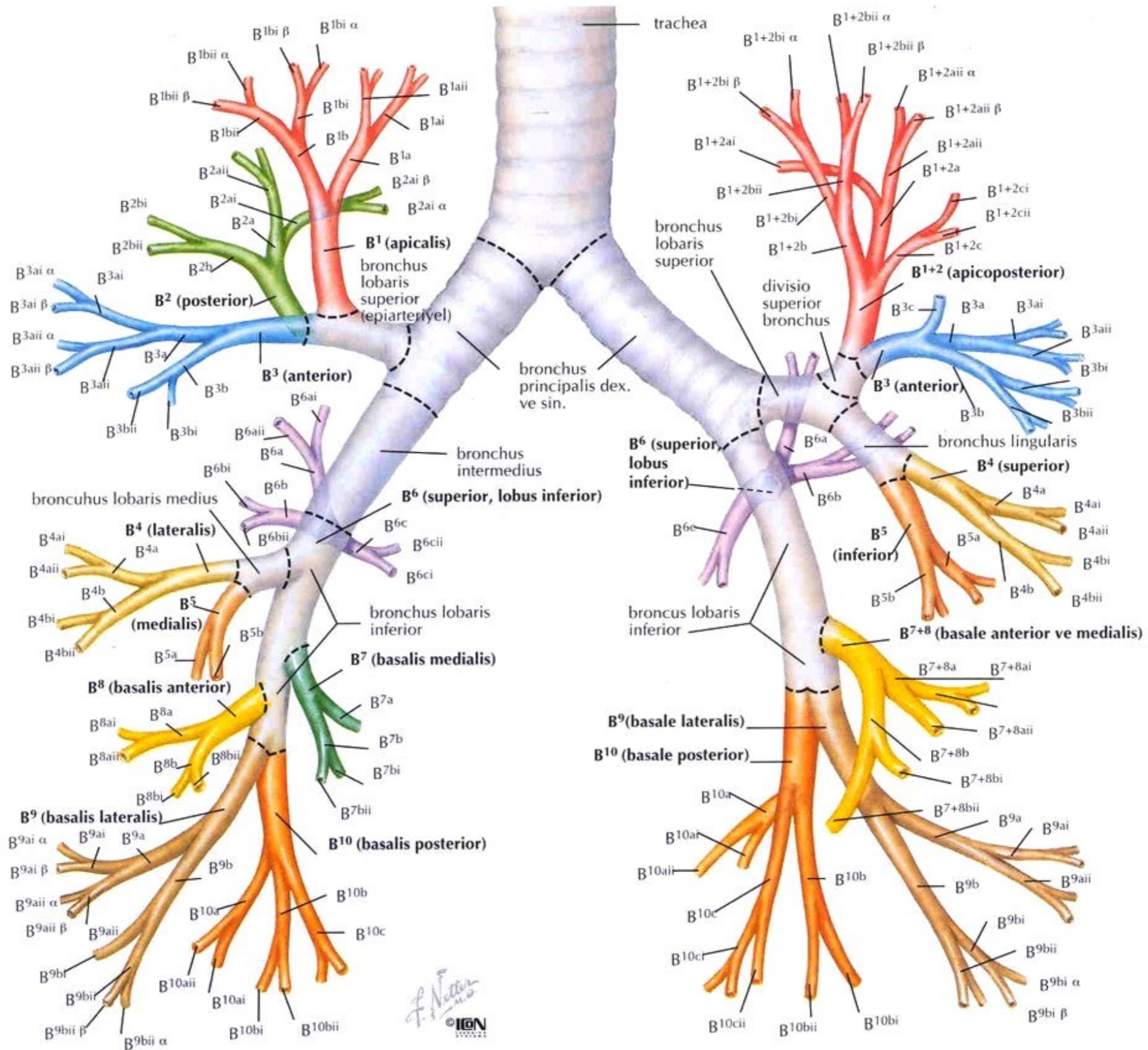




Intrapulmoner hava yollarının alt bölümleri



Intrapulmoner hava yollarının yapısı



Damarlar

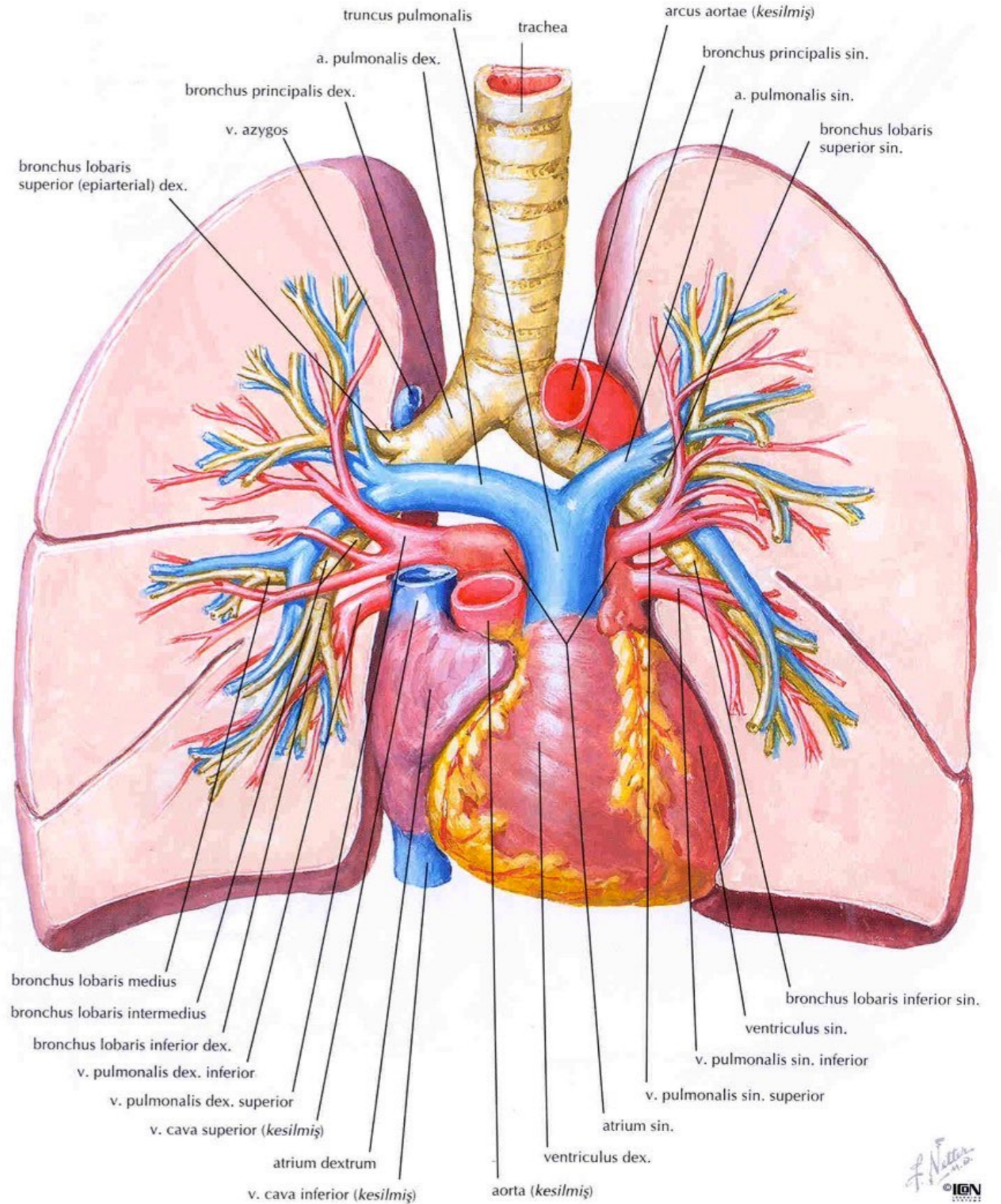
* Akciğerleri besleyen

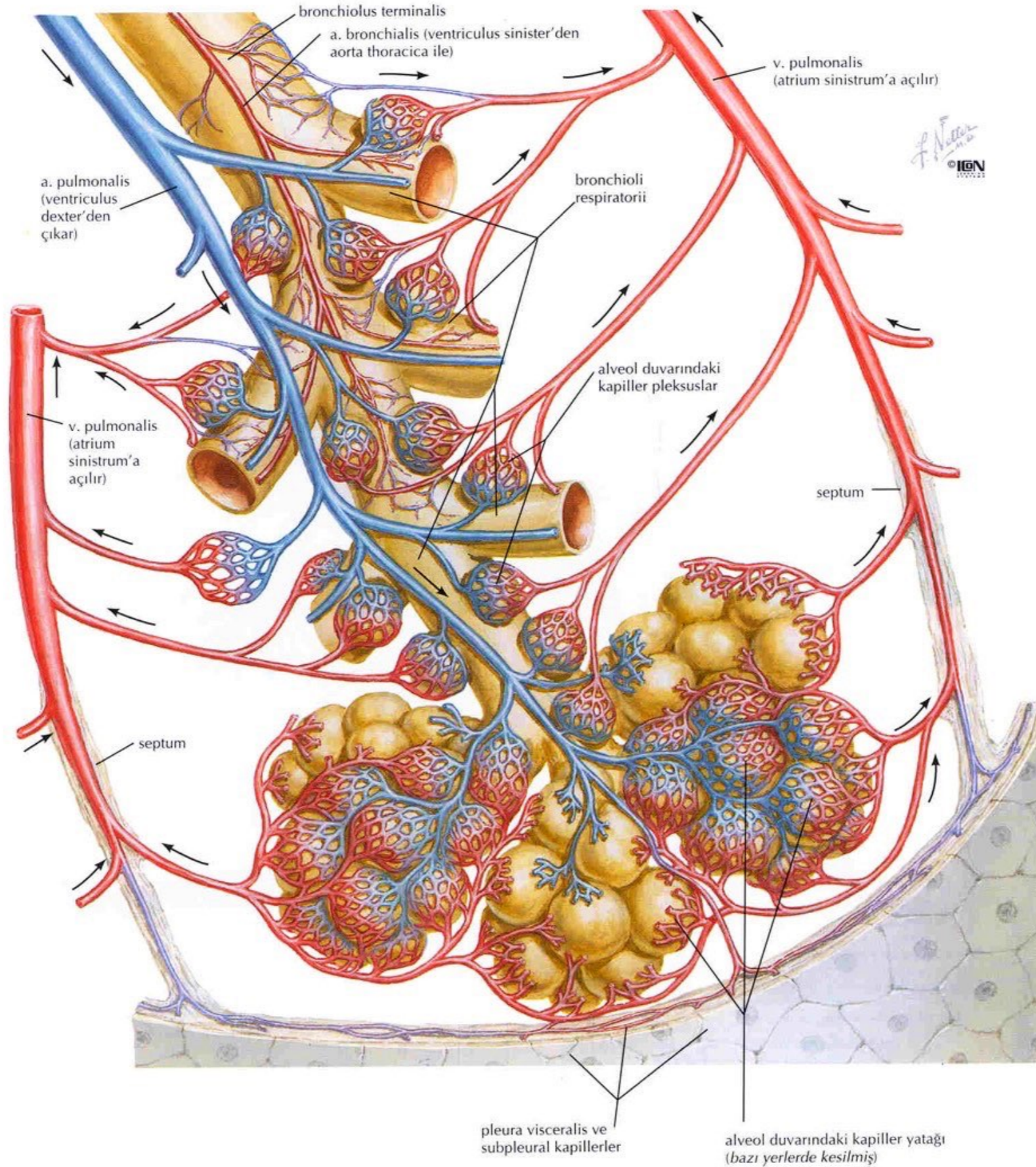
► A. bronchialis

* Kanı oksijenlendiren

► A. pulmonalis

► V. pulmonalis'ler

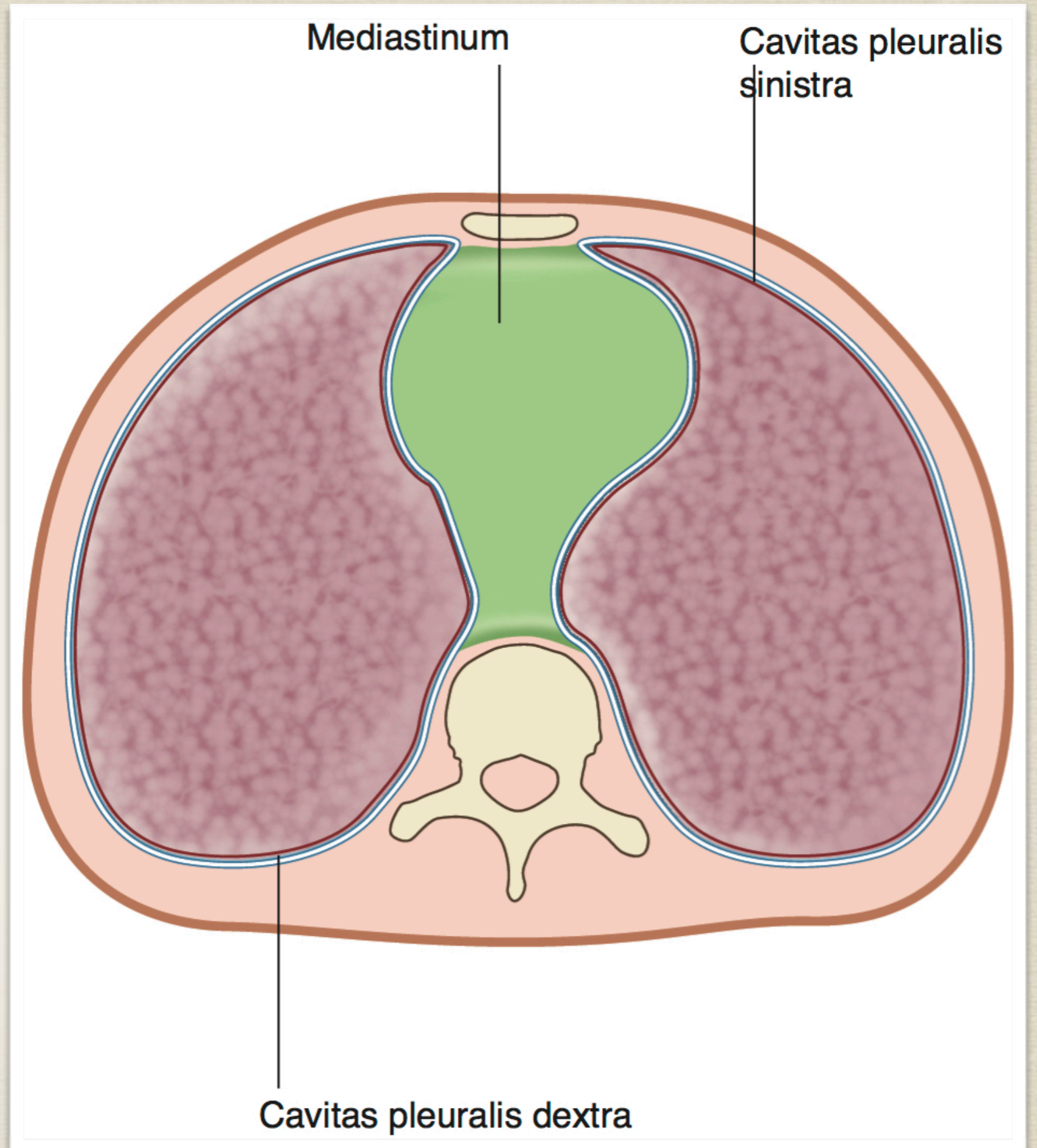


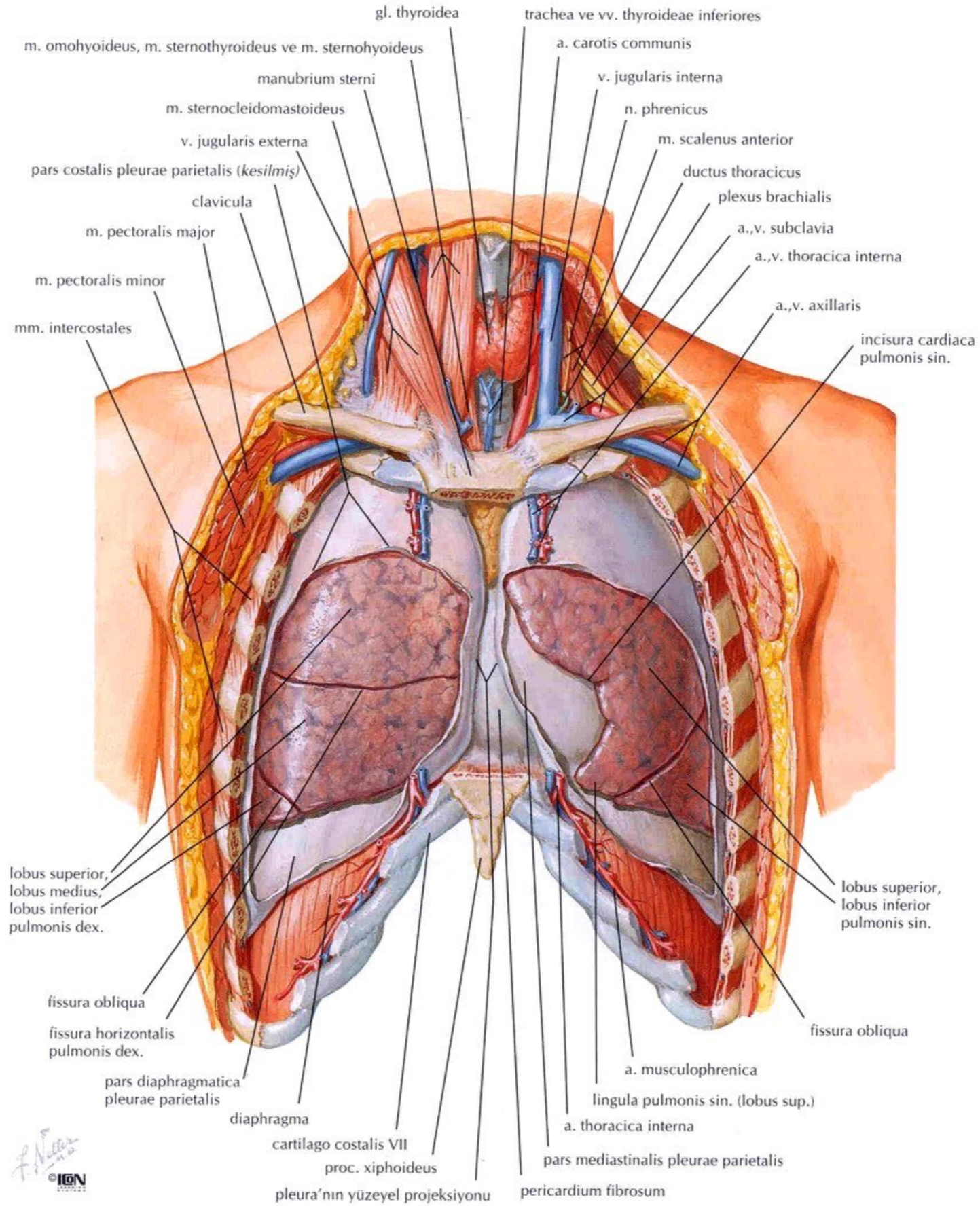


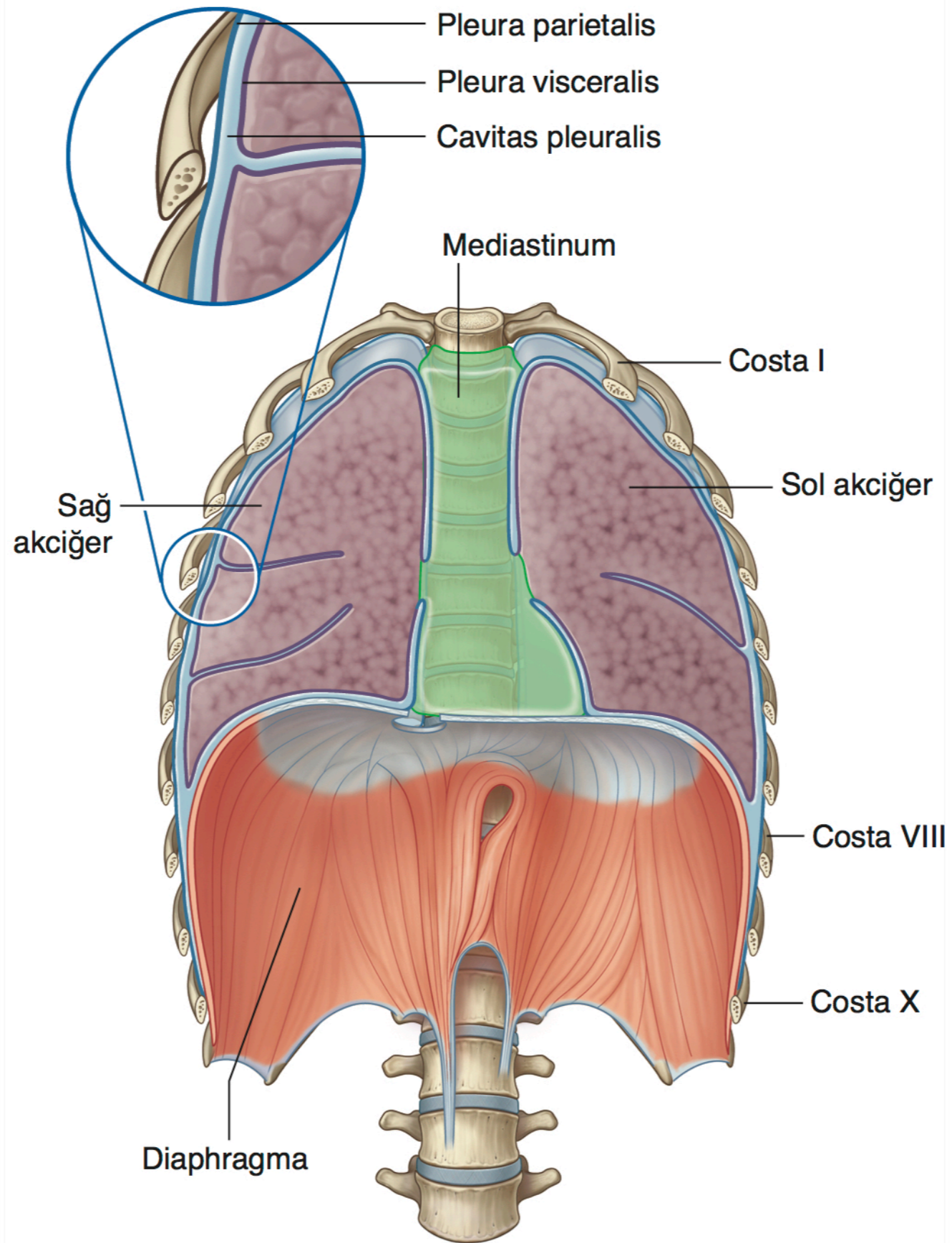


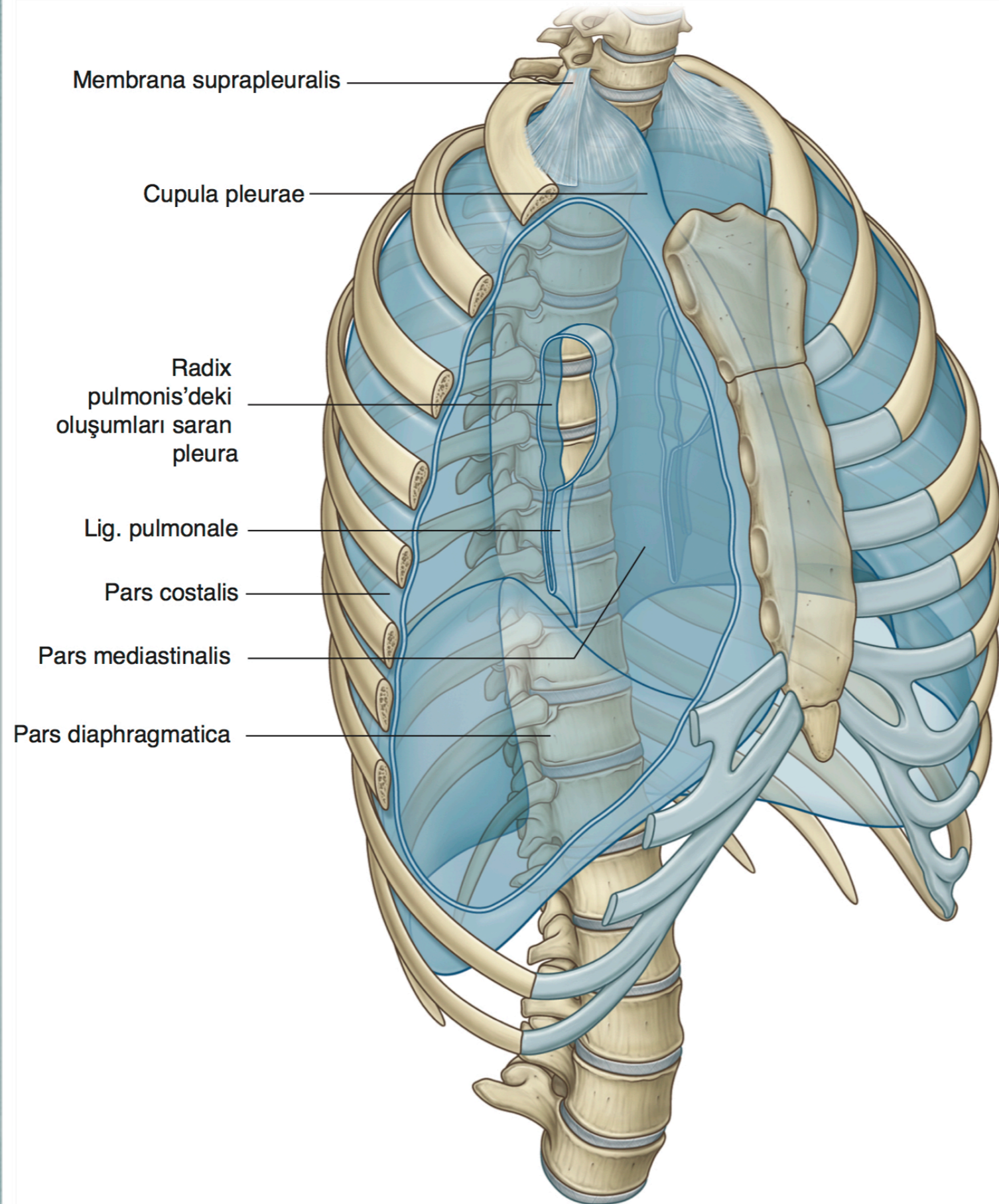
Pleura

- * Seröz zar
- * Pleura parietalis
- * Pleura visceralis
- * Cavitas pleuralis
- * Recessus costodiaphragmaticus











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