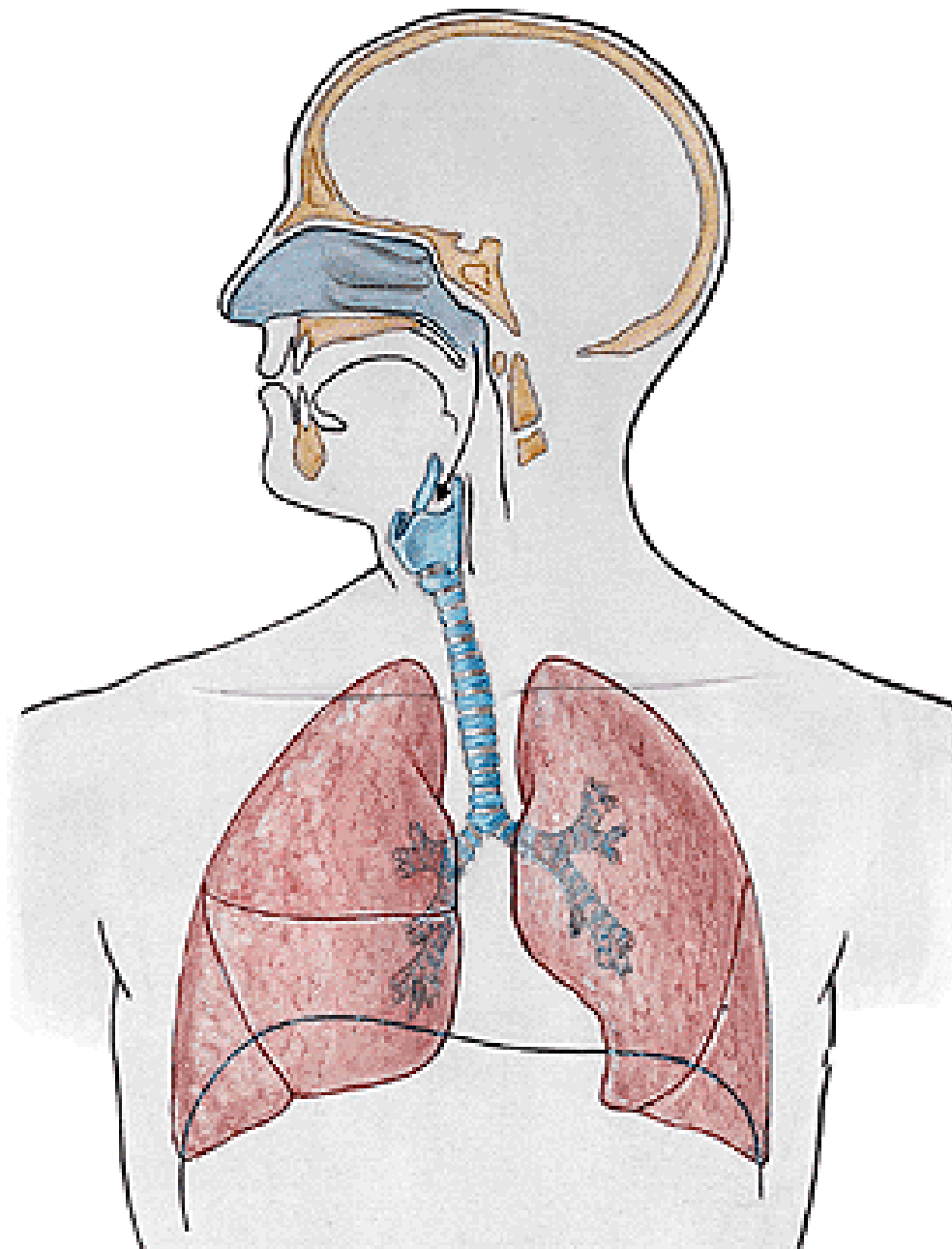


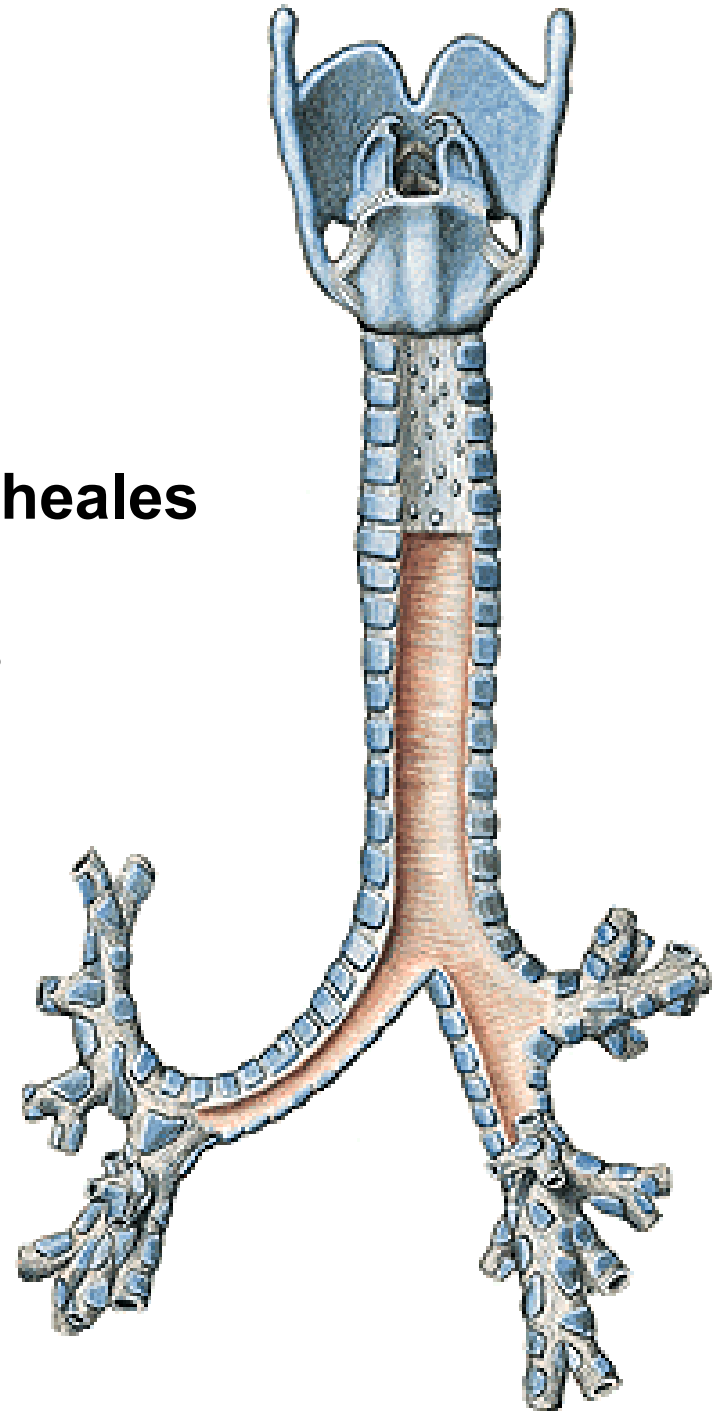
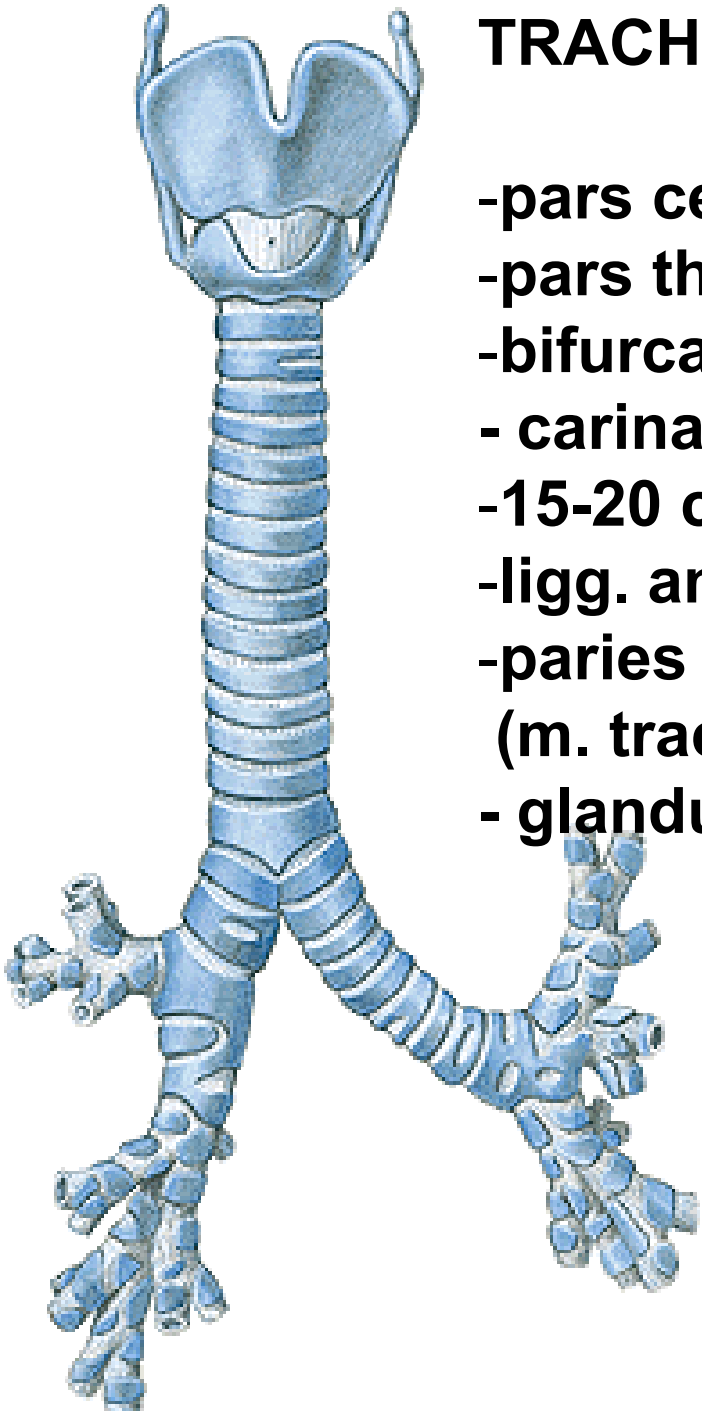
RESPIRATORY SYSTEM II.

LOWER RESPIRATORY TRACT, LUNGS

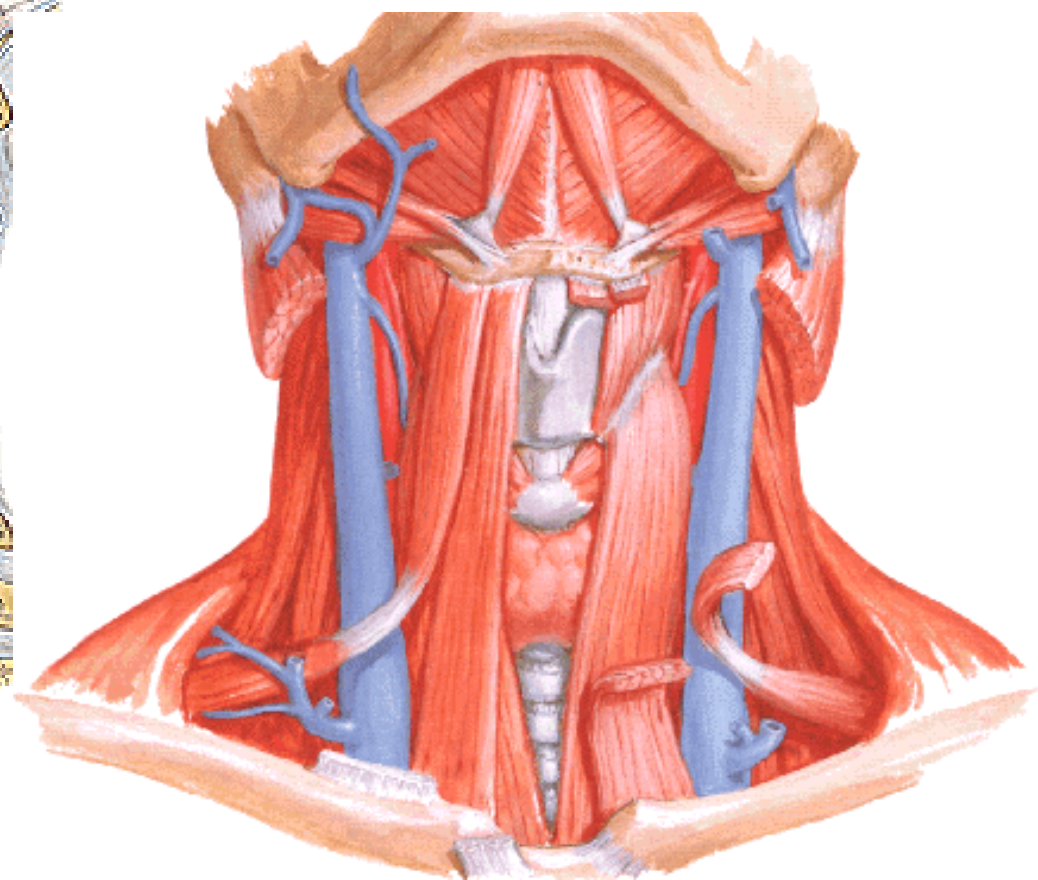
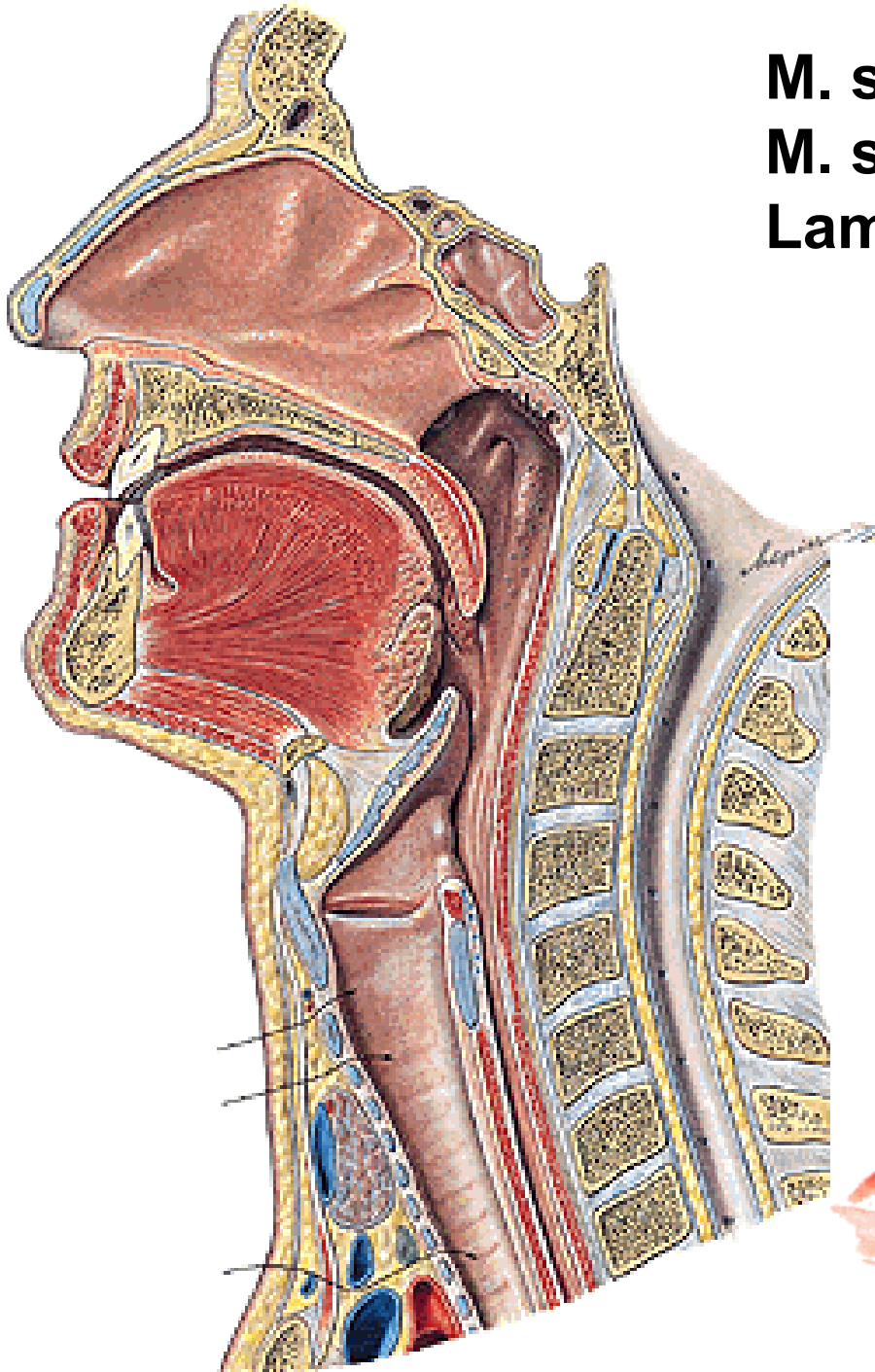


TRACHEA

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

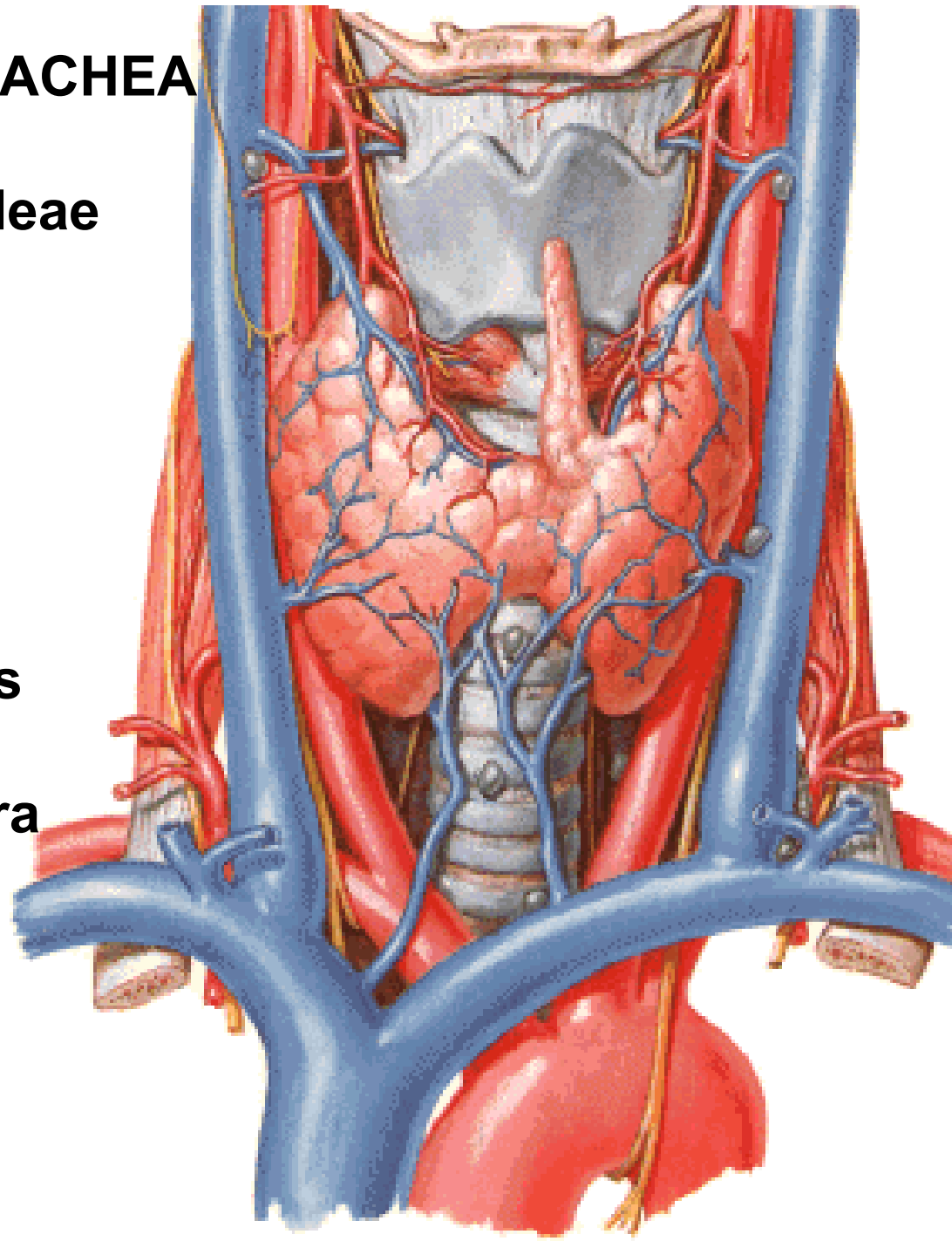


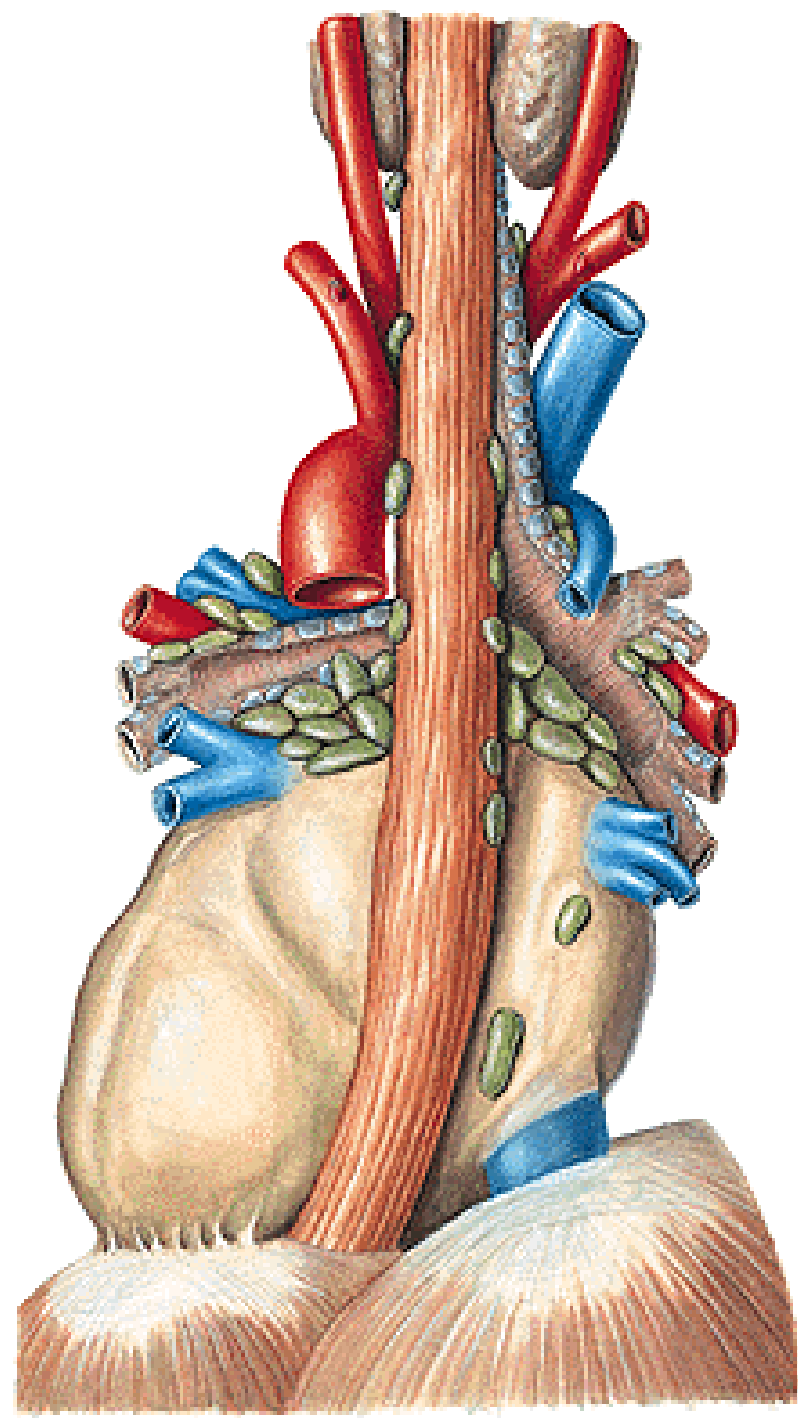
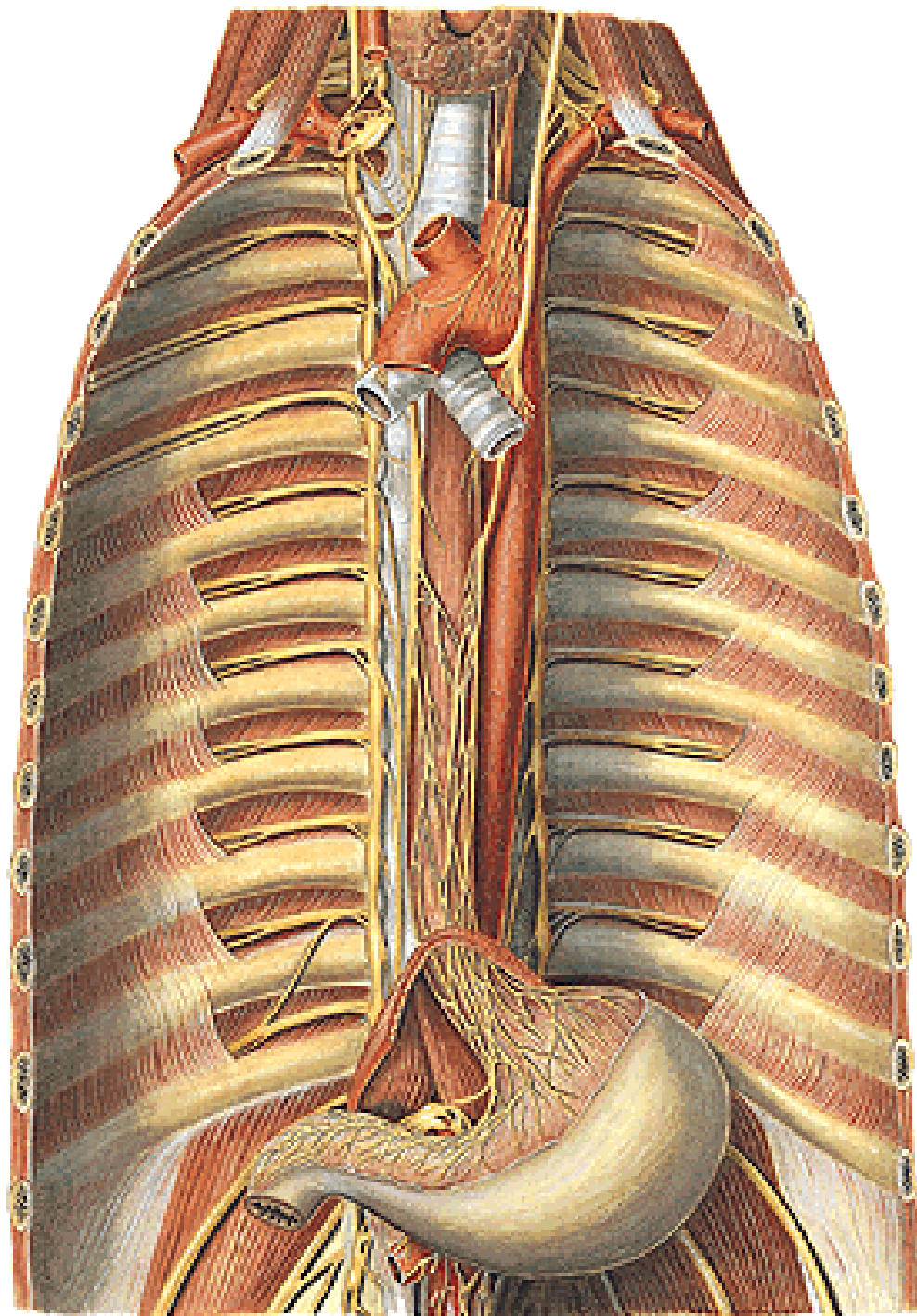
M. sternohyoideus
M. sternothyroideus
Lamina pretrachealis fasciae colli



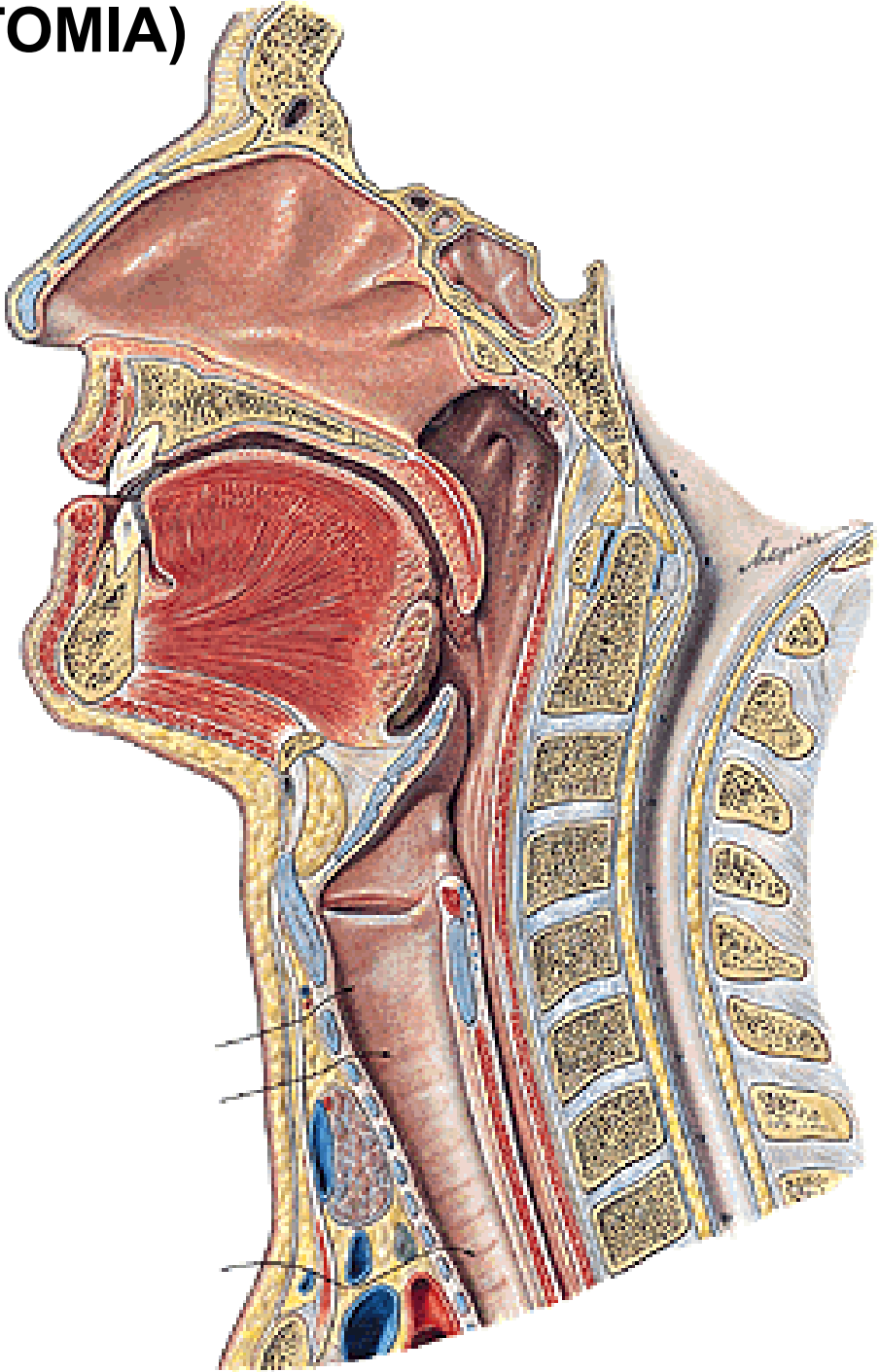
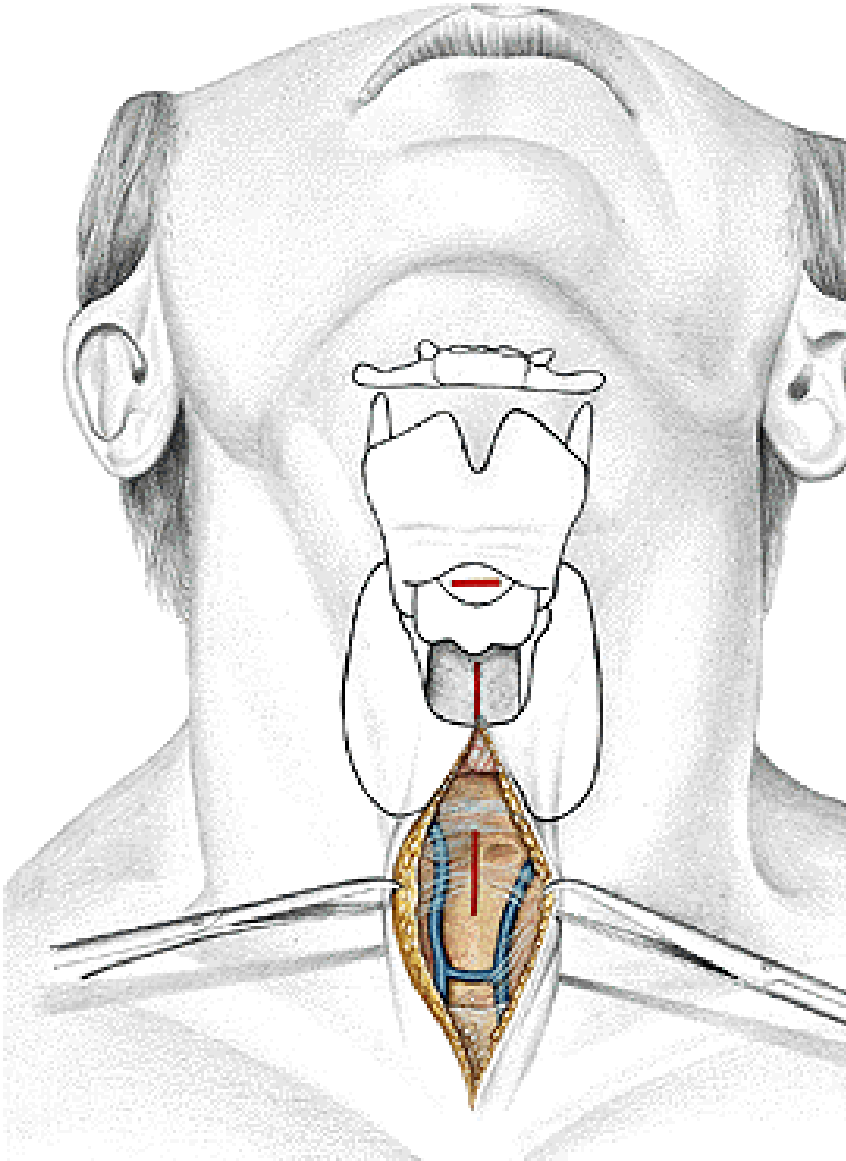
TOPOGRAPHY OF THE TRACHEA

- isthmus glandulae thyroideae
- vv. thyroideae inferiores
- a. carotis communis
- v. jugularis int.
- n. vagus
- oesophagus
- n. laryngeus recurrens
- truncus brachiocephalicus
- v. cava sup.
- v. brachiocephalica sinistra
- arcus aortae





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

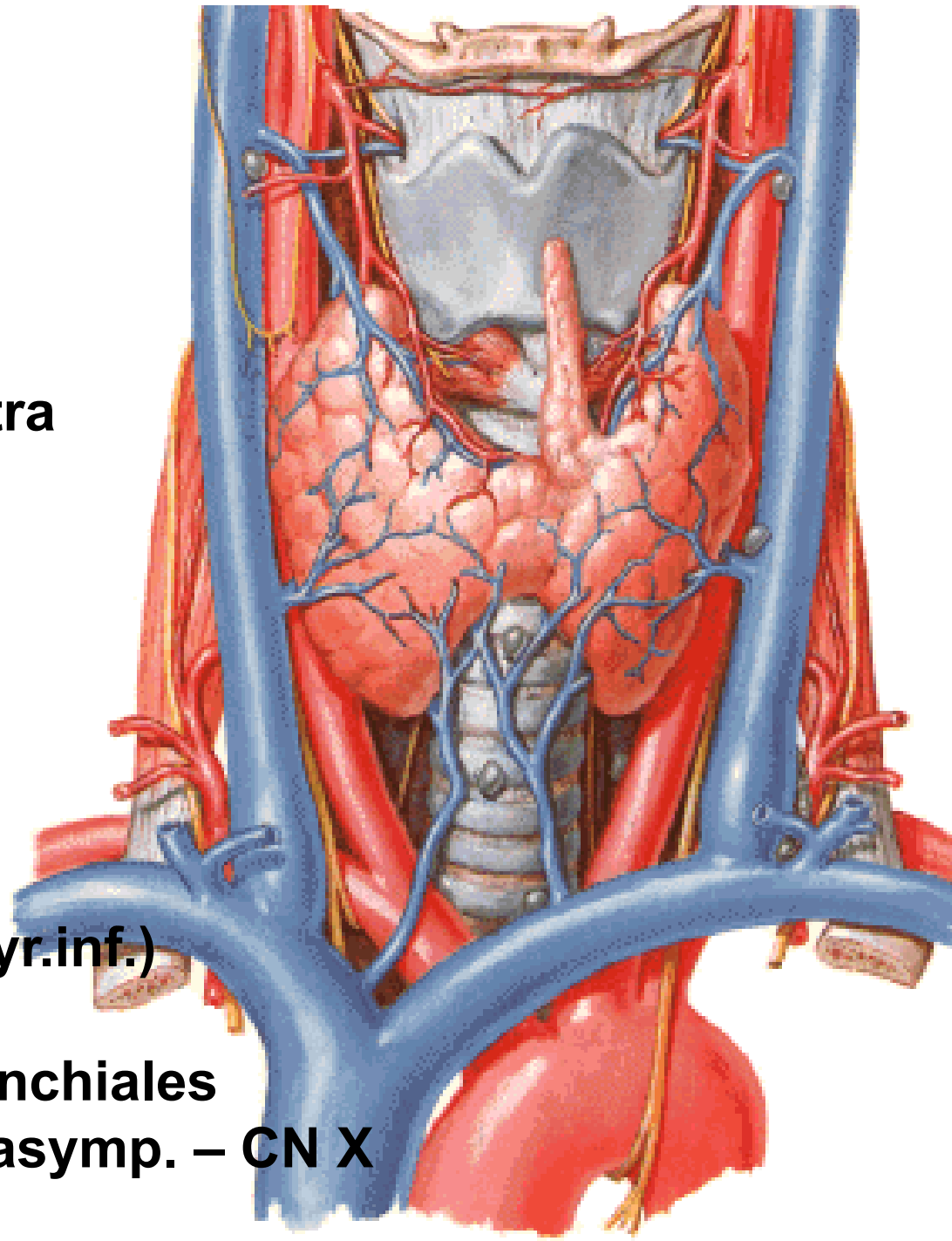


INFERIOR TRACHOTOMY

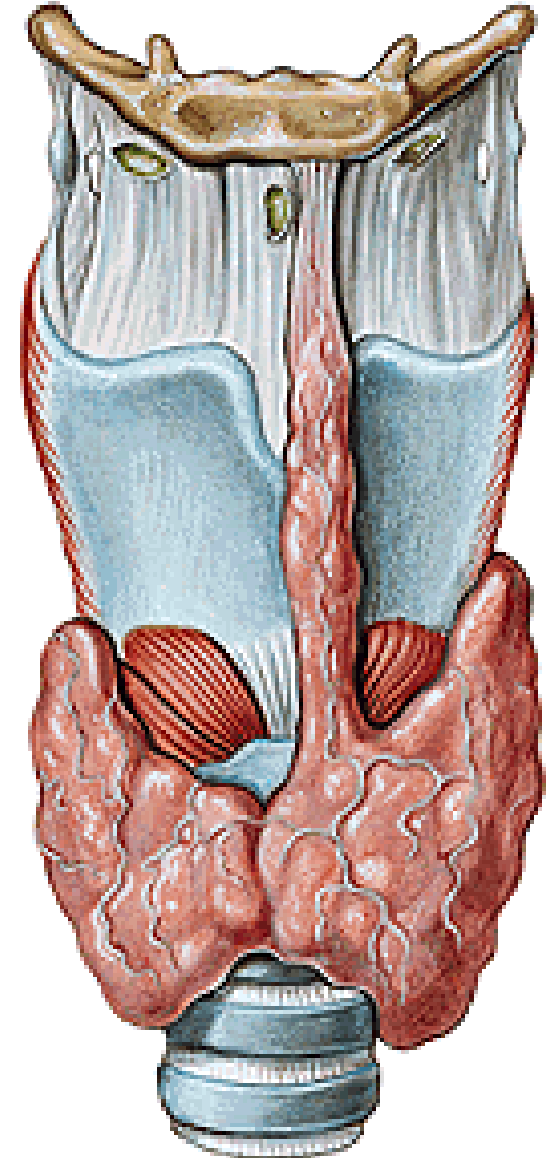
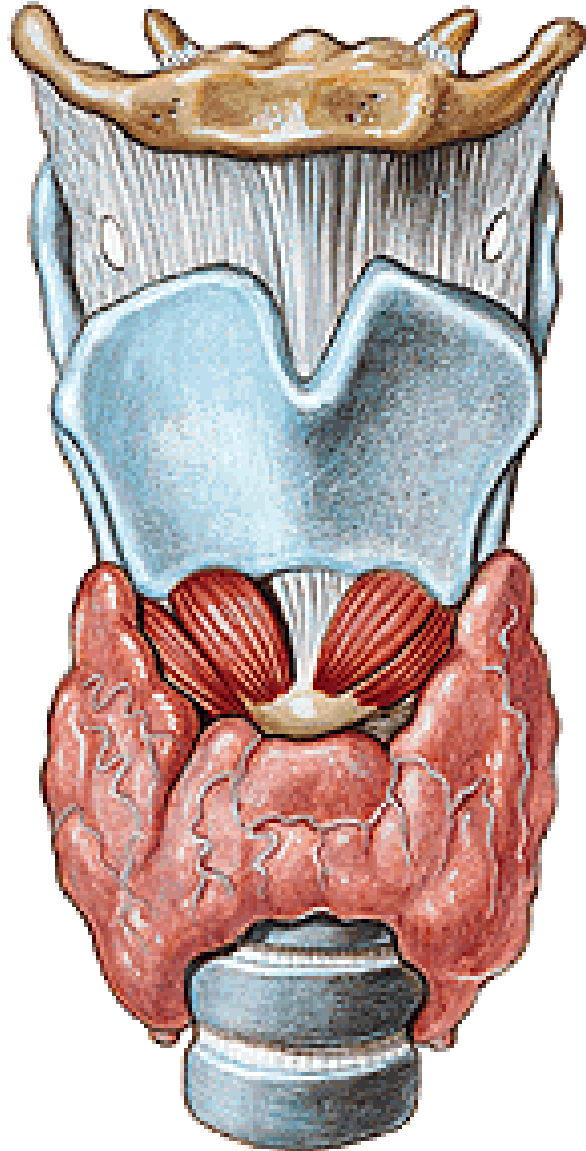
- vv. thyroideae inferiores
- a. thyroidea ima
- v. jugularis int.
- v. brachiocephalica sinistra
- arcus venosus juguli
- pleura
- thymus

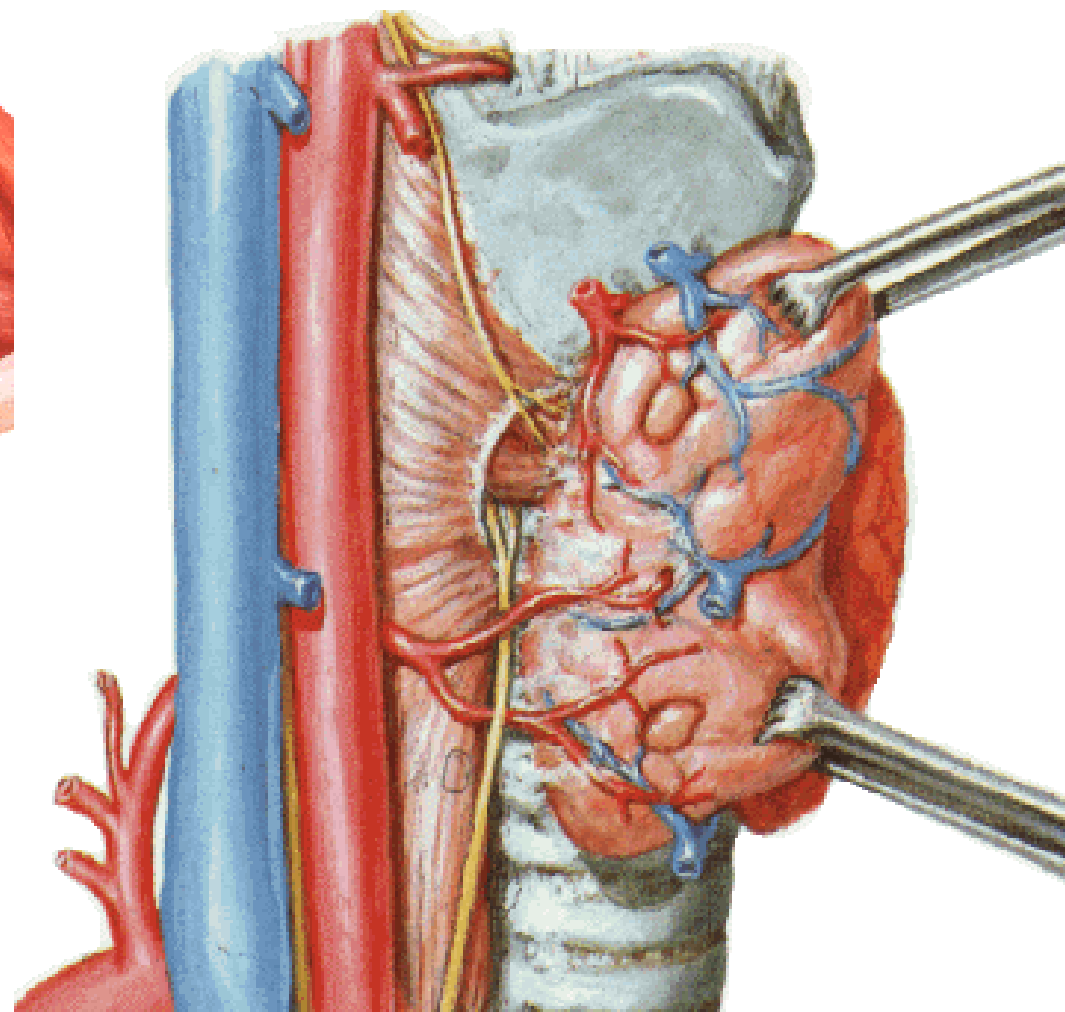
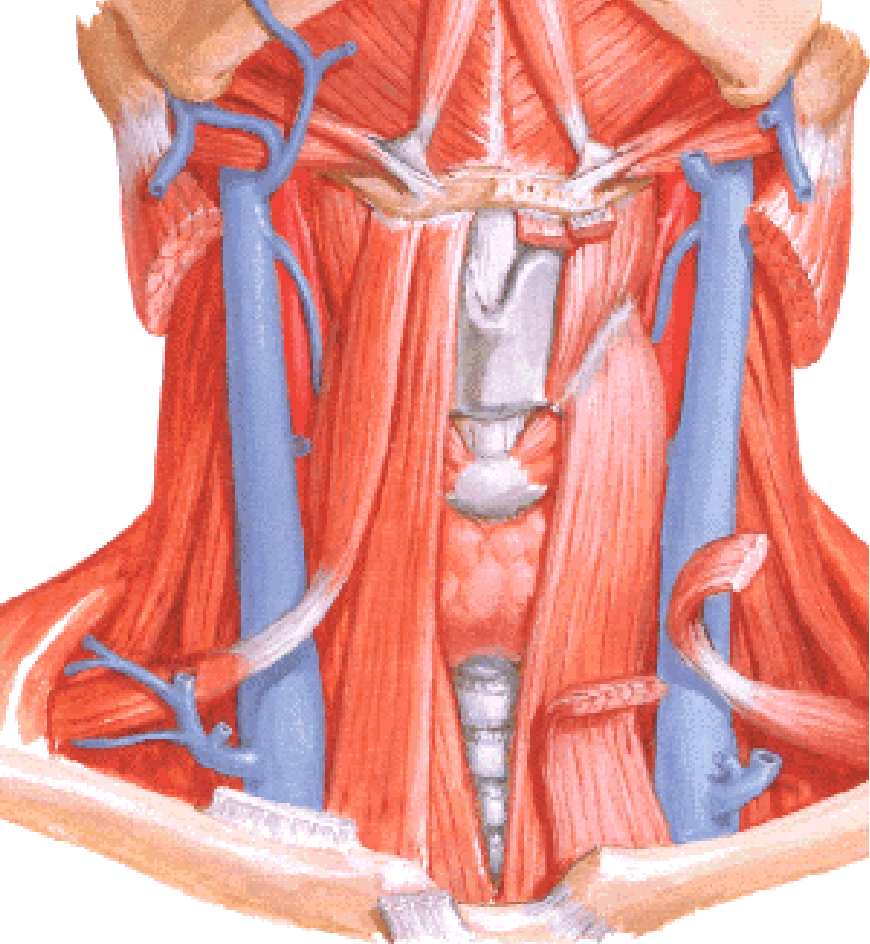
TRACHEOSTOMY

- Aa. tracheales (aorta, a. thyр. inf.)
- V. brachiocephalica sin.
- Nll. tracheales, tracheobronchiales
- Truncus sympathicus, parasymp. – CN X

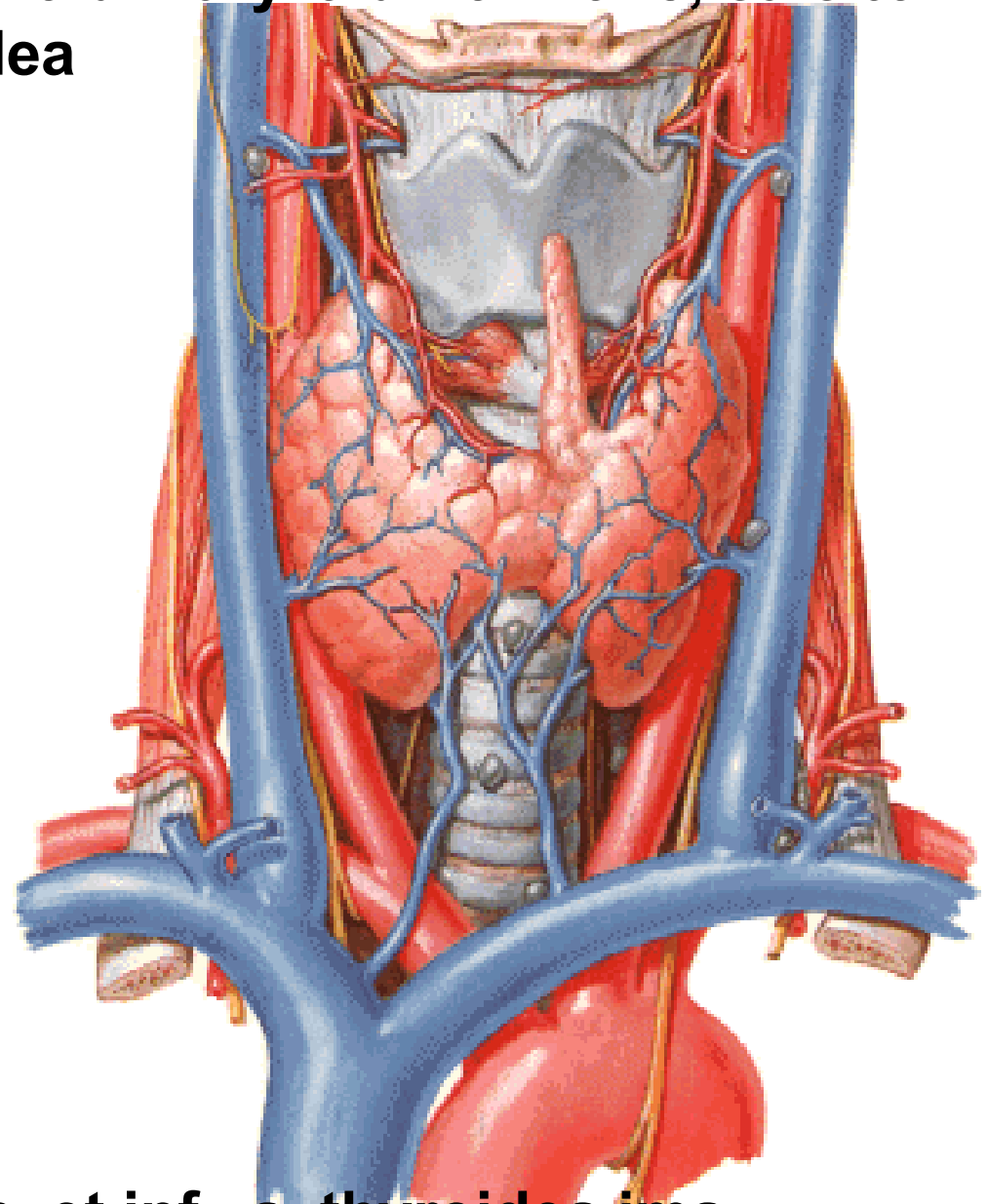
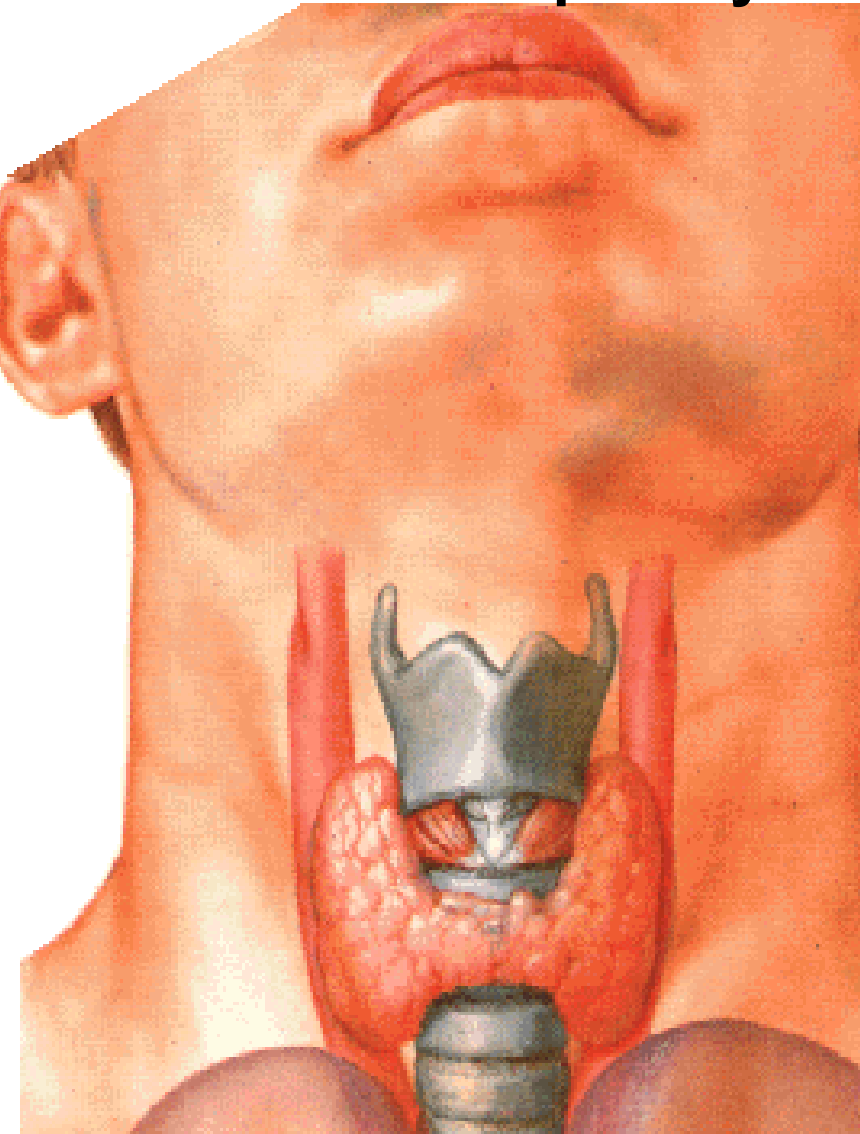


GLANDULA THYROIDEA – lobus dexter
- lobus sinister
- isthmus
- lobus
pyramidalis



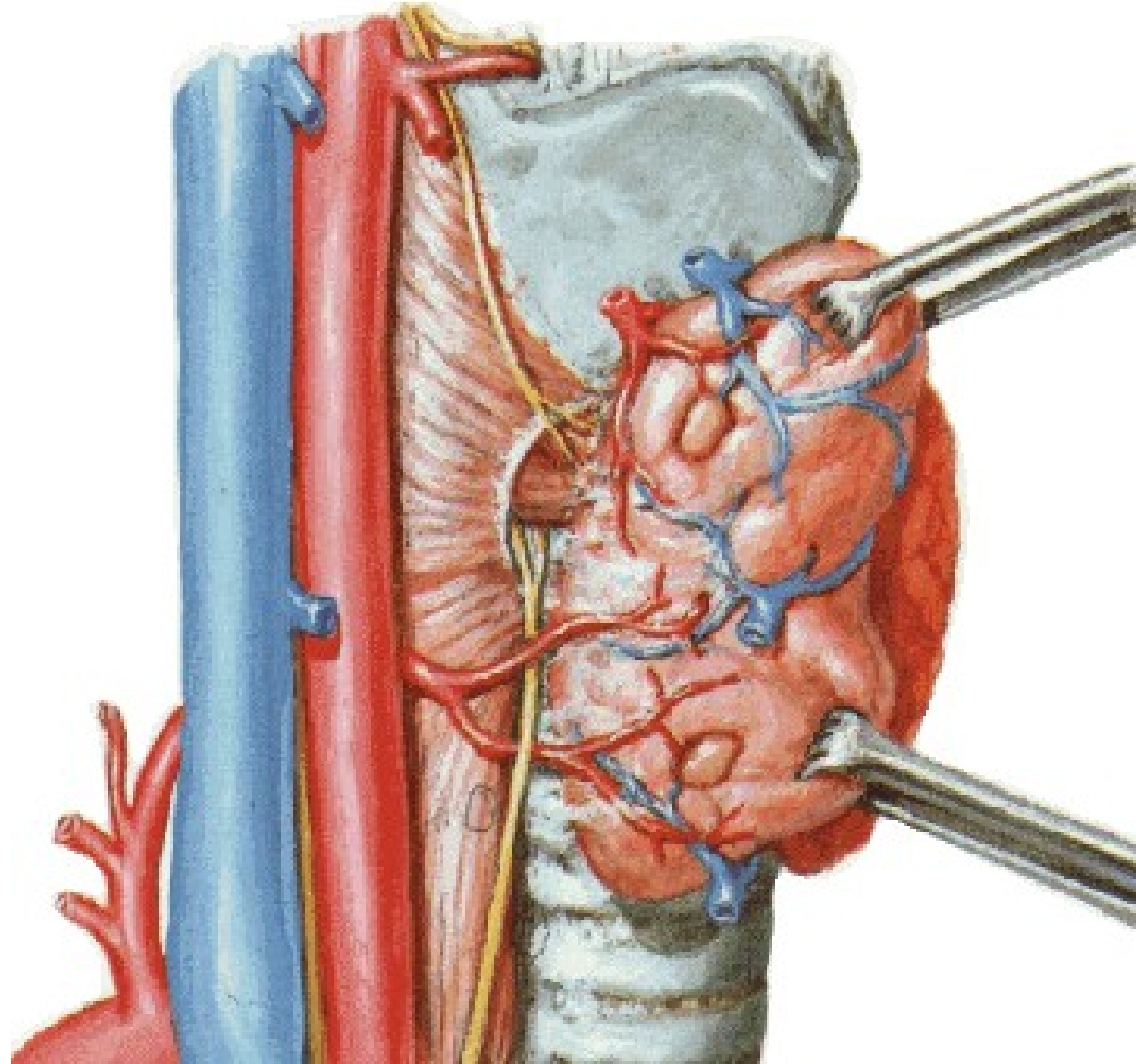
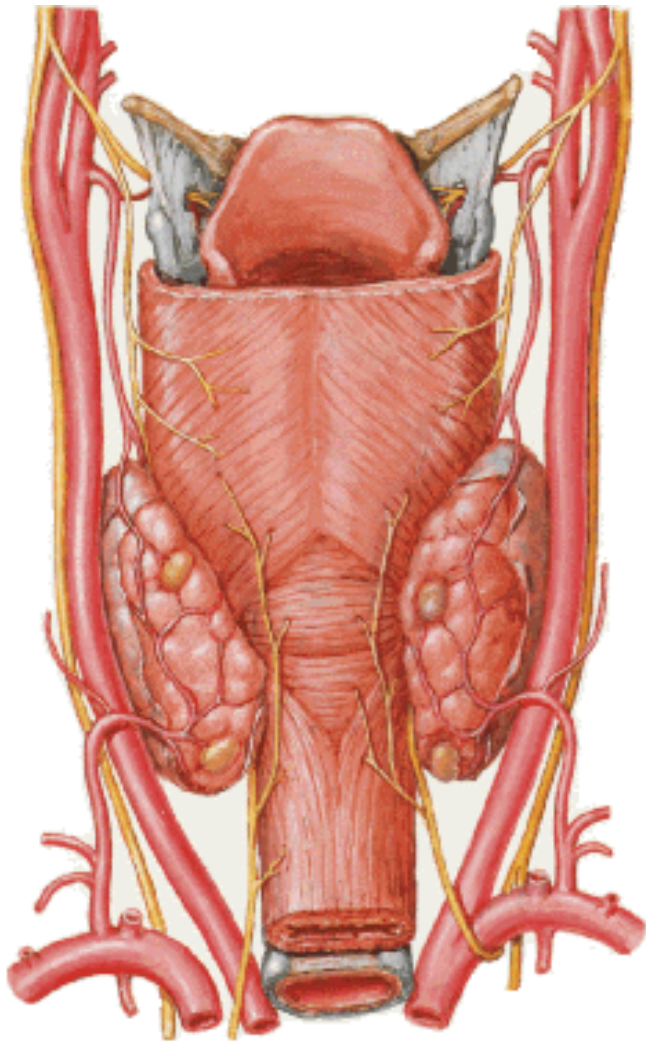


Capsula propria, folliculi, colloid – thyroid hormone, calcitonin
Fascia externa s. perithyroidea



**A. et v. thyroidea sup. et inf., a. thyroidea ima,
nll. cervicales prof., nll. paratracheales**

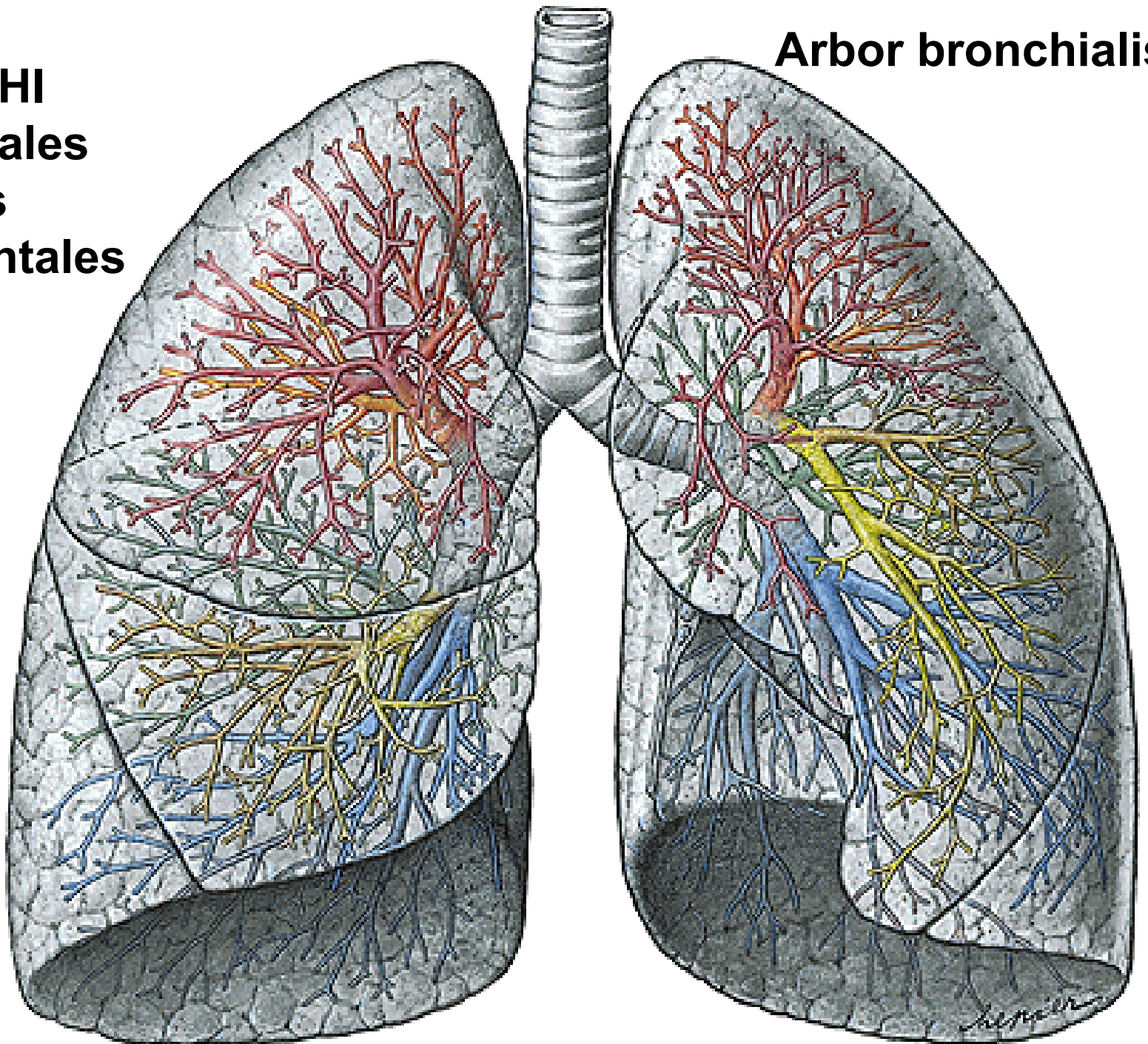
GLANDULAE PARATHYROIDEAE –sup. et inf. Parathormone (parathyroid hormone; PTH)



BRONCHI

- principales
- lobares
- segmentales

Arbor bronchialis



PULMO DEXTER

**lobus superior
medius
inferior
fissura obliqua
fissura horizontalis**



**apex pulmonis
basis pulmonis
(facies diaphragmatica)
facies costalis
margo anterior
inferior
posterior**

PULMO SINISTER

**lobus superior
inferior
fissura obliqua
incisura cardiaca
lingula pulmonis sinistri**



FACIES MEDIASTINALIS

hillum pulmonis

radix pulmonis

lig. pulmonale

sulcus a. subclaviae

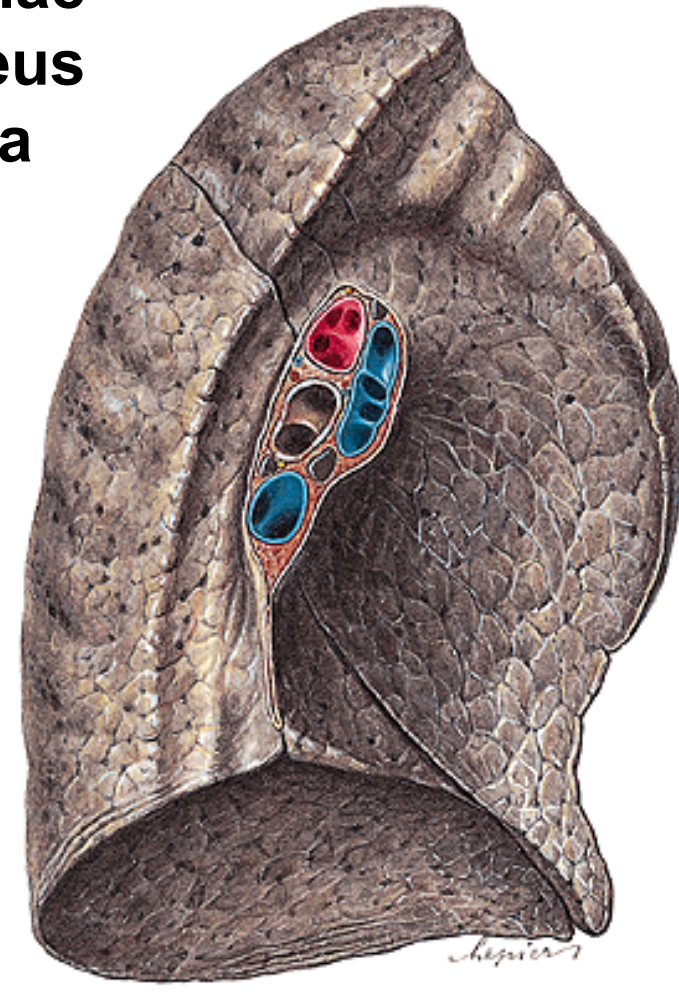
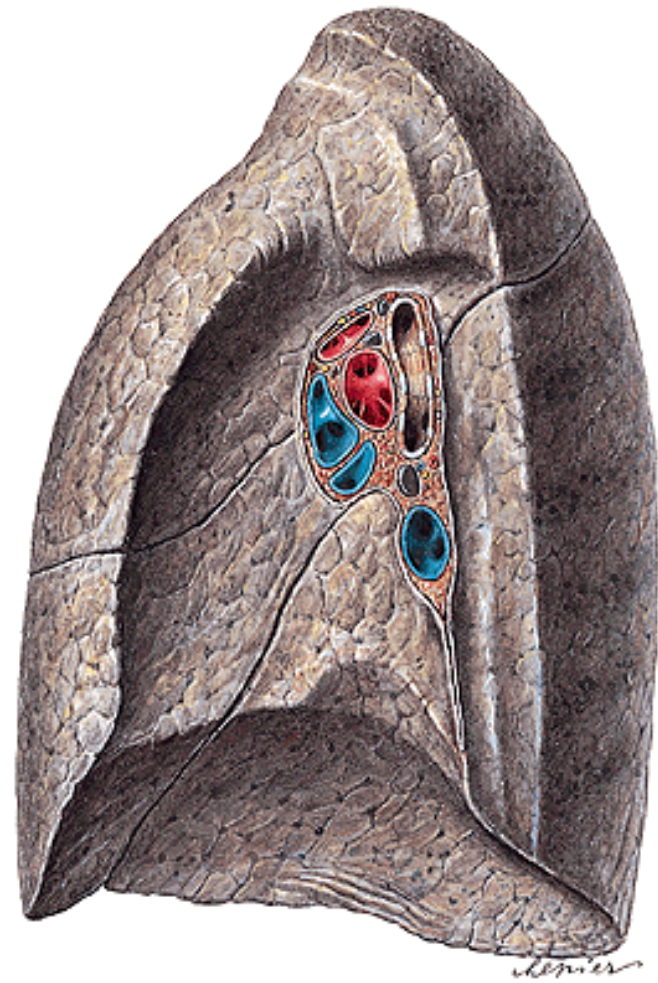
sulcus costae primae

sulcus oesophageus

impressio cardiaca

sulcus v. cavae sup.
sulcus v. azygos

sulcus aorticus



SEGMENTA BRONCHOPULMONALIA DEXTRA

1. s. apicale

2. s. posterius

3. s. anterior

4. s. laterale

5. s. mediale

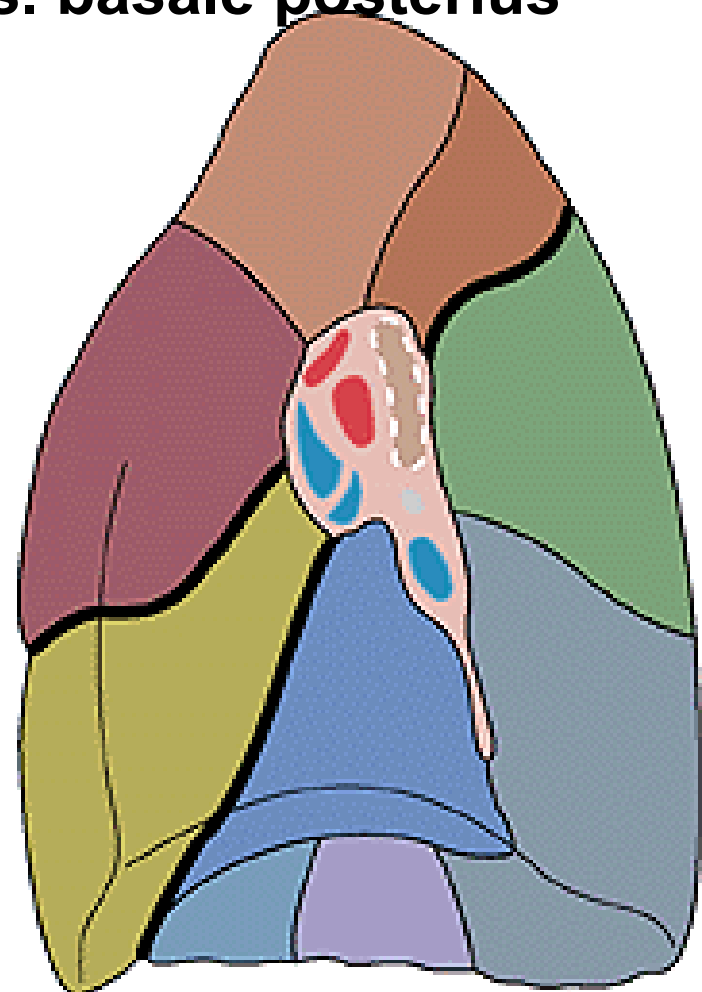
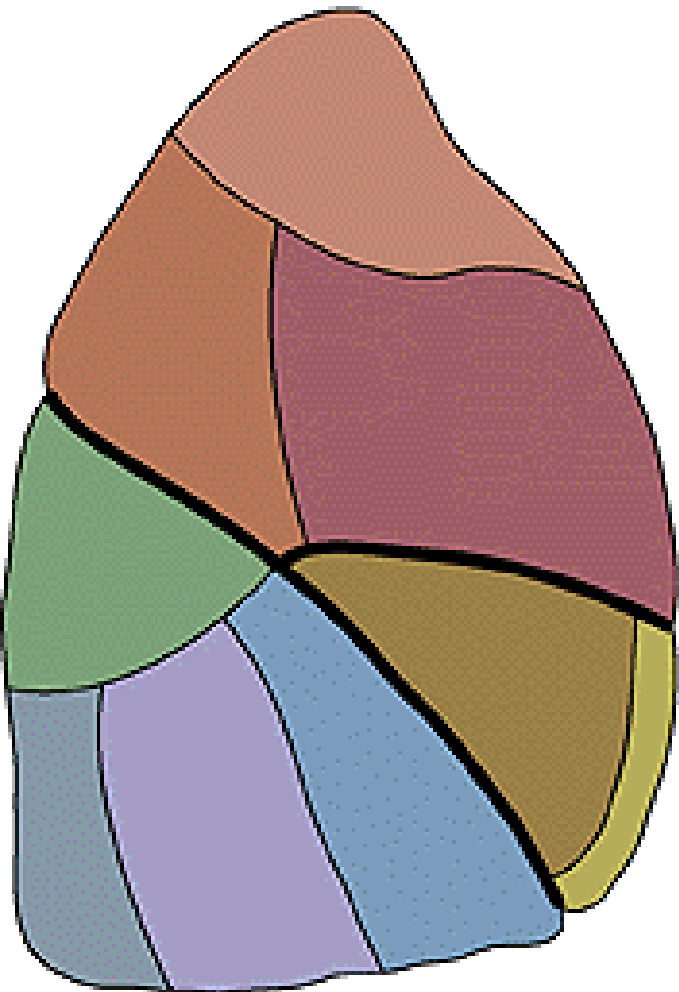
6. s. apicale

7. s. basale mediale

8. s. basale anterior

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

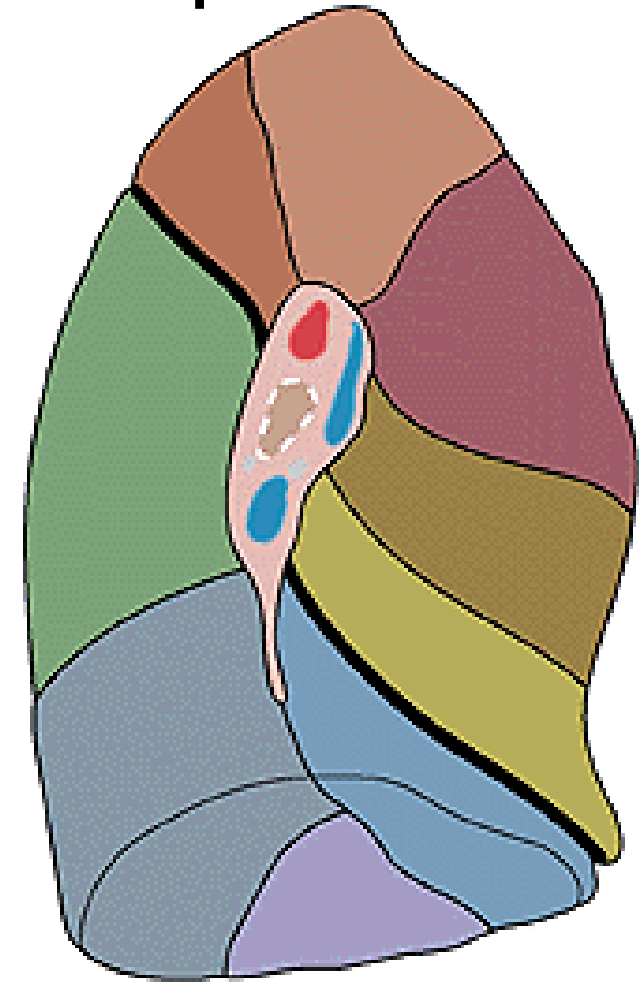
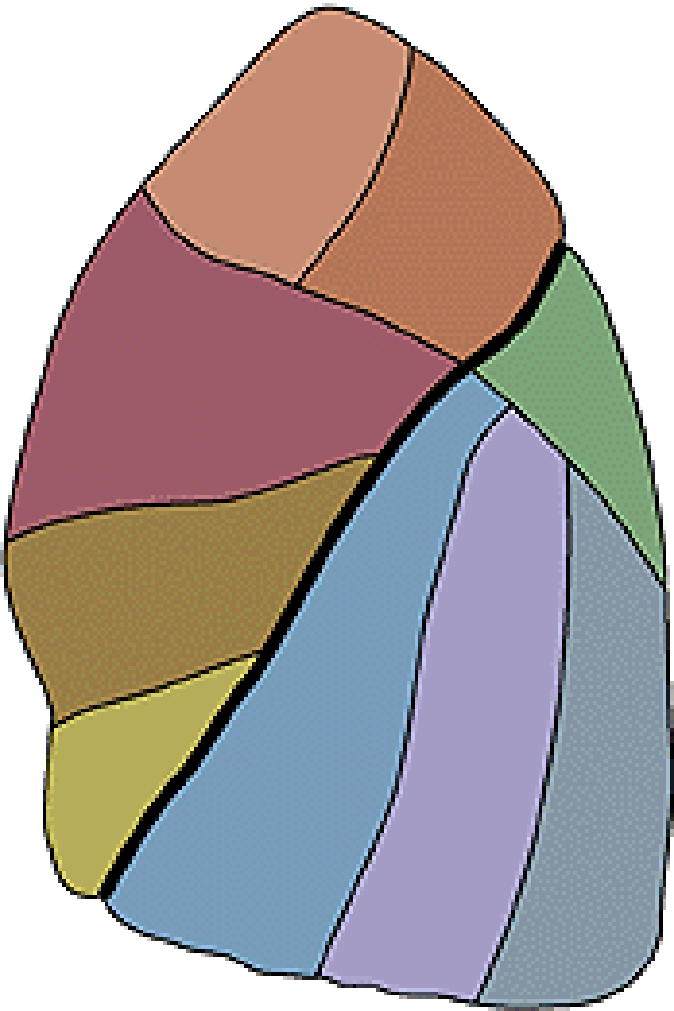
6. s. apicale

(7. s. basale mediale)

8. s. basale anterior

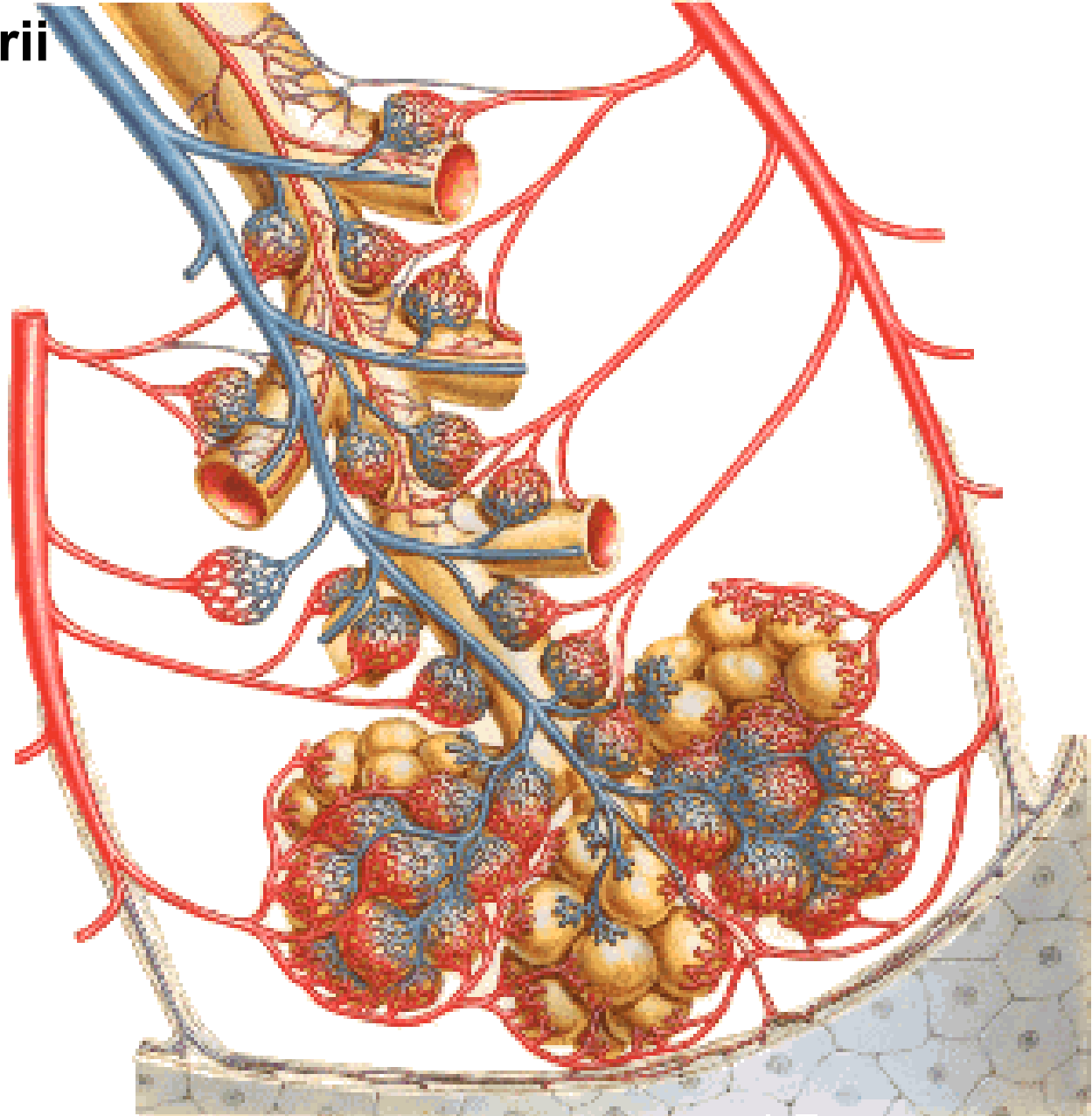
9. s. basale laterale

10. s. basale posterius



Bronchioli terminales
Bronchioli respiratorii
Ductuli alveolares
Sacculi alveolares
Alveoli pulmonis

Asthma bronchiale

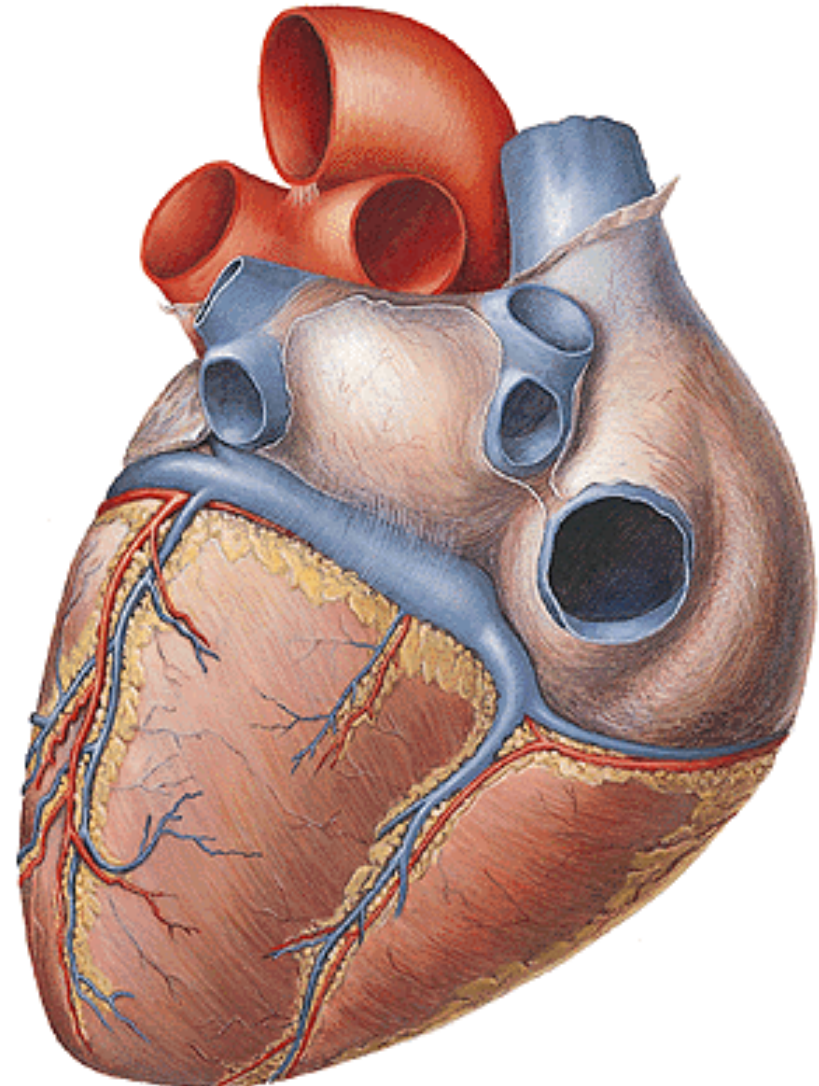
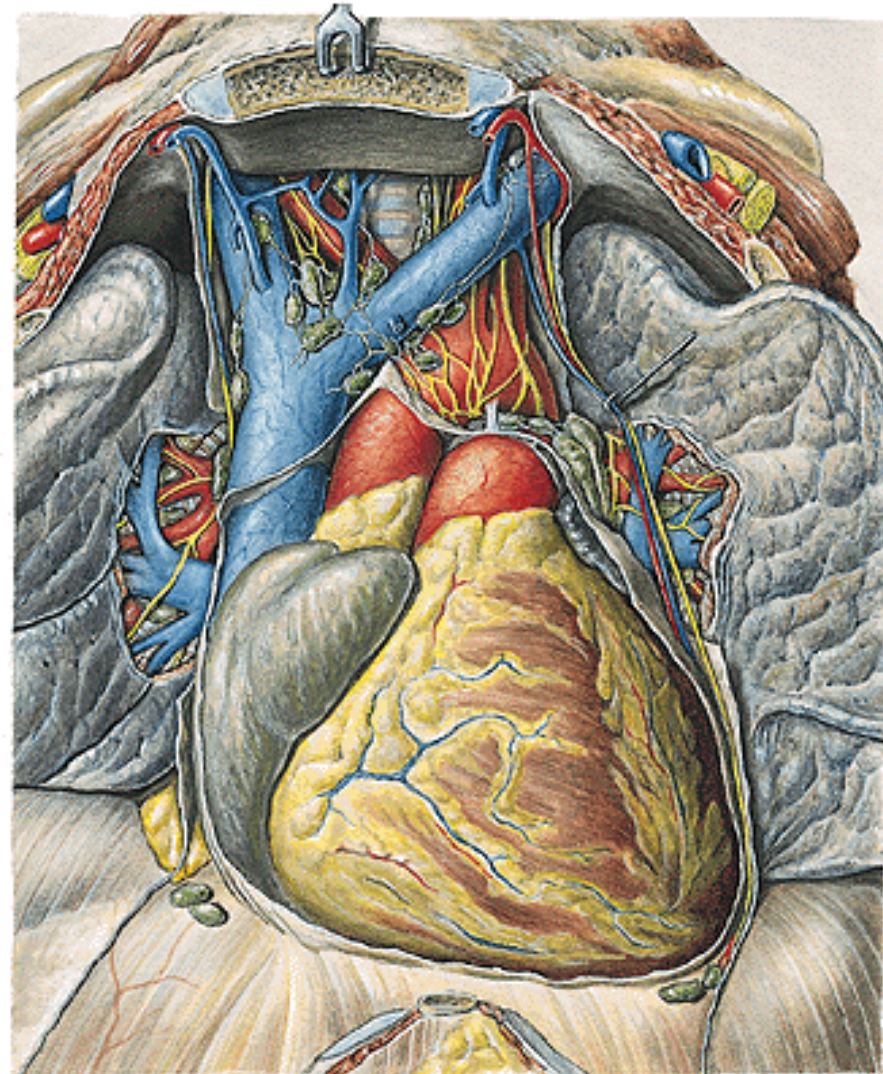


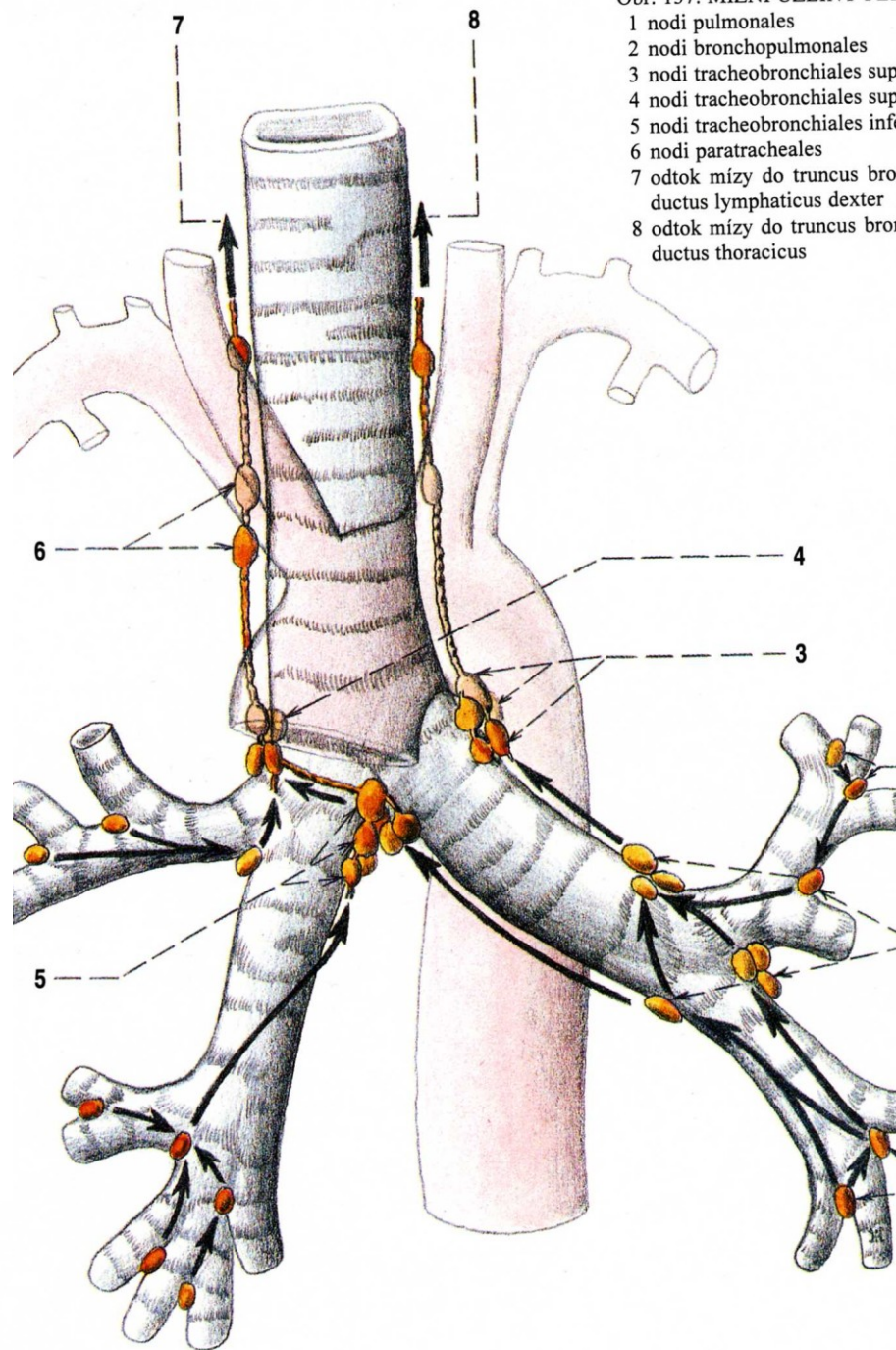
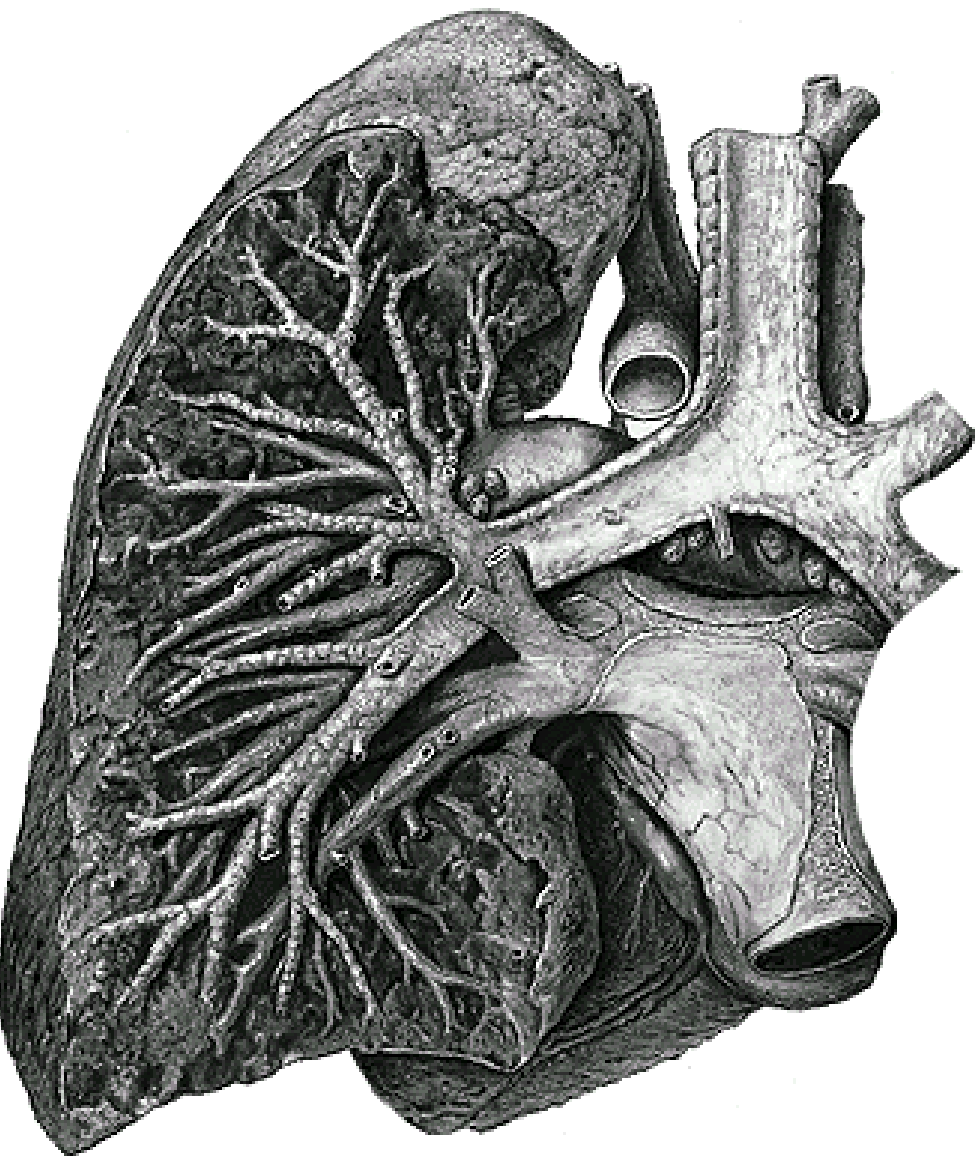
Truncus pulmonalis → a. pulmonalis dx. et sin.

Vv. pulmonales → atrium sinistrum

Aorta thoracica → aa. bronchiales

Vv. bronchiales → v. azygos, v. hemiazygos accessoria





Obr. 137. MÍZNÍ UZLINY PLÍ

- 1 nodi pulmonales
- 2 nodi bronchopulmonales
- 3 nodi tracheobronchiales sup
- 4 nodi tracheobronchiales sup
- 5 nodi tracheobronchiales inf
- 6 nodi paratracheales
- 7 odtok mízy do truncus bronchialis
- 8 odtok mízy do truncus bronchialis

ductus lymphaticus dexter
ductus thoracicus

PLEURA - visceralis

- parietalis - costalis

- diaphragmatica

- mediastinalis

Cavitas pleuralis

Cupula pleurae – lig. scaleno-, vertebro-, costopleurale

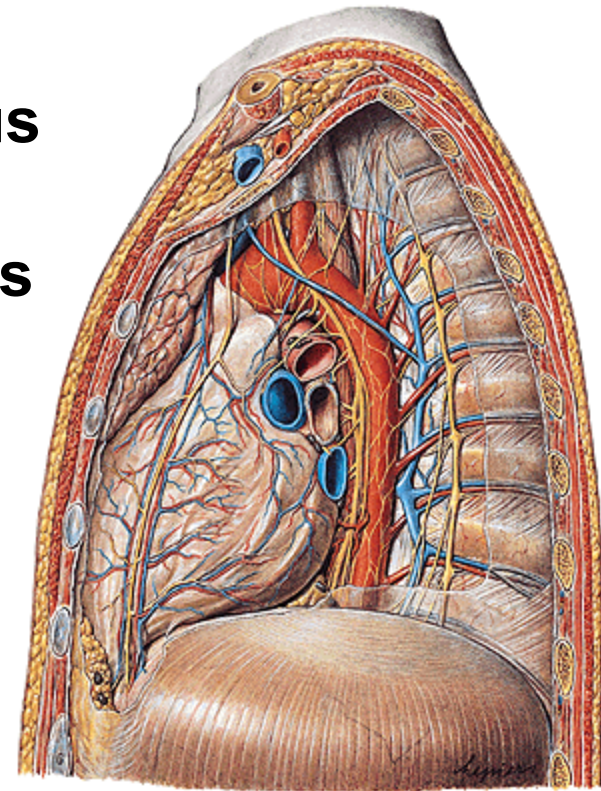
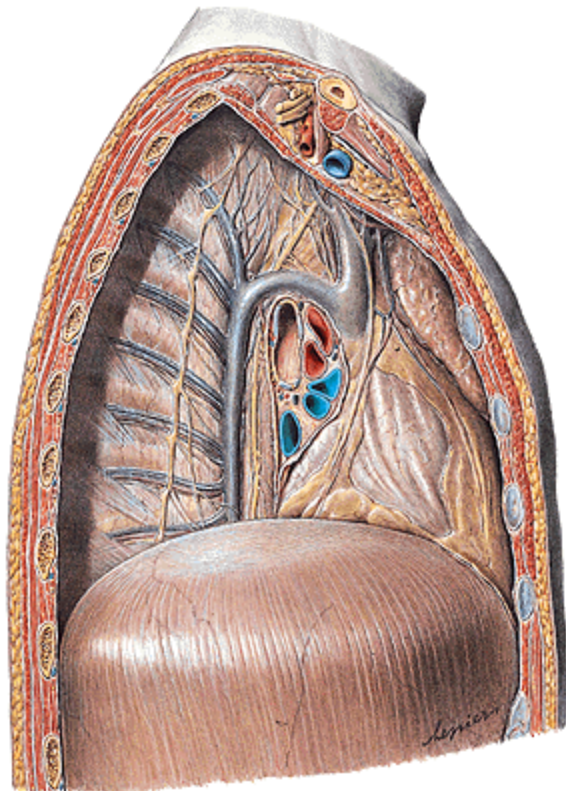
Recessus pleurae:

r. costodiaphragmaticus

r. costomediastinalis

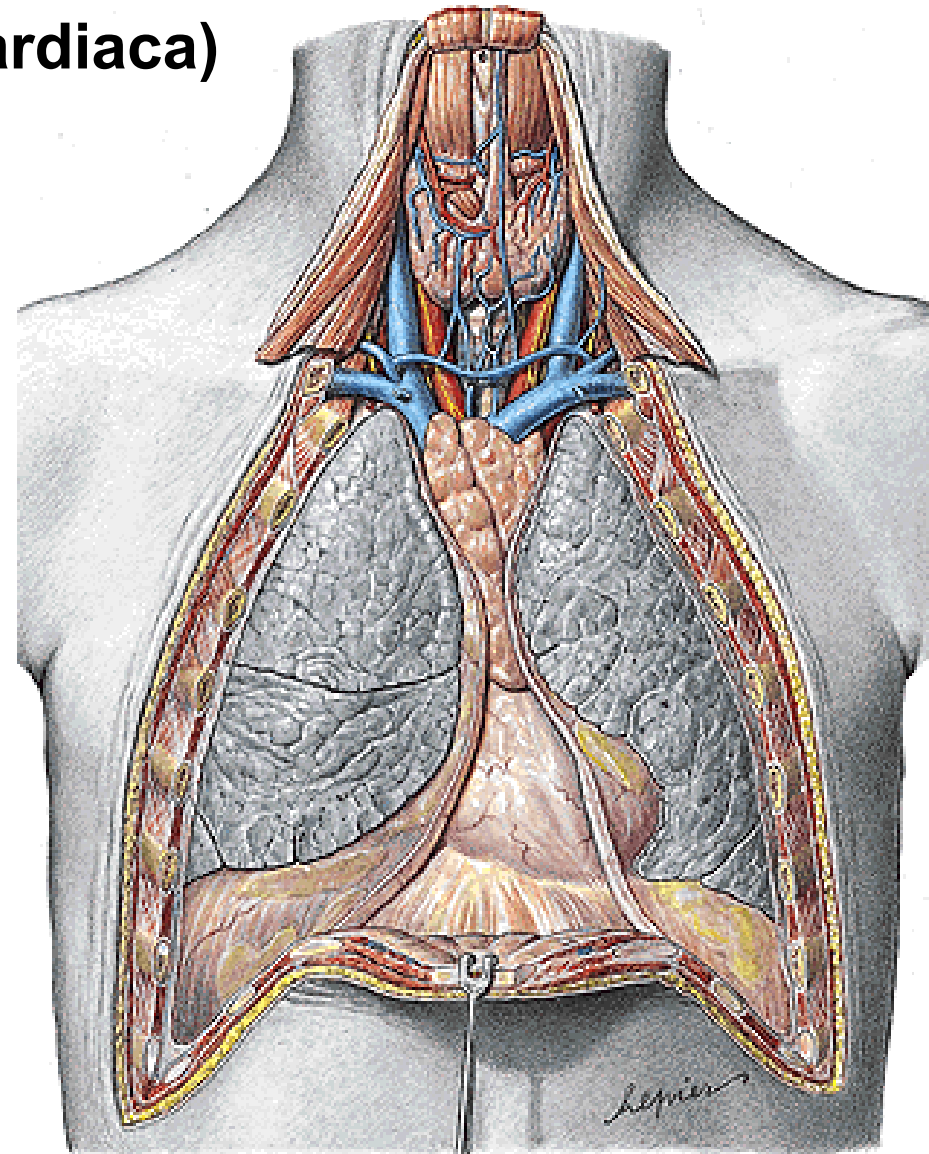
r. phrenicomediastinalis

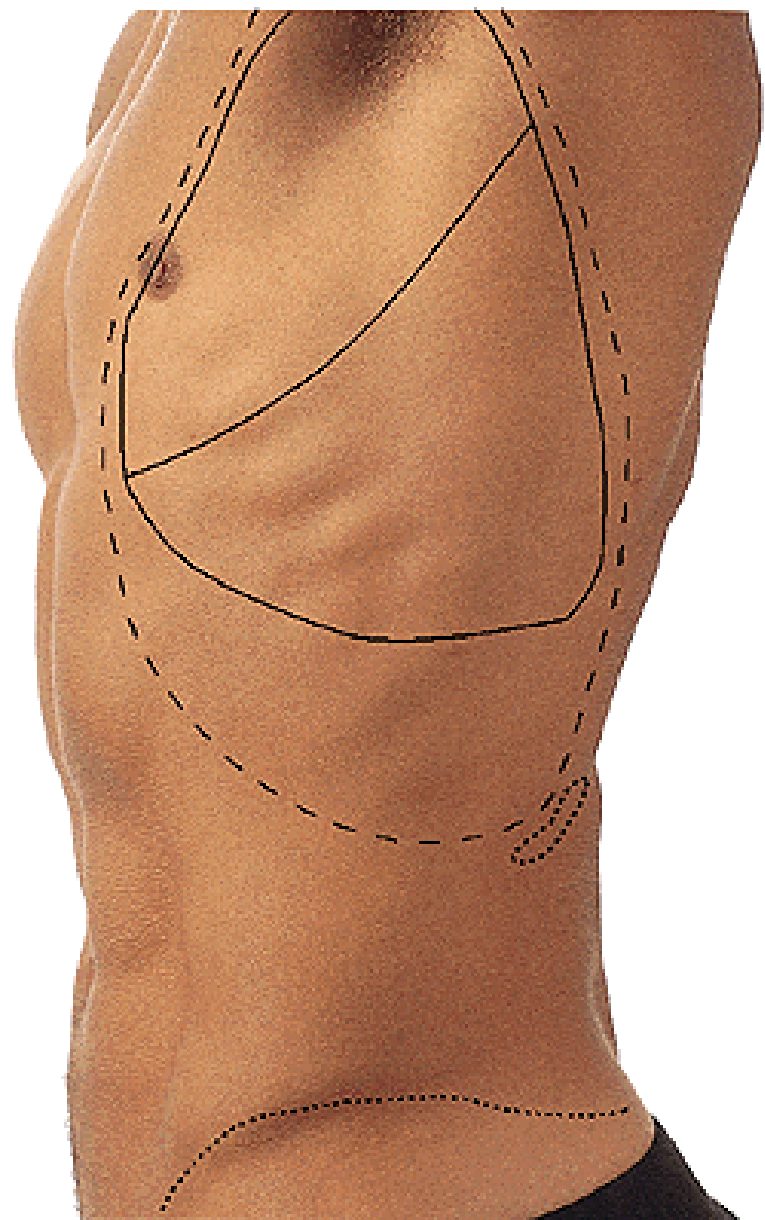
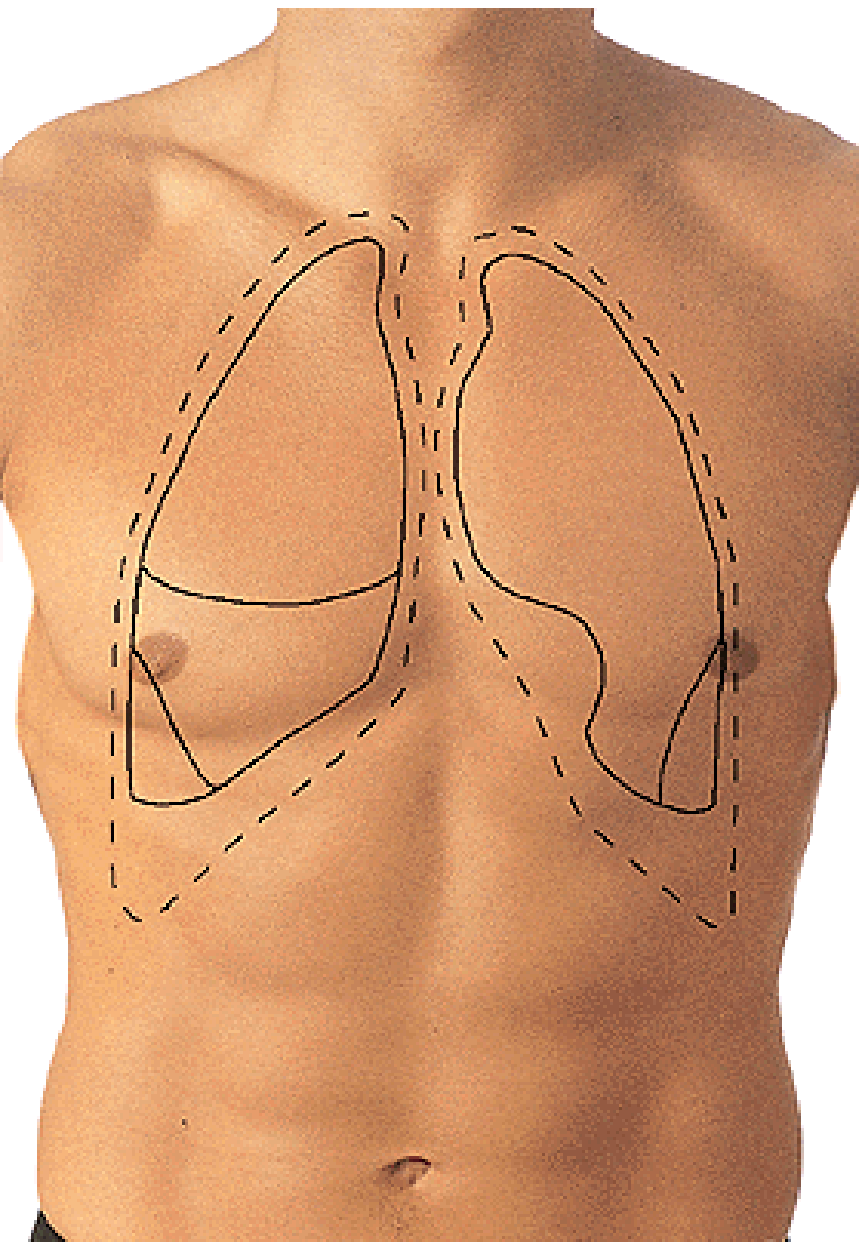
Pneumothorax

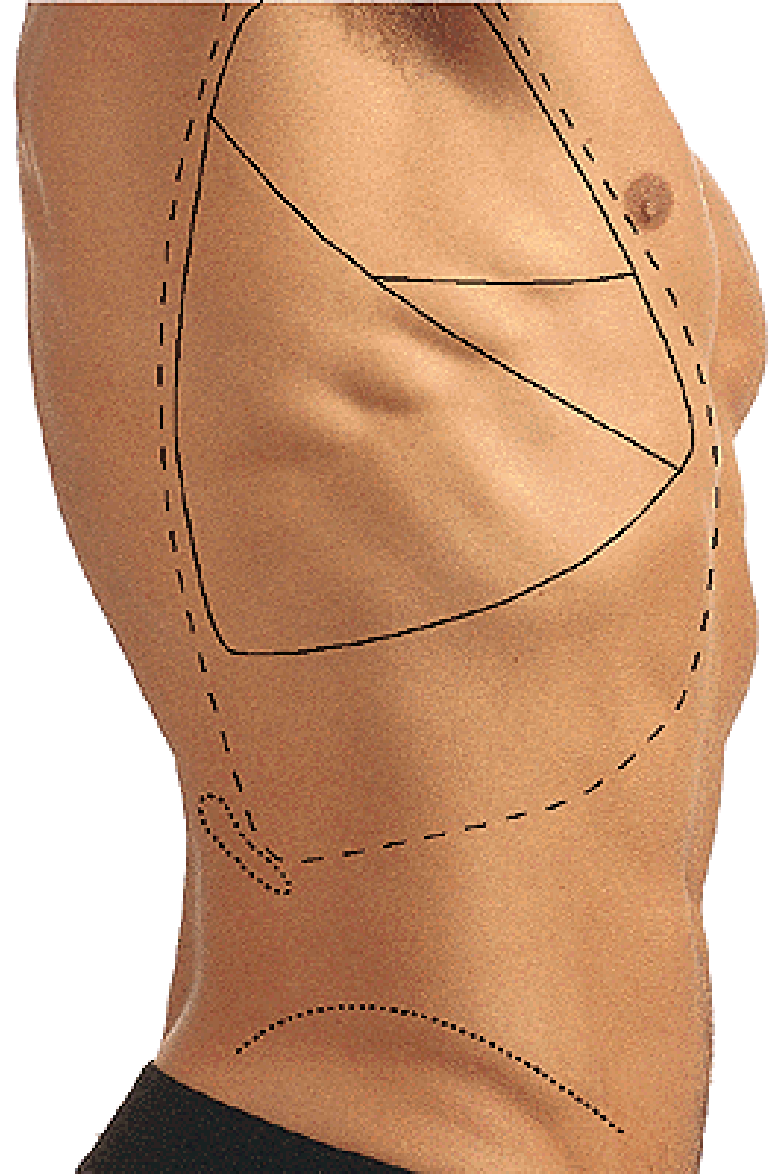


Area interpleuralis sup. (thymica)

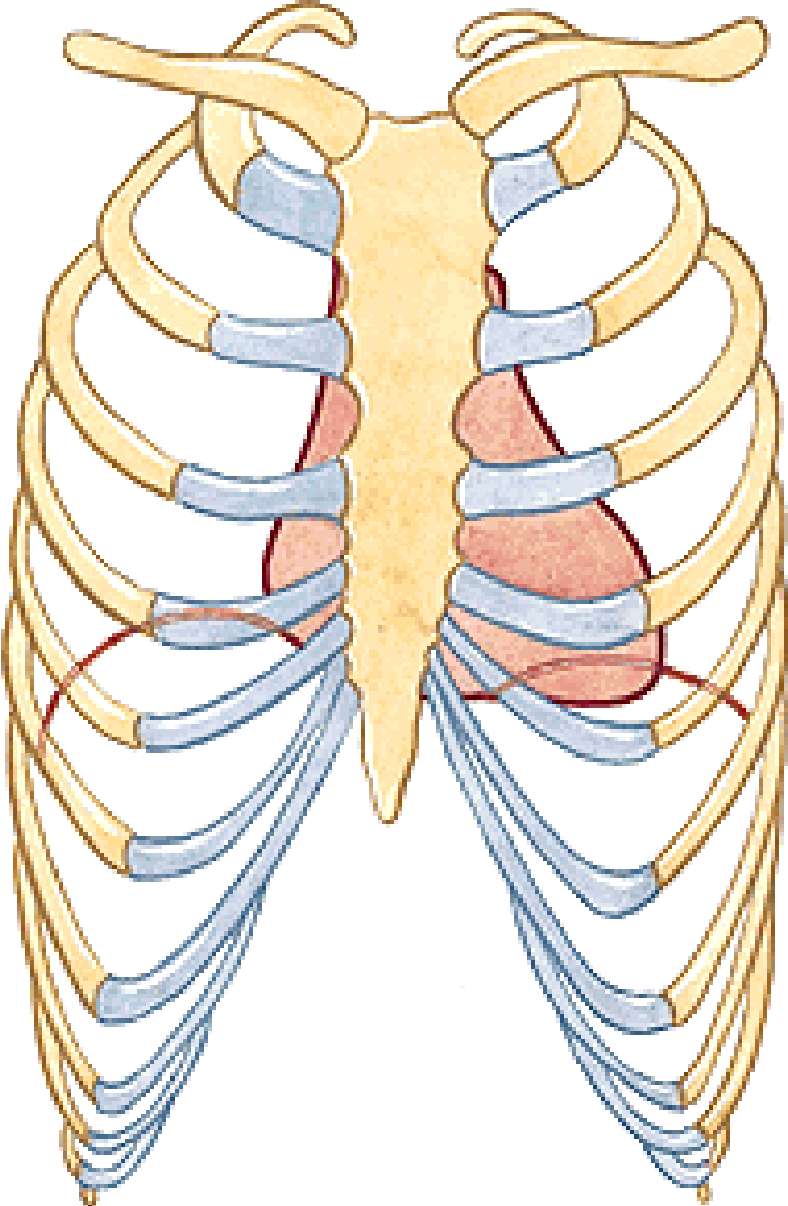
Area interpleuralis inf. (pericardiaca)



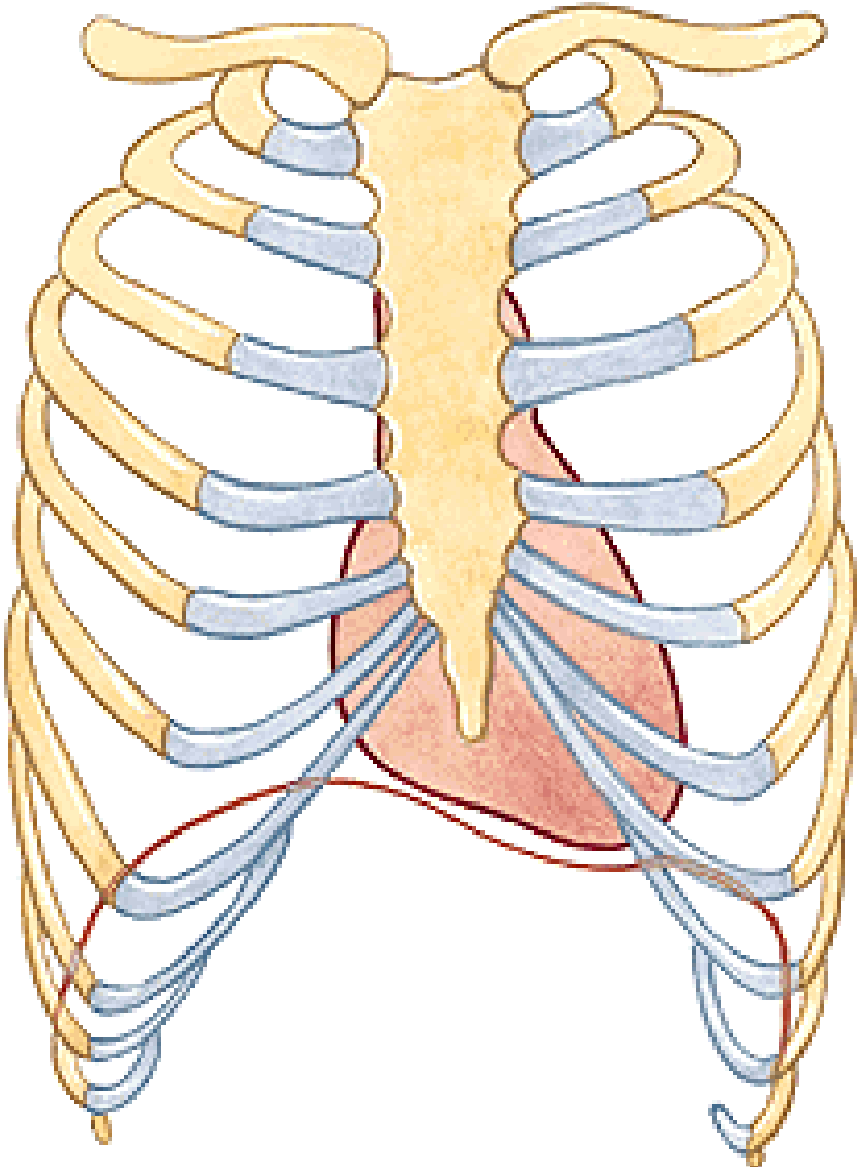




EXPIRATION

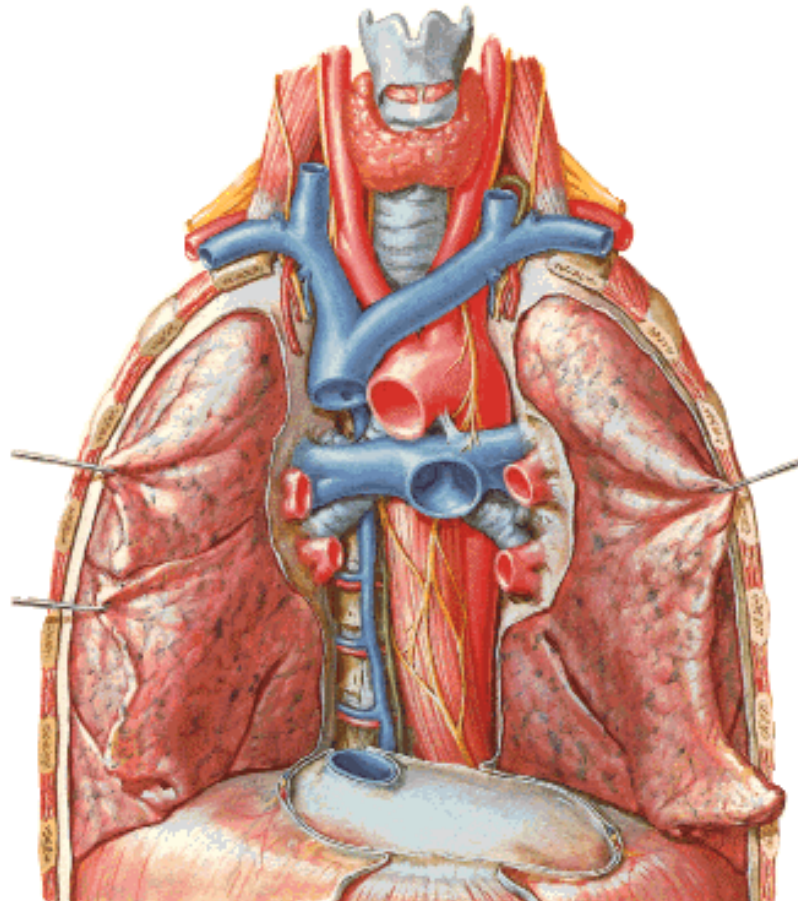
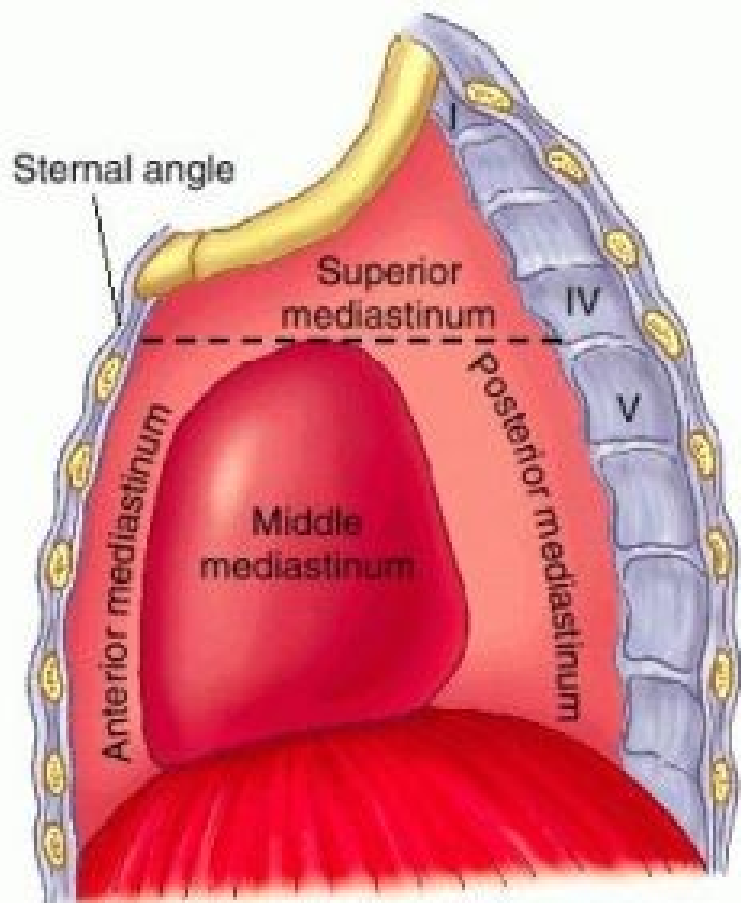
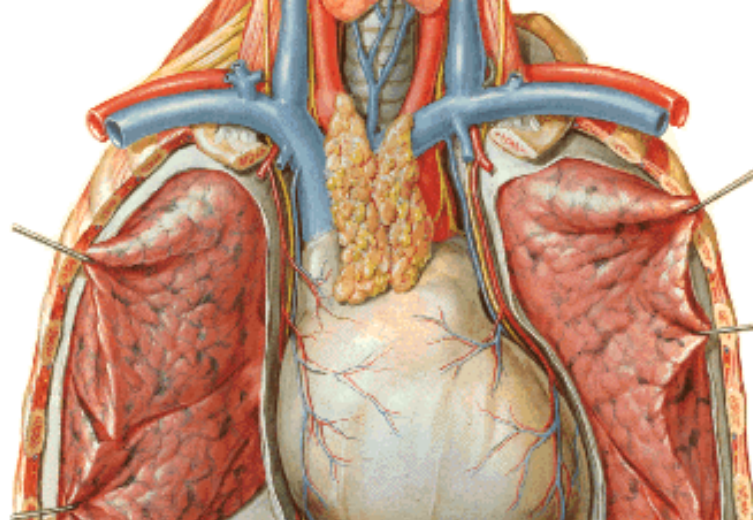


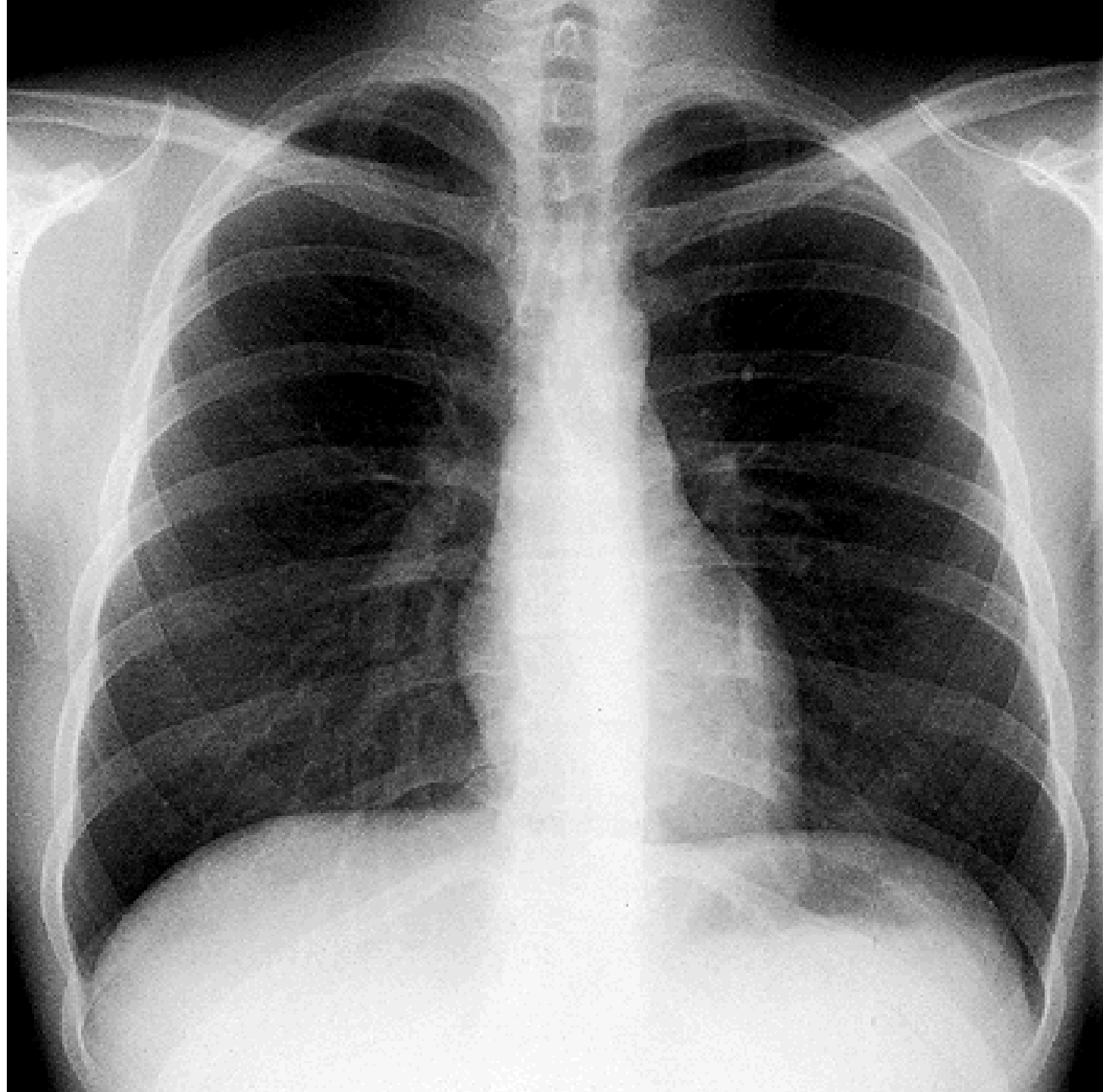
INSPIRATION



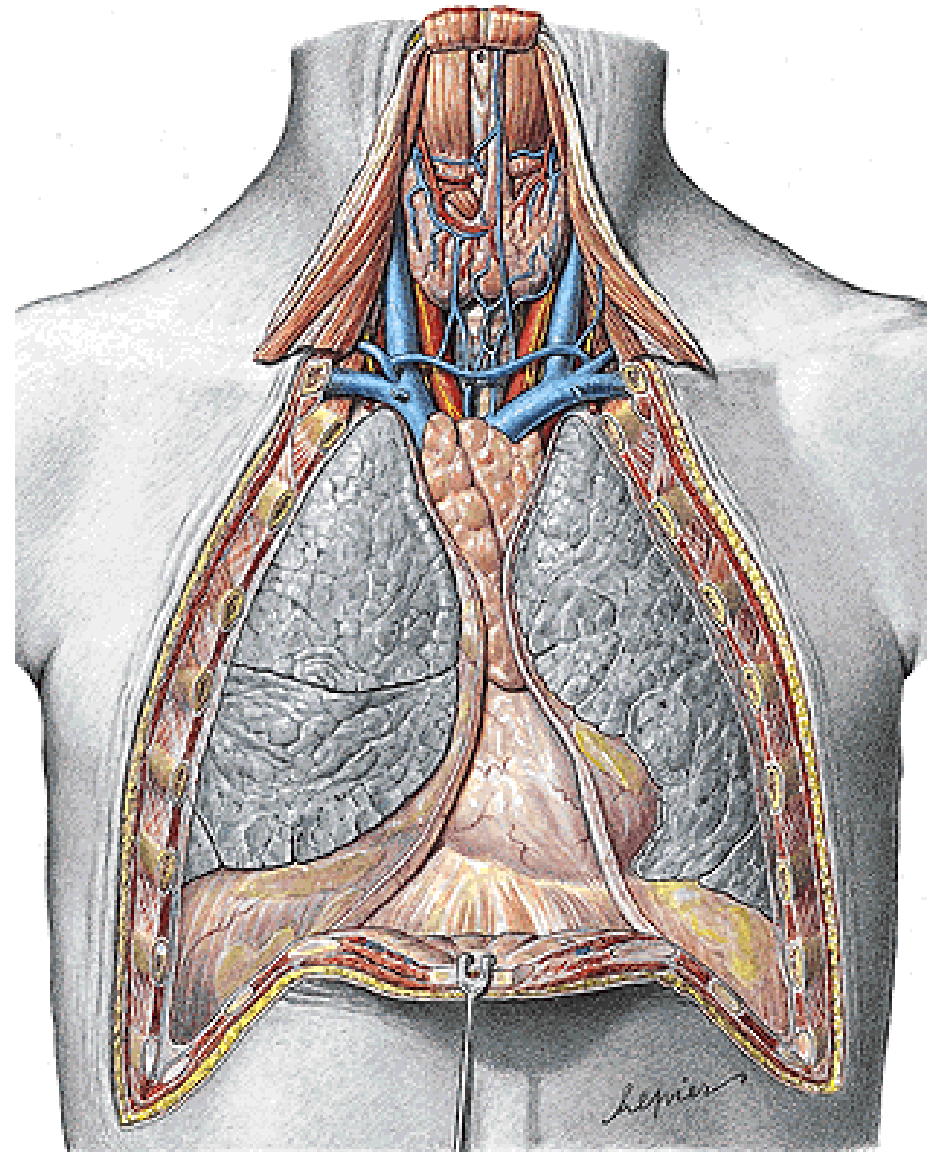
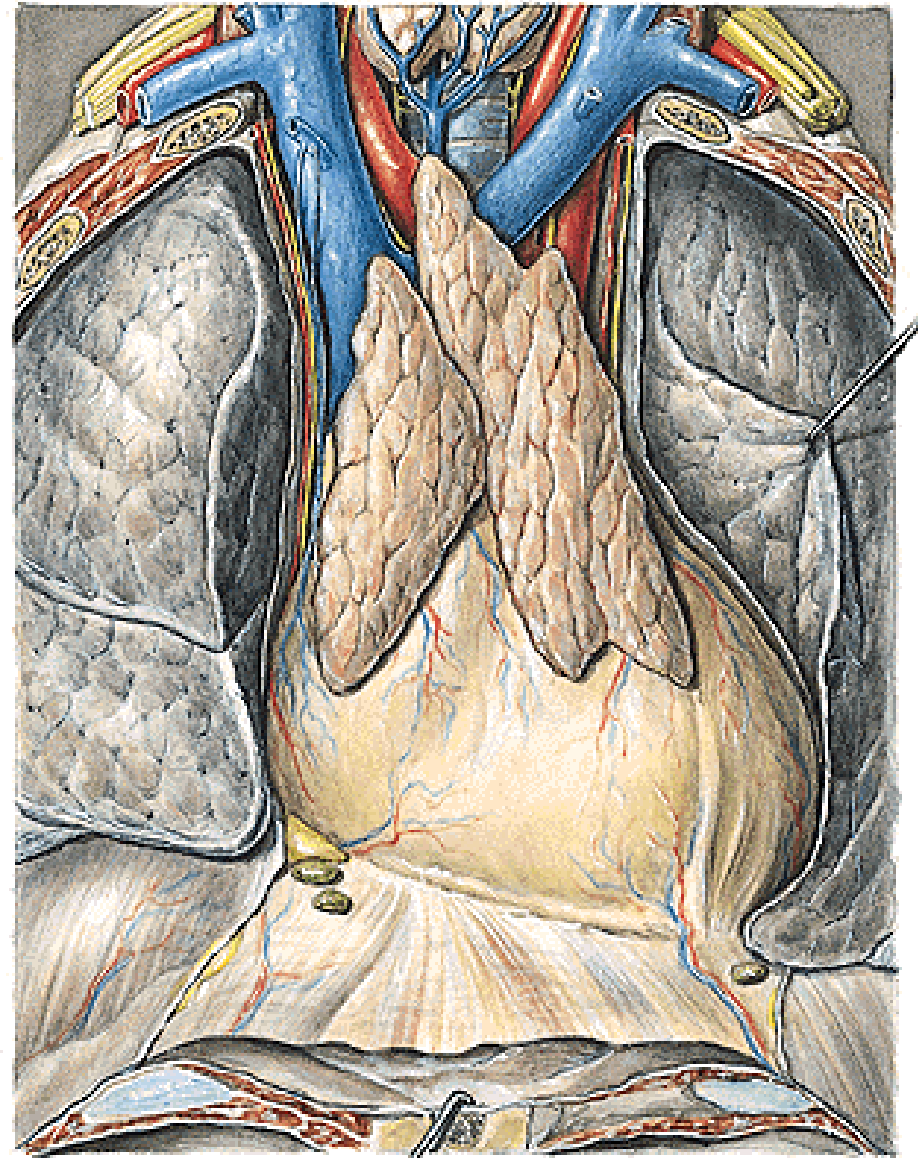
MEDIASTINUM

- superius
- inferius - anterius
 - medium
 - posterius





THYMUS



MUSCULI THORACIS

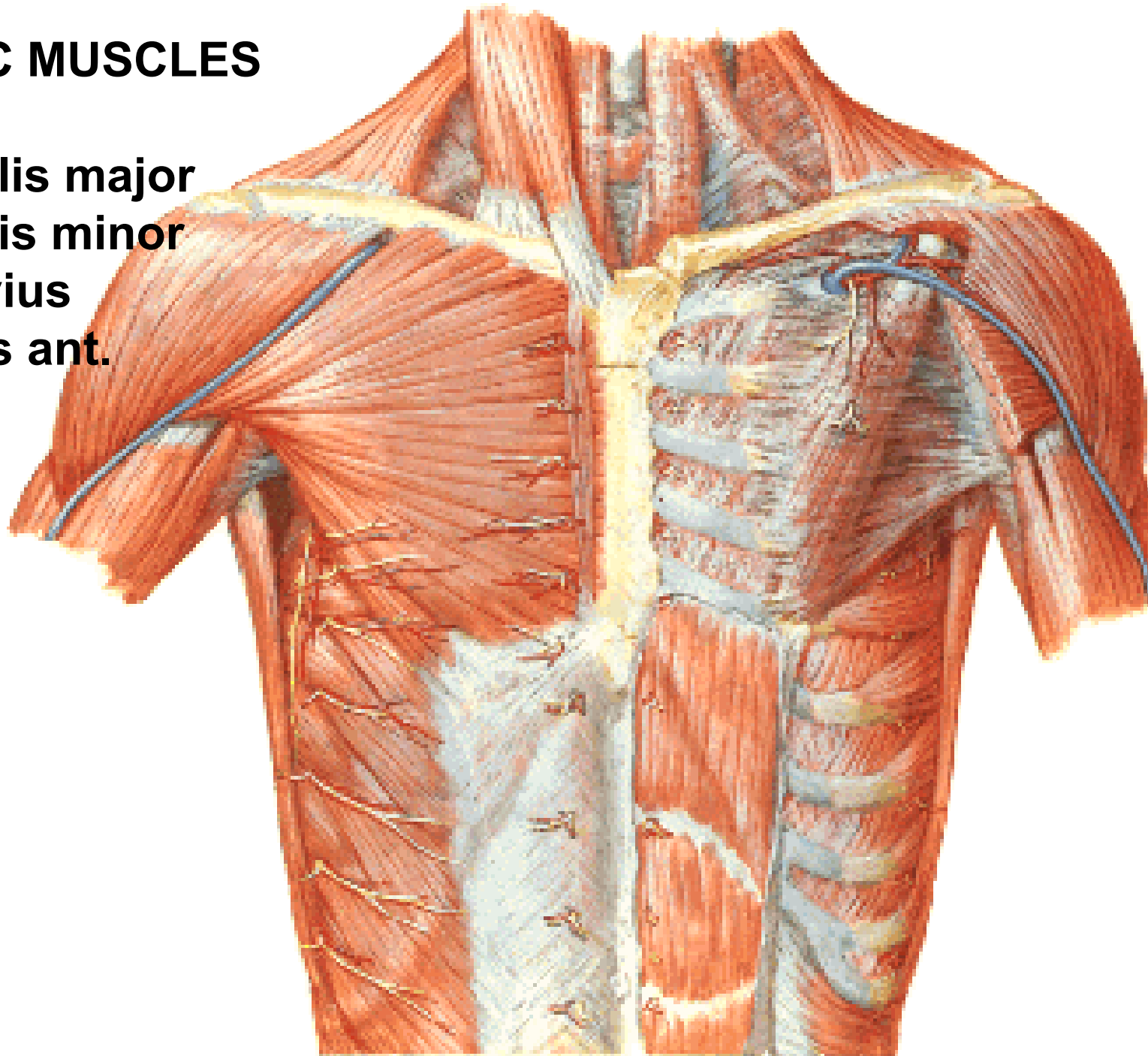
EXTRINSIC MUSCLES

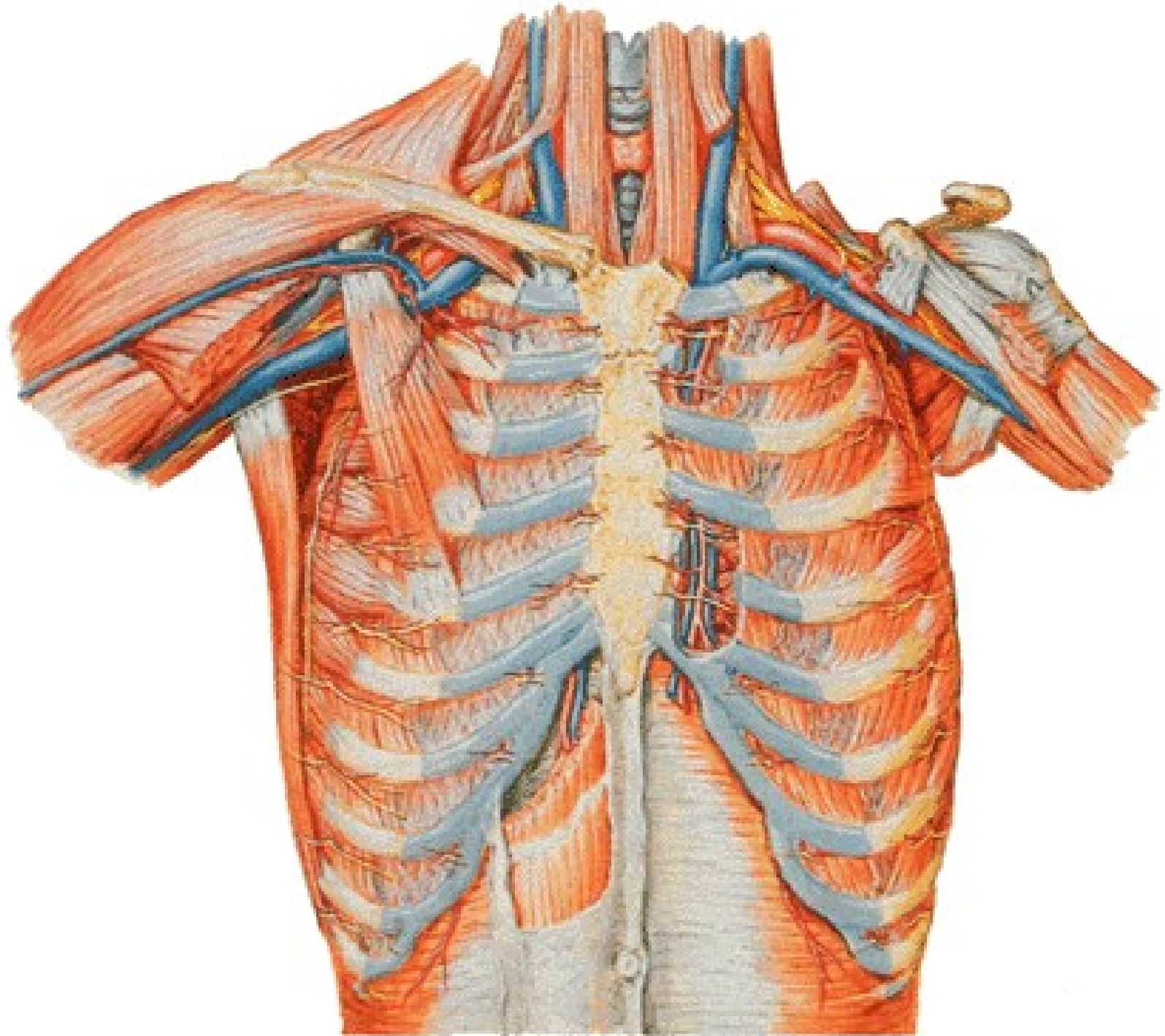
M. pectoralis major

M. pectoralis minor

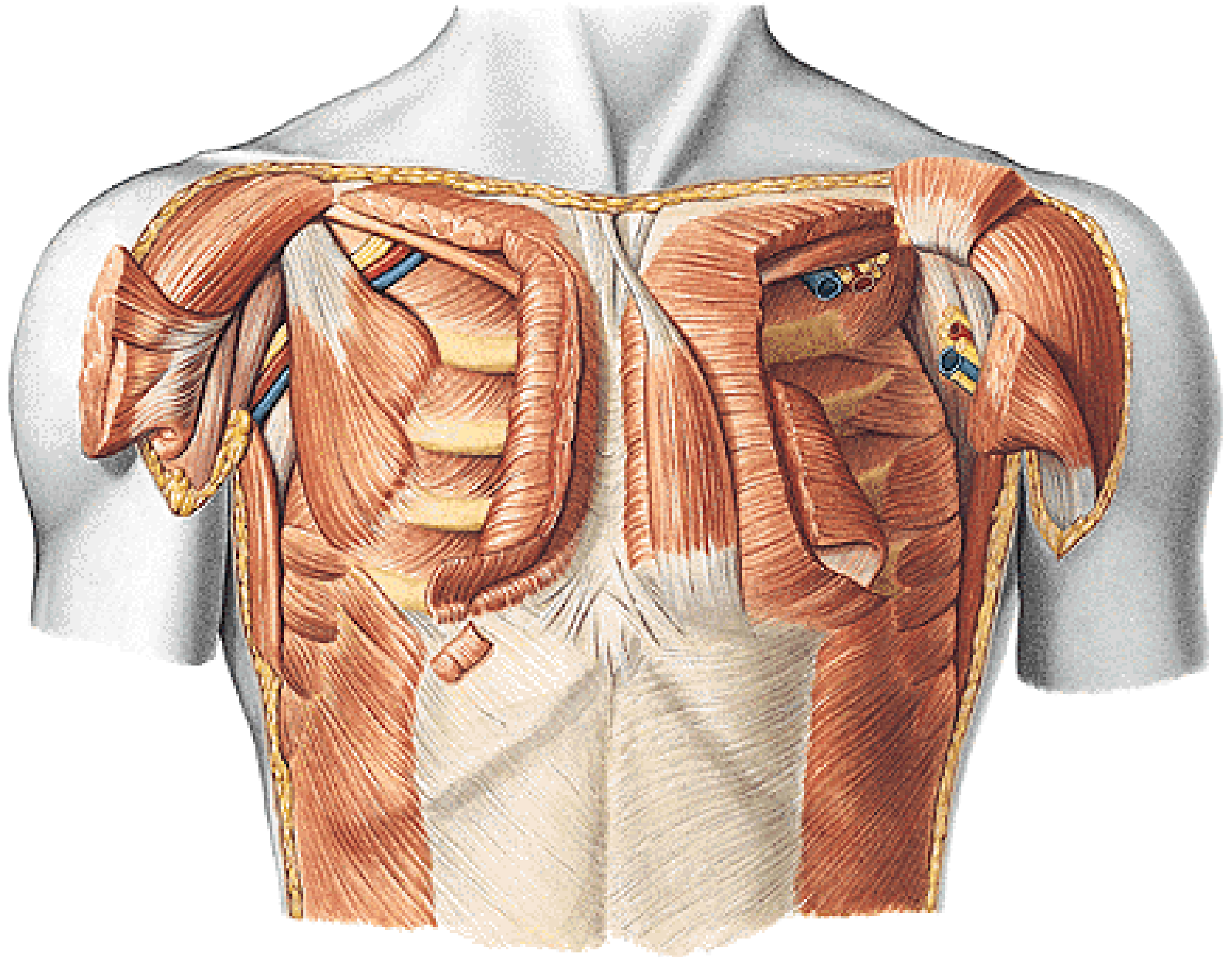
M. subclavius

M. serratus ant.





M. sternalis



INTRINSIC MUSCLES

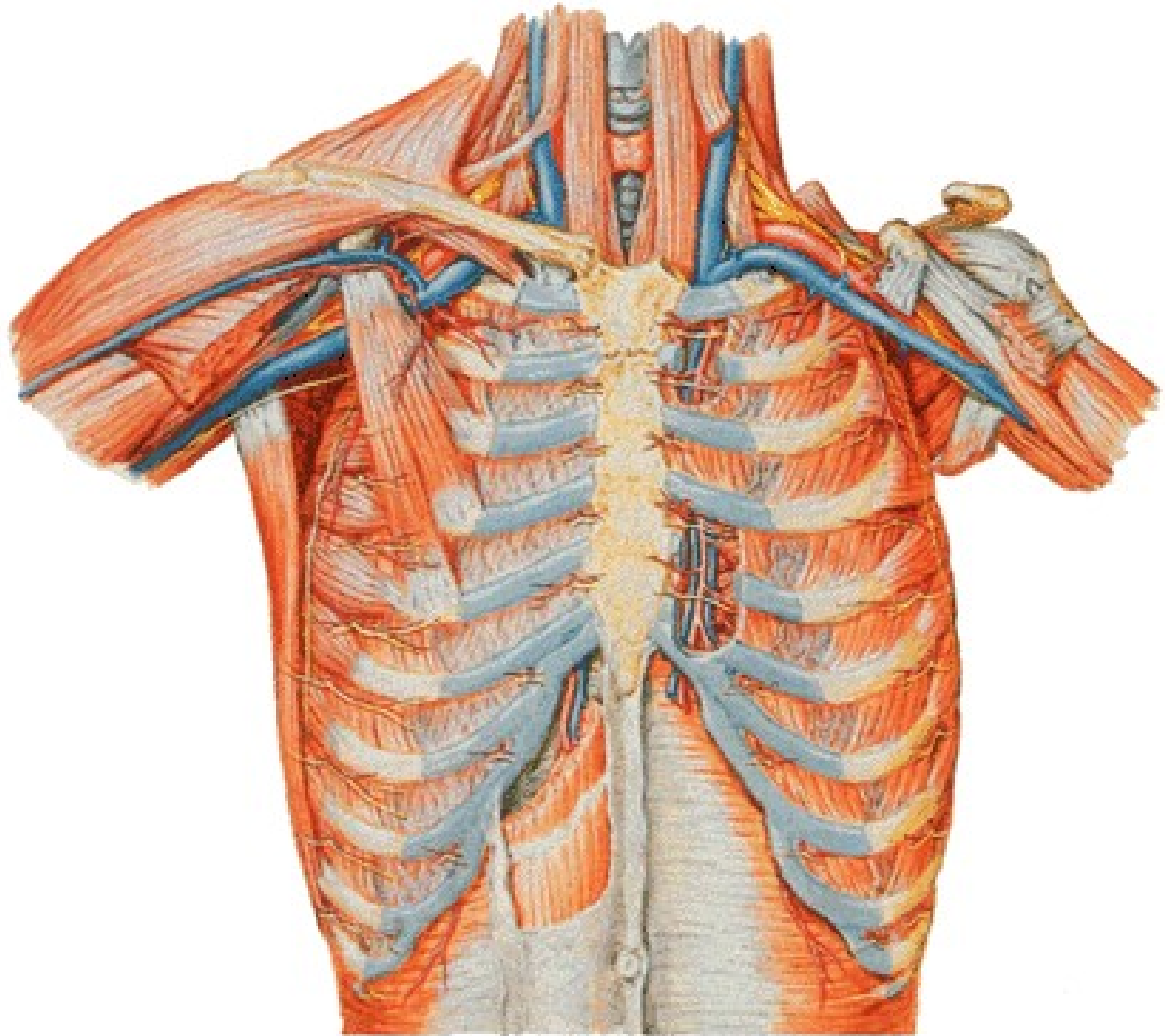
M. intercostales externi

M. intercostales interni

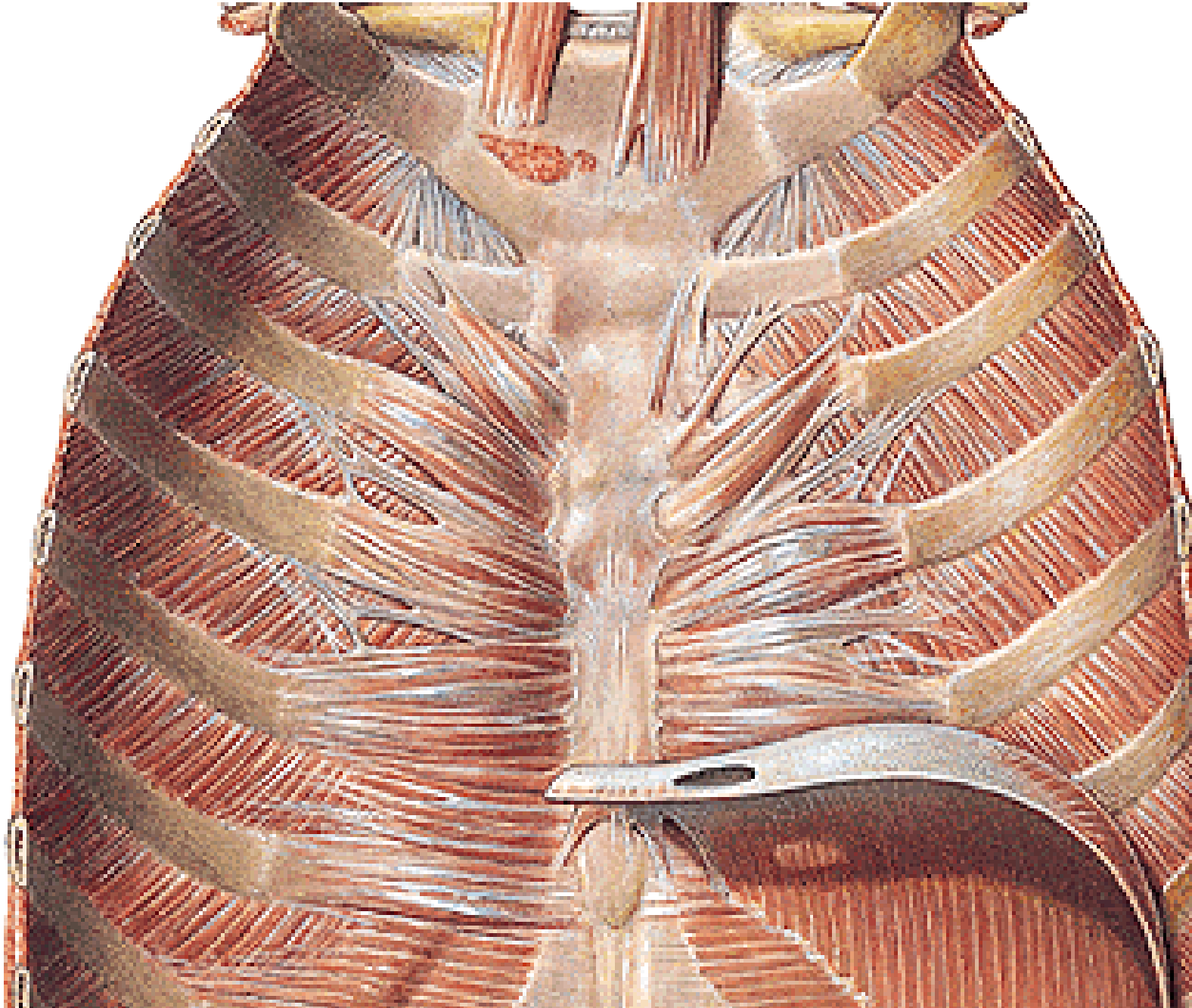
M. intercostales intimi

M. subcostales





M. transversus thoracis



DIAPHRAGM

Centrum tendineum

- foramen VCI

Pars sternalis

Pars costalis

Pars lumbalis

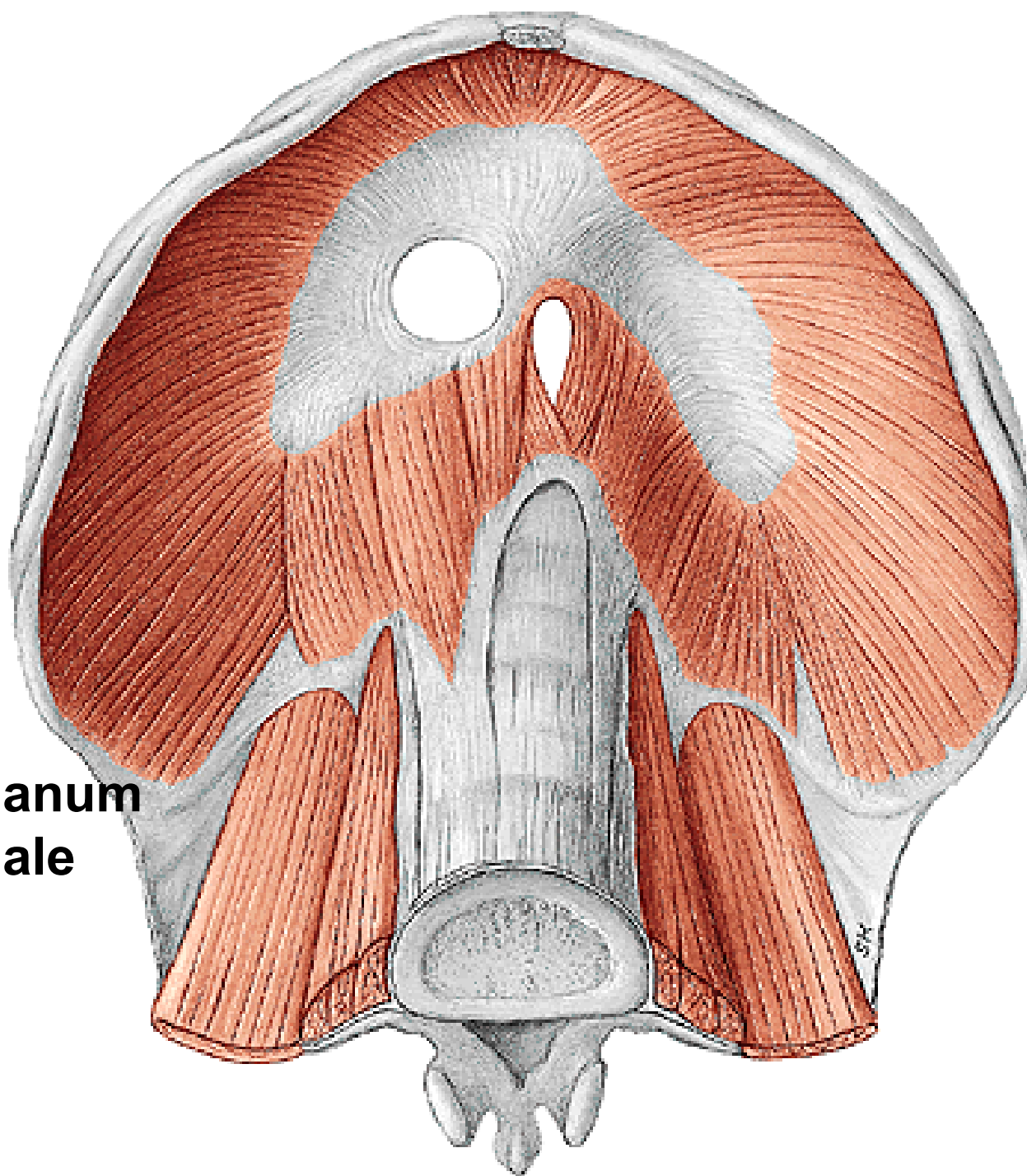
- crus dextrum

- crus sinistrum

- lig. arcuatum medianum

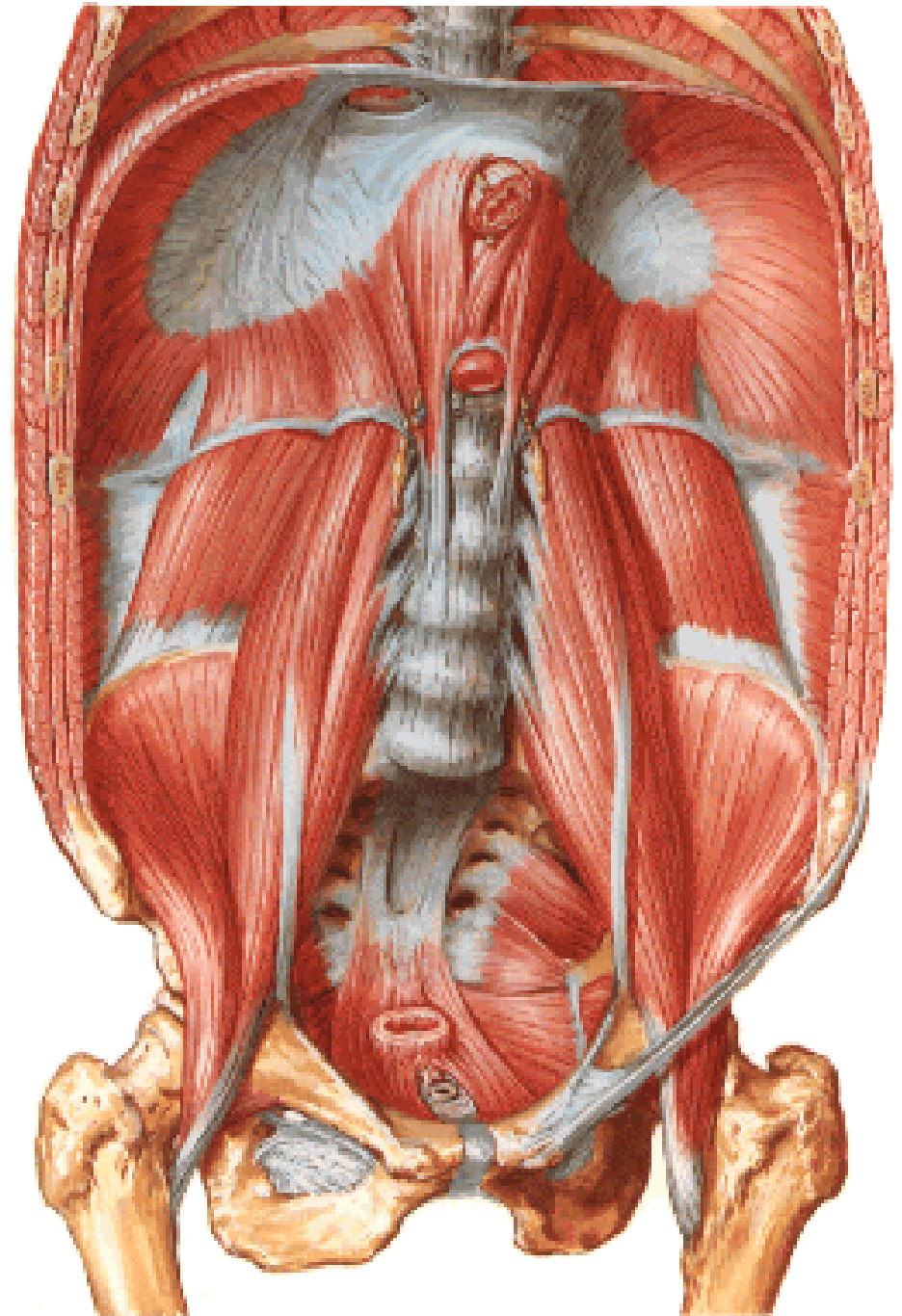
- lig. arcuatum mediale

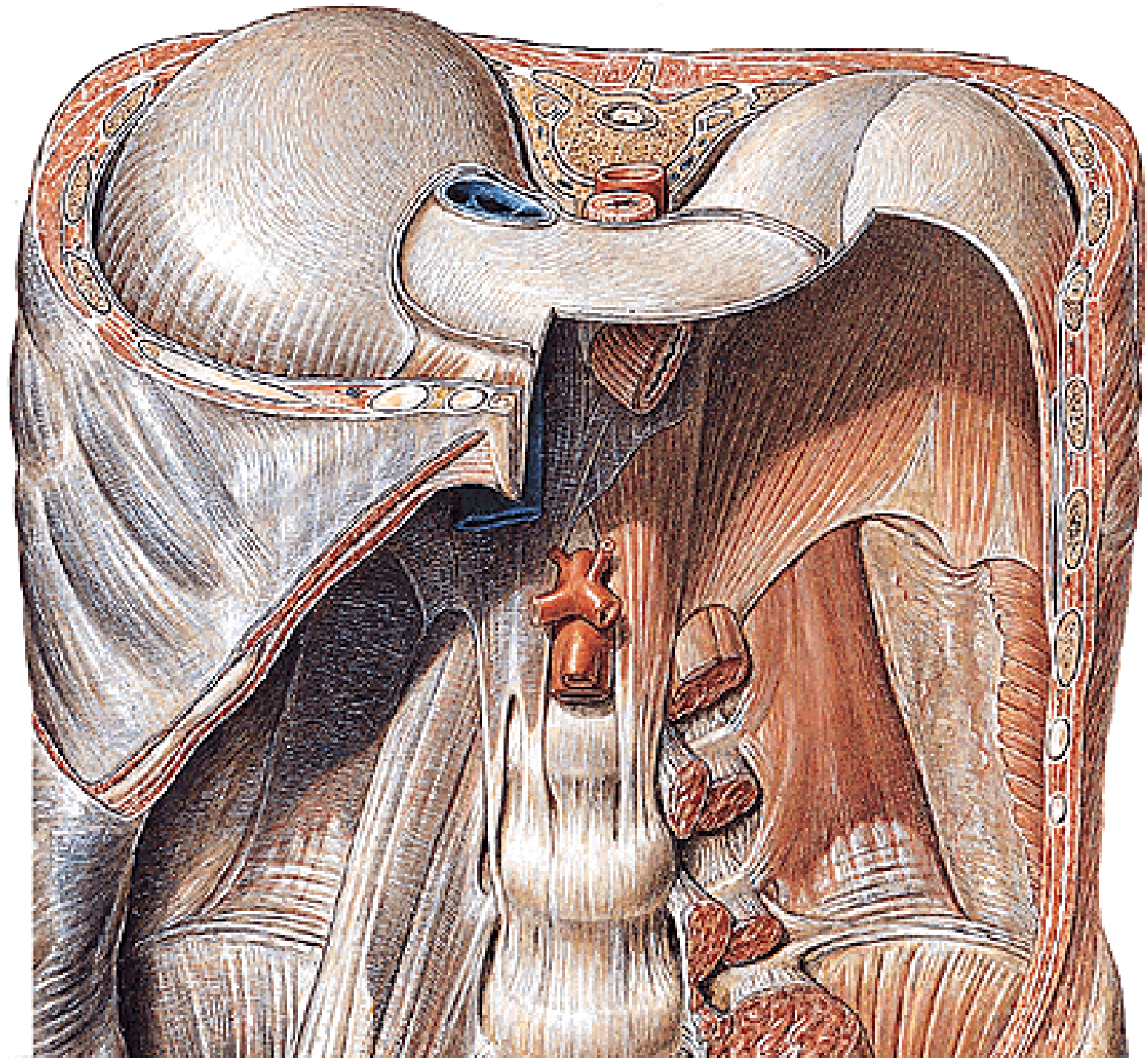
- lig. arcuatum lat.



Hiatus esophageus

Hiatus aorticus





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