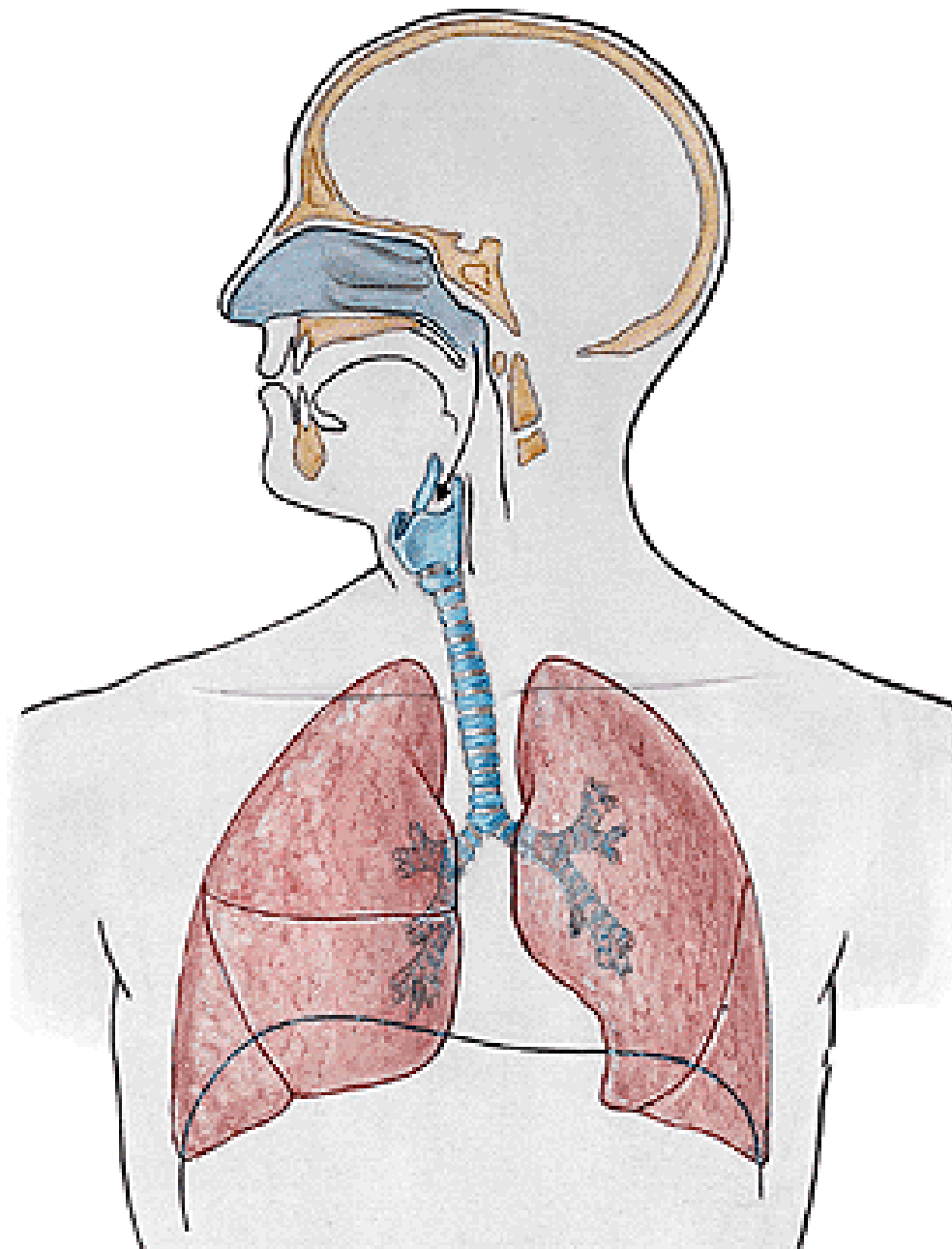


# **RESPIRATORY SYSTEM**



# **NASUS EXTERNUS**

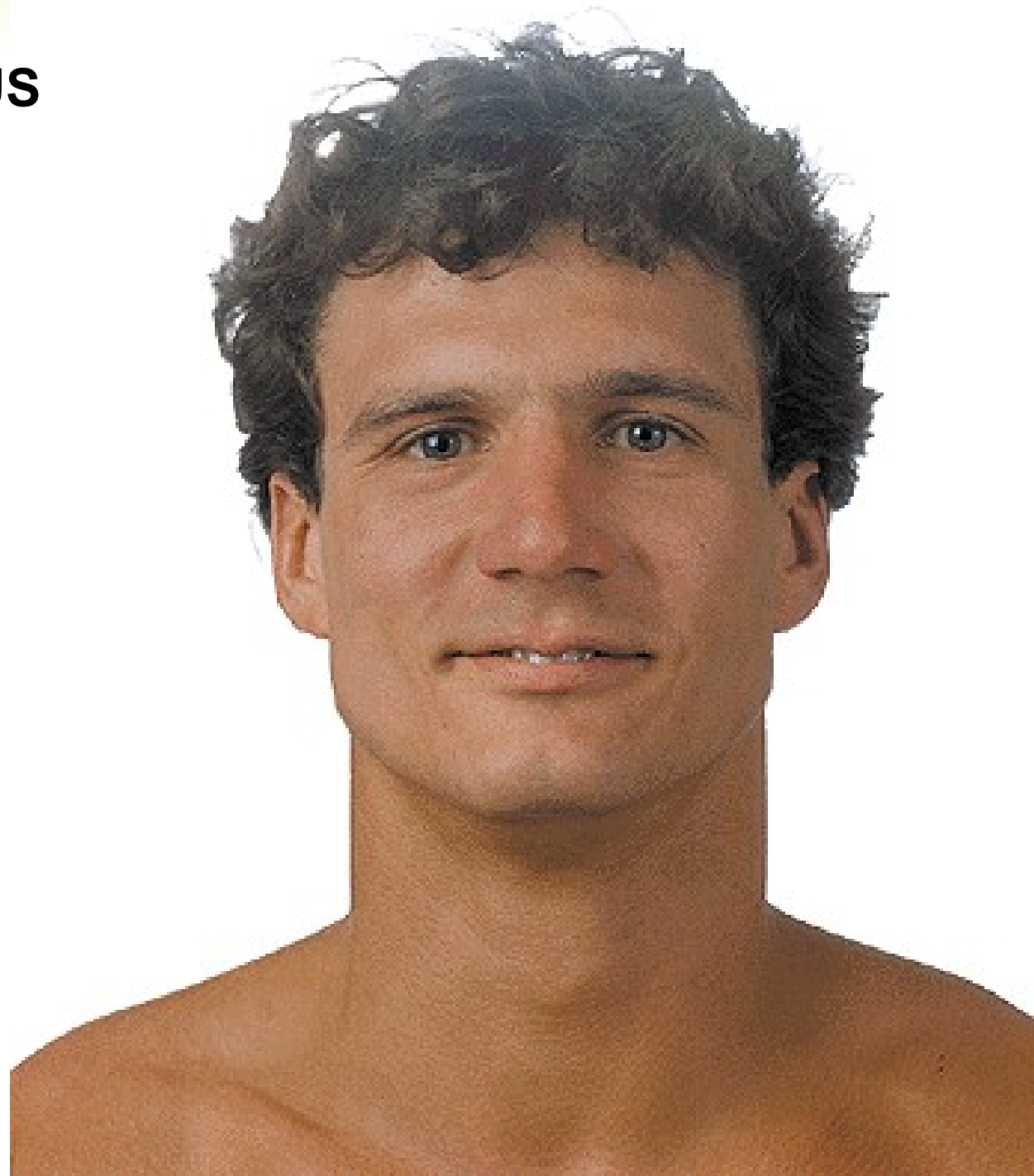
**Radix nasi**

**Dorsum nasi**

**Apex nasi**

**Nares**

**Alae nasi**



**Cartilago nasi lateralis**

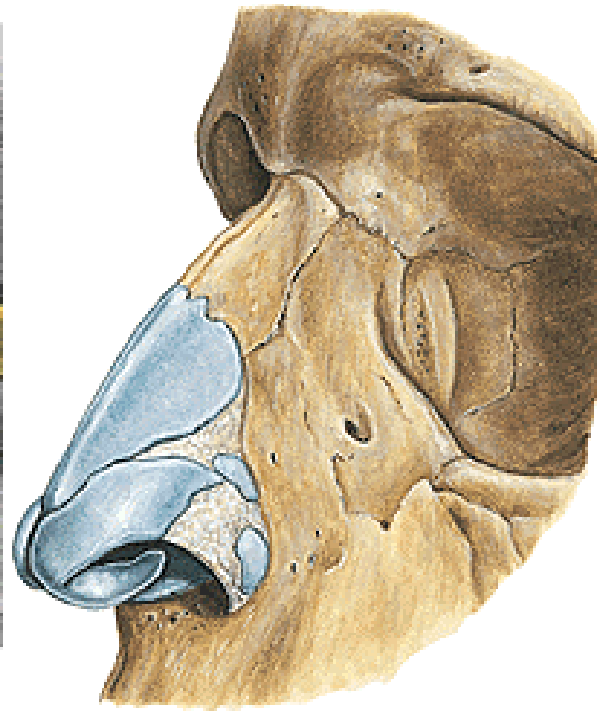
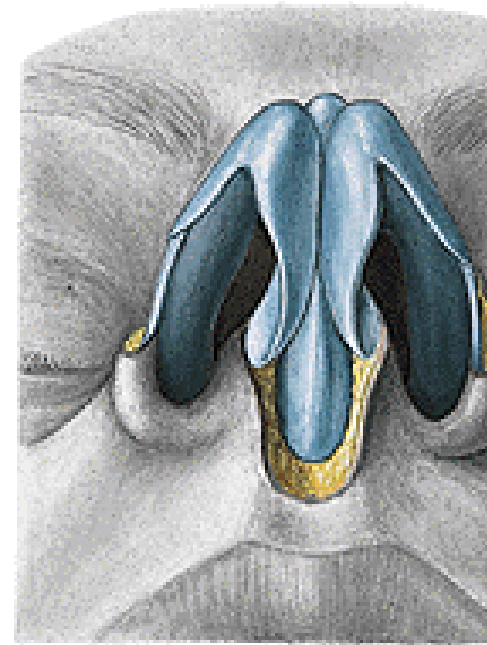
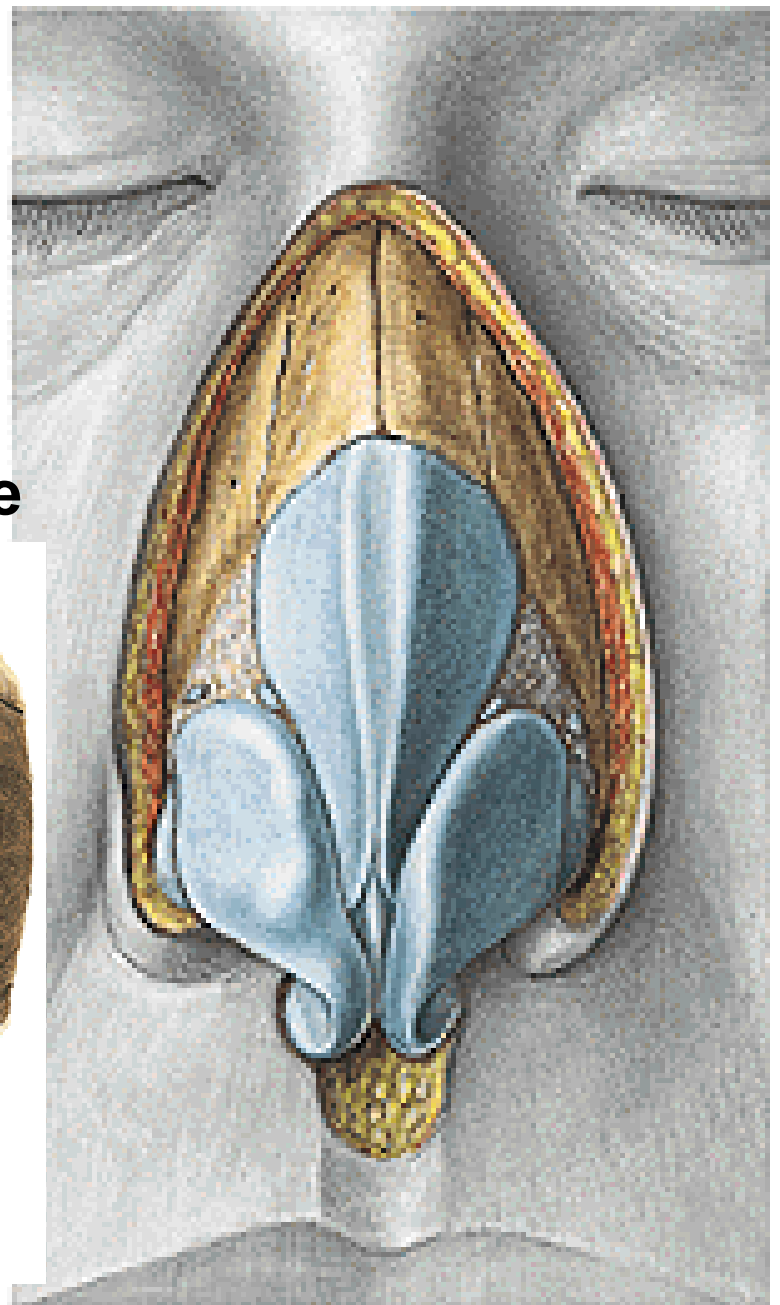
**Cartilago alaris major**

- crus laterale

- crus mediale

**Cartilagine alares minores**

**Cartilagine nasales accessoriae**



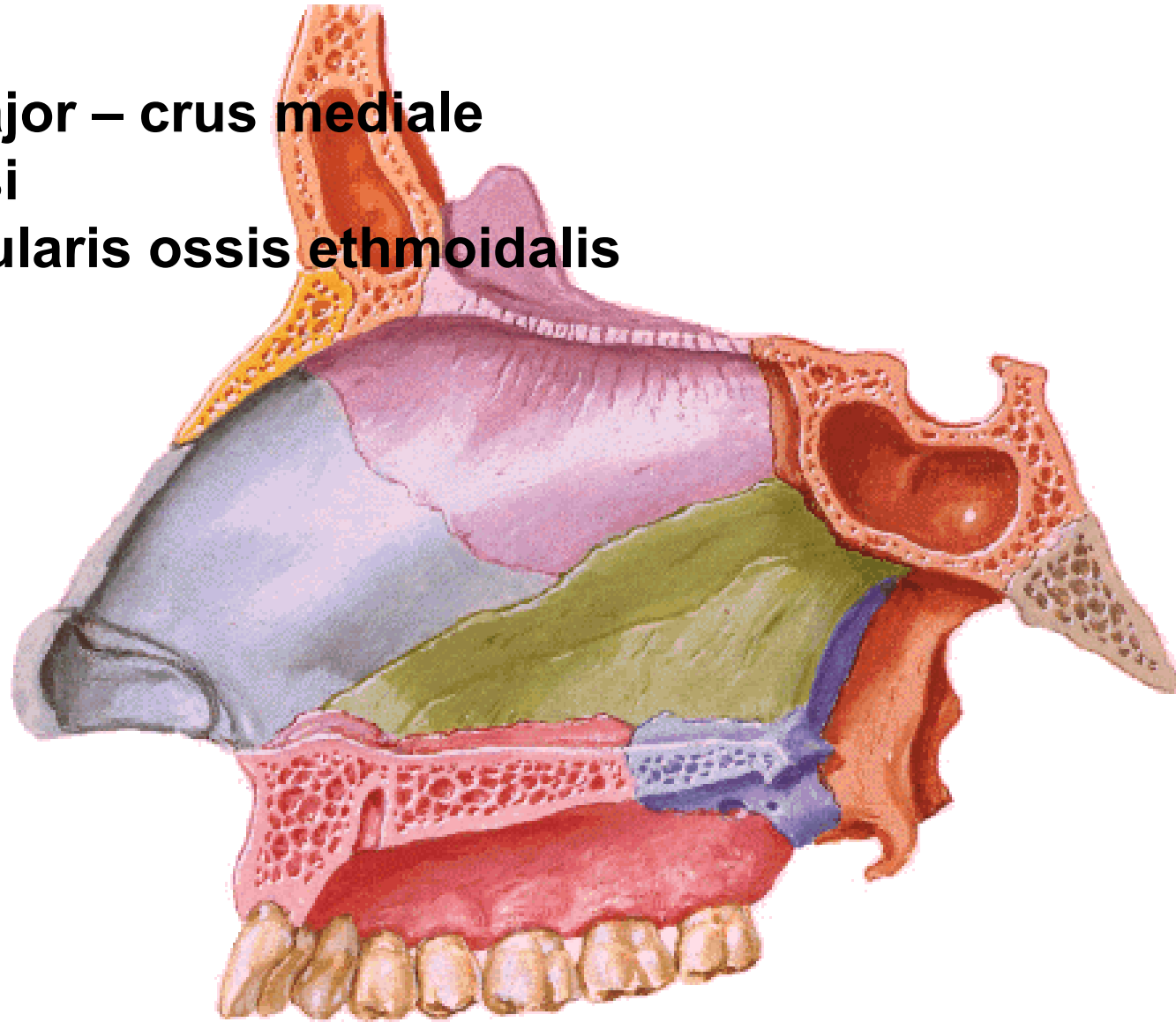
# SEPTUM NASI

Cartilago alaris major – crus mediale

Cartilago septi nasi

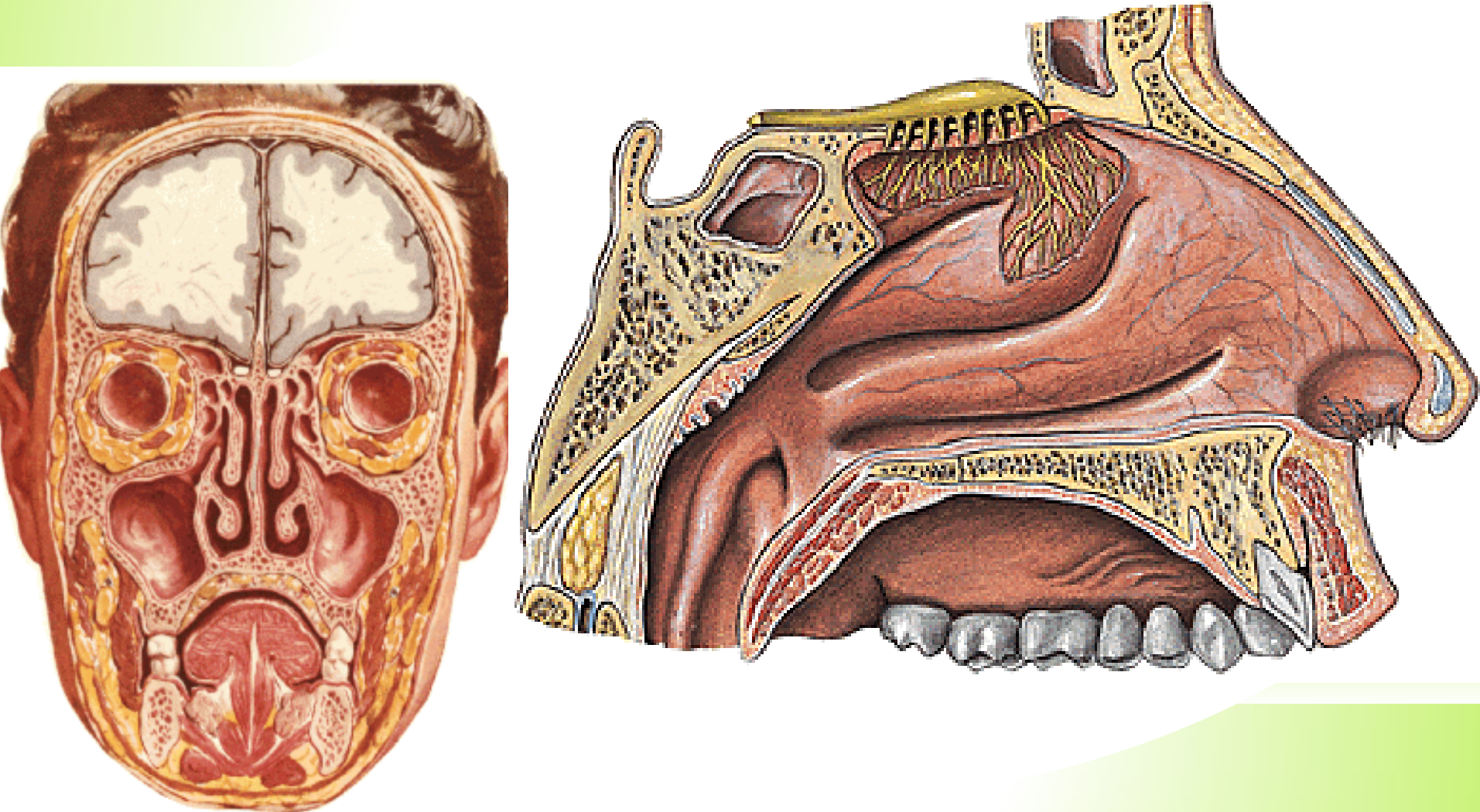
Lamina perpendicularis ossis ethmoidalis

Vomer



# CAVITAS NASI

- vestibulum – limen, vibrisae
- cavitas nasi propria – meatus nasi sup., medius, inf.  
meatus nasi communis, meatus nasopharyngeus, choanae

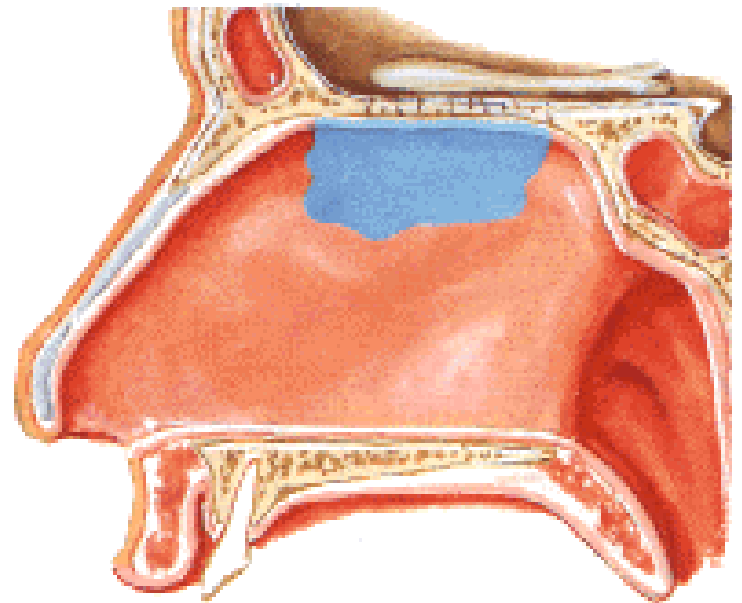
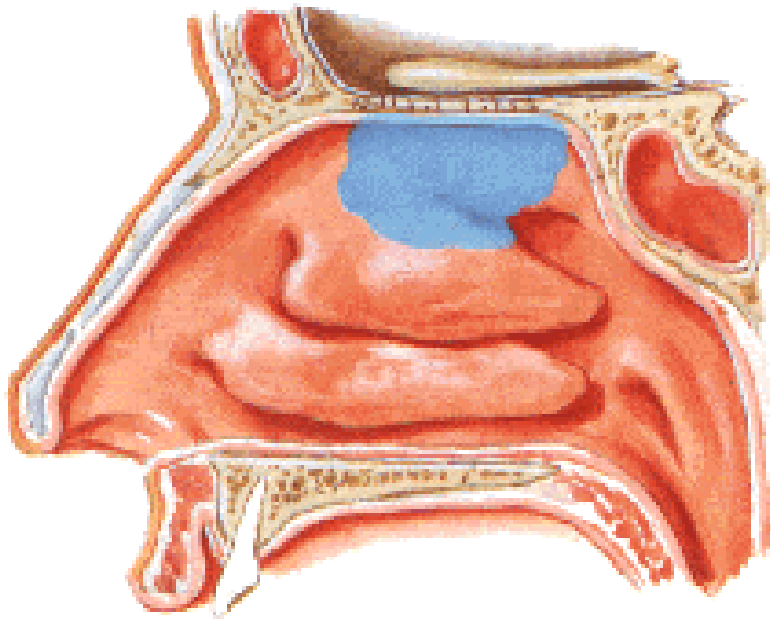


# NASAL MUCOSA

Regio respiratoria

plexus cavernosi - epistaxis

Regio olfactoria



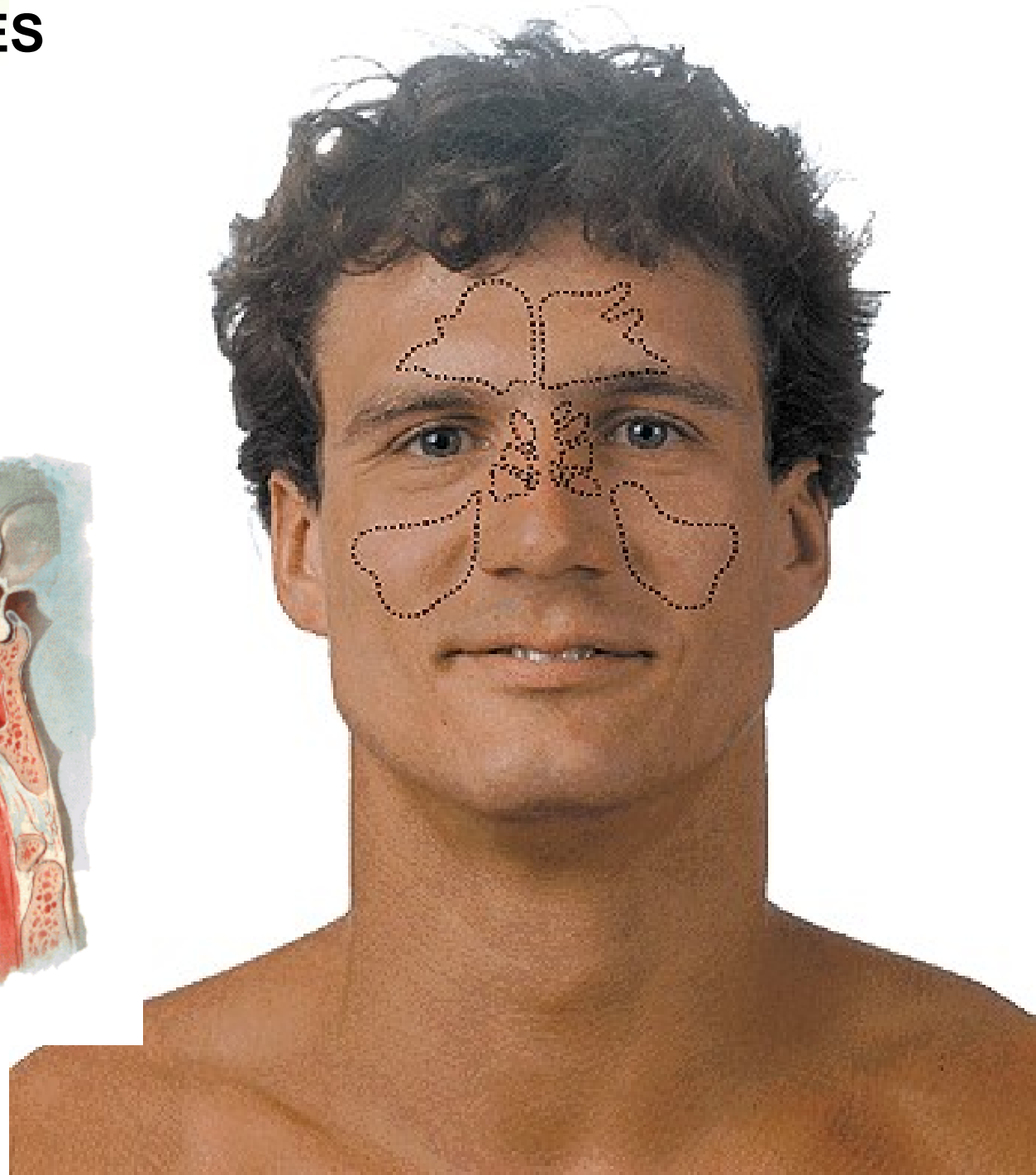
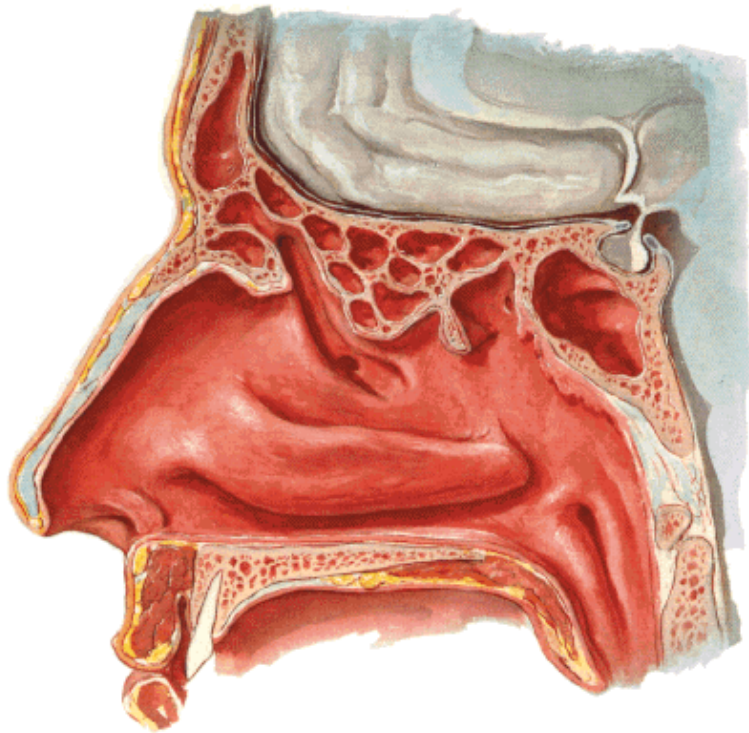
# SINUS PARANASALES

**Sinus maxillaris**

**Sinus frontalis**

**Sinus ethmoidales**

**Sinus sphenoidalis**

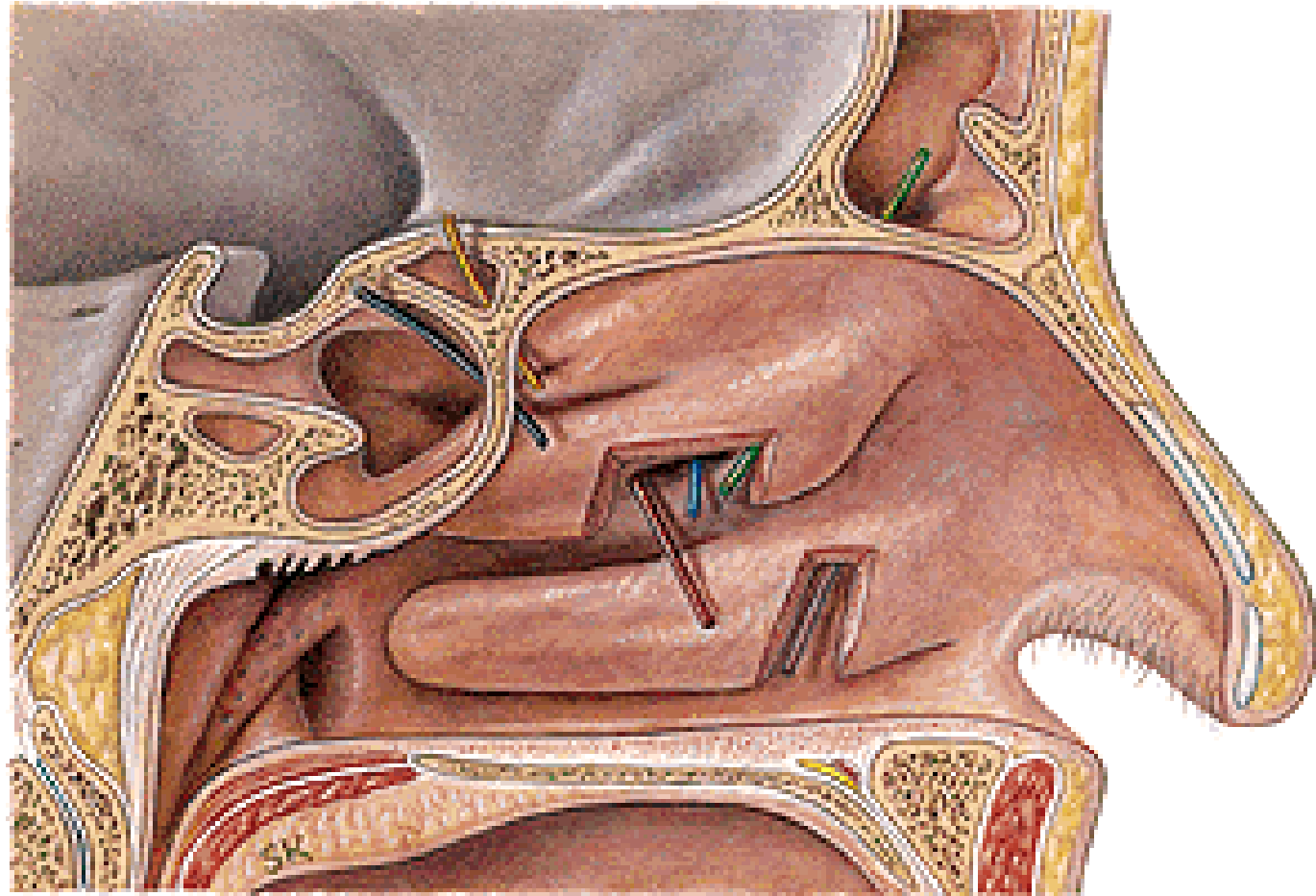


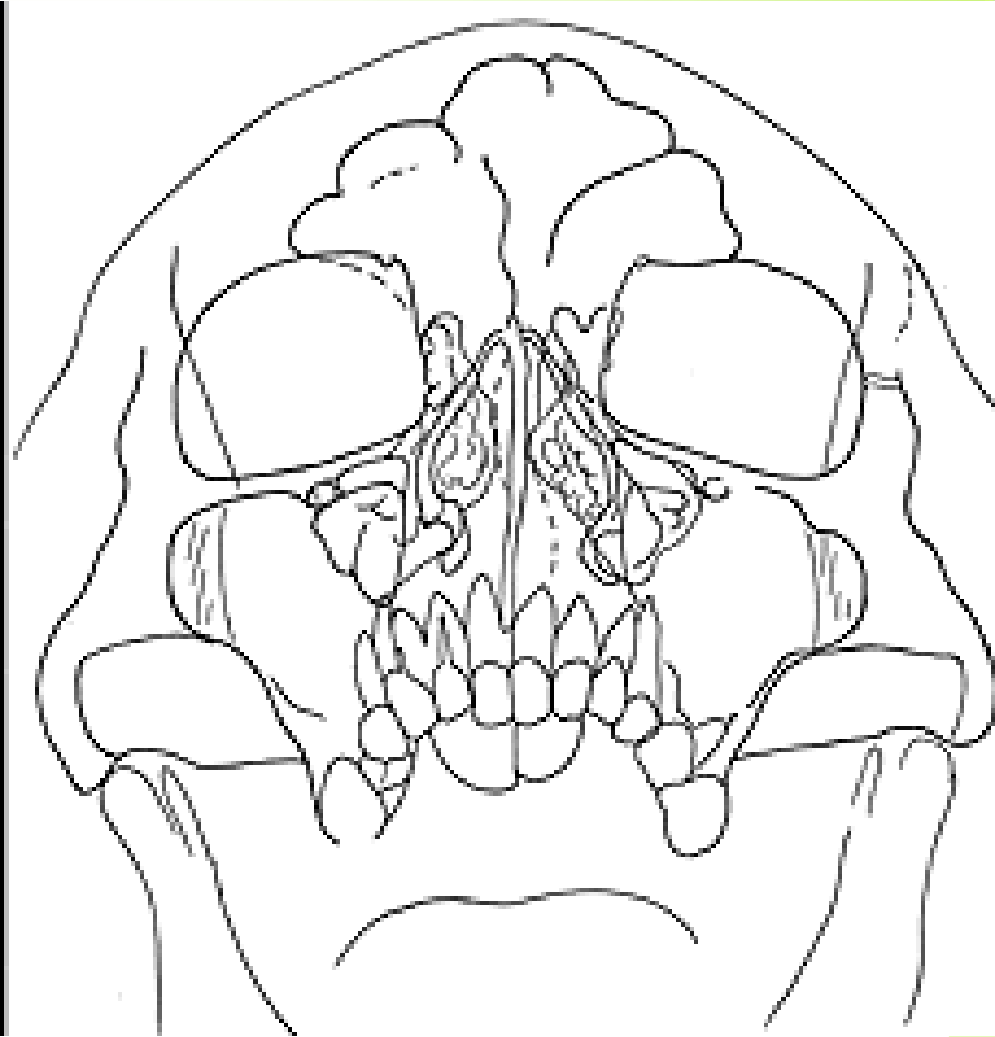


**Meatus nasi inf. – ductus nasolacrimalis**

**Meatus nasi medius – sinus maxillaris, frontalis, cellulae ethmoidales anteriores**

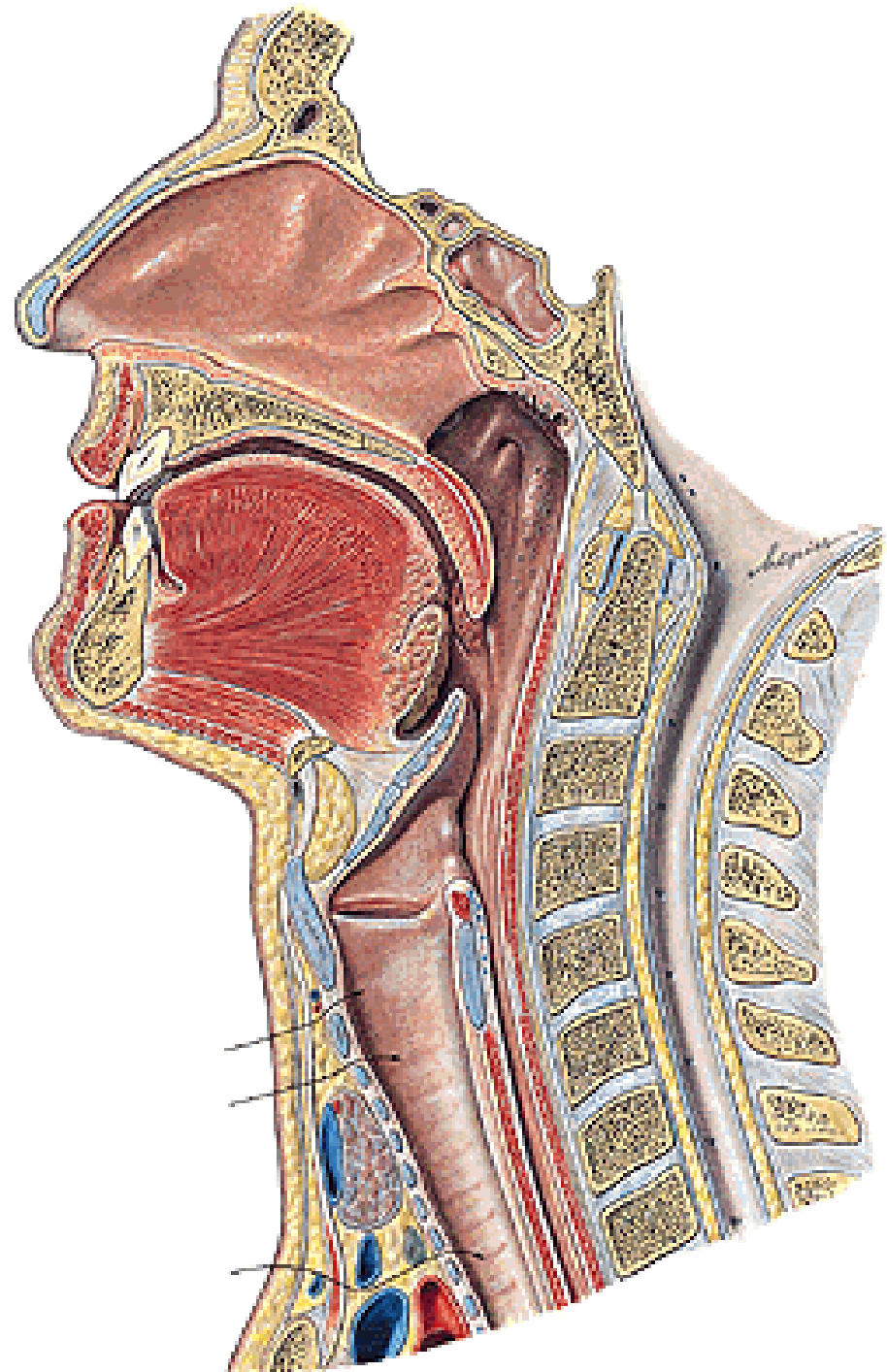
**Meatus nasi sup. – cellulae ethmoidales posteriores, sinus sphenoidalis**





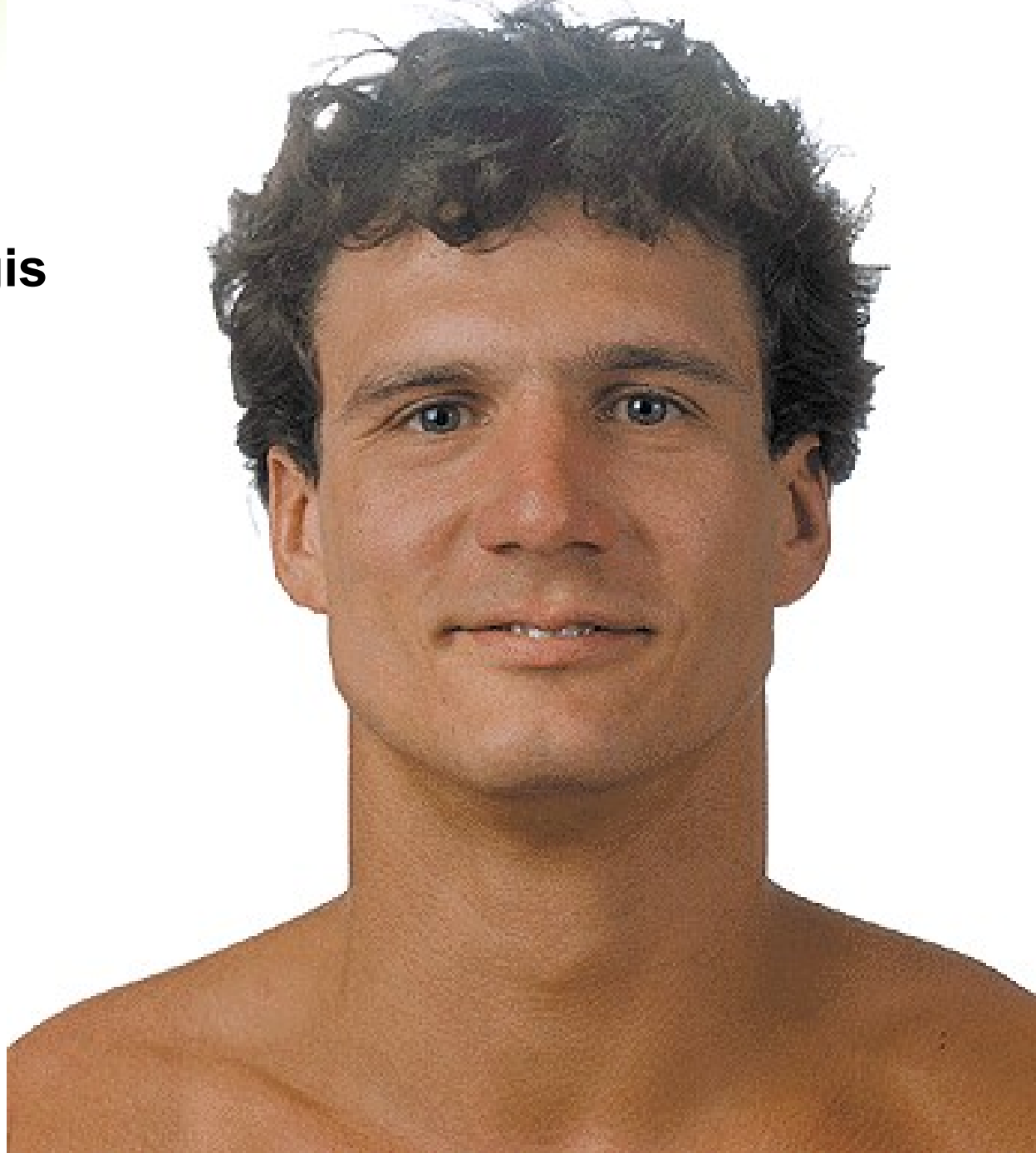
# PHARYNX

## Aditus laryngis



# LARYNX

**Prominentia laryngis**



# CARTILAGINES LARYNGIS:

**Cartilago thyroidea**

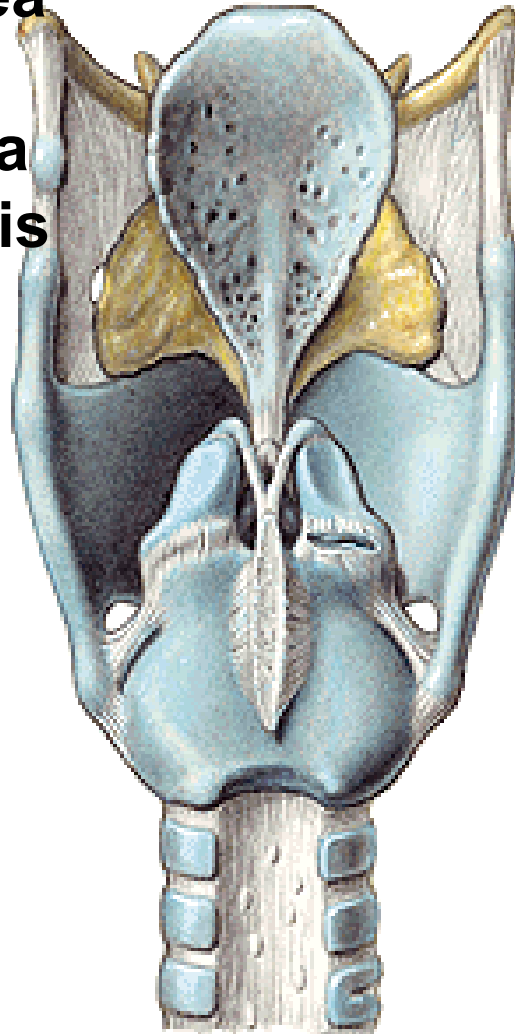
**Cartilago cricoidea**

**Cartilago arytenoidea**

**Cartilago epiglottica**

**Cartilago corniculata**

**Cartilago cuneiformis**

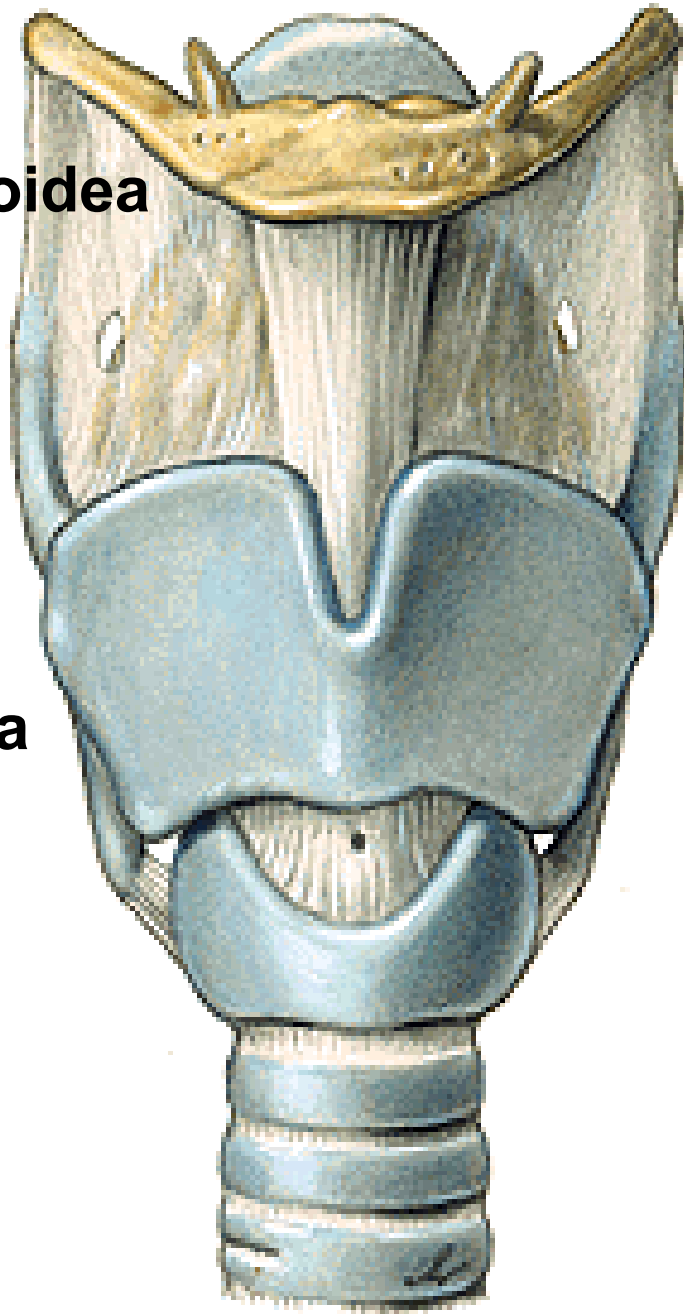


# LARYNX

**Membrana thyrohyoidea**

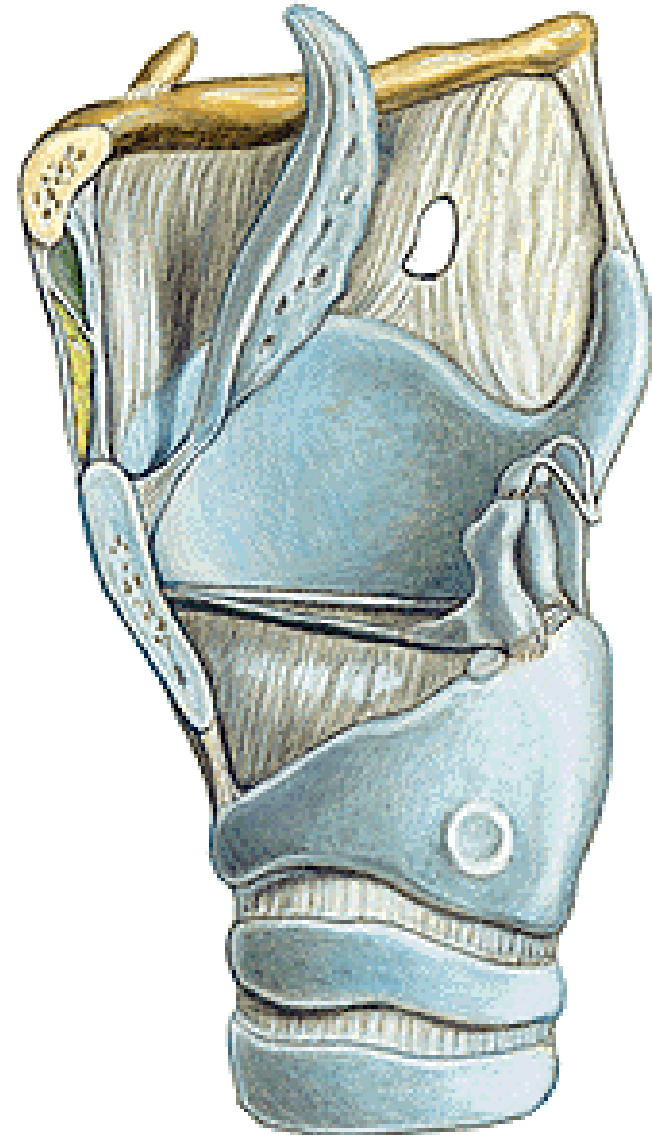
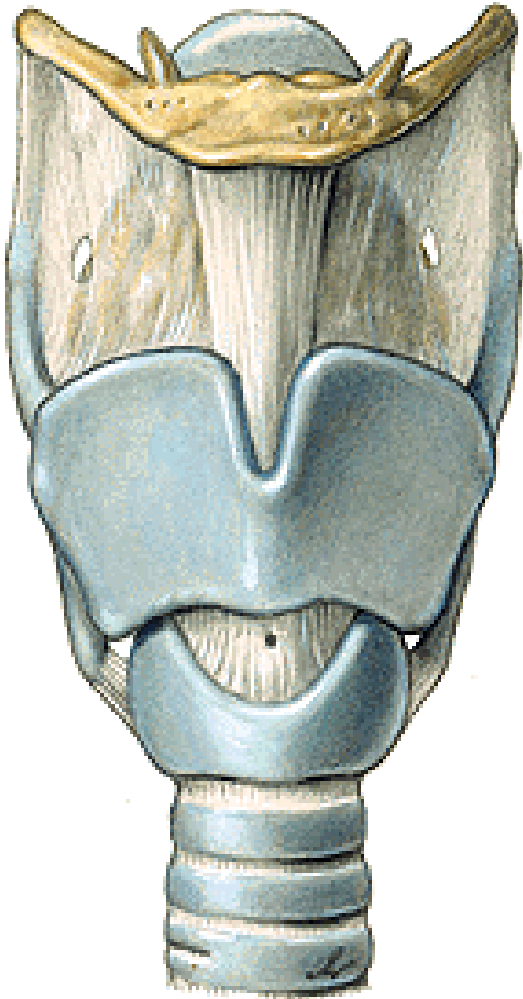
**Cartilago thyroidea**

- lamina dextra
- lamina sinistra
- cornua superiora
- cornua inferiora
- facies art. cricoidea



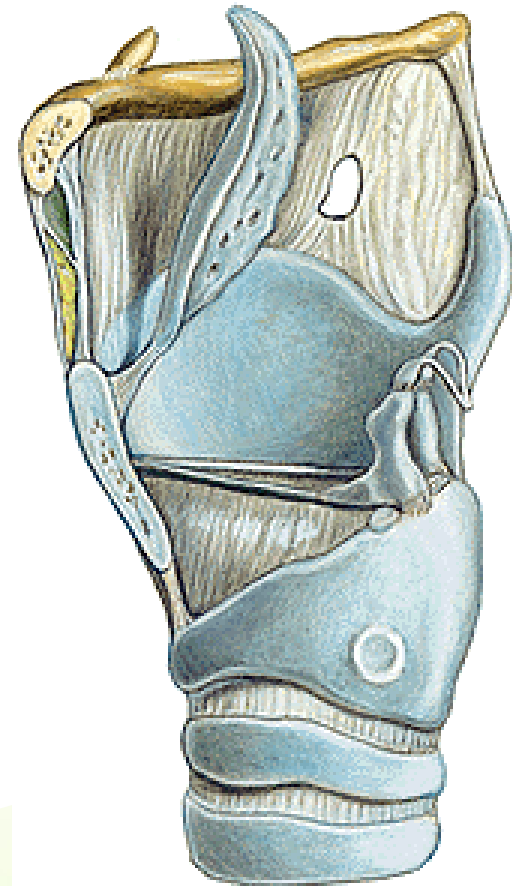
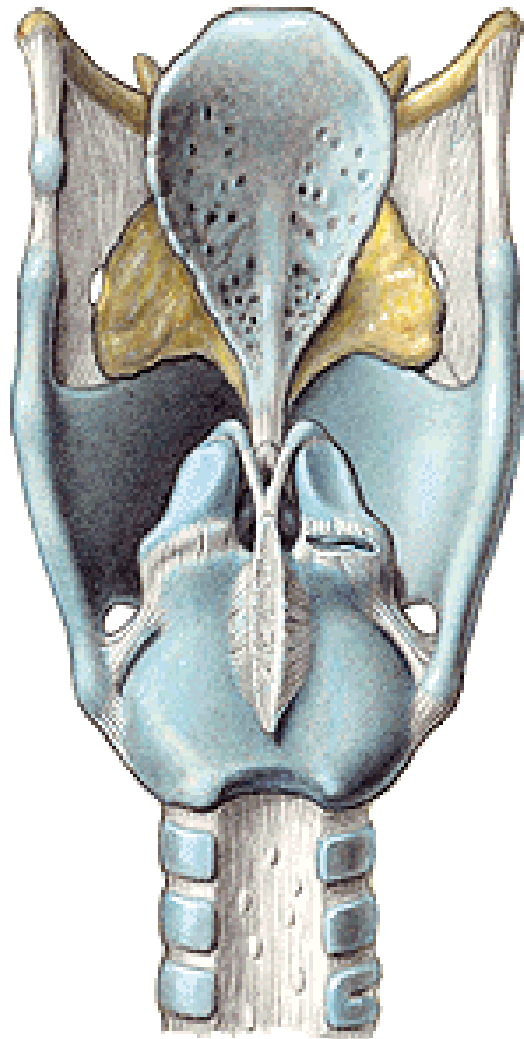
# CARTILAGO CRICOIDEA

- arcus
- lamina
- facies articularis arytenoidea
- facies articularis thyroidea



# CARTILAGO ARYTENOIDEA

- apex
- basis
  - facies art. cricoidea
  - processus vocalis
  - processus muscularis





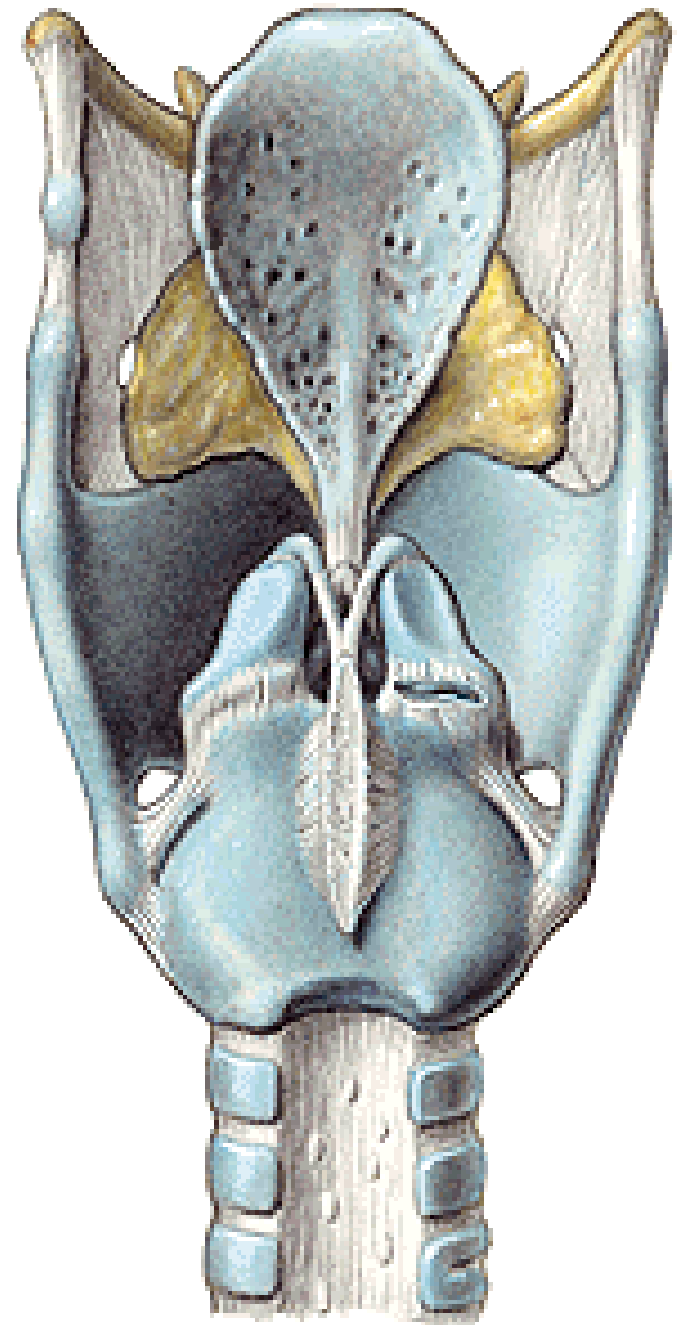
# **CARTILAGO EPIGLOTTICA**

**-petiolus epiglottidis**

**-lamina**

# **CARTILAGO CORNICULATA**

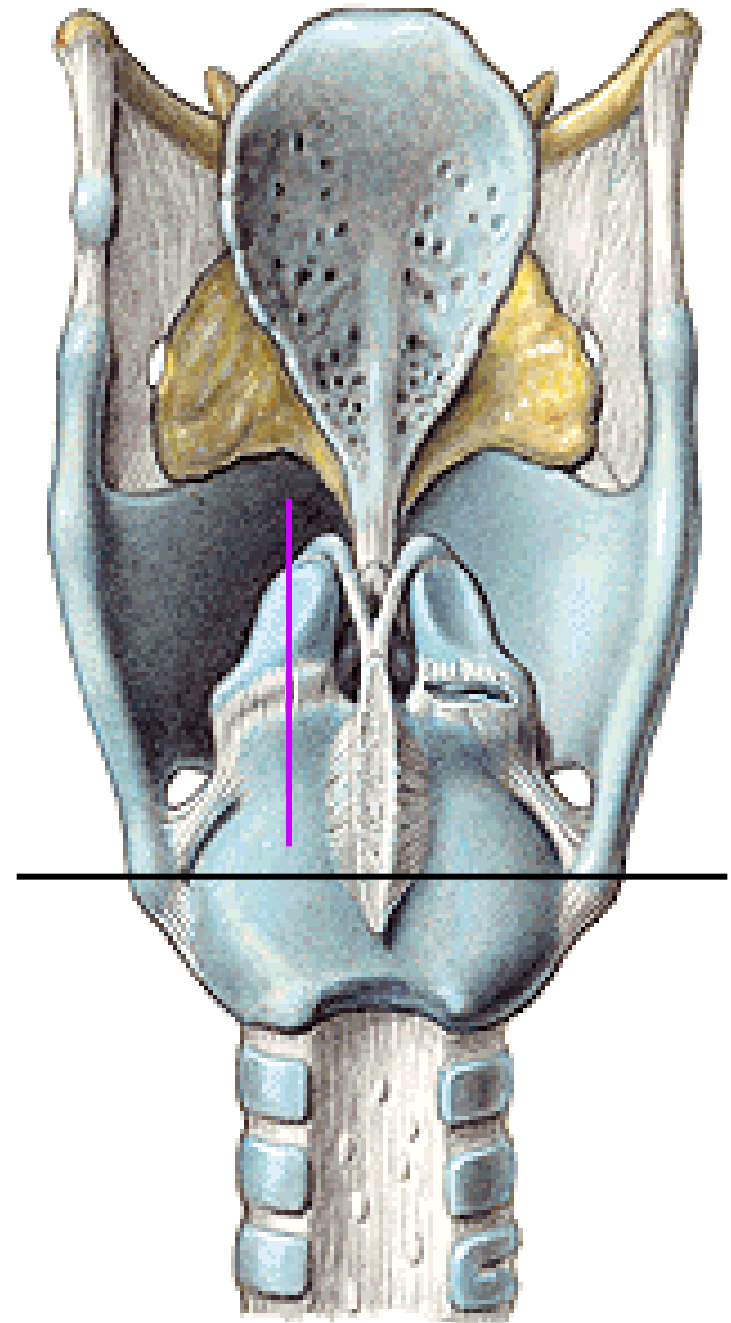
# **CARTILAGO CUNEIFORMIS**





**ARTICULATIO CRICOARYTENOIDEA**

**ARTICULATIO CRICOTHYROIDEA**

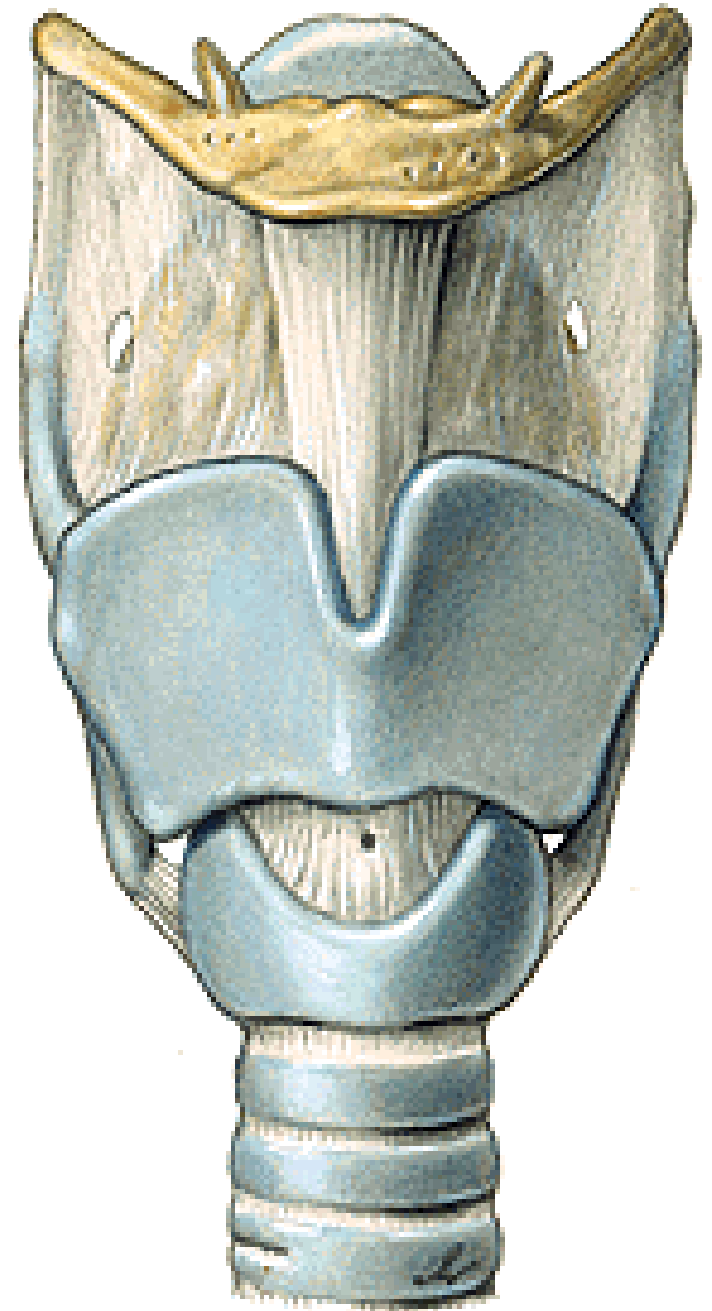
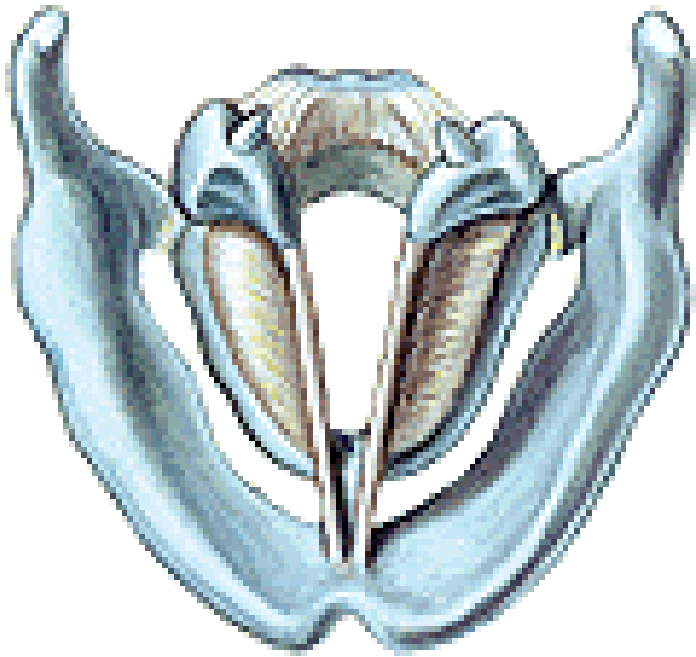


## CONUS ELASTICUS

-lig. cricothyroideum- coniotomy

-lig. vocale – plica vocalis

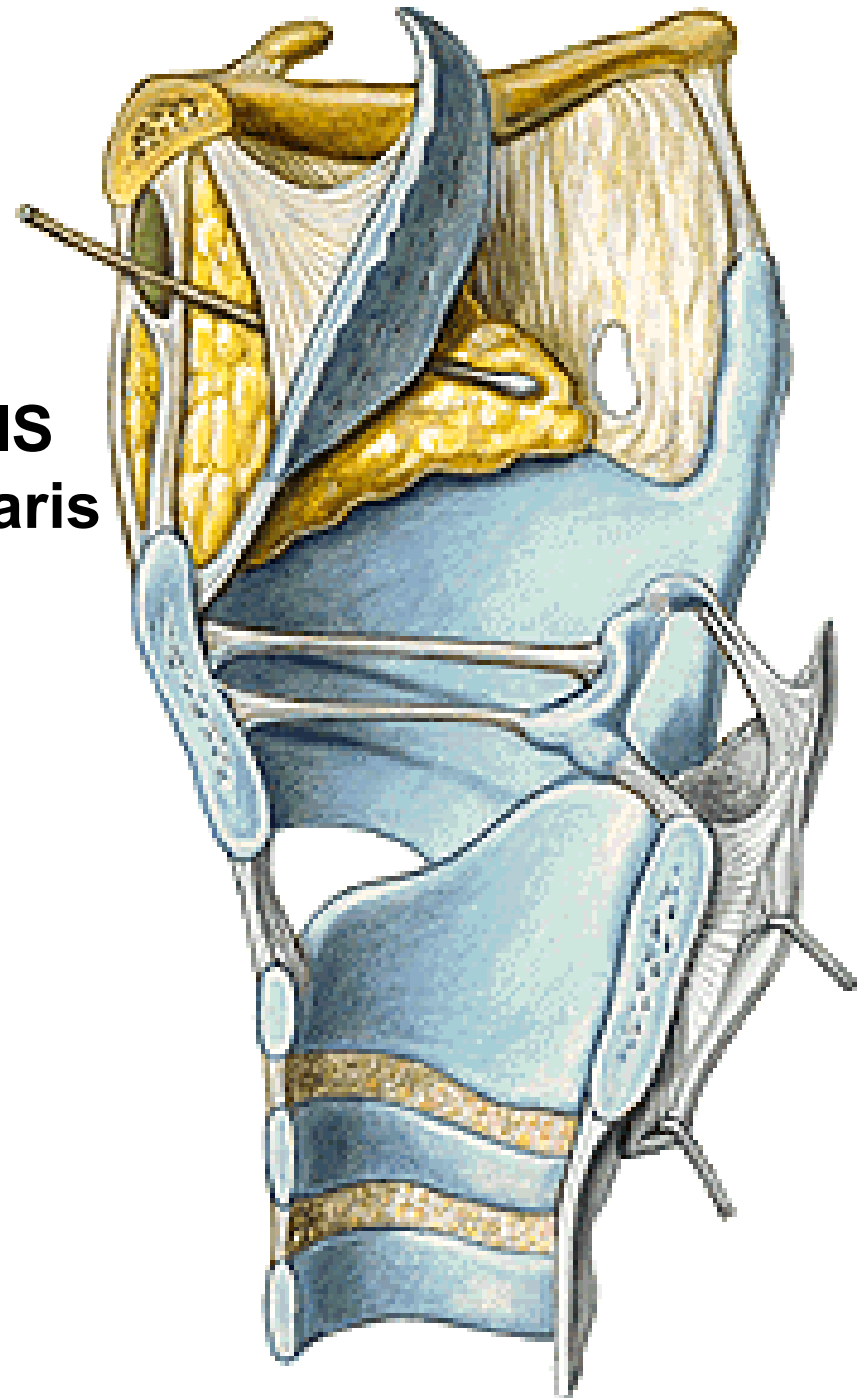
Lig. cricotracheale



**Lig thyroepiglotticum**  
**Lig. hyoepiglotticum**  
**Spatium preepiglotticum**

**MEMBRANA QUADRANGULARIS**  
**-lig. vestibulare – plica vestibularis**

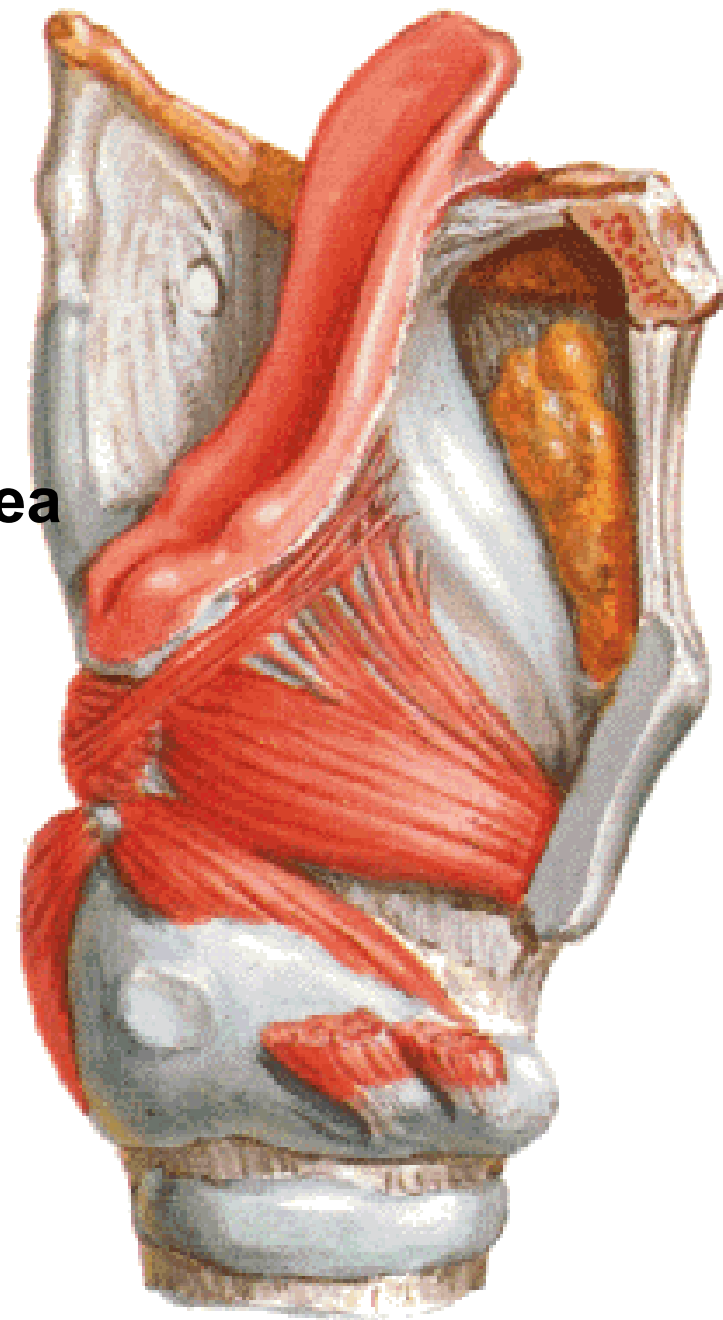
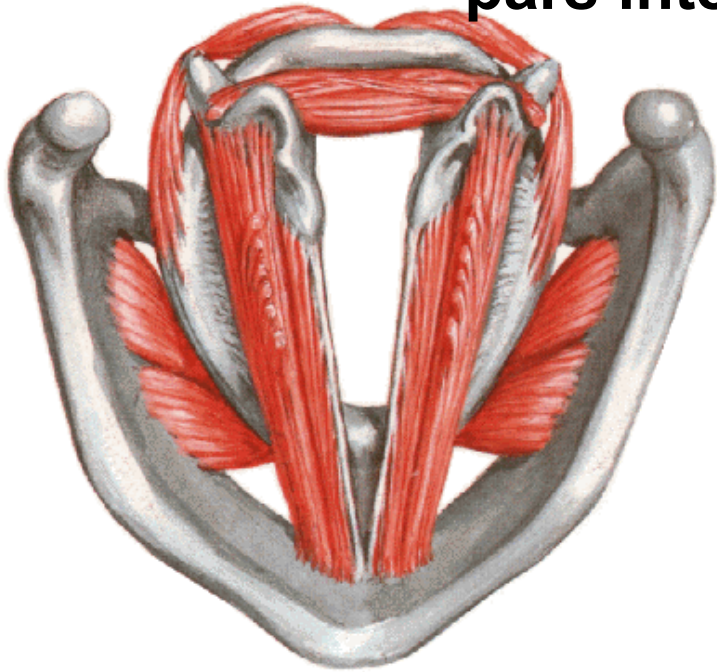
**MEMBRANA FIBROELASTICA**  
**LARYNGIS**

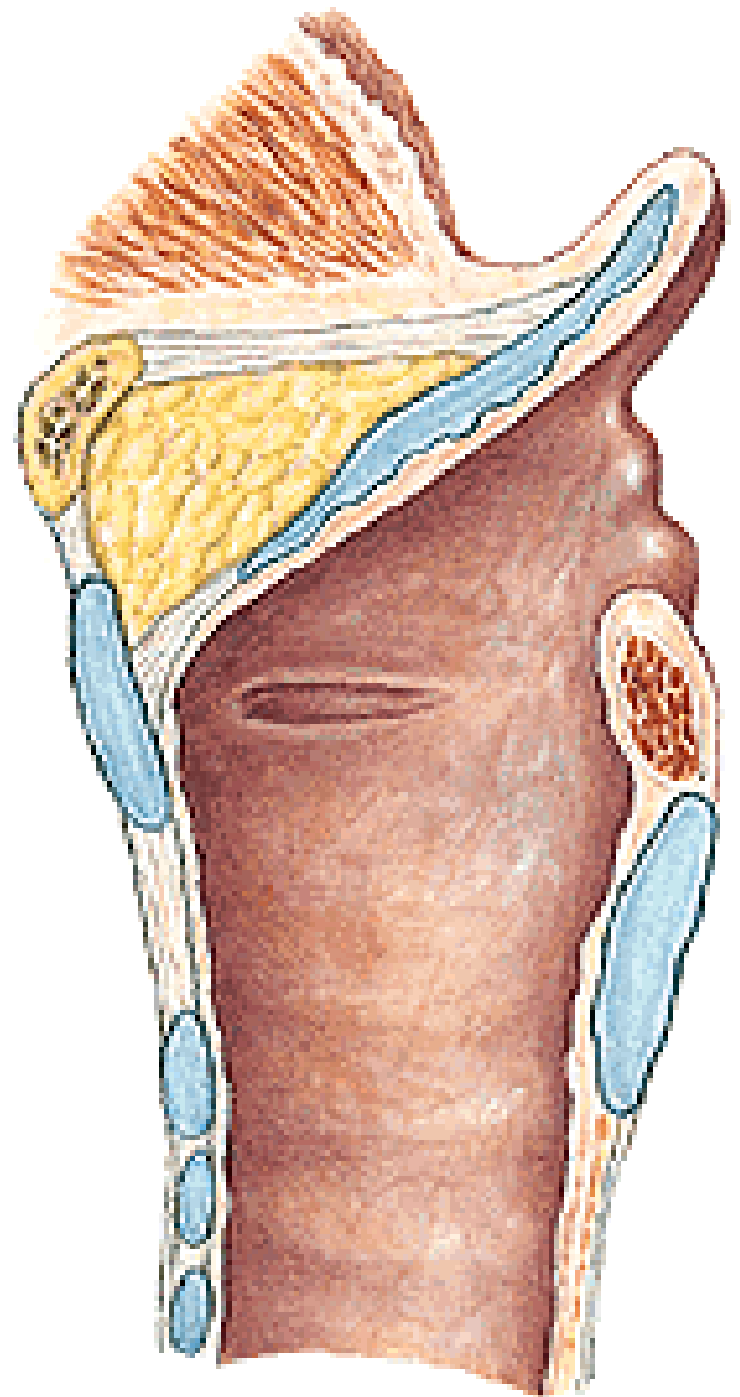
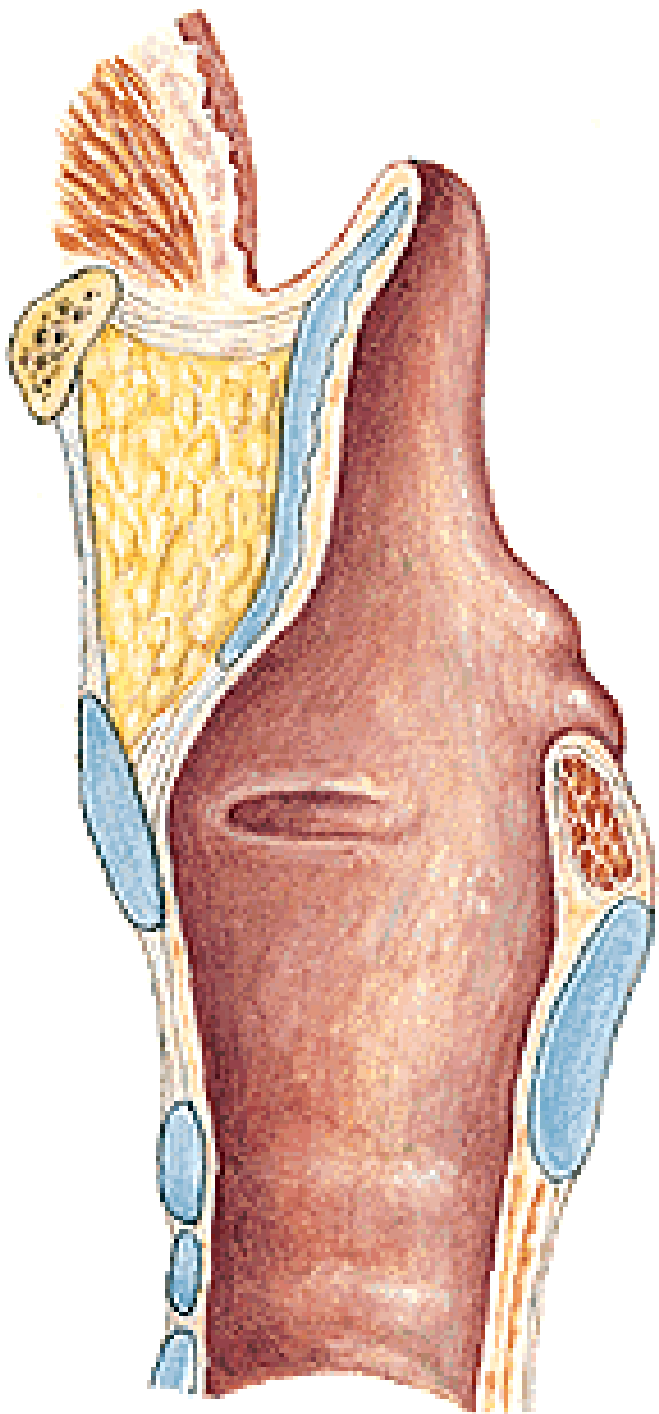


# MUSCULI LARYNGIS

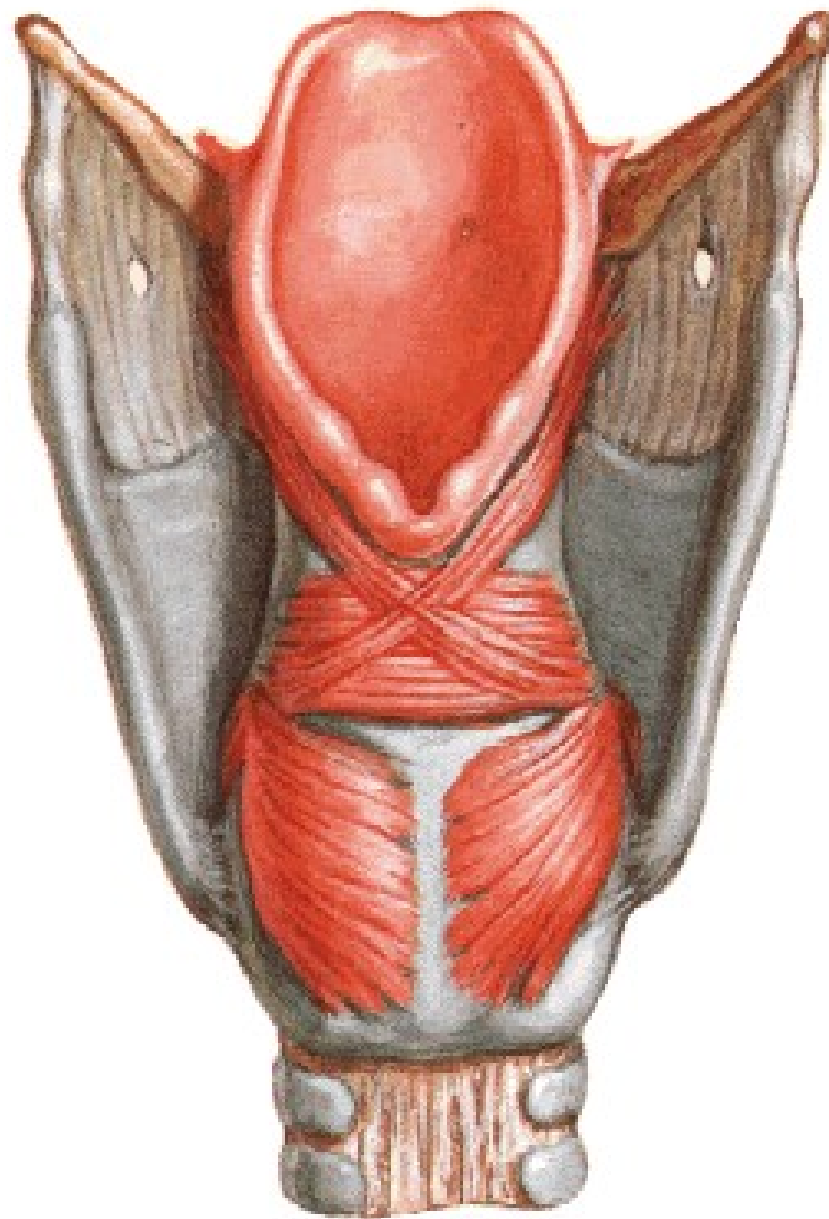
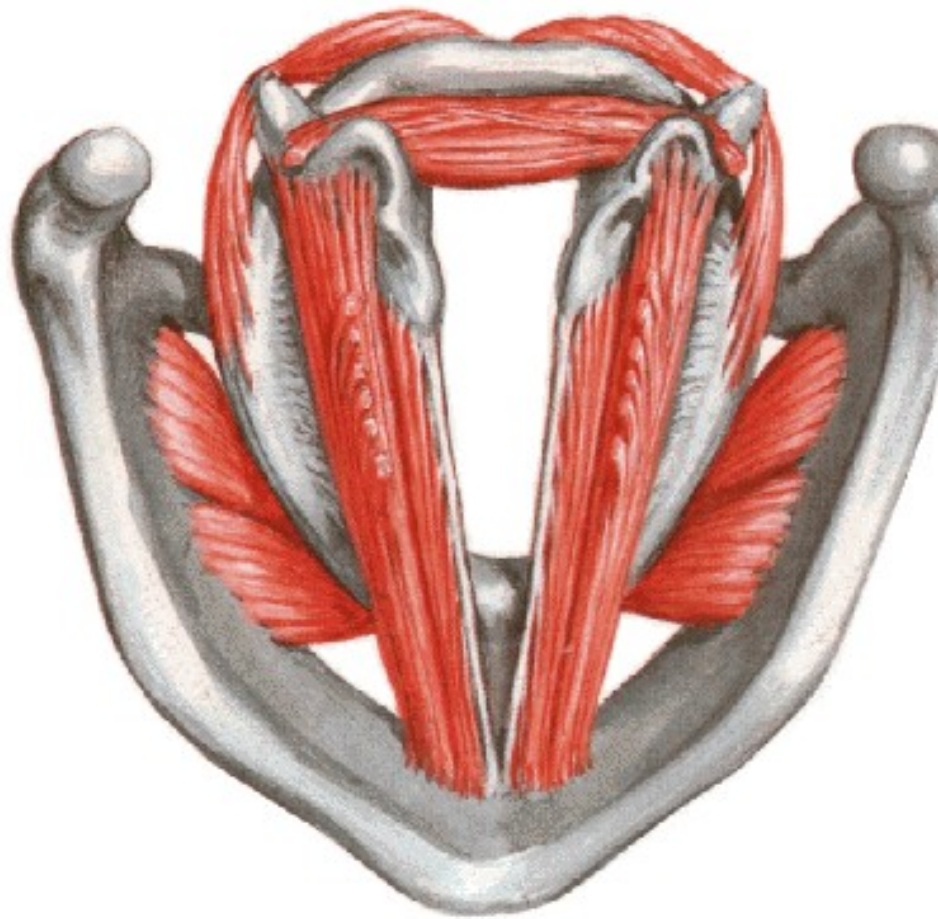
**M. thyroarytenoideus  
(thyroepiglotticus)**  
**M. vocalis**

**Rima glottidis – pars intermembranacea  
– pars intercartilaginea**





**M. cricoarytenoideus post.**  
**- respiration**

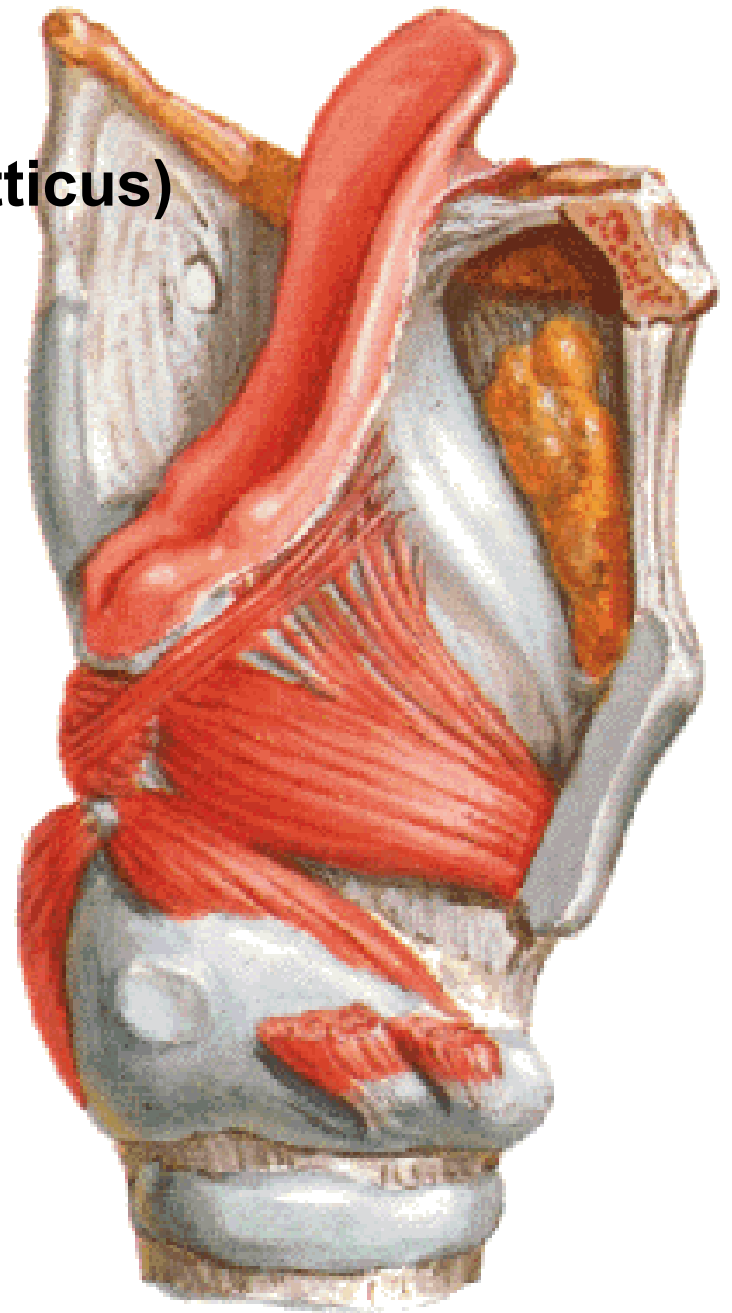
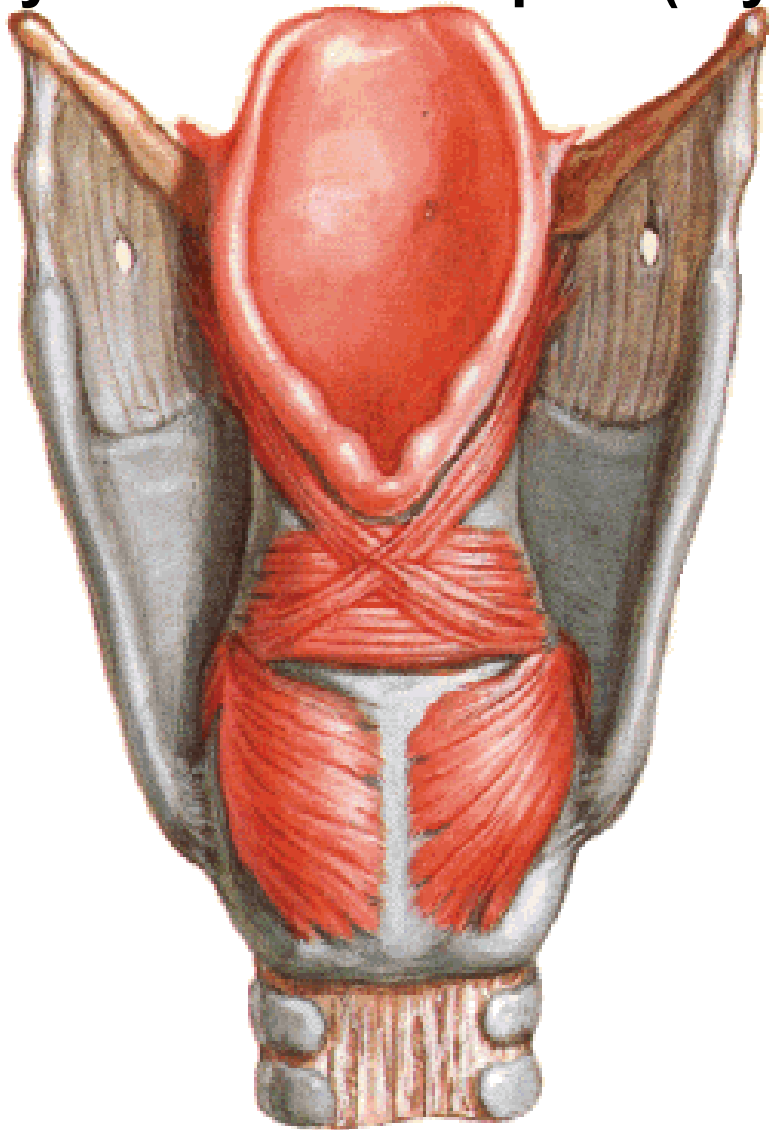




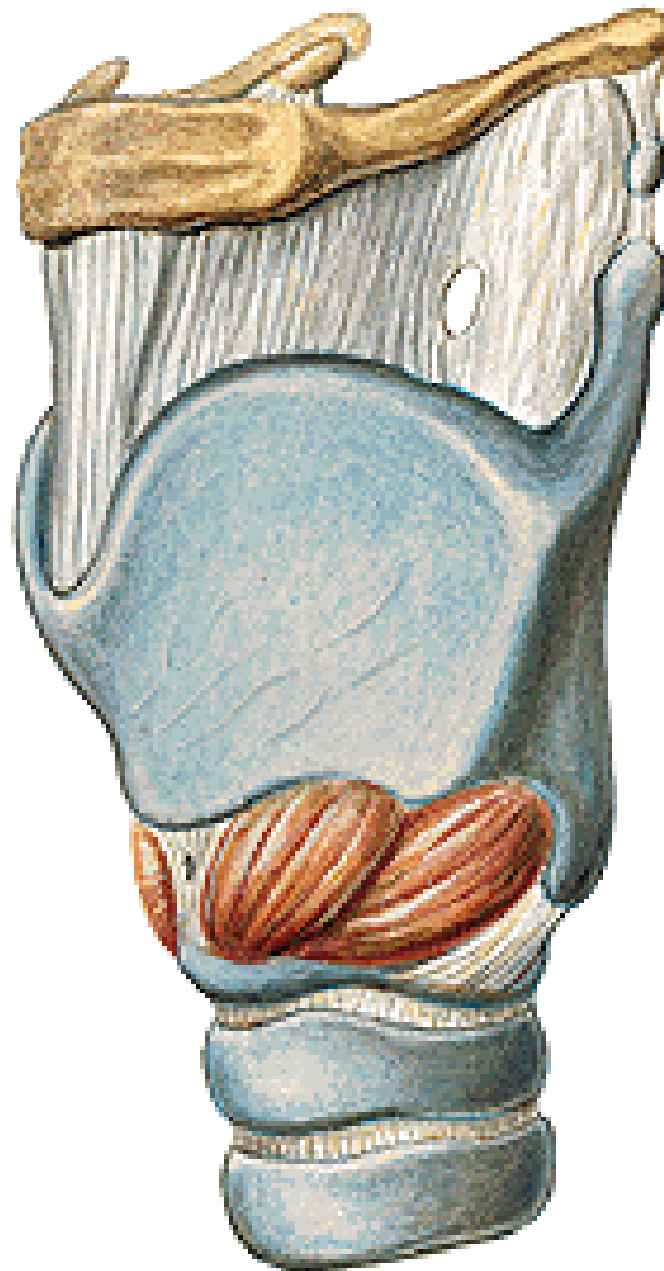
**M. cricoarytenoideus lateralis**

**M. arytenoideus transversus**

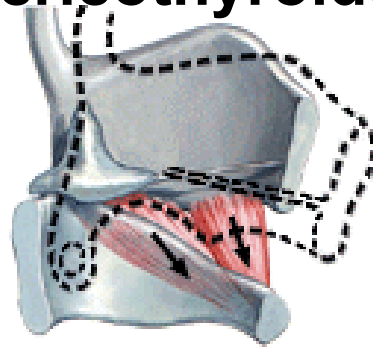
**M. arytenoideus obliquus (aryepiglotticus)**



# M. cricothyroideus



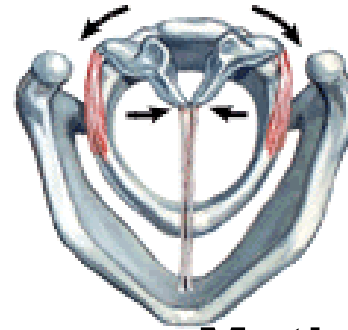
**M. cricothyroideus**



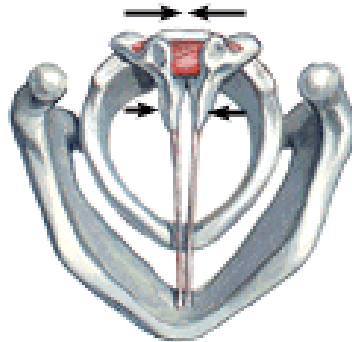
**M. cricoarytenoideus post.**



**M. cricoarytenoideus lateralis**



**M. arytenoideus trans. et obliq.**

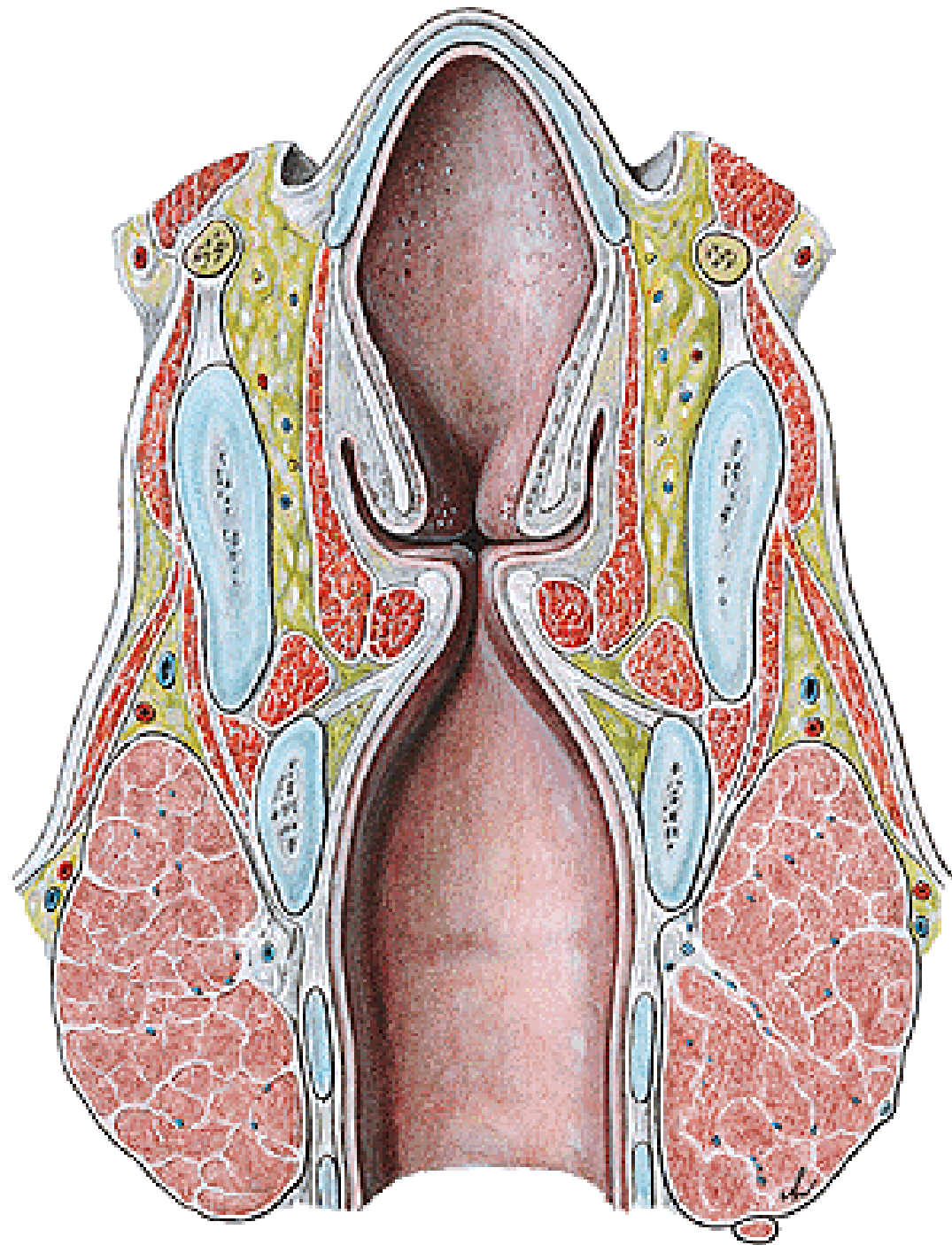


**M. thyroarytenoideus**



# CAVITAS LARYNGIS

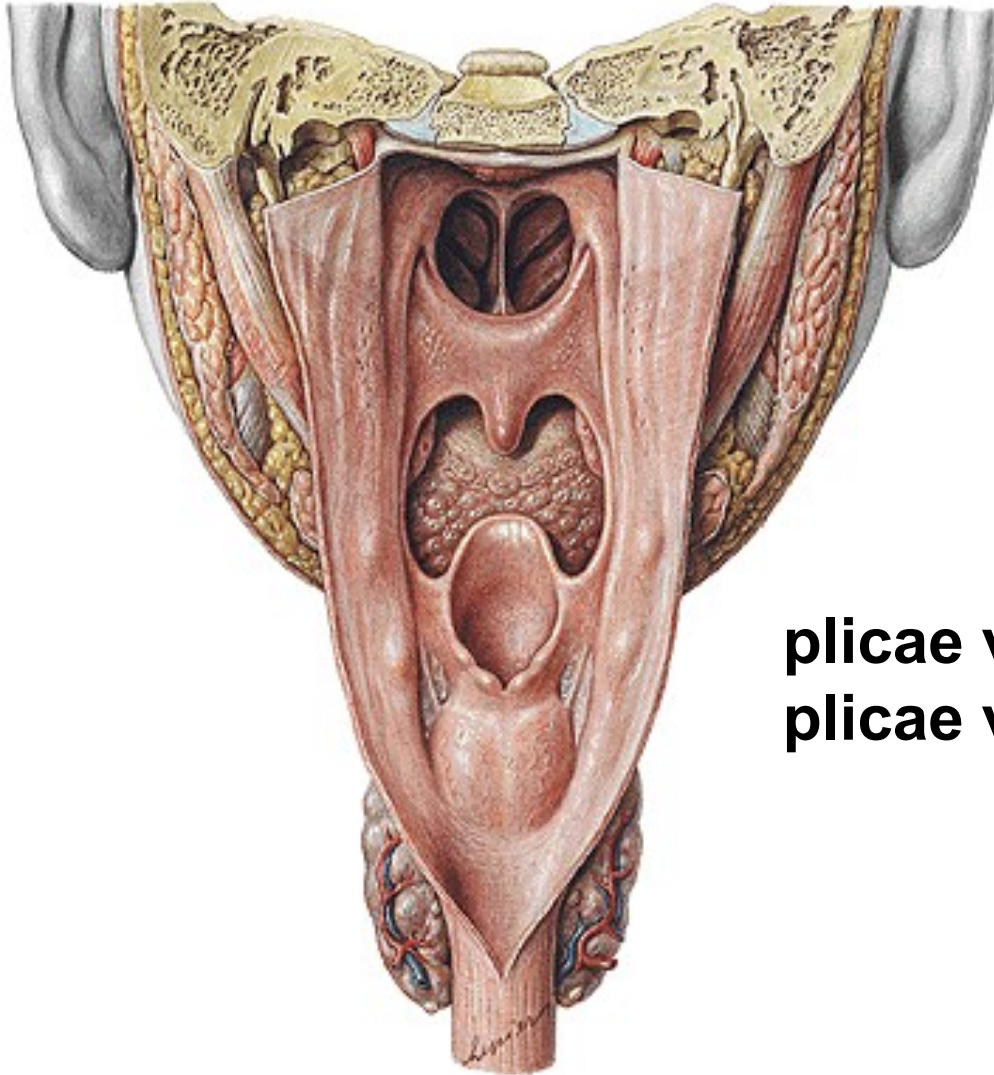
- vestibulum laryngis
- plicae vestibulares
- rima vestibuli
- plicae vocales
- rima glottidis
- glottis
- ventriculus laryngis
- cavitas infraglottica



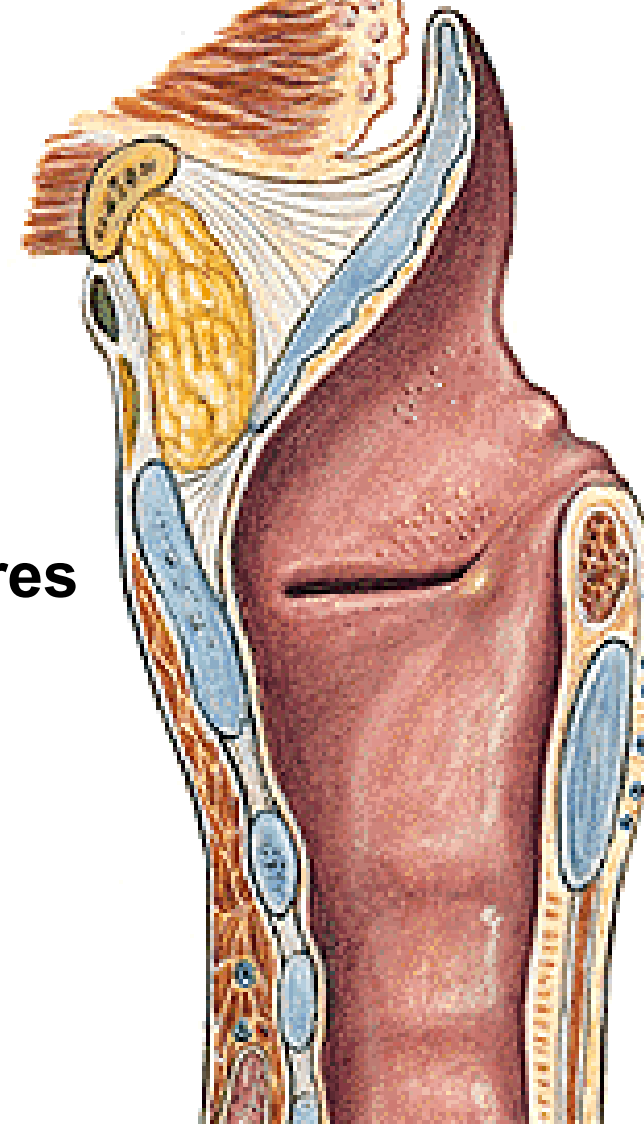
# ADITUS LARYNGIS

-epiglottis, plicae aryepiglotticae (tuberculum cuneiforme et corniculatum), plica interarytenoidea, incisura inter-

arytenoidea

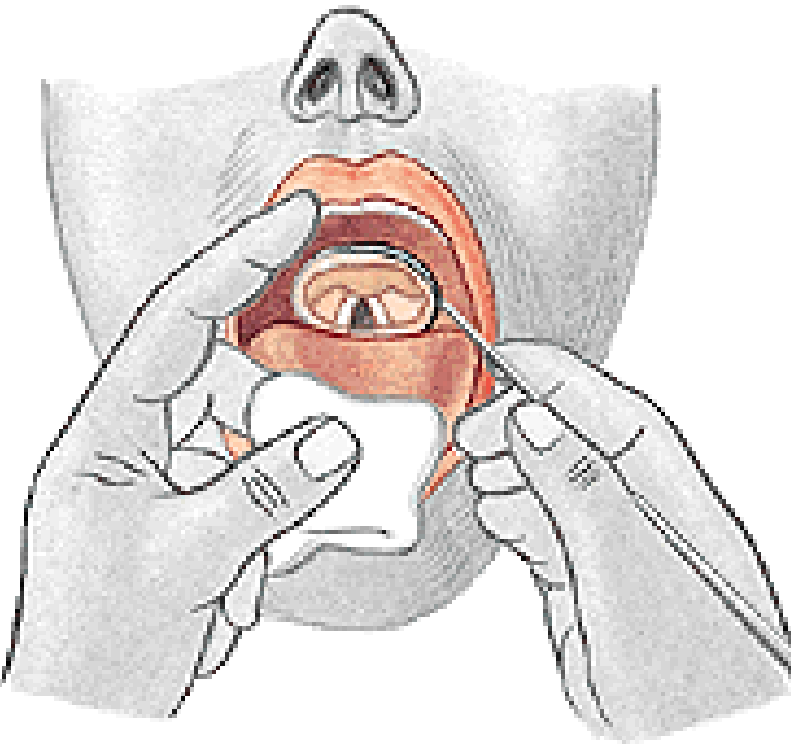


plicae vestibulares  
plicae vocales

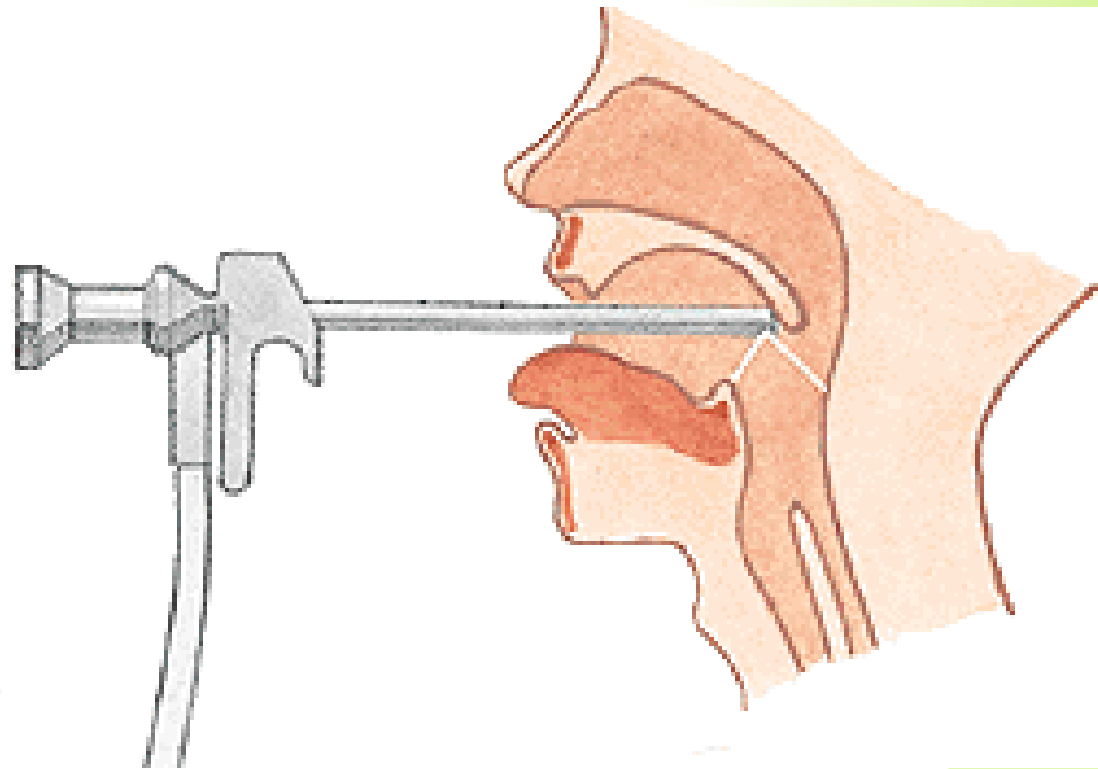


# LARYNGOSCOPY

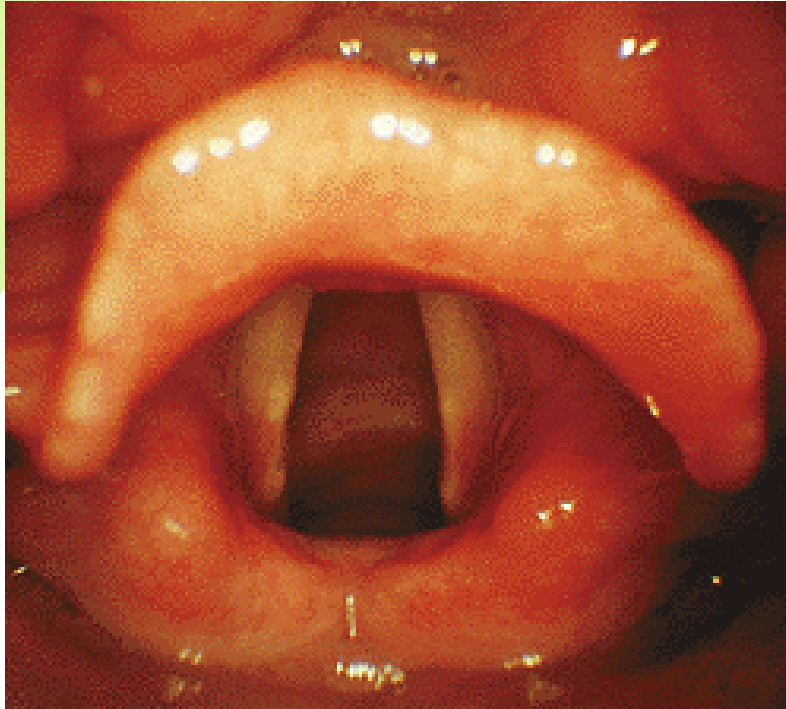
**indirect**



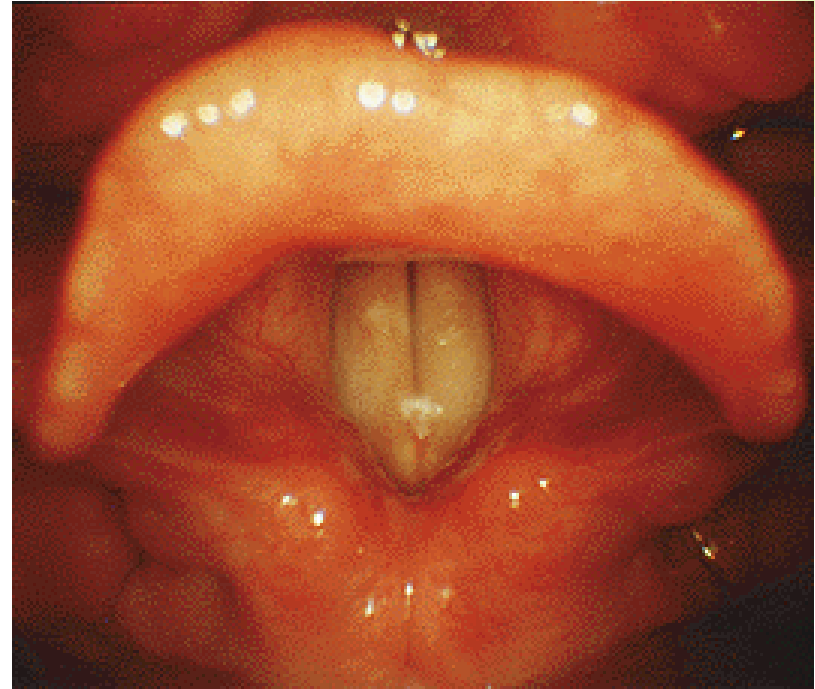
**direct**

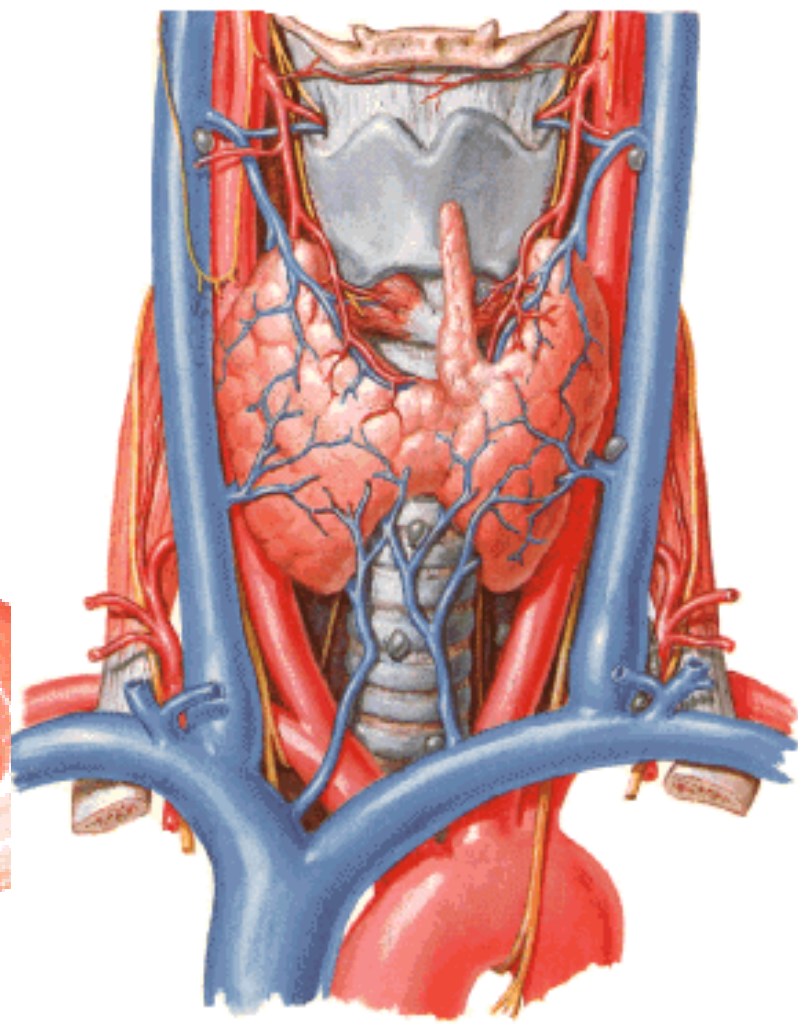
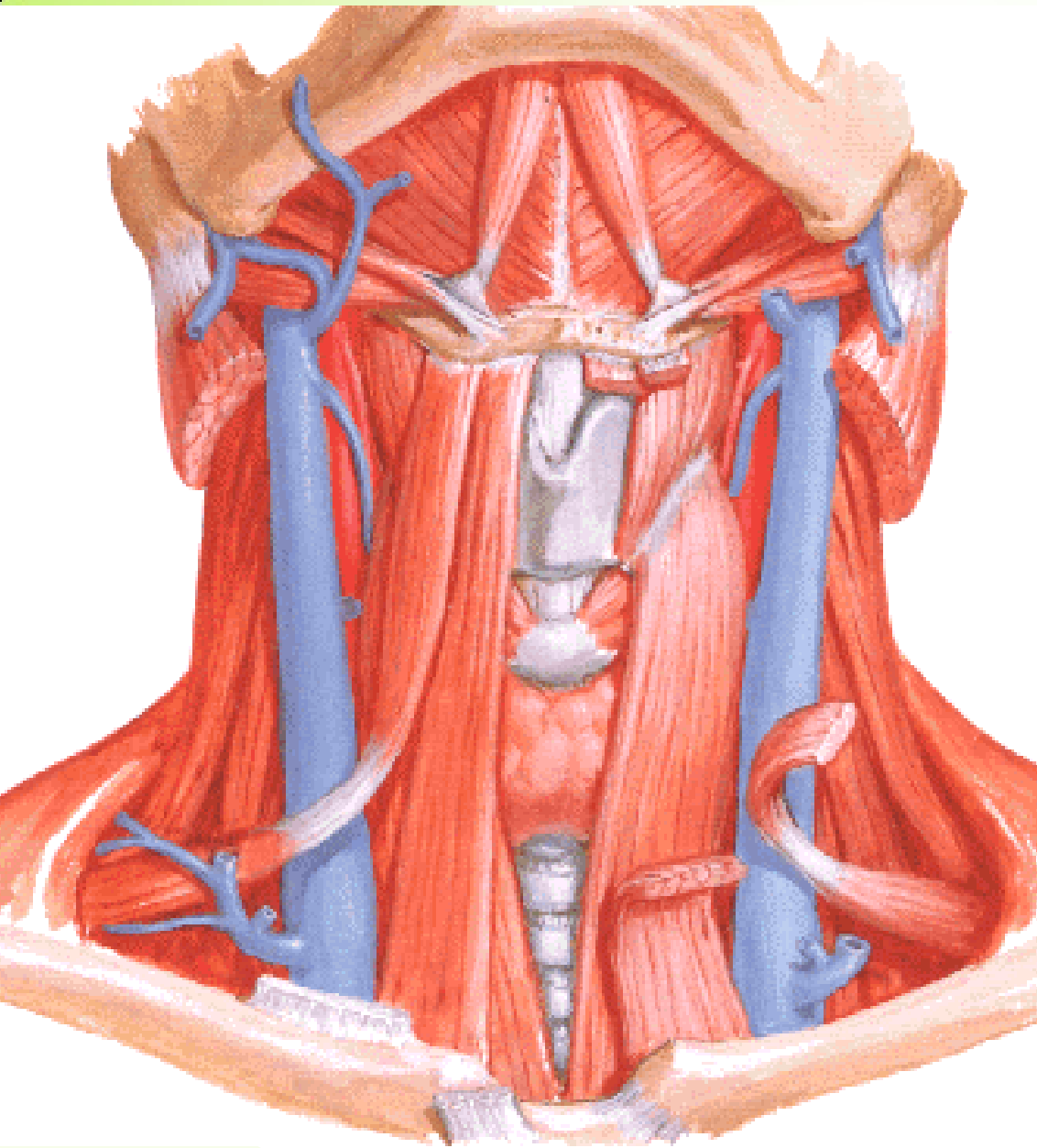


## RESPIRATION



## PHONATION

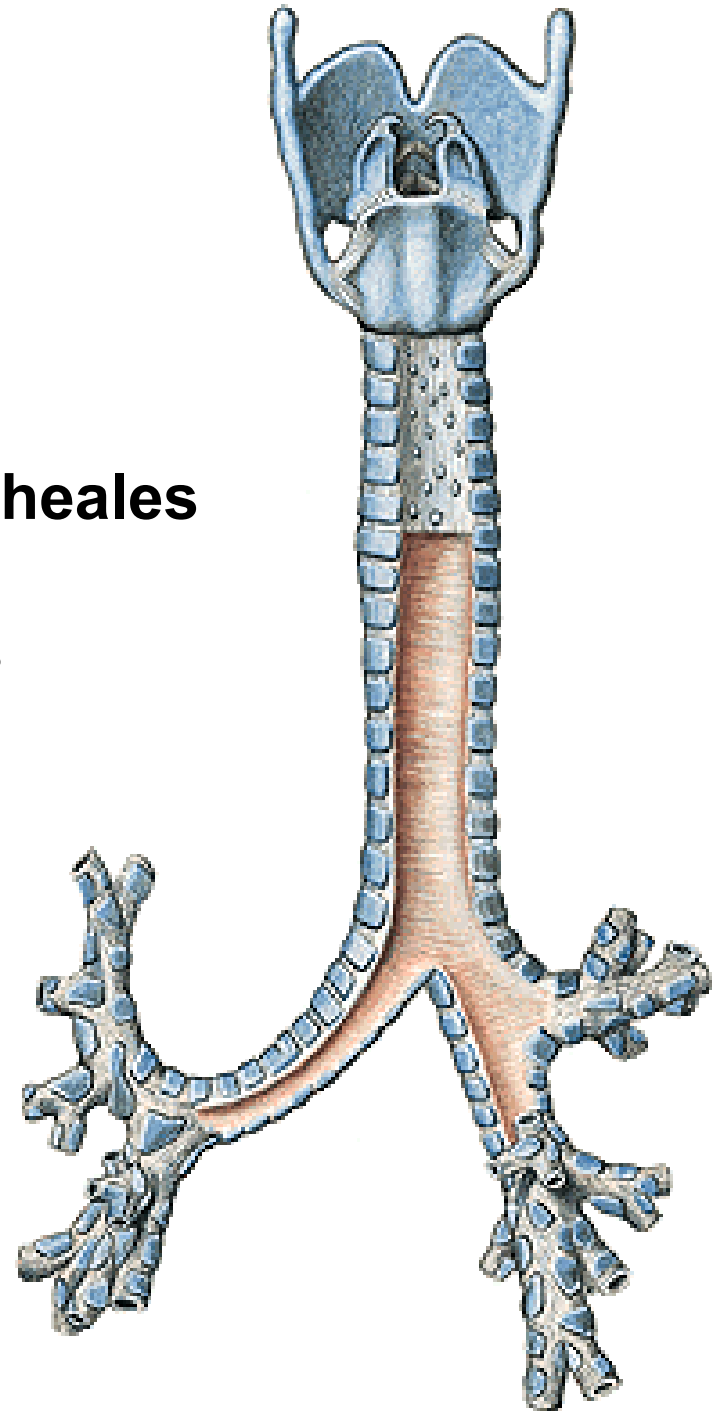
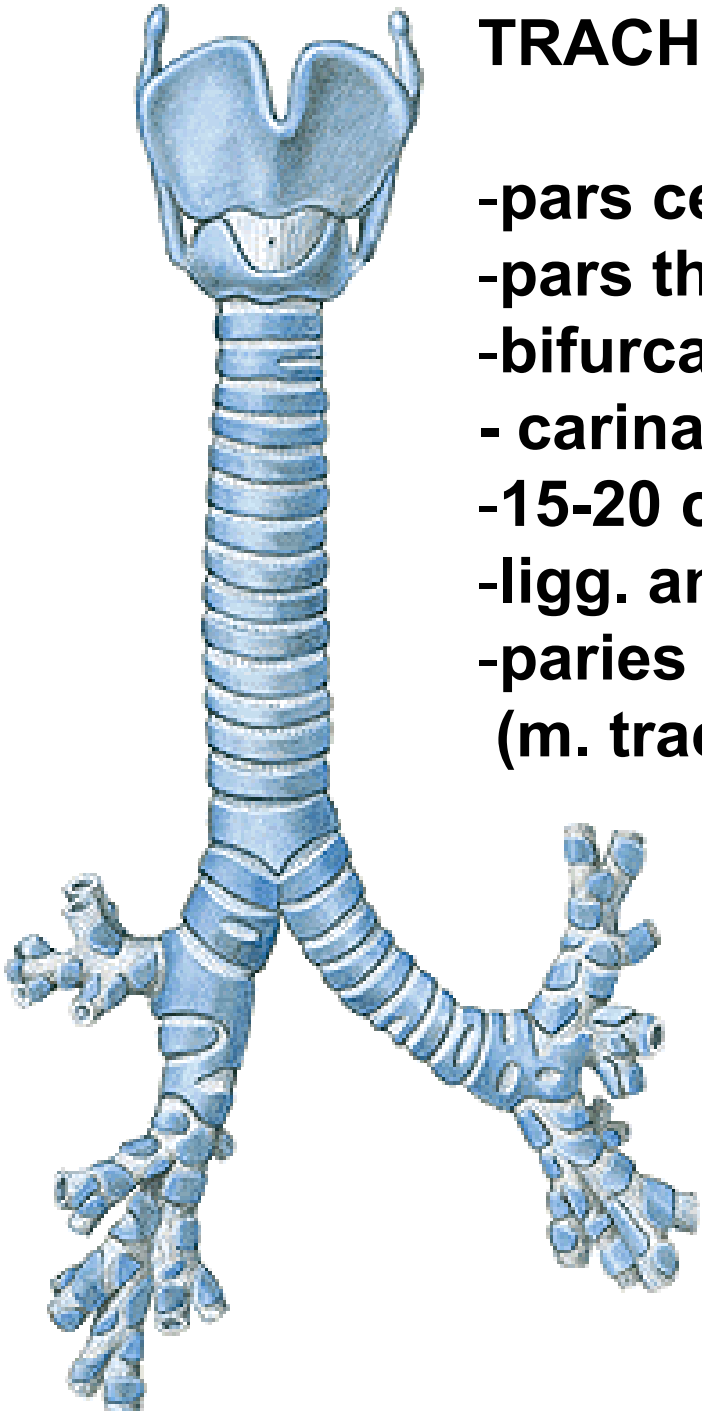




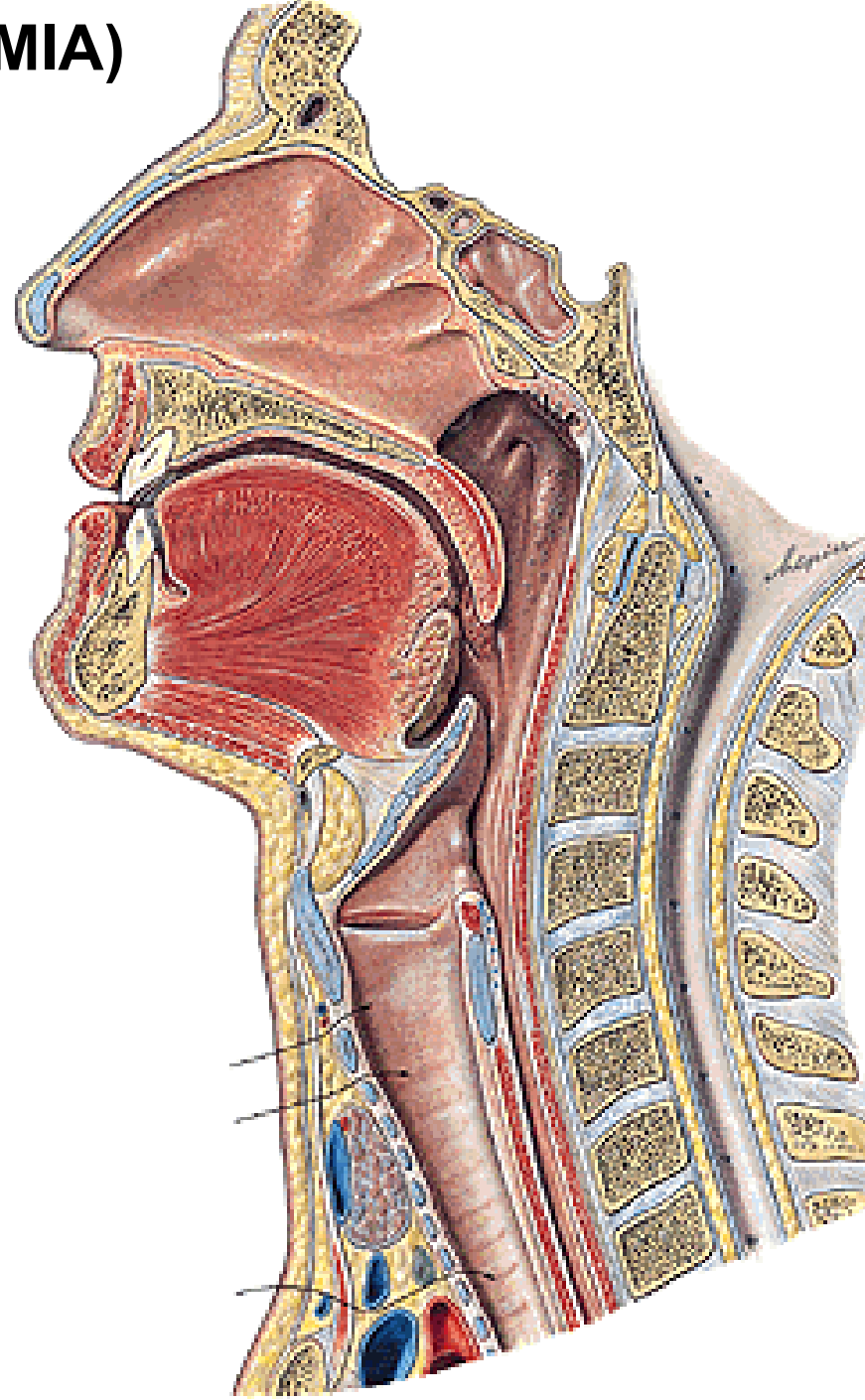
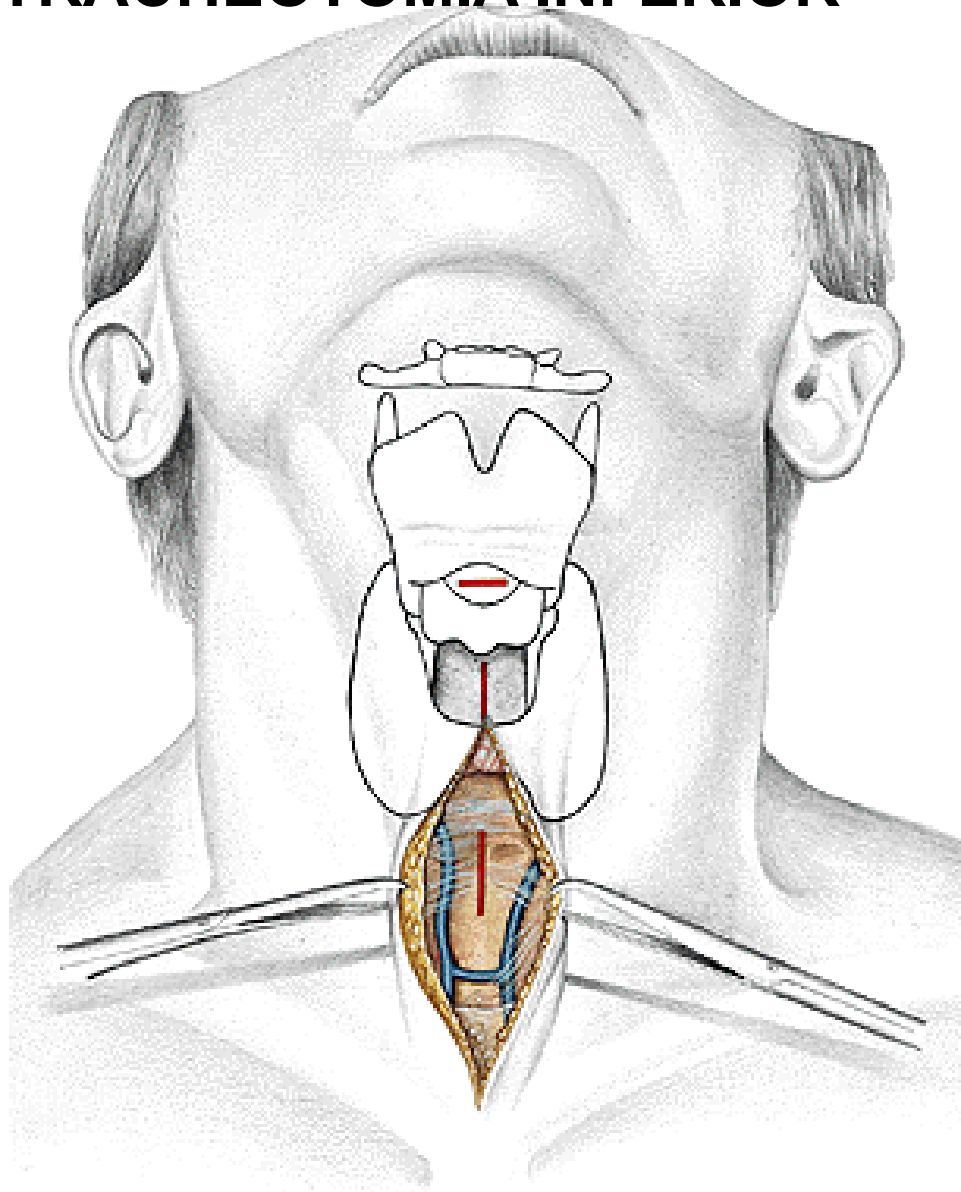


# TRACHEA

- pars cervicalis
- pars thoracica
- bifurcatio tracheae
- carina tracheae
- 15-20 cartilagineae tracheales
- ligg. anularia
- paries membranaceus  
(m. trachealis)



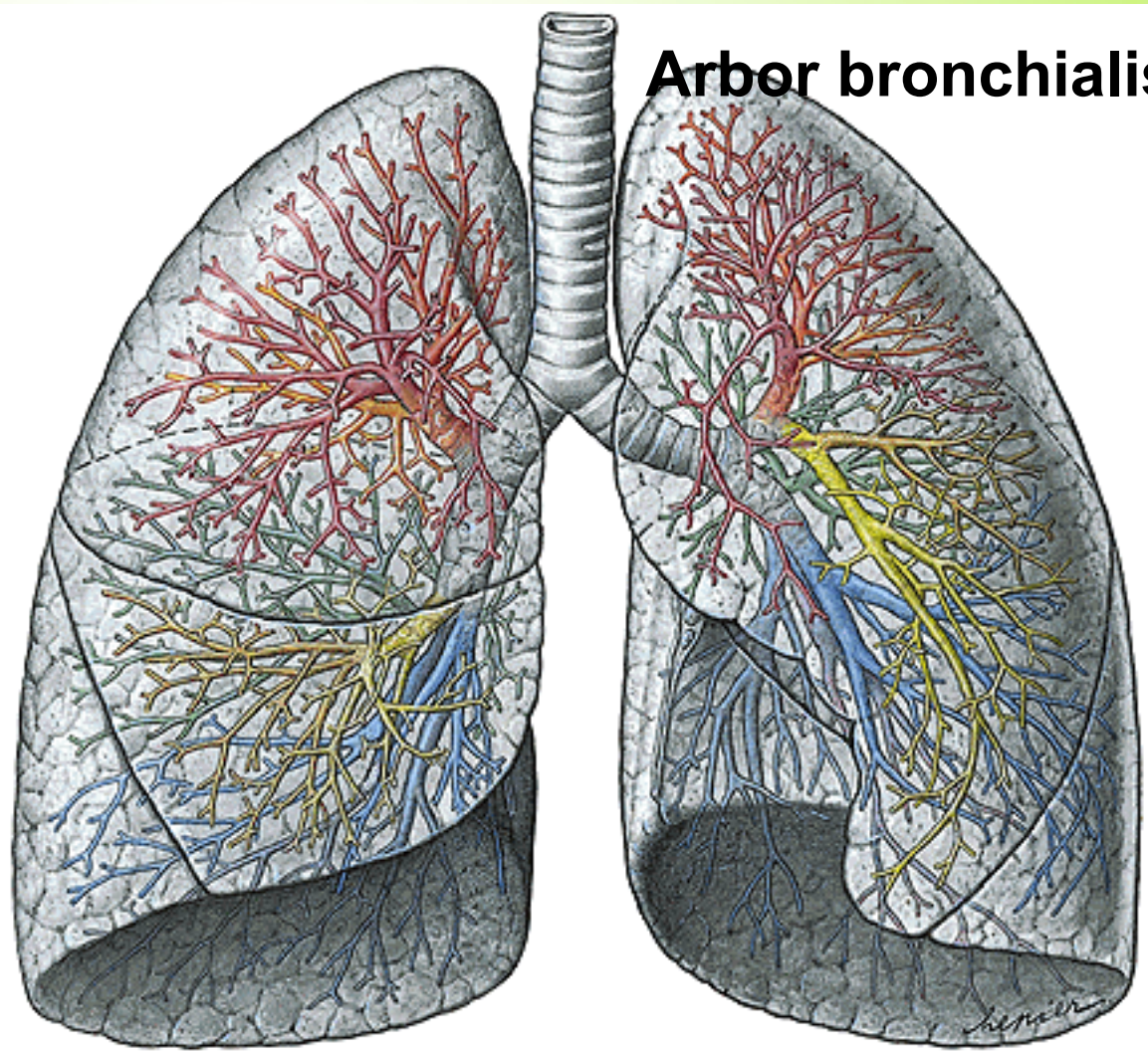
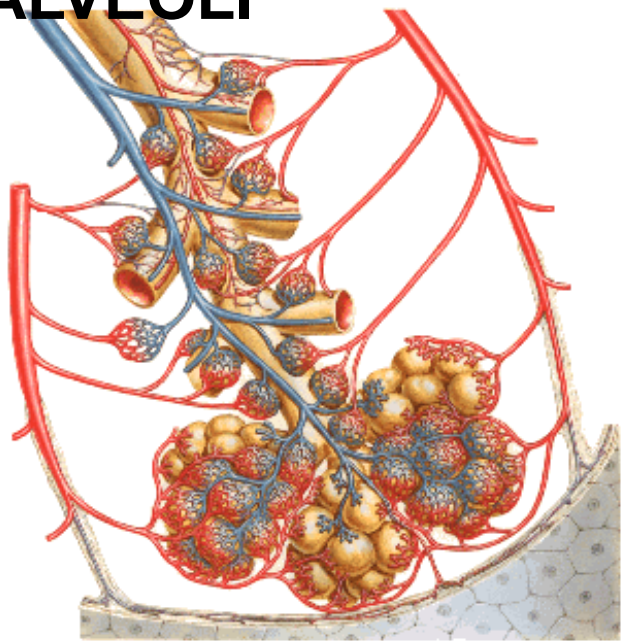
**CONIOTOMIA (CRICOTHYROTOMIA)  
TRACHEOTOMIA SUPERIOR  
TRACHEOTOMIA INFERIOR**



# BRONCHI

- principales
- lobares
- segmentales

# BRONCHIOLI ALVEOLI



Arbor bronchialis



**PULMO DEXTER**  
Lobus superior,  
medius et inferior  
Fissura obliqua  
et horizontalis



Apex pulmonis  
Basis pulmonis  
(facies diaphragmatica)  
Facies costalis  
Facies mediastinalis  
Margo anterior  
inferior  
posterior

**PULMO SINISTER**  
Lobus superior et  
inferior  
Fissura obliqua  
Incisura cardiaca  
Lingula



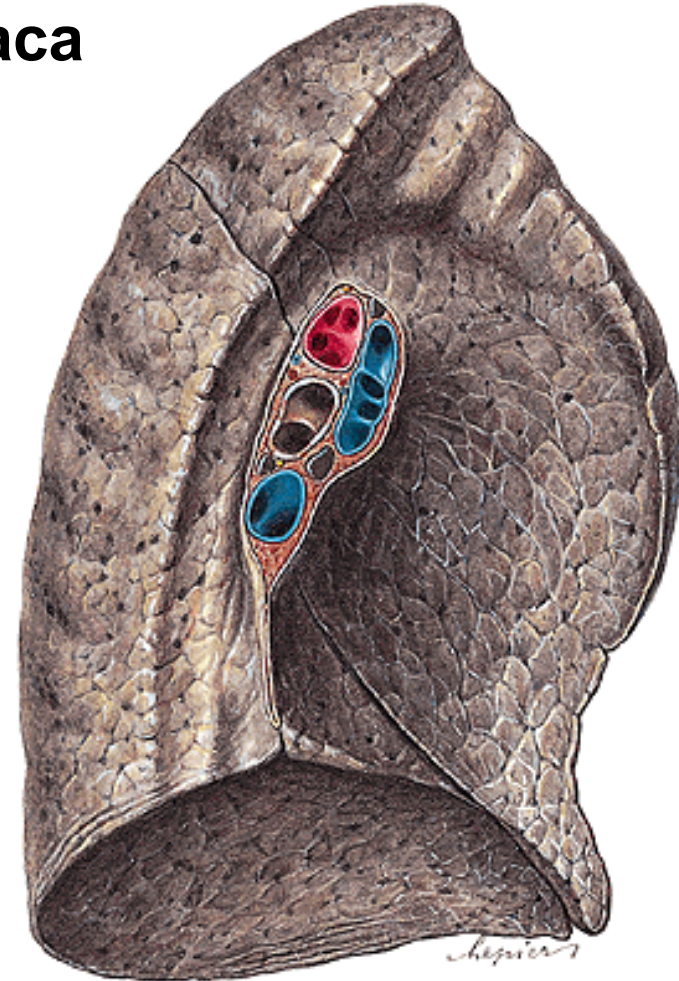
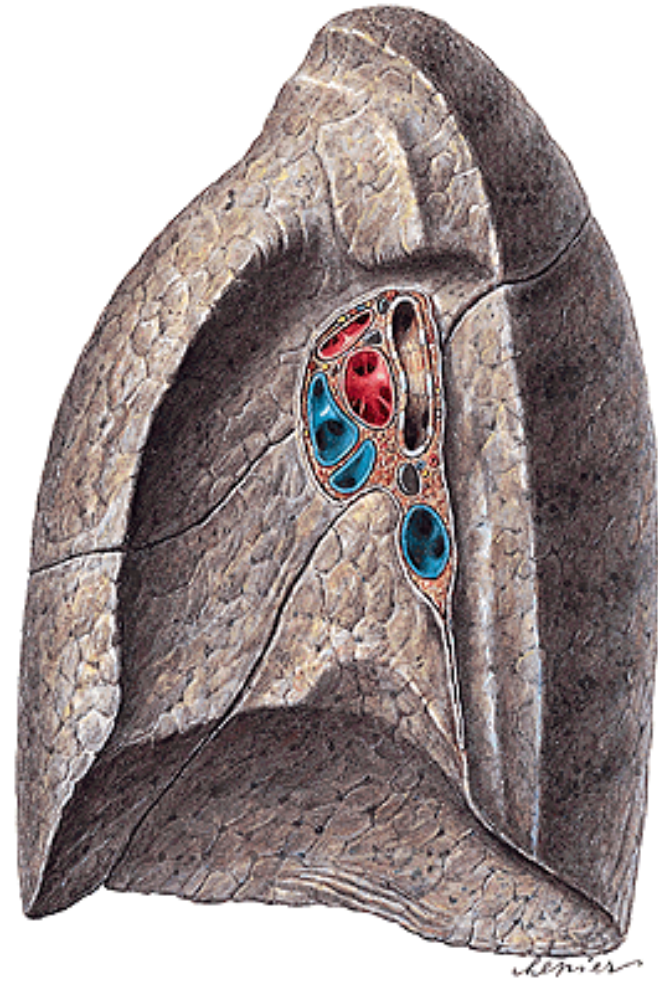
# FACIES MEDIASTINALIS

hillum pulmonis

radix pulmonis

lig. pulmonale

impressio cardiaca





# SEGMENTA BRONCHOPULMONALIA DEXTRA

1. s. apicale

4. s. laterale

6. s. apicale

2. s. posterius

5. s. mediale

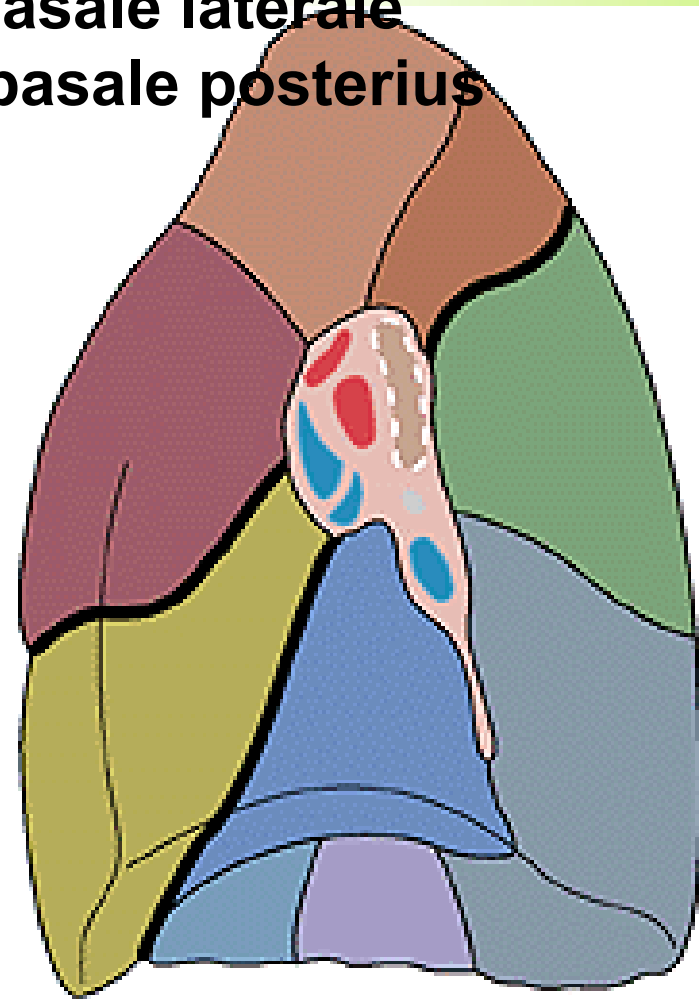
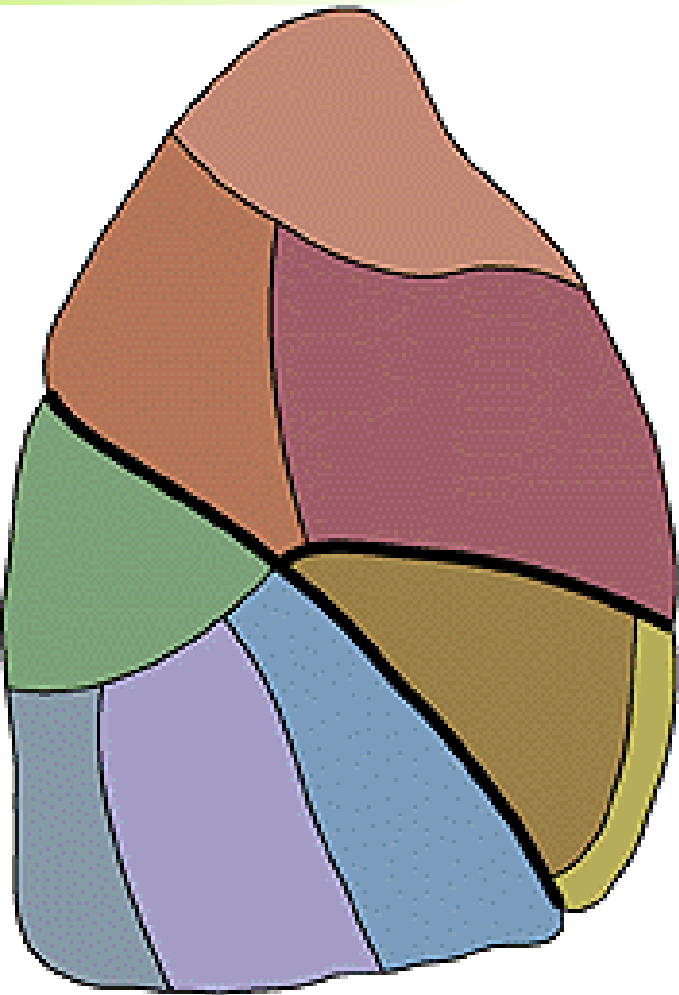
7. s. basale mediale

3. s. anteriorus

8. s. basale anteriorus

9. s. basale laterale

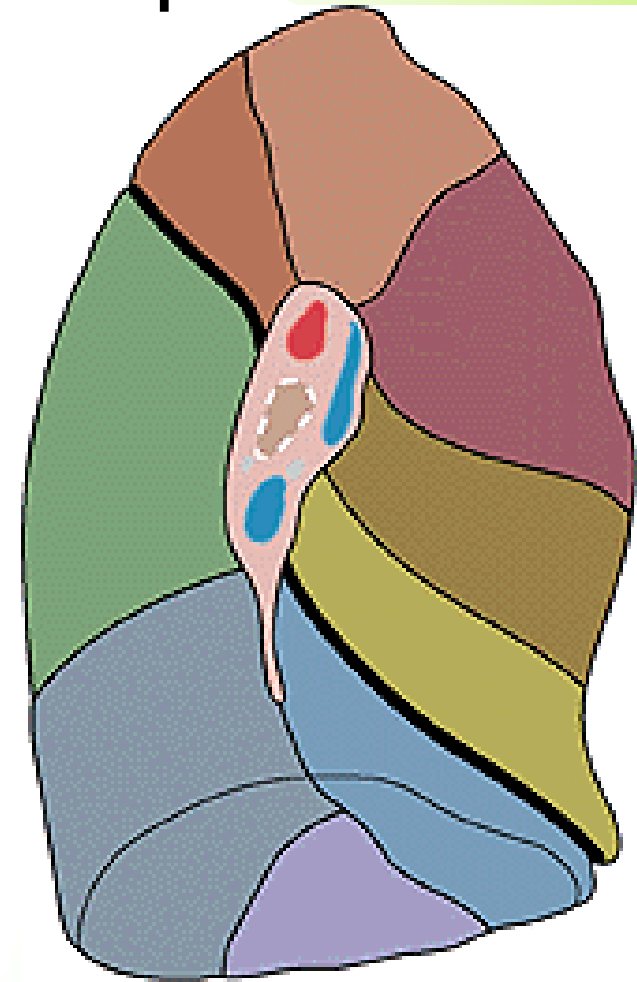
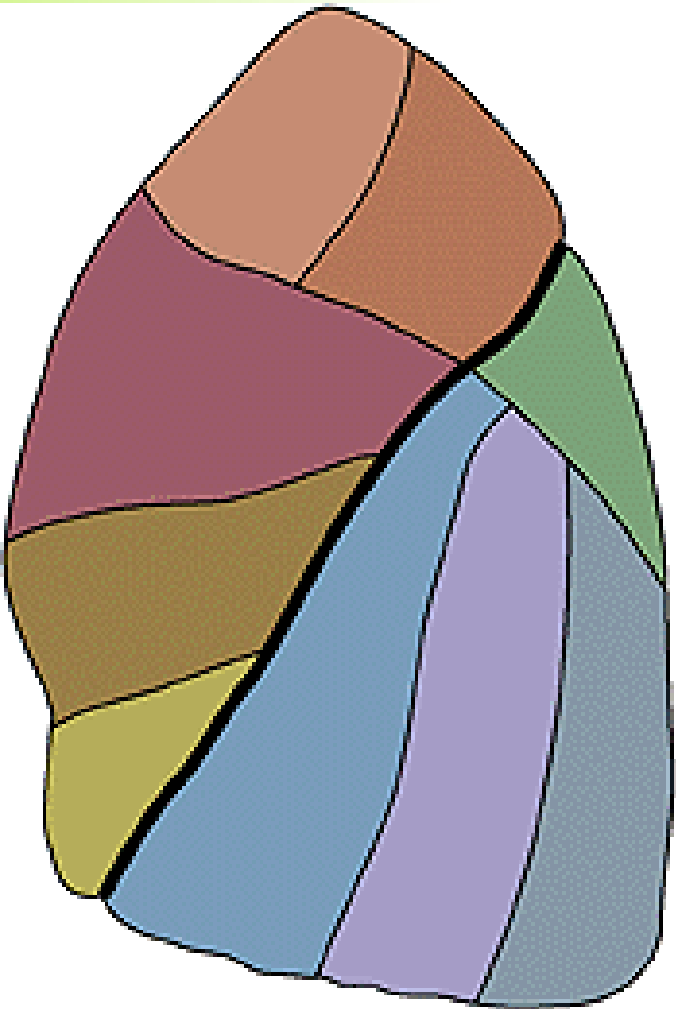
10. s. basale posterius



# SEGMENTA BRONCHOPULMONALIA SINISTRA

- 1+2. s. apicoposterius
- 3. s. anterior
- 4. s. lingulare superius
- 5. s. lingulare inferius

- 6. s. apicale
- (7. s. basale mediale)
- 8. s. basale anterior
- 9. s. basale laterale
- 10. s. basale posterius



# PLEURA - visceralis

- parietalis - costalis

- diaphragmatica

- mediastinalis

Cavitas pleuralis

Cupula pleurae

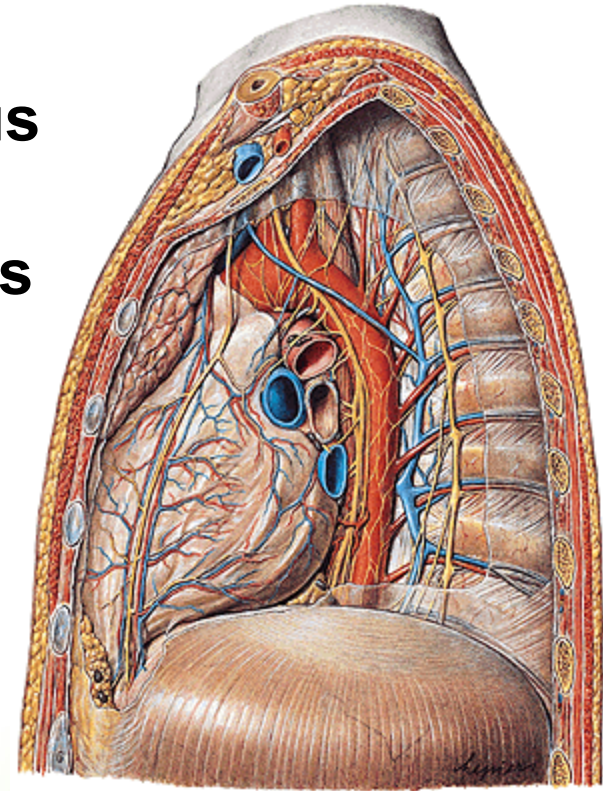
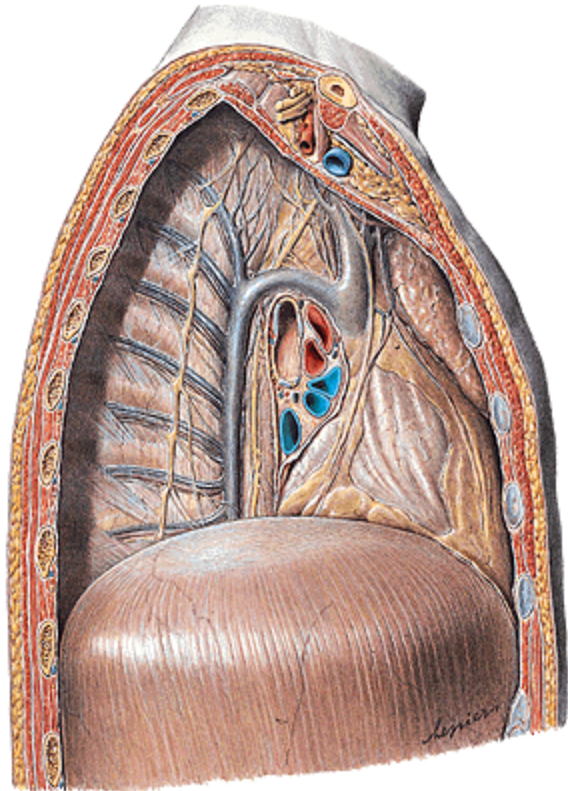
Recessus pleurae:

r. costodiaphragmaticus

r. costomediastinalis

r. phrenicomediastinalis

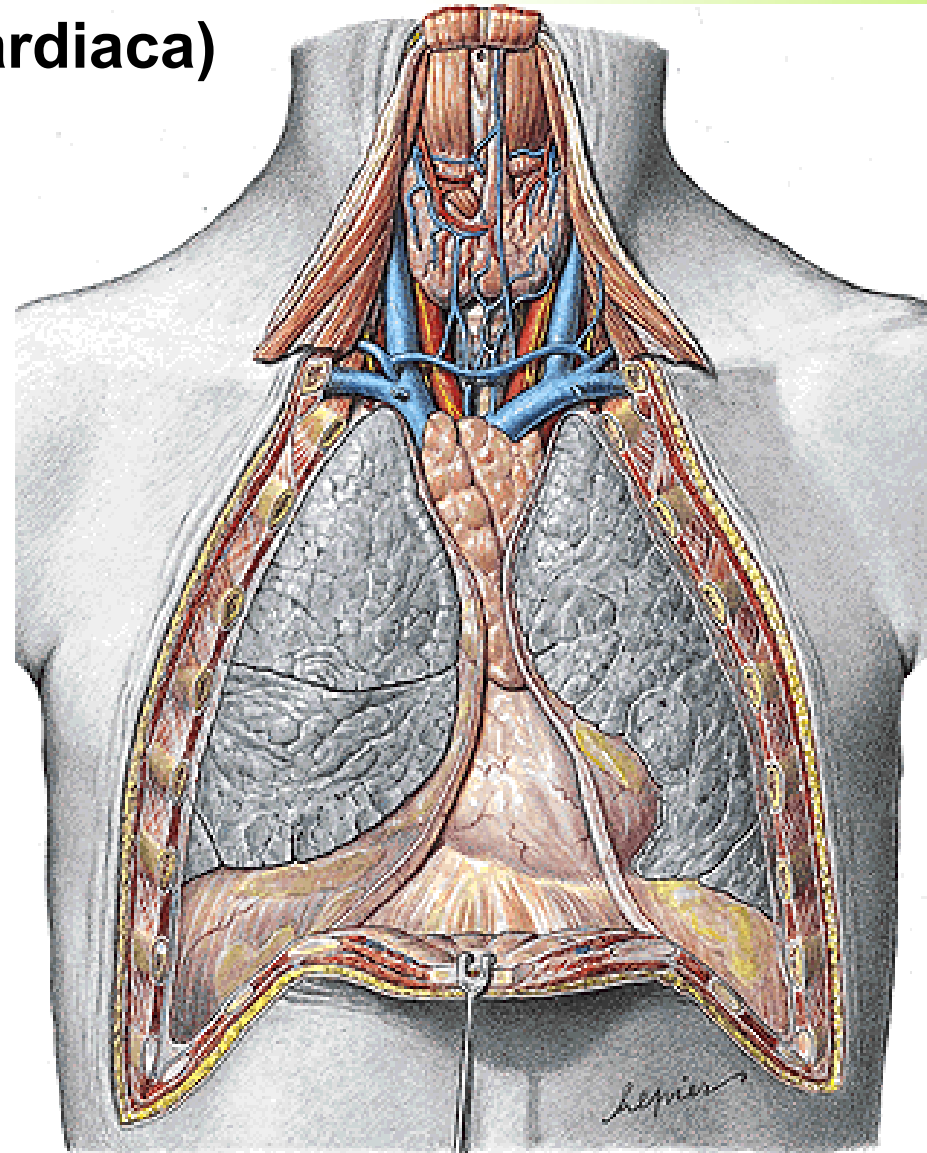
Pneumothorax



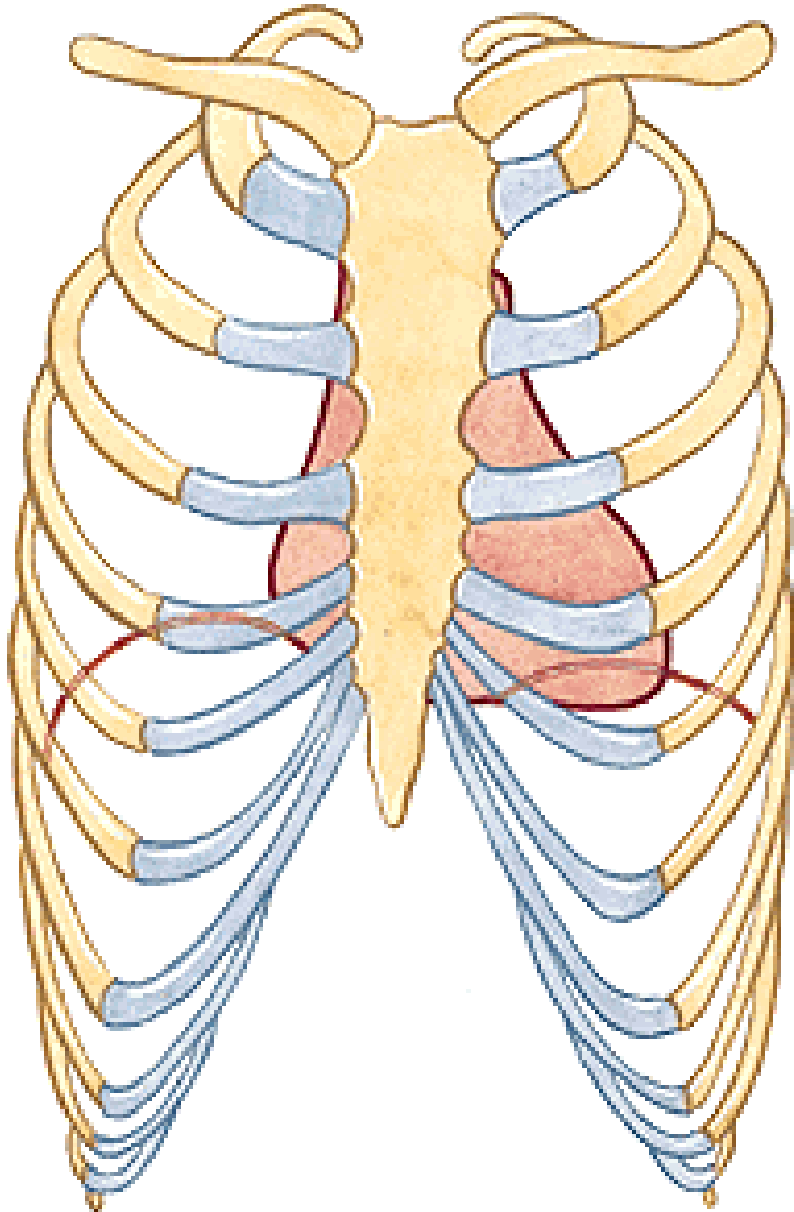


**Area interpleuralis sup. (thymica)**

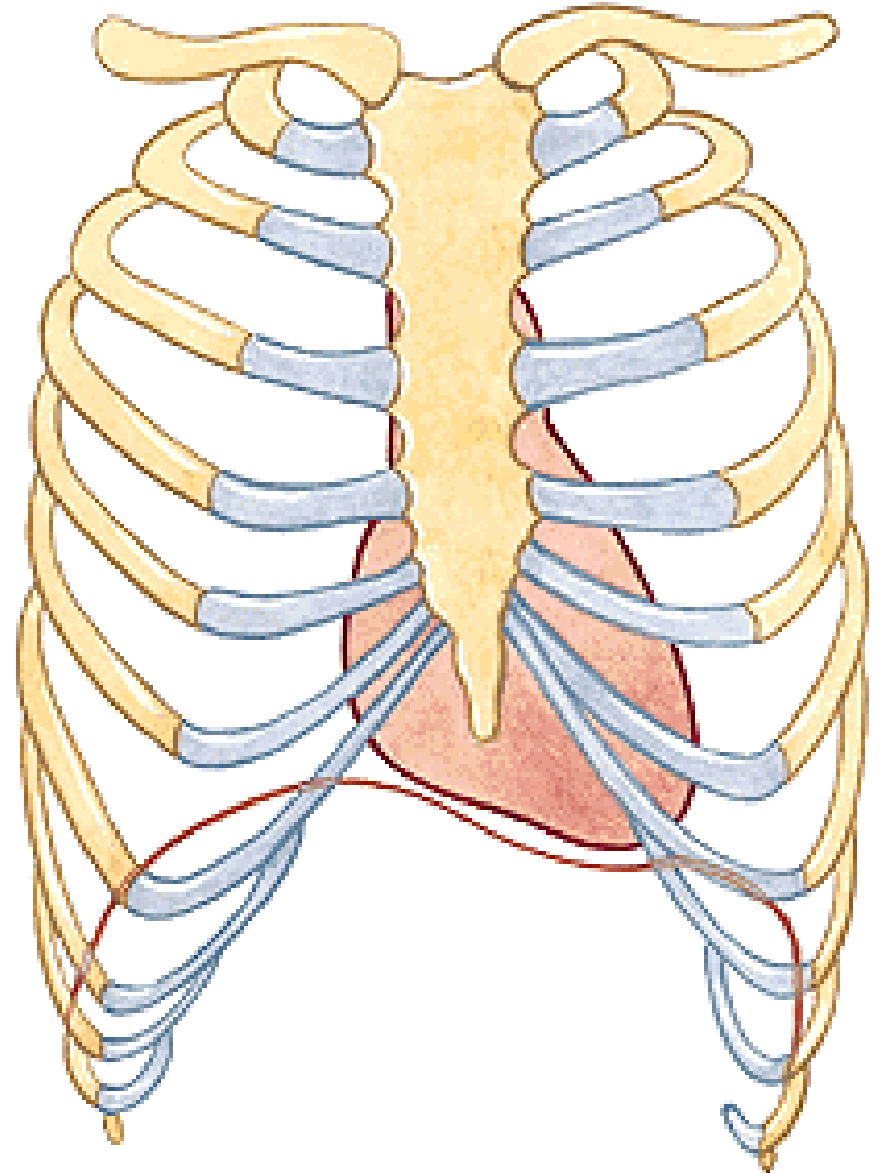
**Area interpleuralis inf. (pericardiaca)**

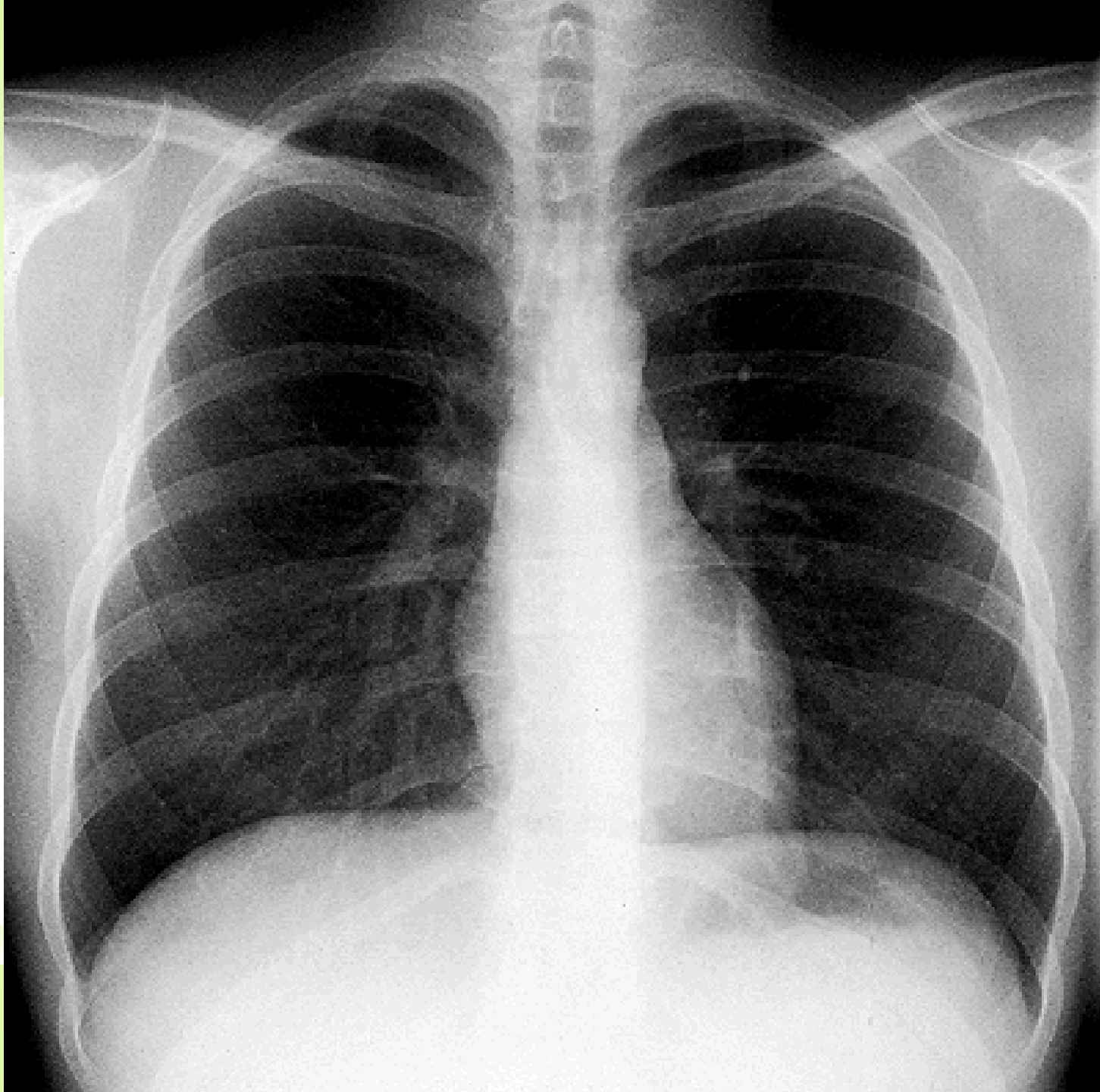


# EXPIRATION



# INSPIRATION





**Illustrations and photographs were copied from:  
Atlas der Anatomie des Menschen/Sobotta.  
Putz,R., und Pabst,R. 20. Auflage. München:  
Urban & Schwarzenberg, 1993  
Netter: Interactive Atlas of Human Anatomy.  
Windows Version 2.0**