

ARTERIES

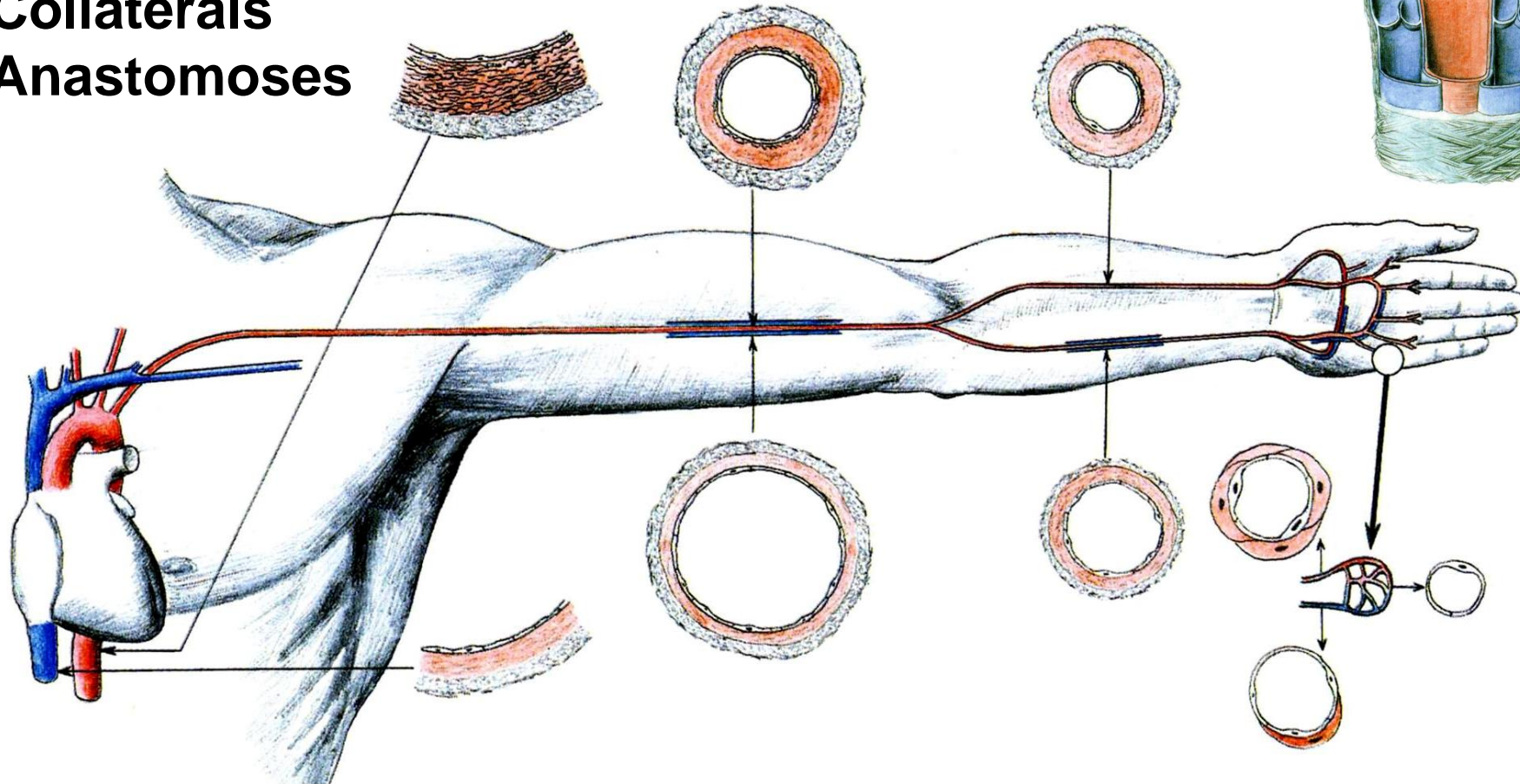
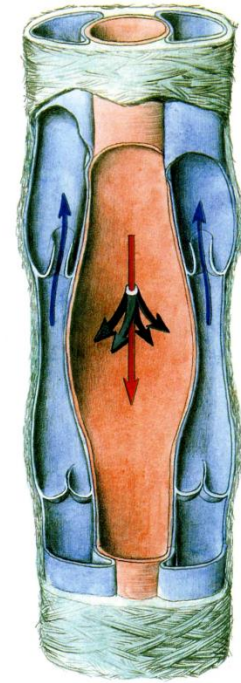
Arteriae
Arteriolae
Vasa capillaria
(sinusoids)

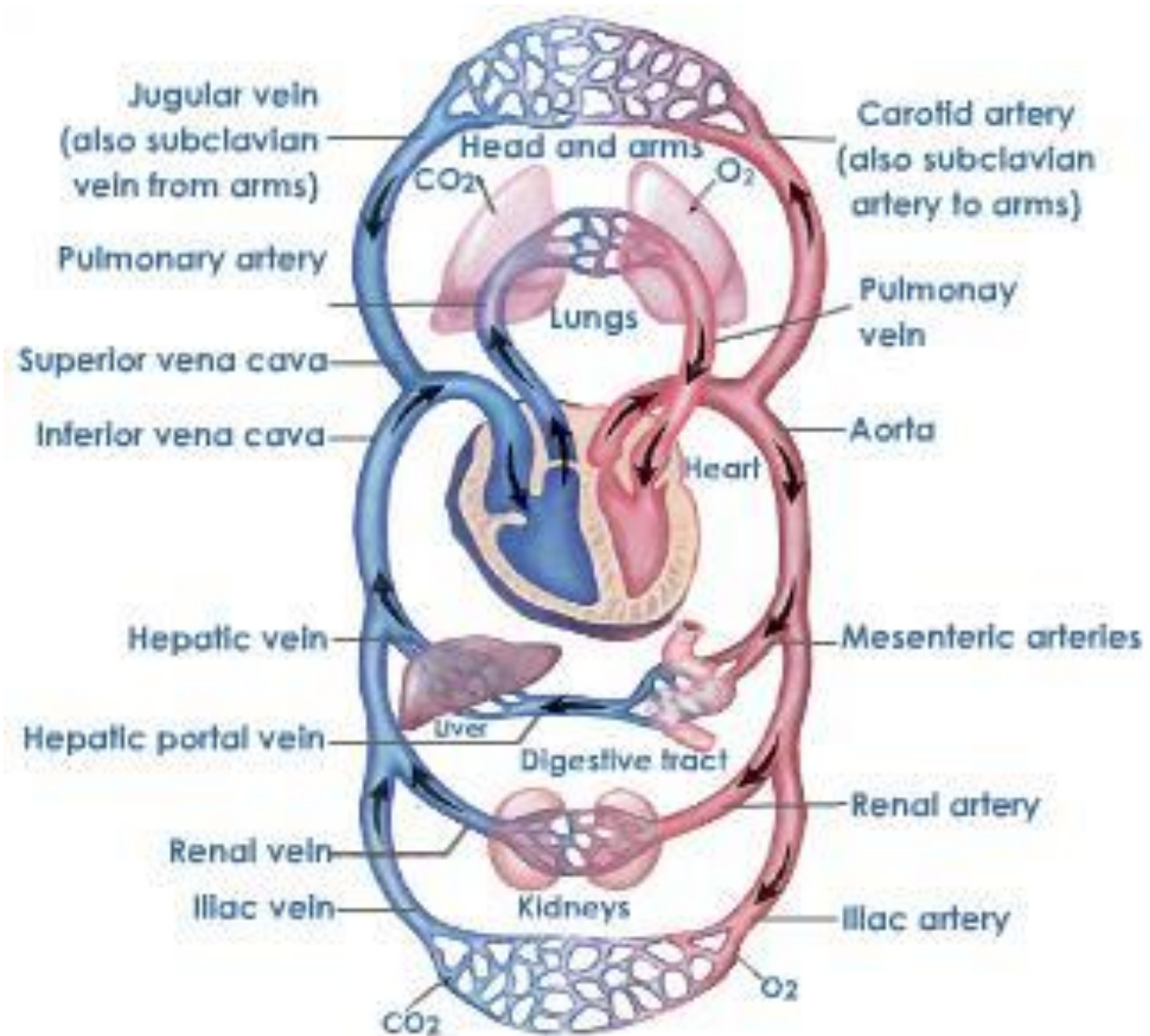
Venulae
Venae

Tunica intima
Tunica media
Tunica adventitia

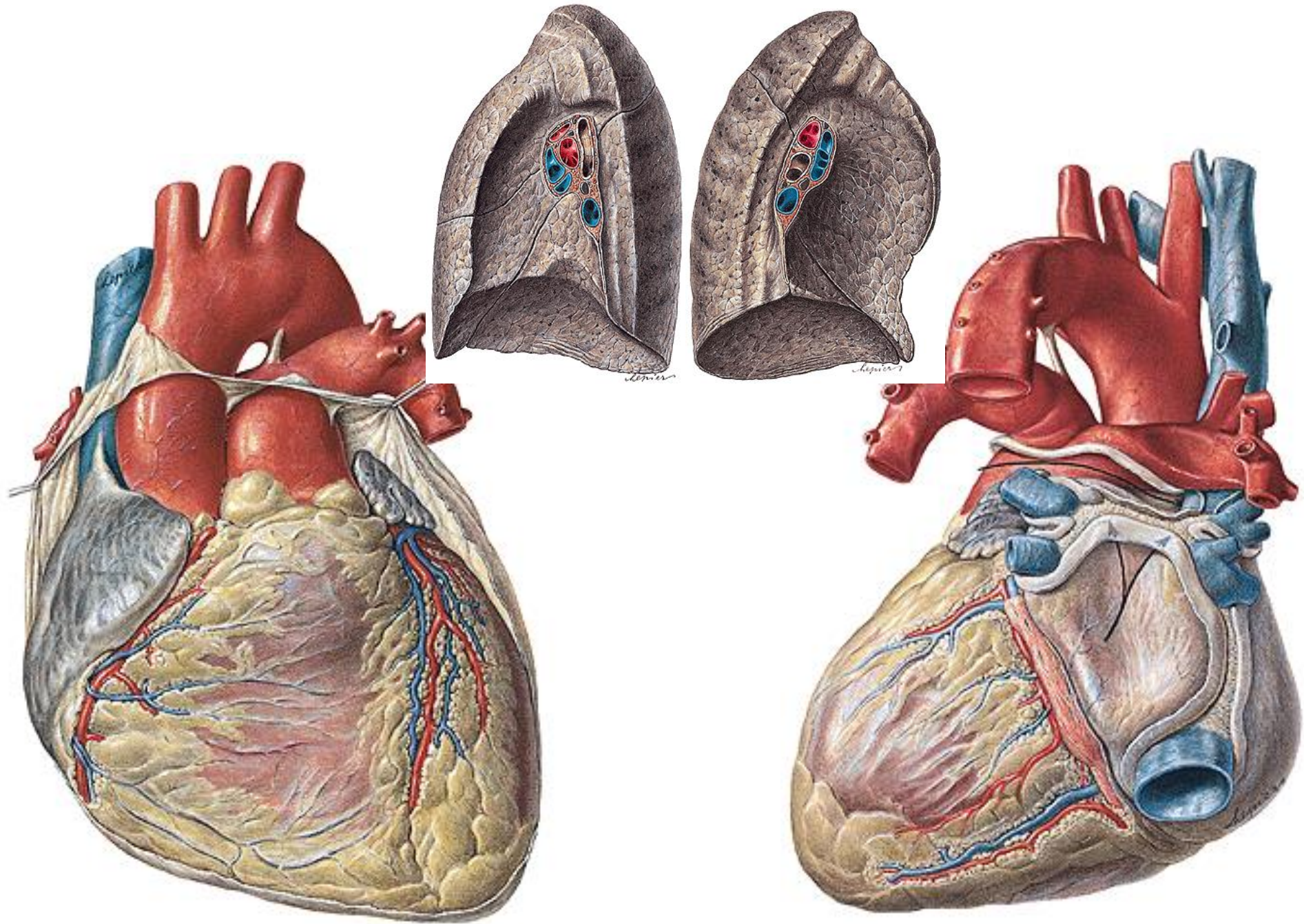
Vasa vasorum

Collaterals
Anastomoses



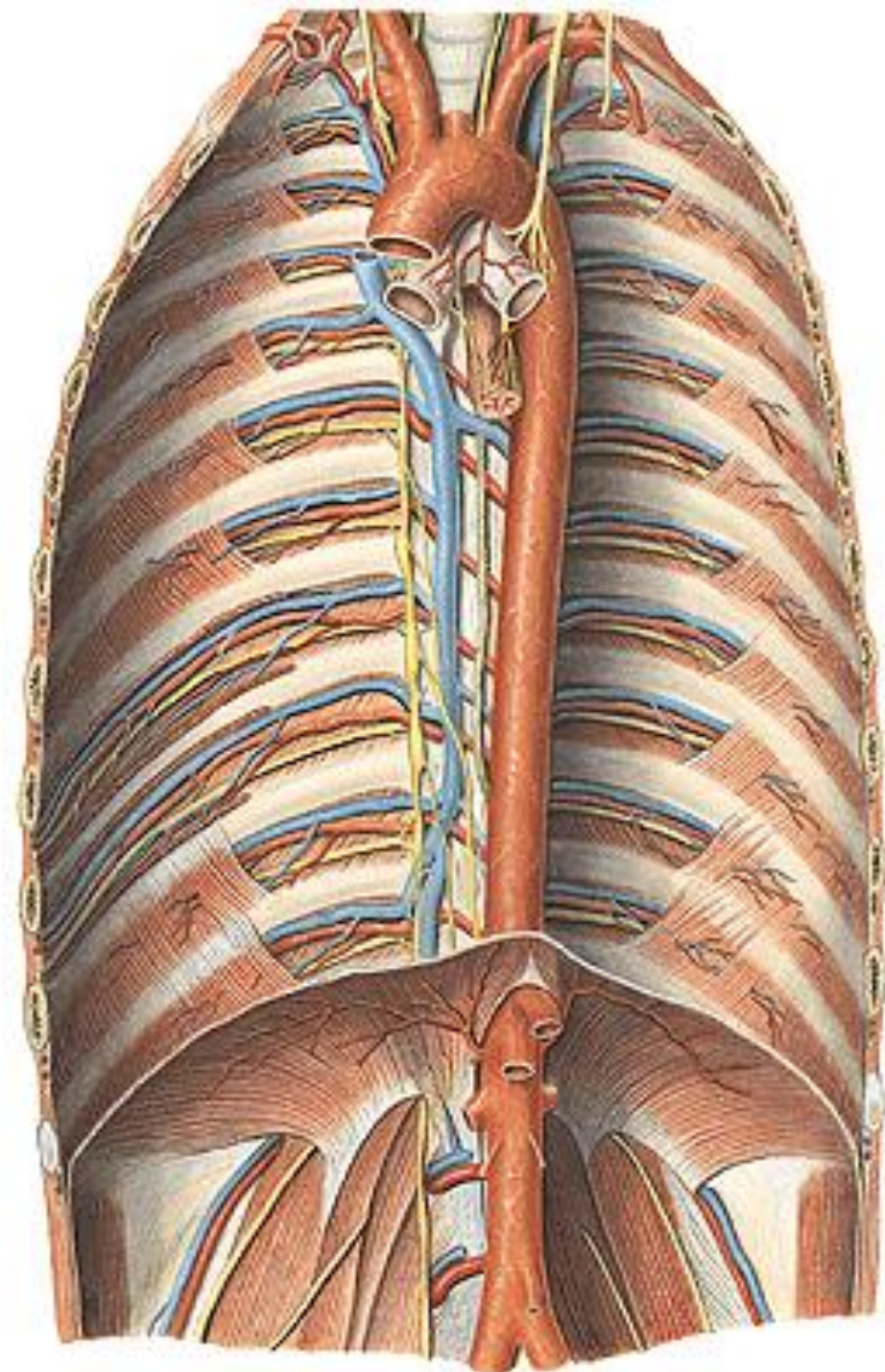


TRUNCUS PULMONALIS – a. pulmonalis dx. et sin.



AORTA

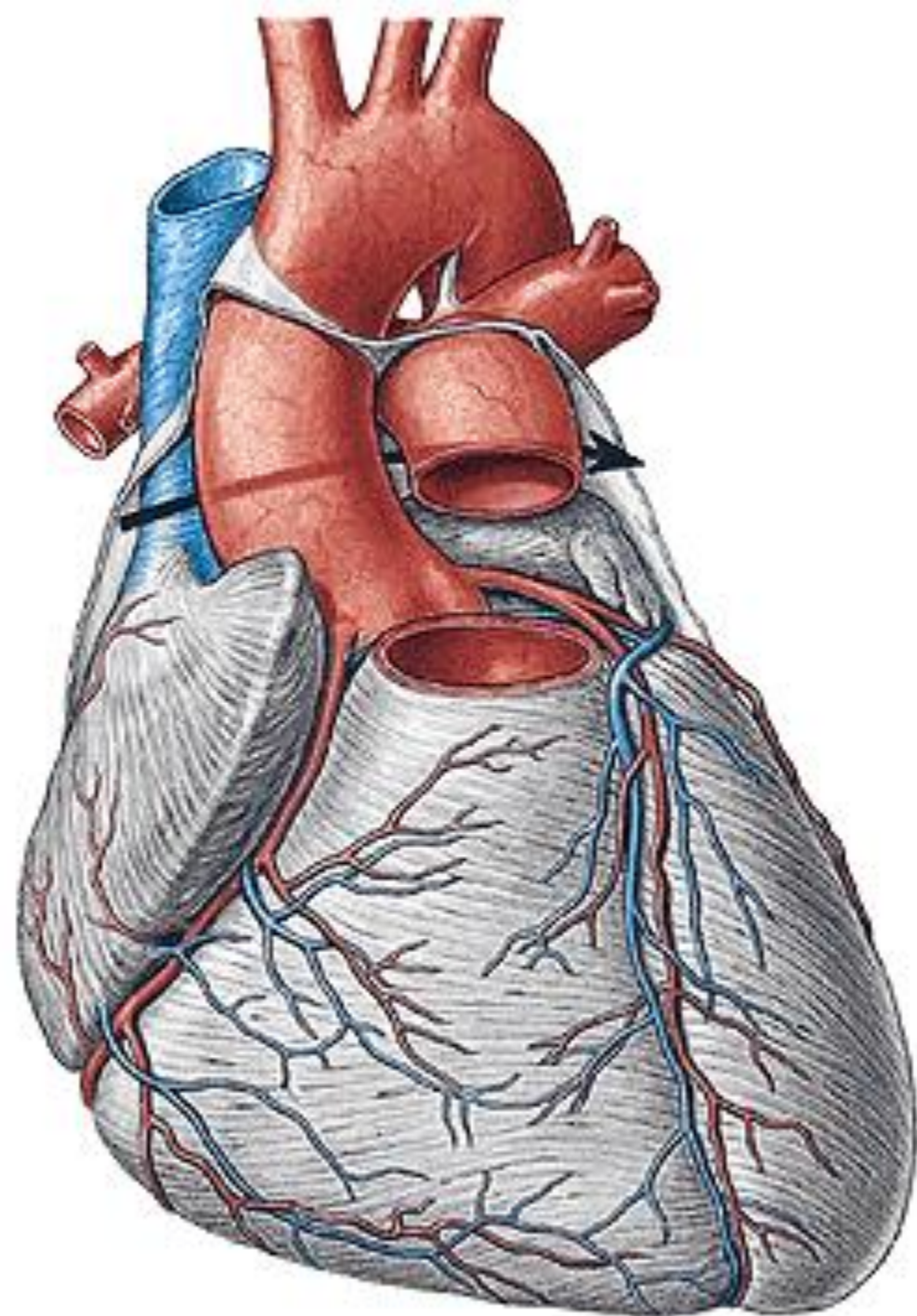
- AORTA ASCENDENS
- ARCUS AORTAE
- AORTA DESCENDENS
 - Aorta thoracica
 - Aorta abdominalis



AORTA ASCENDENS

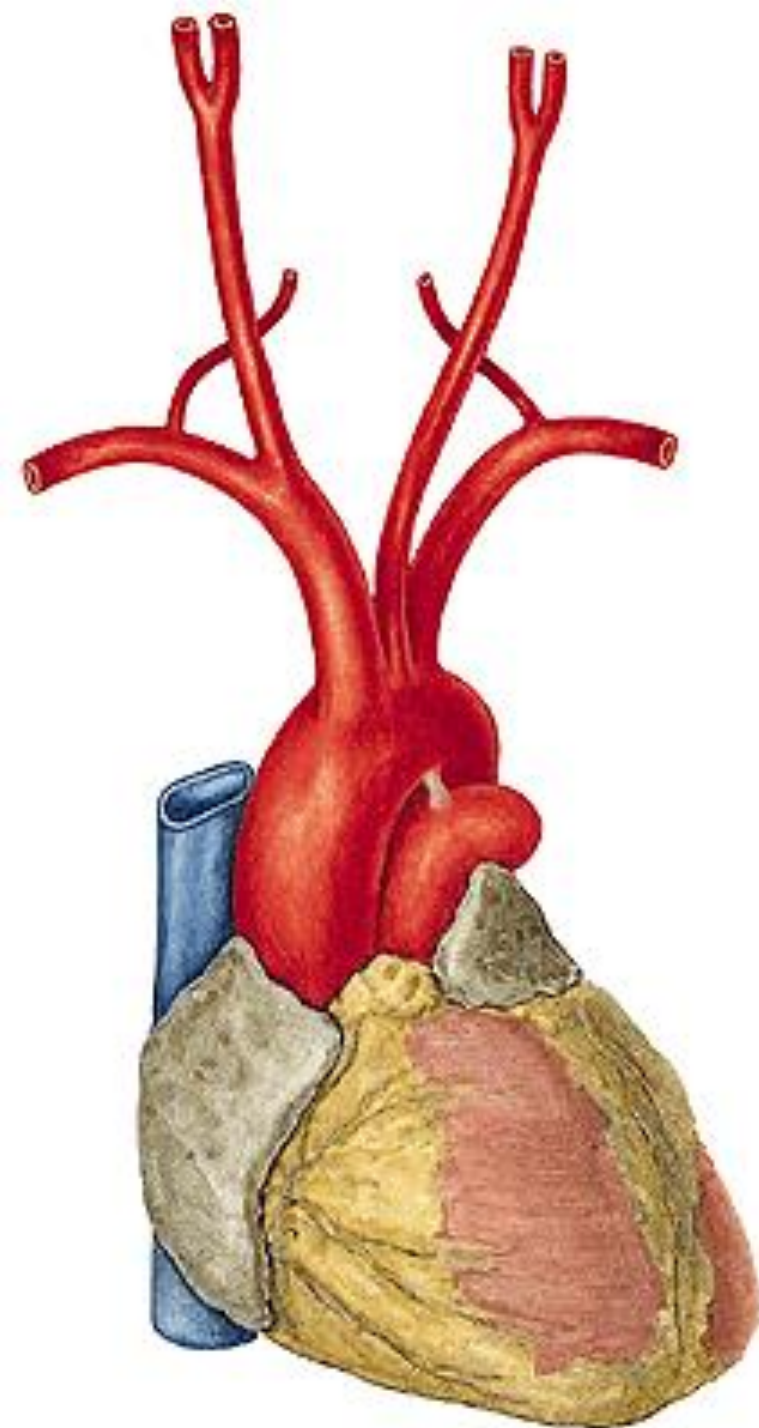
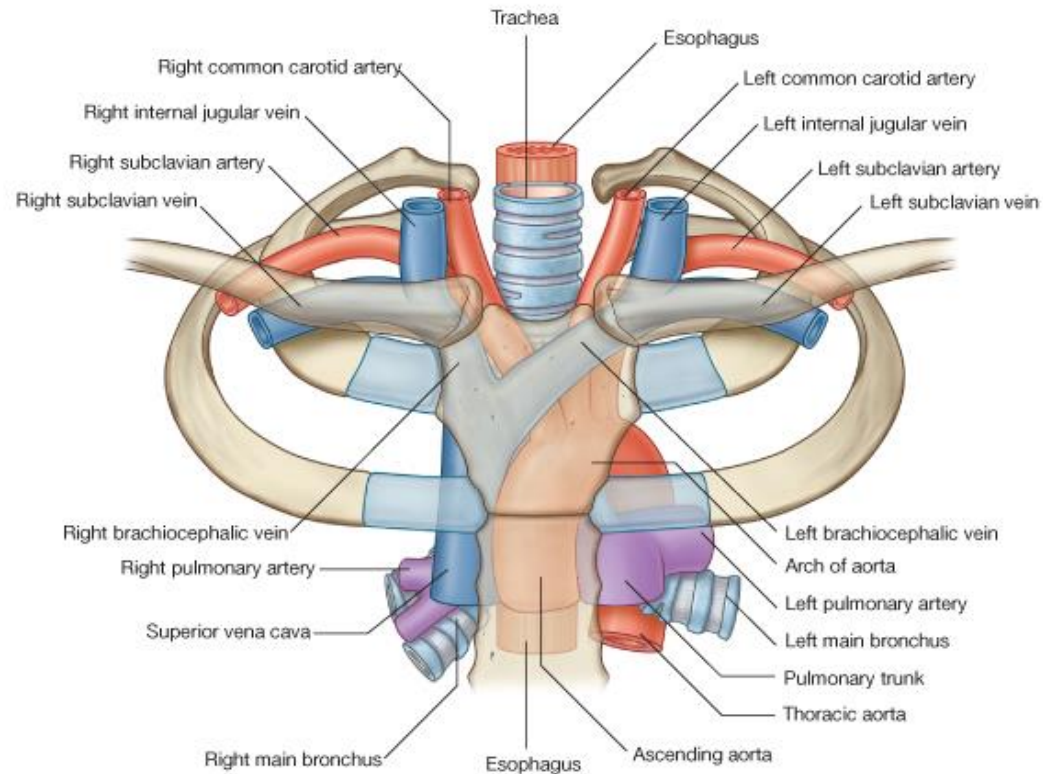
Bulbus aortae

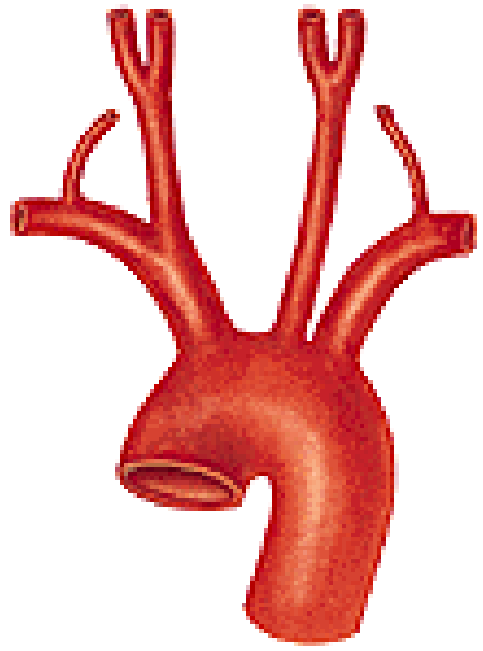
- a. coronaria cordis dx.
- a. coronaria cordis sin.



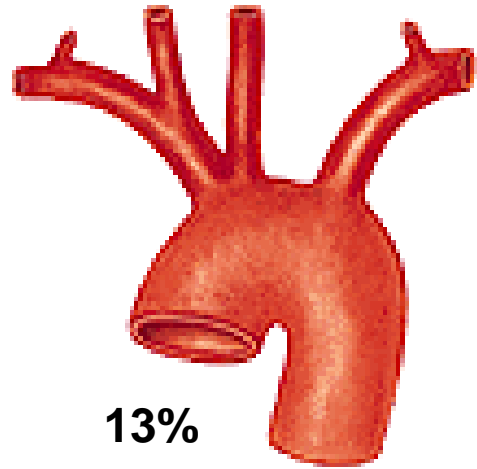
ARCUS AORTAE

- truncus brachiocephalicus
- a. carotis communis sin.
- a. subclavia sin.

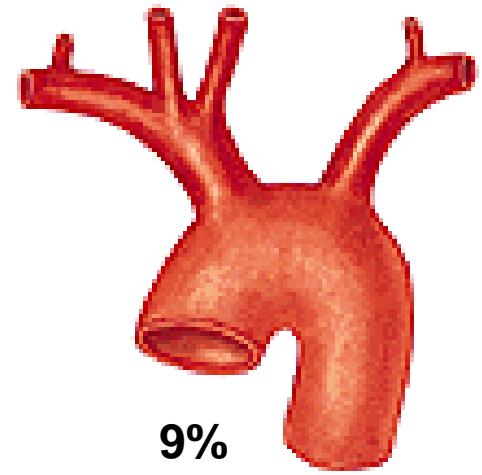




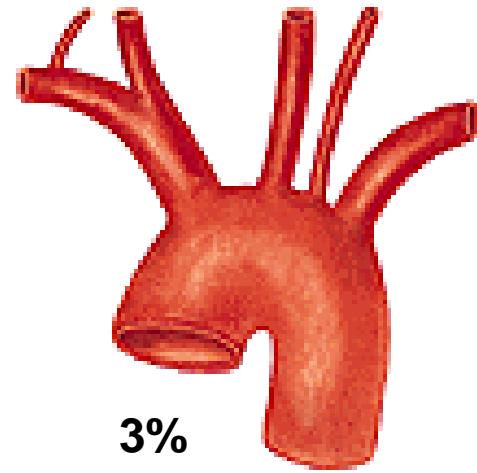
70%



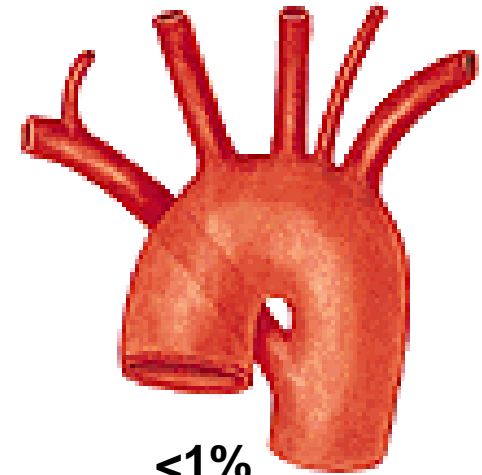
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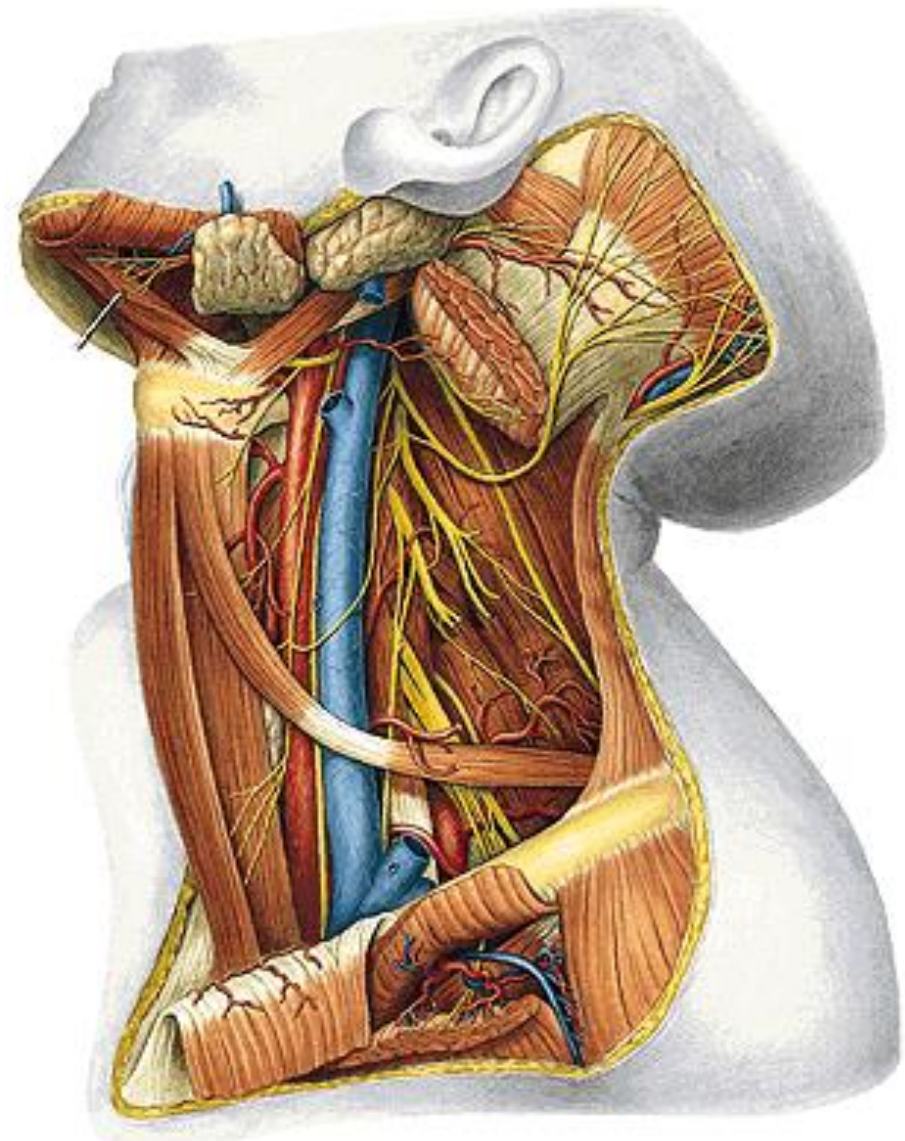
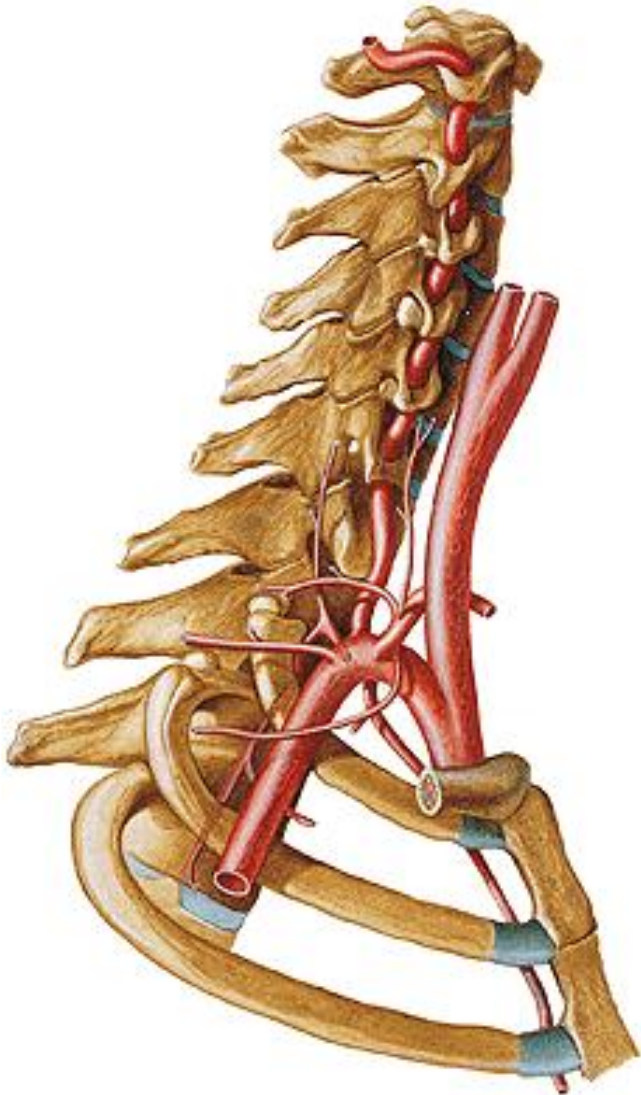


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A. CAROTIS COMMUNIS – a. carotis interna et externa



A. CAROTIS EXTERNA:

ventral branches:

- a. thyroidea sup.
- a. lingualis
- a. facialis

dorsal branches:

- a. occipitalis
- a. auricularis post.

medial branch:

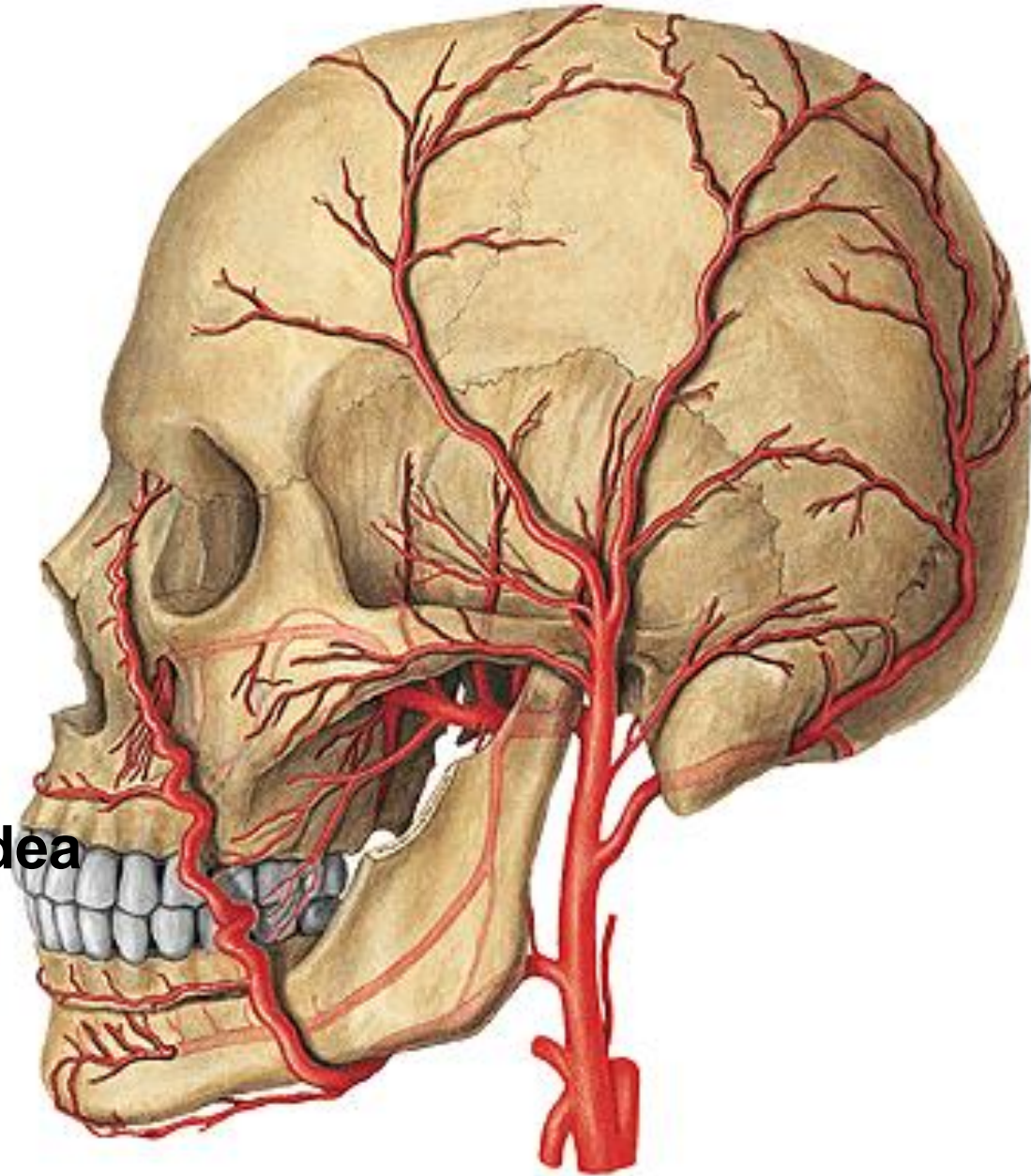
- a. pharyngea asc.

lateral branch:

- a. sternocleidomastoidea

terminal branches

- a. maxillaris
- a. temporalis spf.

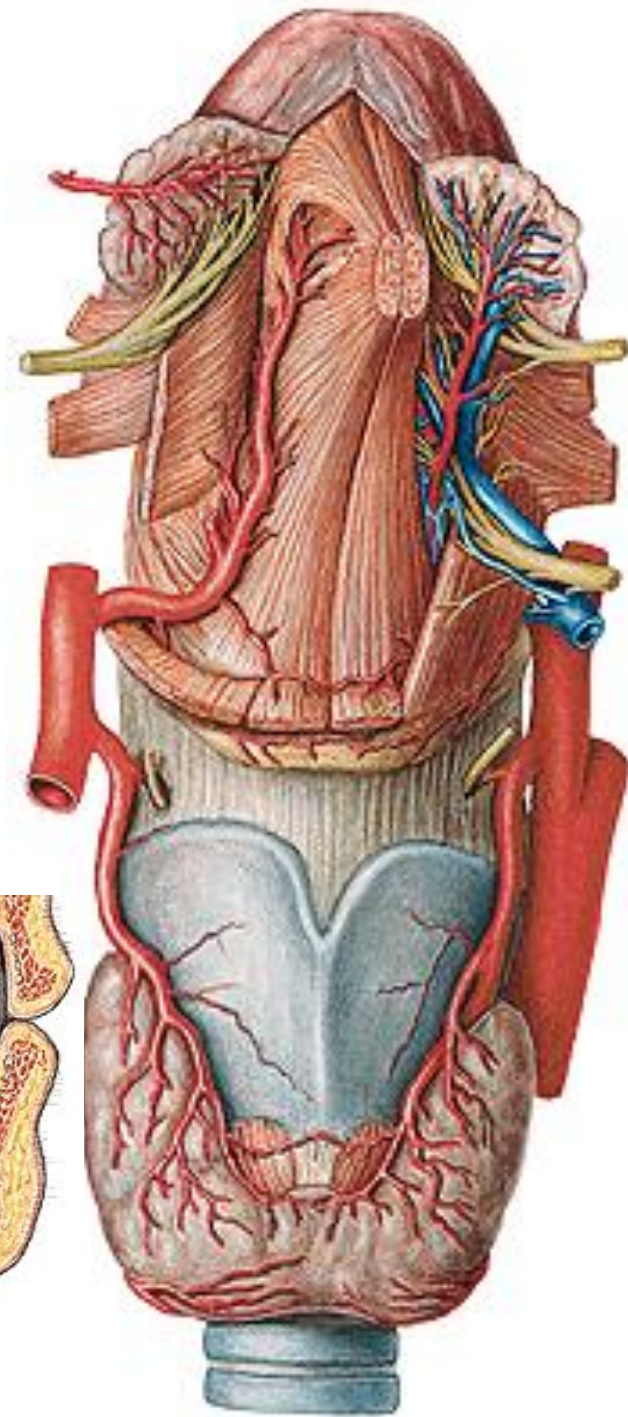
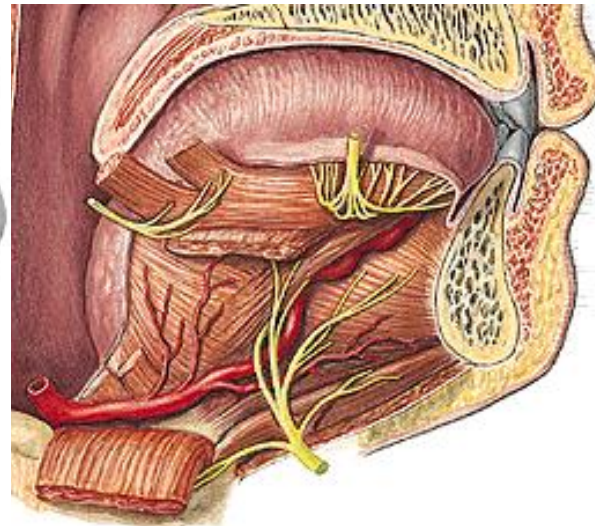
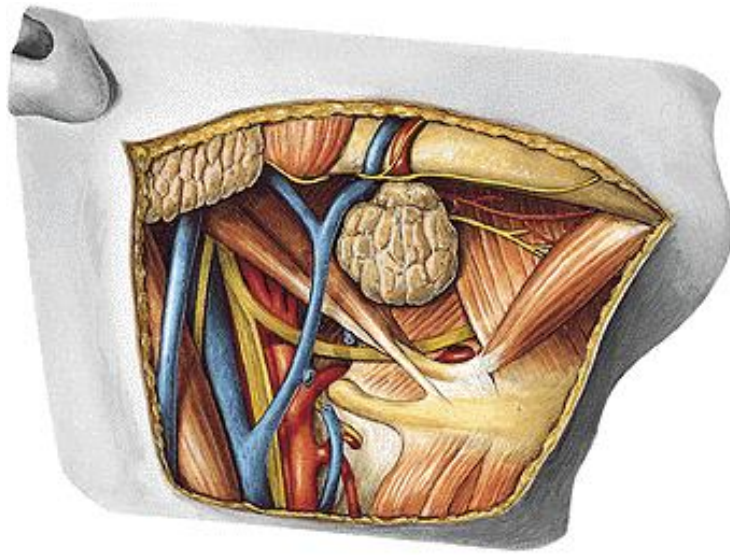


A. THYROIDEA SUP.:

- a. laryngea sup.
- rr. glandulares

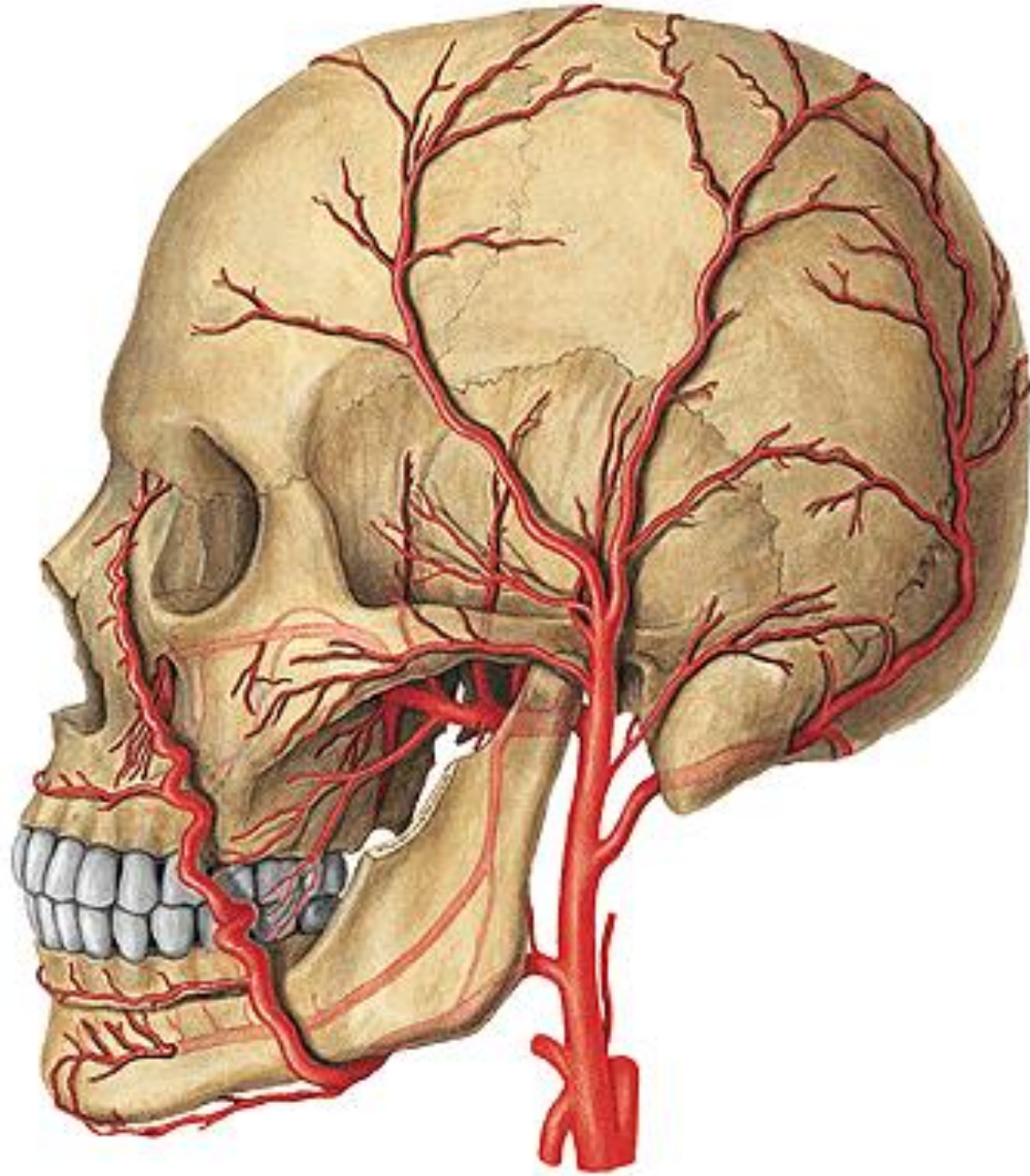
A. LINGUALIS:

- a. sublingualis
- rr. dorsales linguae
- a. profunda linguae



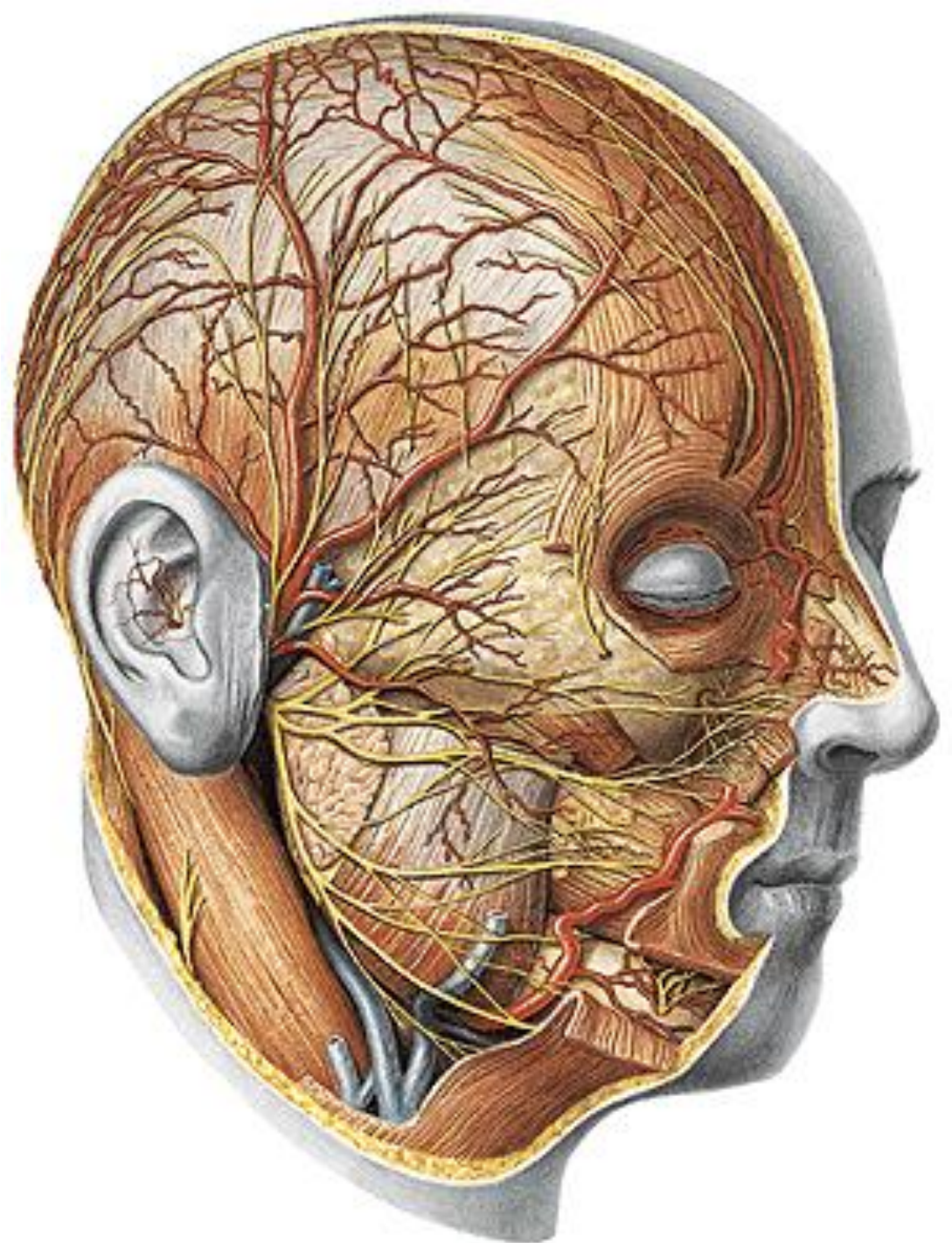
A.FACIALIS:

- a. palatina ascendens
- a. submentalis
- a. labialis sup. et inf.
(circulus arteriosus oris)
- a. angularis



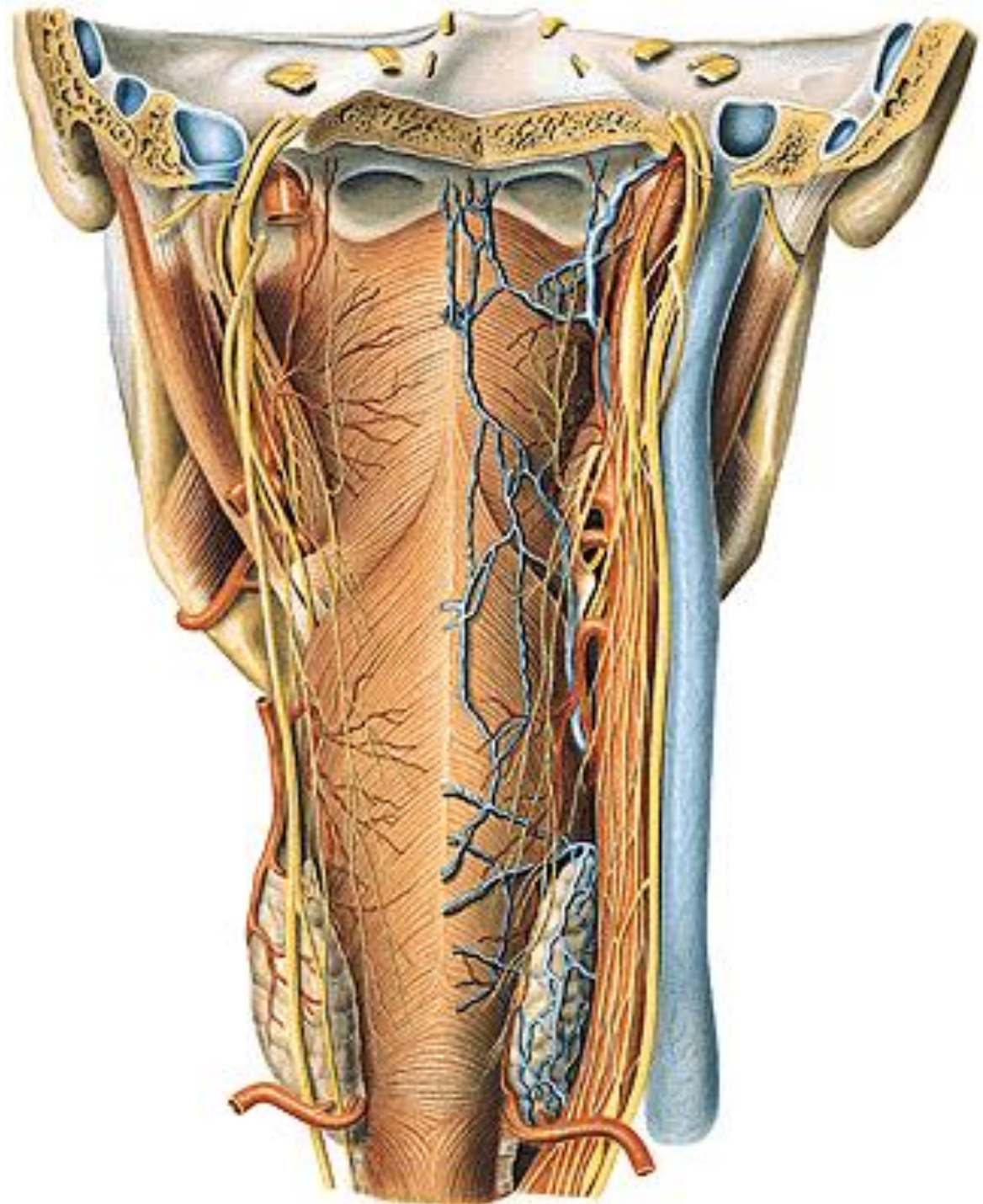
A. TEMPORALIS SPF.:

- **a. transversa faciei**
- **a. zygomaticoorbitalis**
- **r. frontalis**
- **r. parietalis**

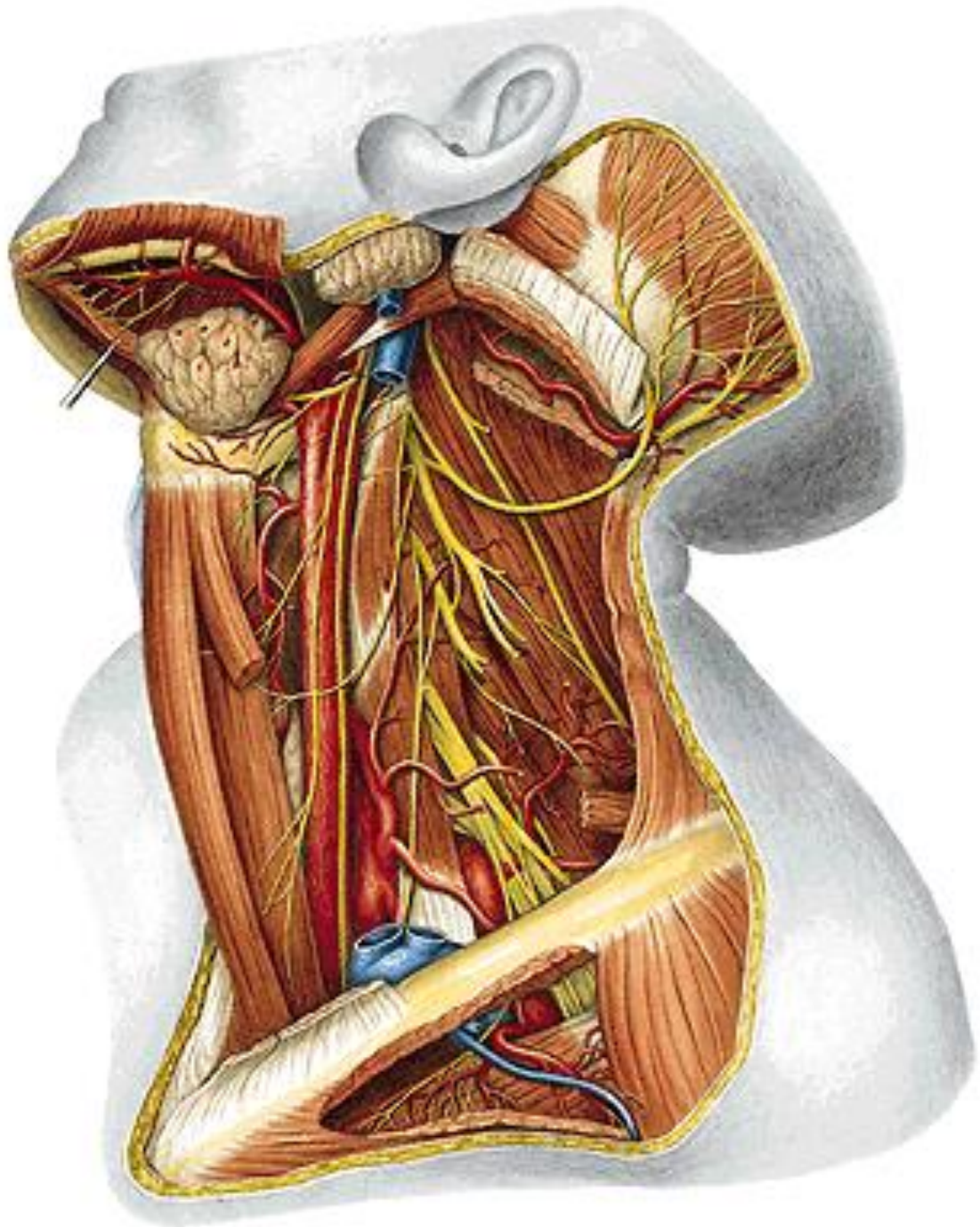


A. PHARYNGEA ASC.:

- rr. pharyngei
- a. meningea post.



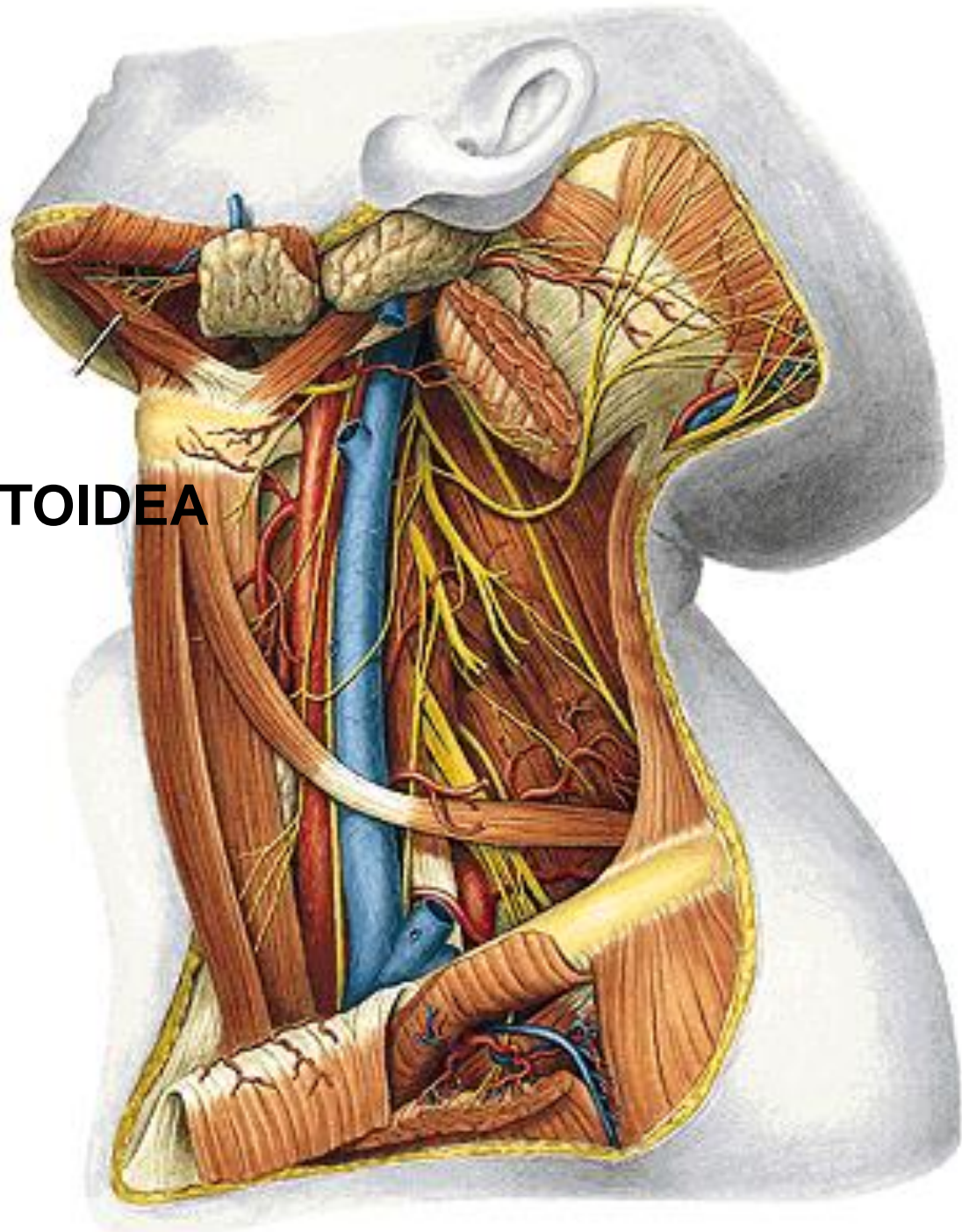
A. OCCIPITALIS:
- rr. musculares
- rr. occipitales



A. AURICULARIS POST.:

- rr. musculares
- a. stylomastoidea

A. STERNOCLEIDOMASTOIDEA



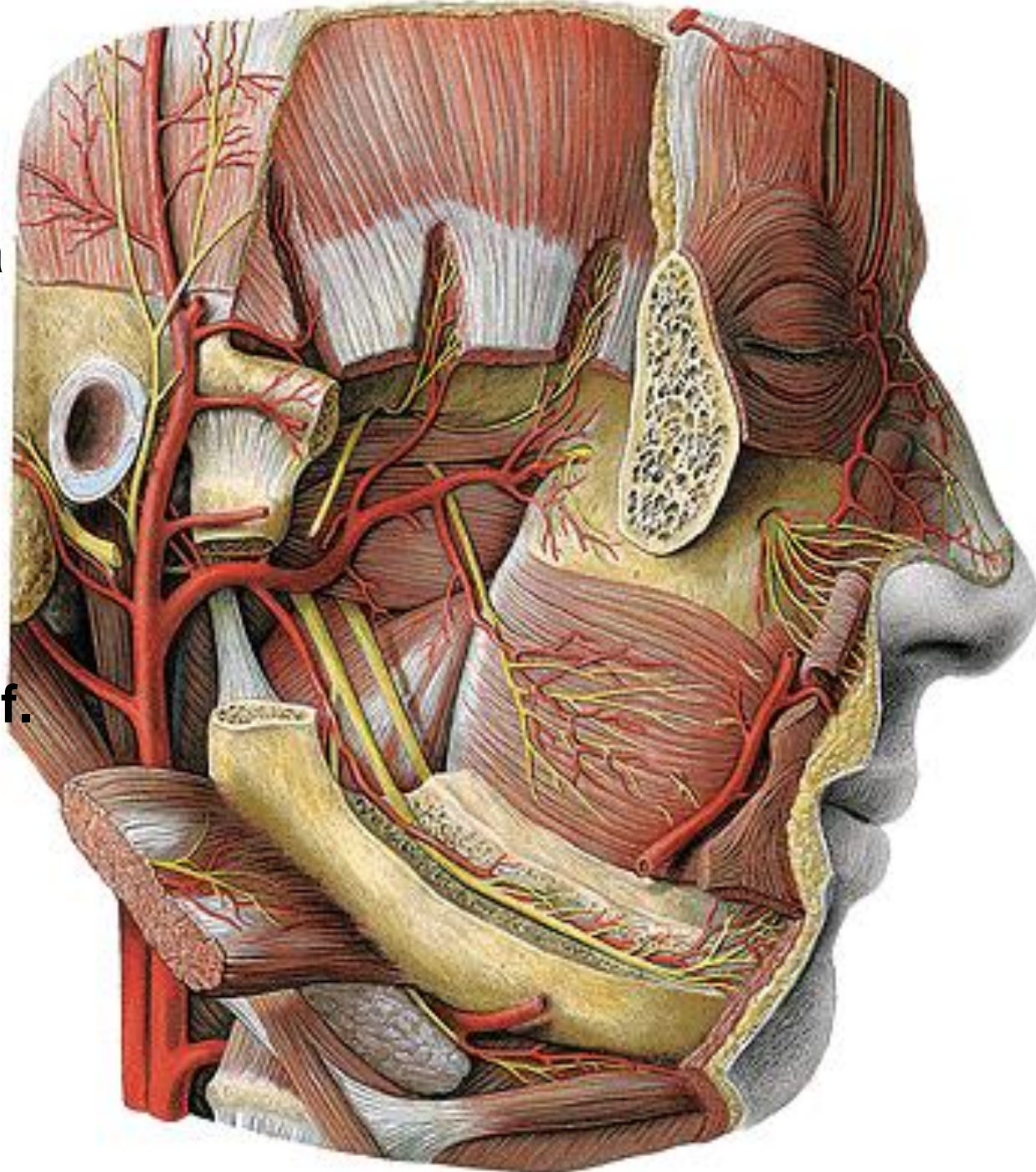
A. MAXILLARIS:

Pars mandibularis:

- a. meningea media
- a. alveolaris inf.
 - rr. dentales
 - a. mentalis

Pars pterygoidea:

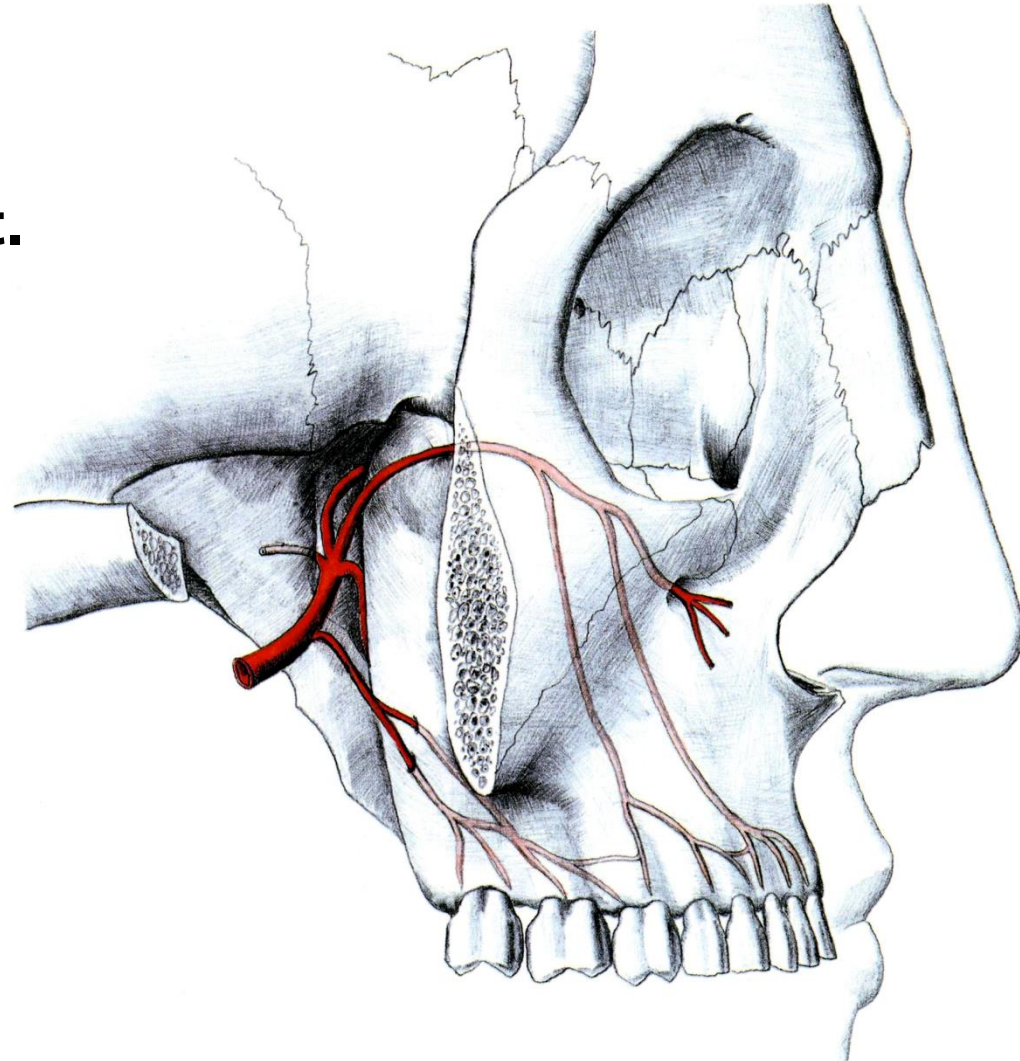
- a. masseterica
- aa. temporales prof.
- rr. pterygoidei
- a. bucalis



A. MAXILLARIS (continuation):

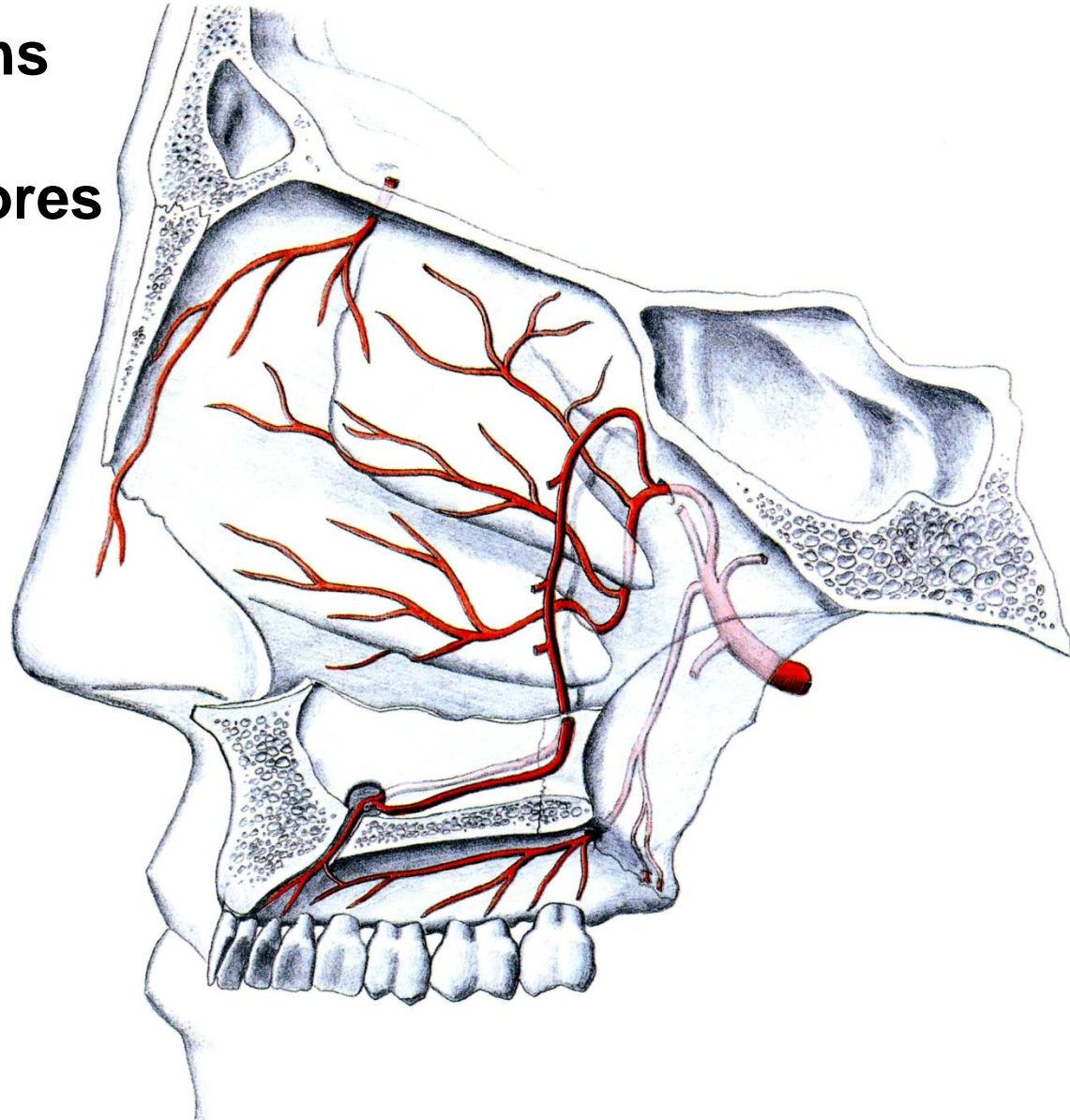
Pars pterygopalatina:

- a. alveolaris sup. post.
- a. infraorbitalis
 - aa. alveolares sup. ant.



A. MAXILLARIS (continuation):

- a. palatina descendens
 - a. palatina major
 - aa. palatinae minores
- a. sphenopalatina

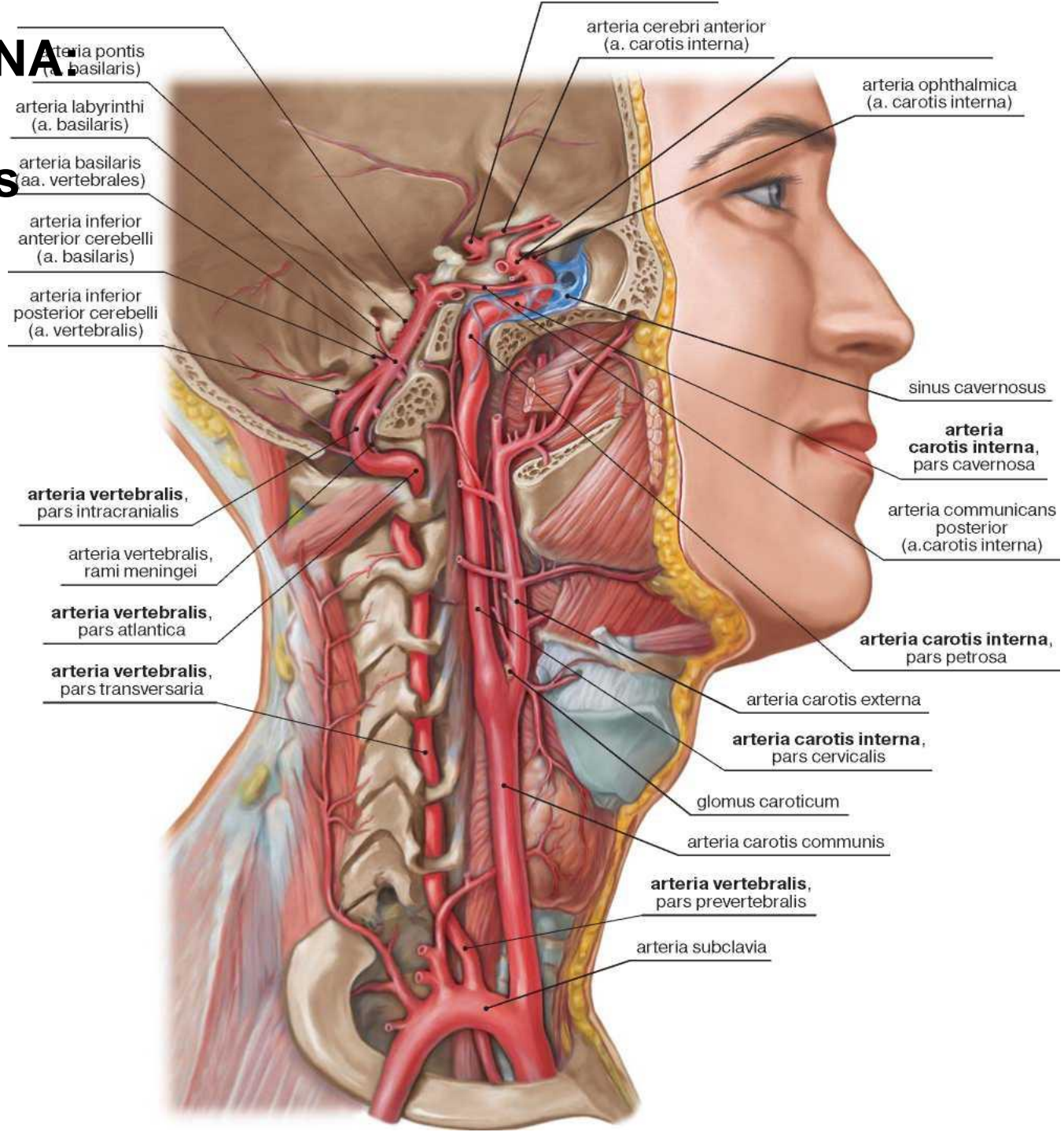


A. CAROTIS INTERNA:

- aa. hypophysiales
- a. ophthalmica
- a. cerebri ant.
- a. cerebri media

Carotid syphon

Sinus caroticus
Glomus caroticum

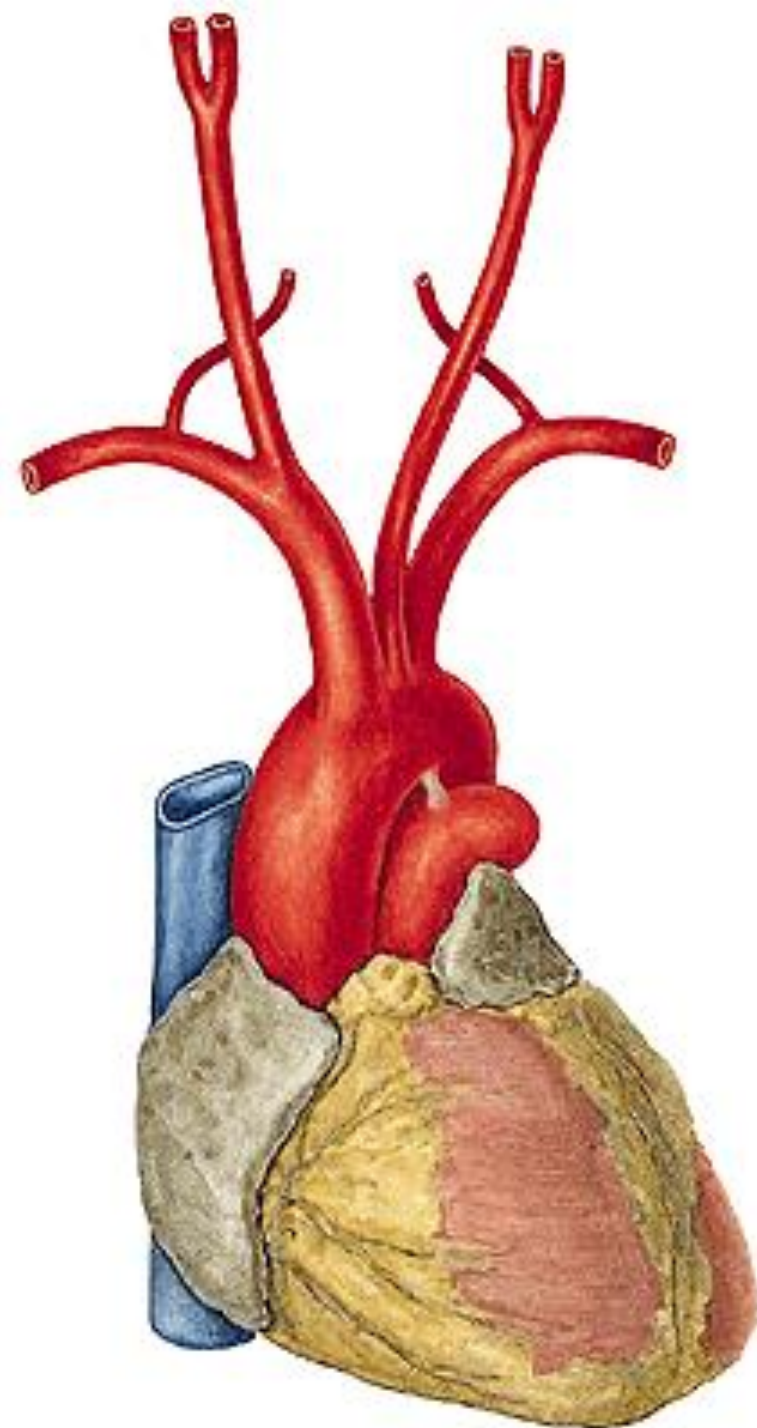


ARCUS AORTAE

- **truncus brachiocephalicus**
- **a. carotis communis sinistra**
- **a. subclavia sinistra**

Truncus brachiocephalicus

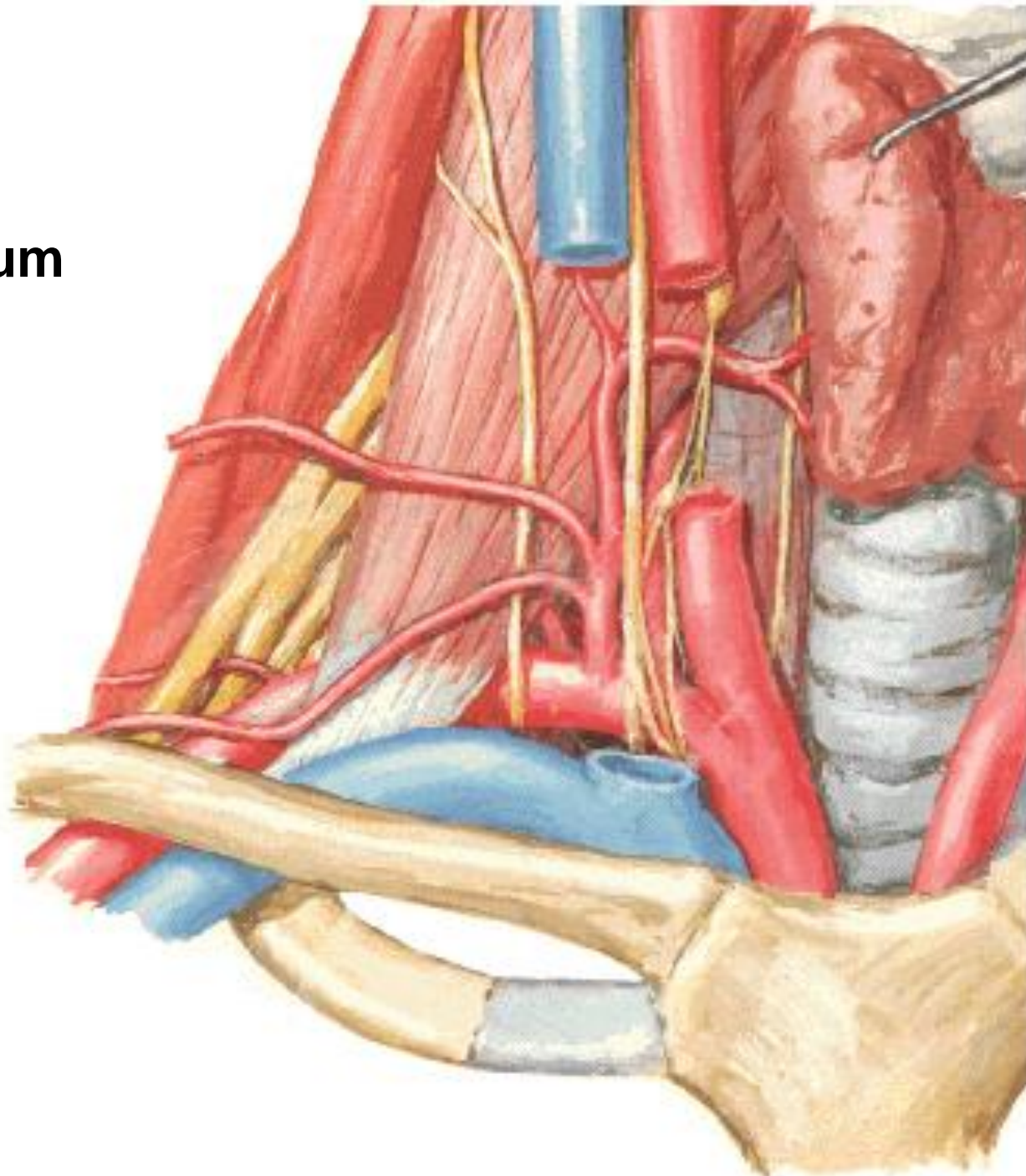
- **a. carotis communis dextra**
- **a. subclavia dextra**

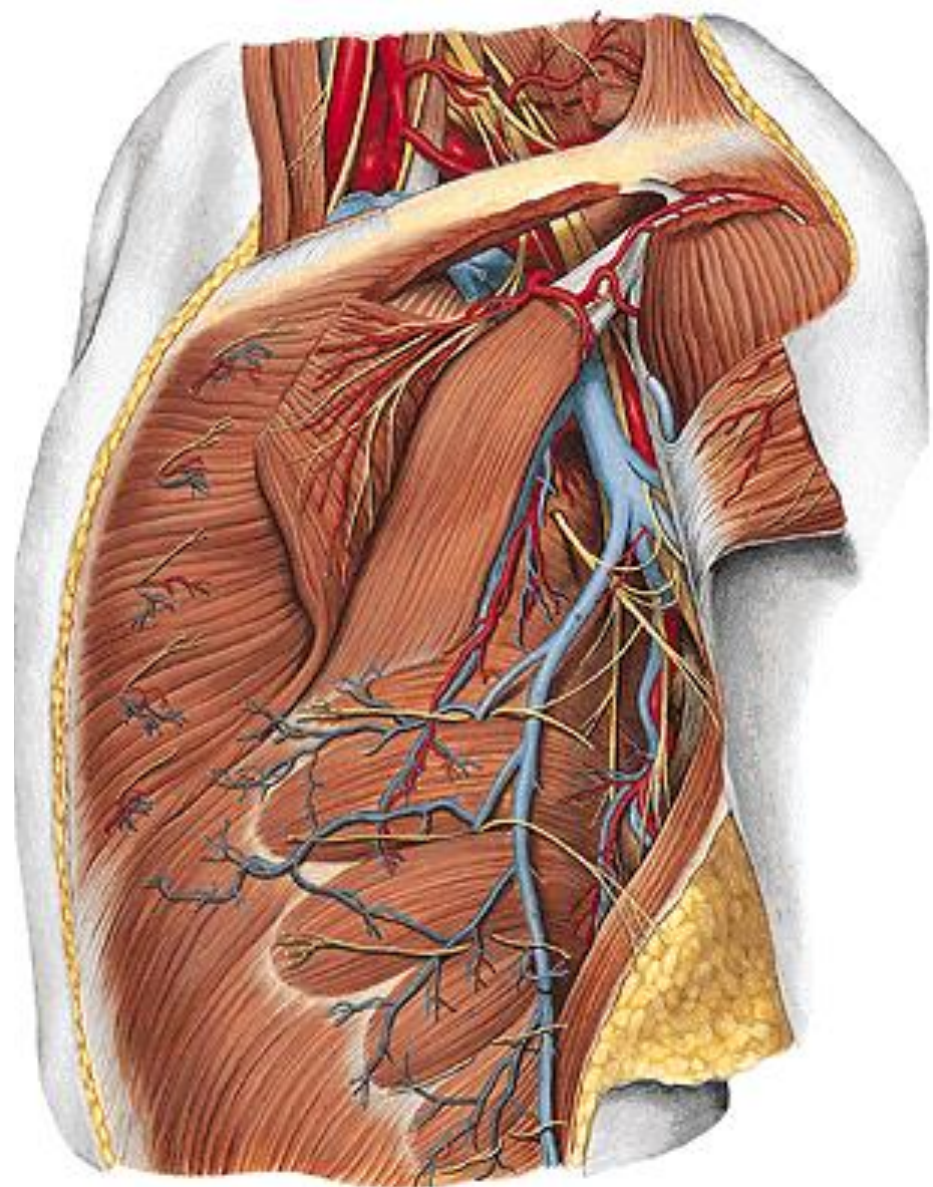
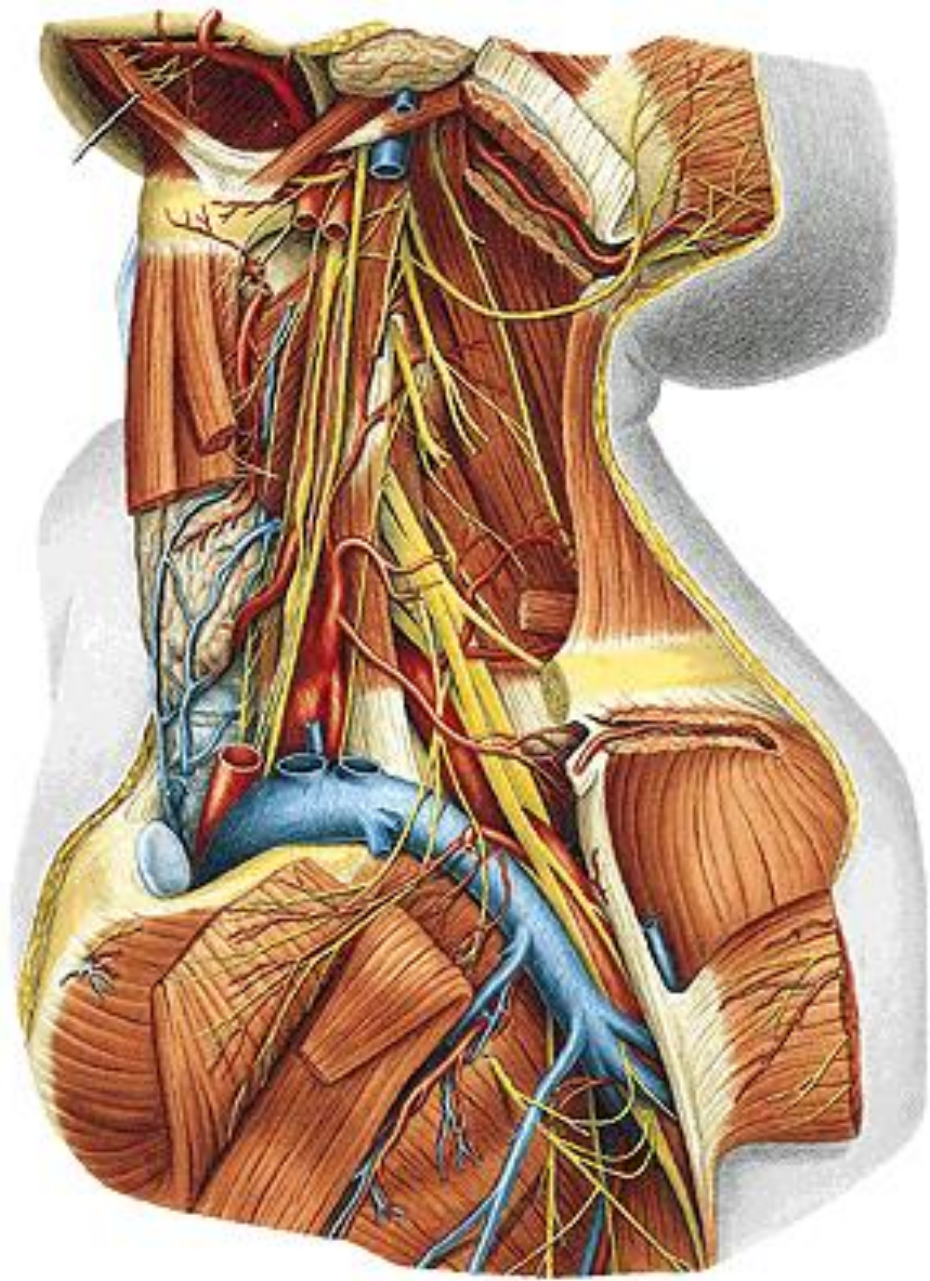


A. SUBCLAVIA

Cupula pleurae

Fissura scalenorum



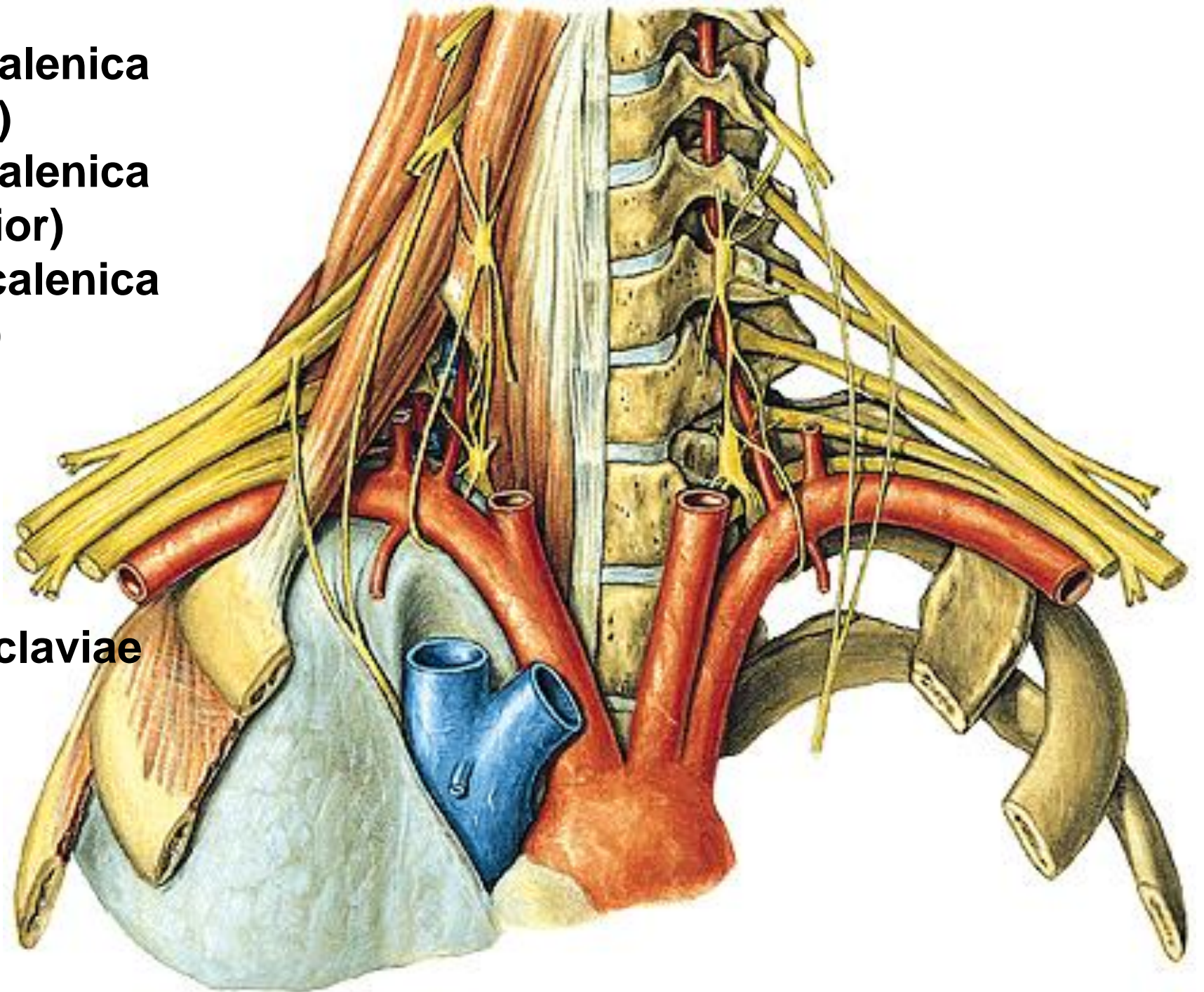


**Pars intrascalenica
(medial)**

**Pars interscalenica
(posterior)**

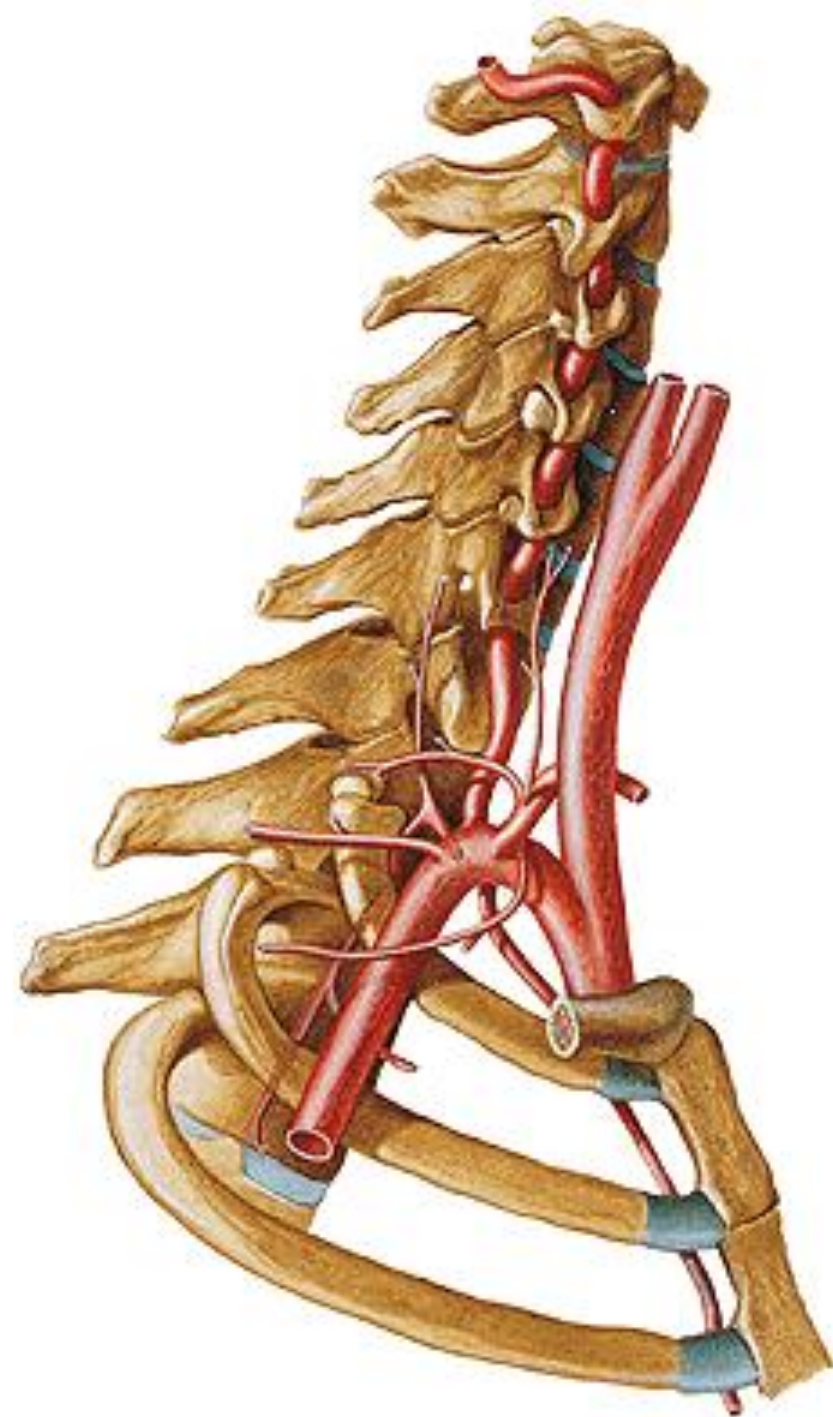
**Pars extrascalenica
(lateral)**

Sulcus a. subclaviae



A. SUBCLAVIA

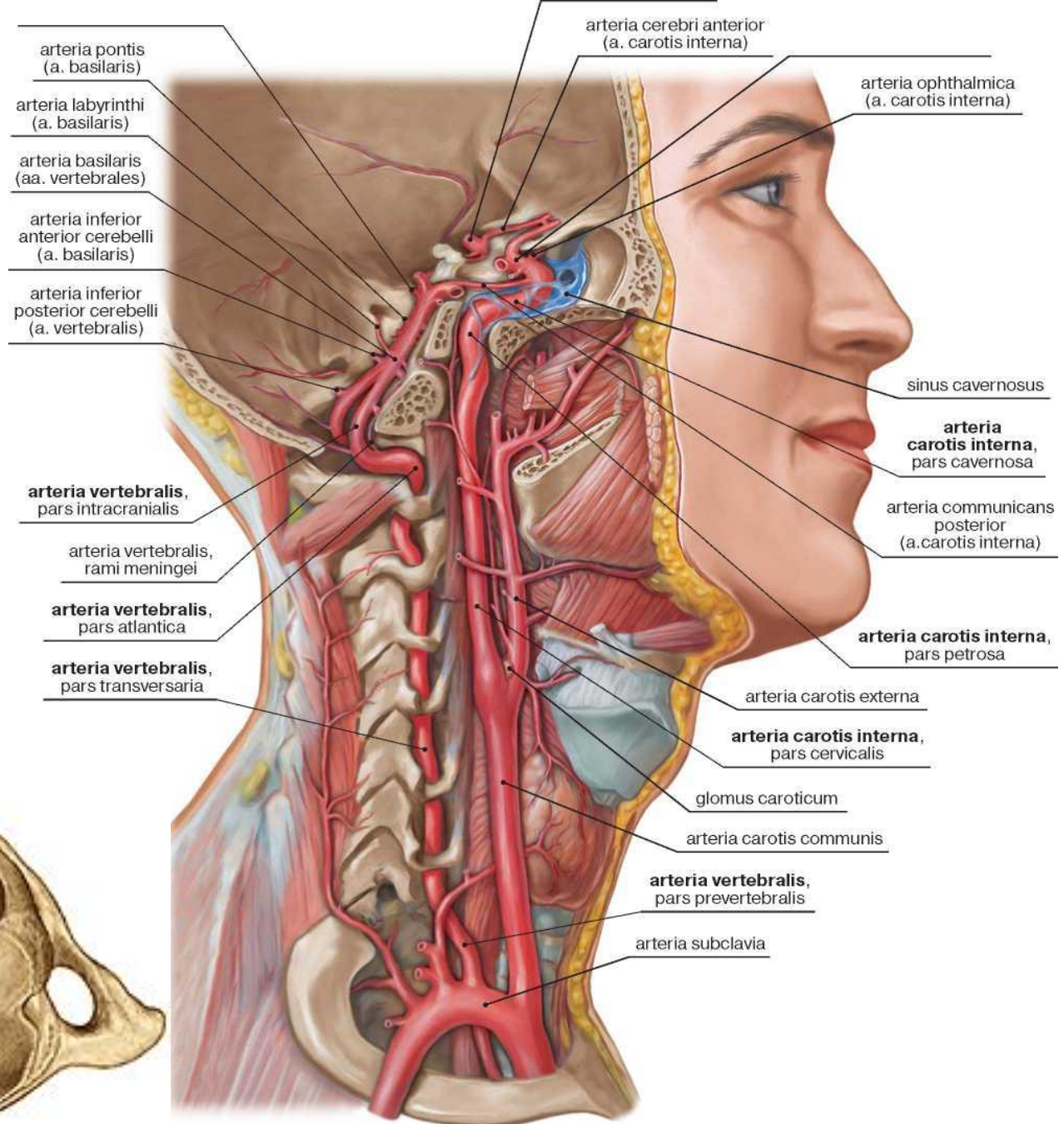
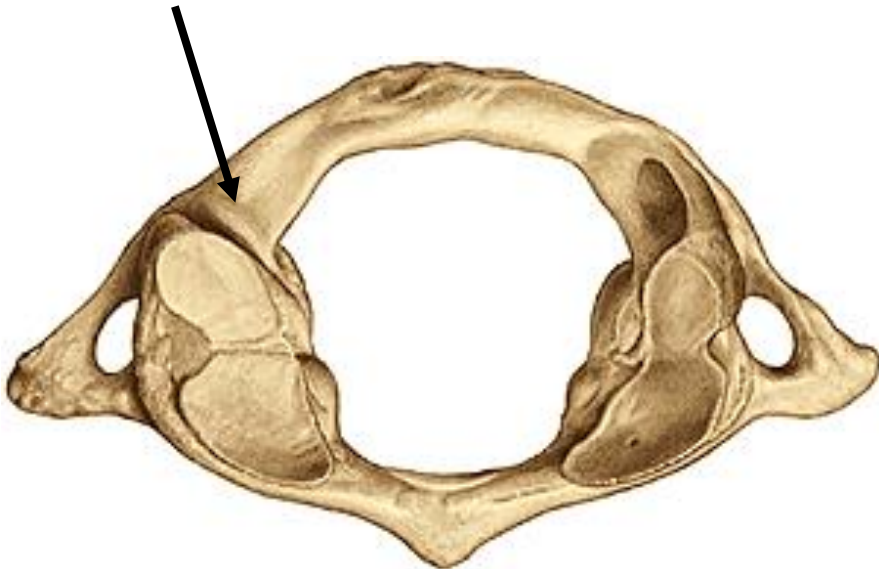
- **a. vertebralis**
- **a. thoracica interna**
- **tr. thyrocervicalis**
- **tr. costocervicalis**



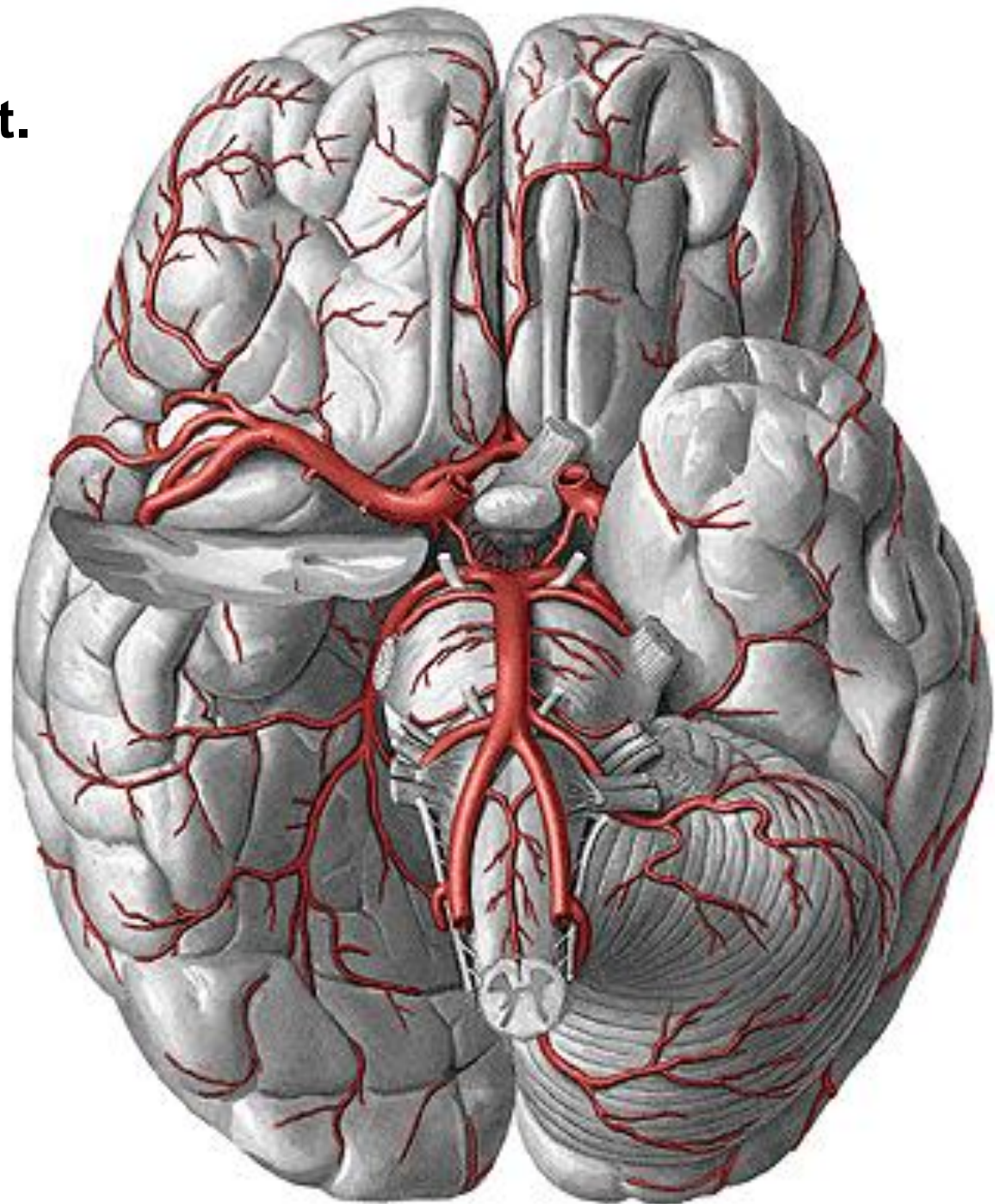
A. VERTEBRALIS

- rr. spinales
- rr. musculares

Sulcus a. vertebralis

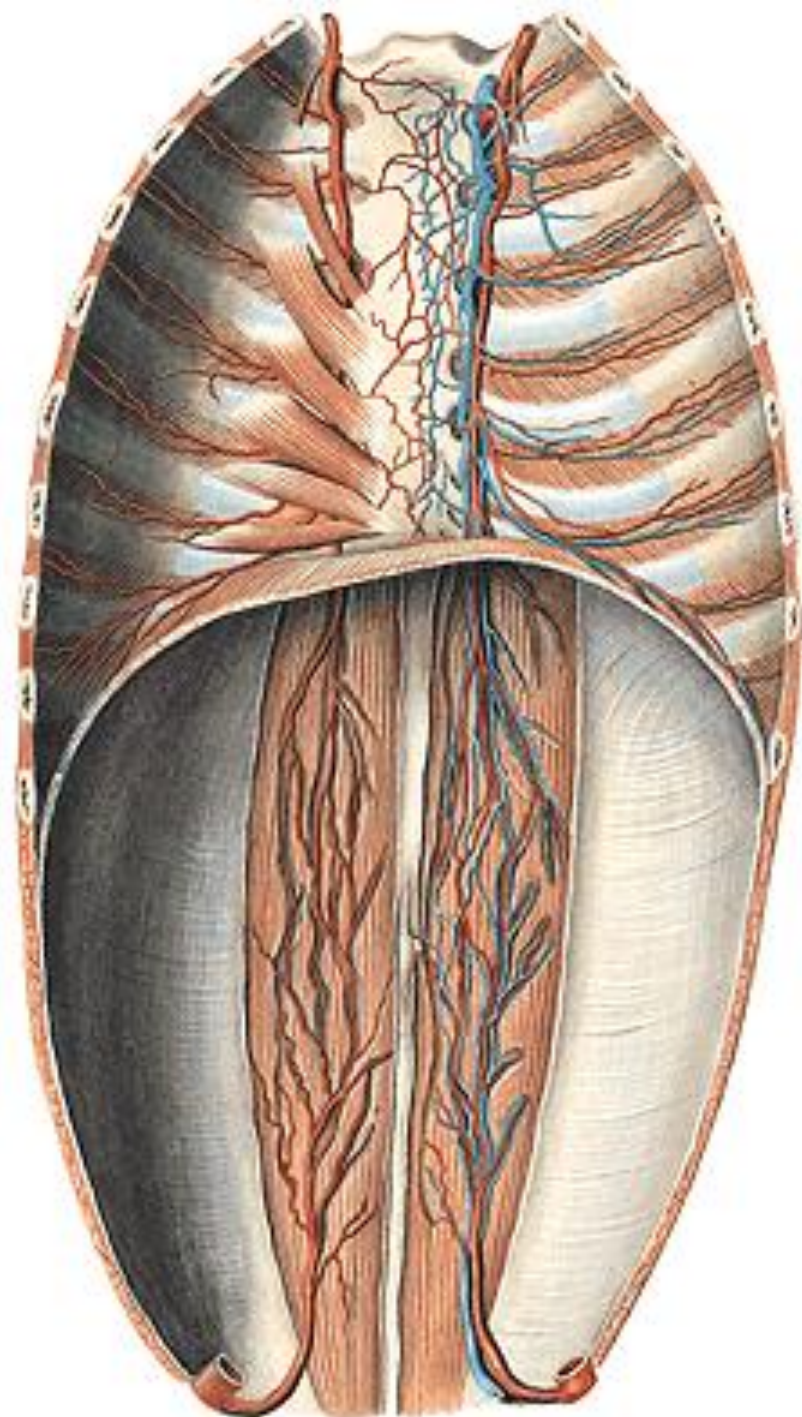


- a. cerebelli inf. post.
- a. basilaris

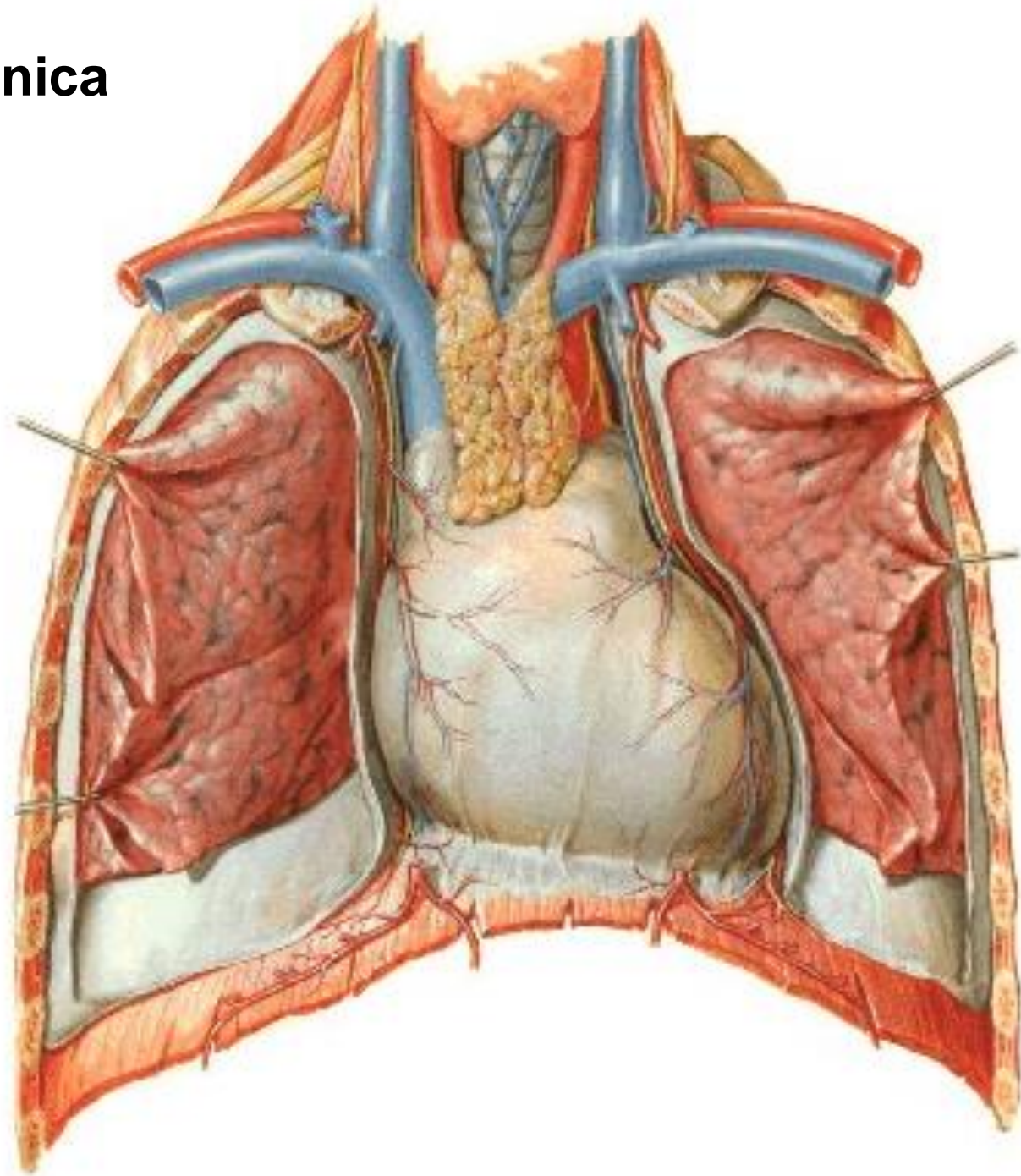


A. THORACICA INTERNA

- rr. mediastinales
- a. pericardiophrenica
- rr. intercostales ant.
- a. musculophrenica
 - rr. intercostales ant.
- a. epigastrica sup.

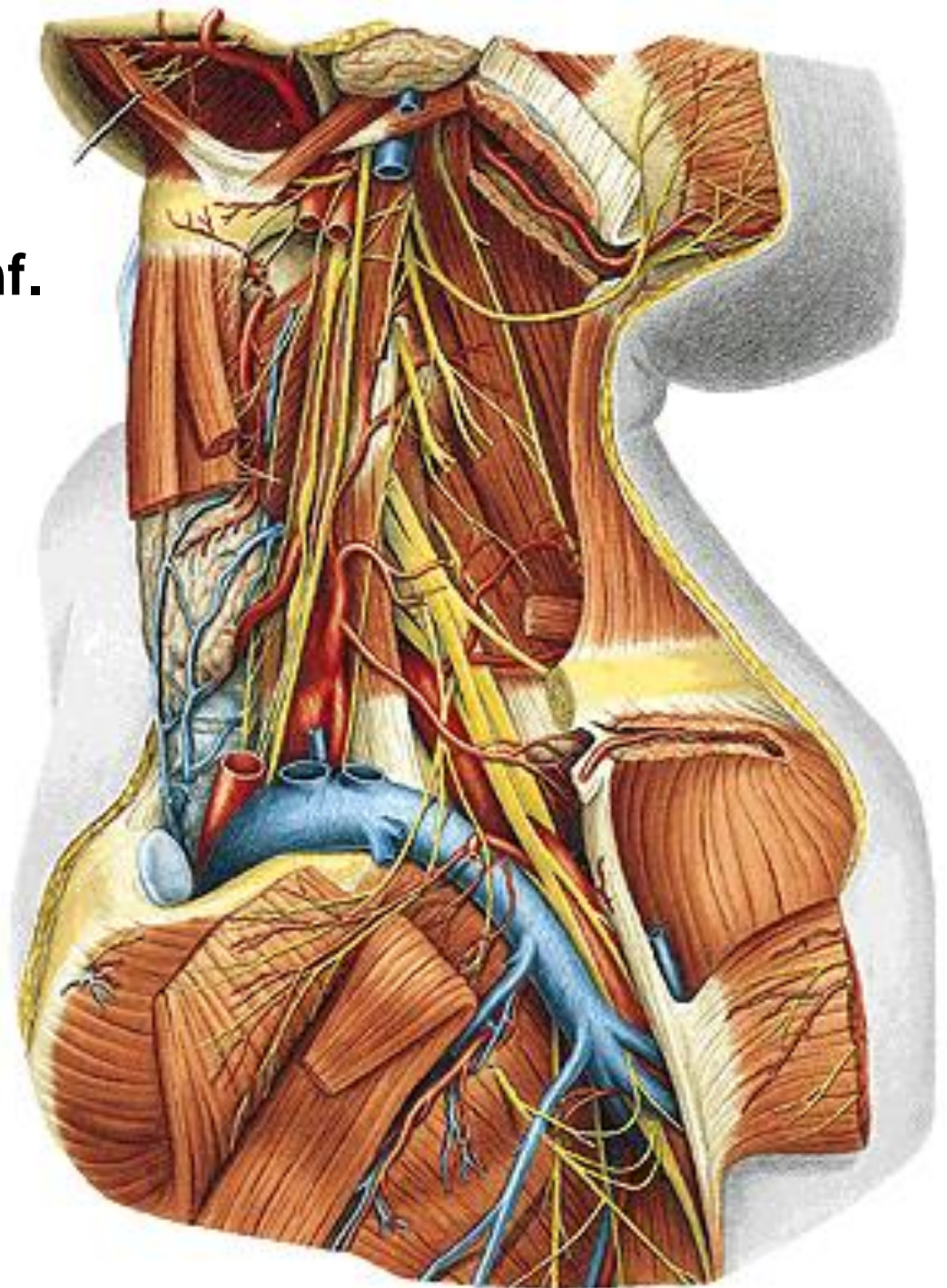


A. pericardiacophrenica

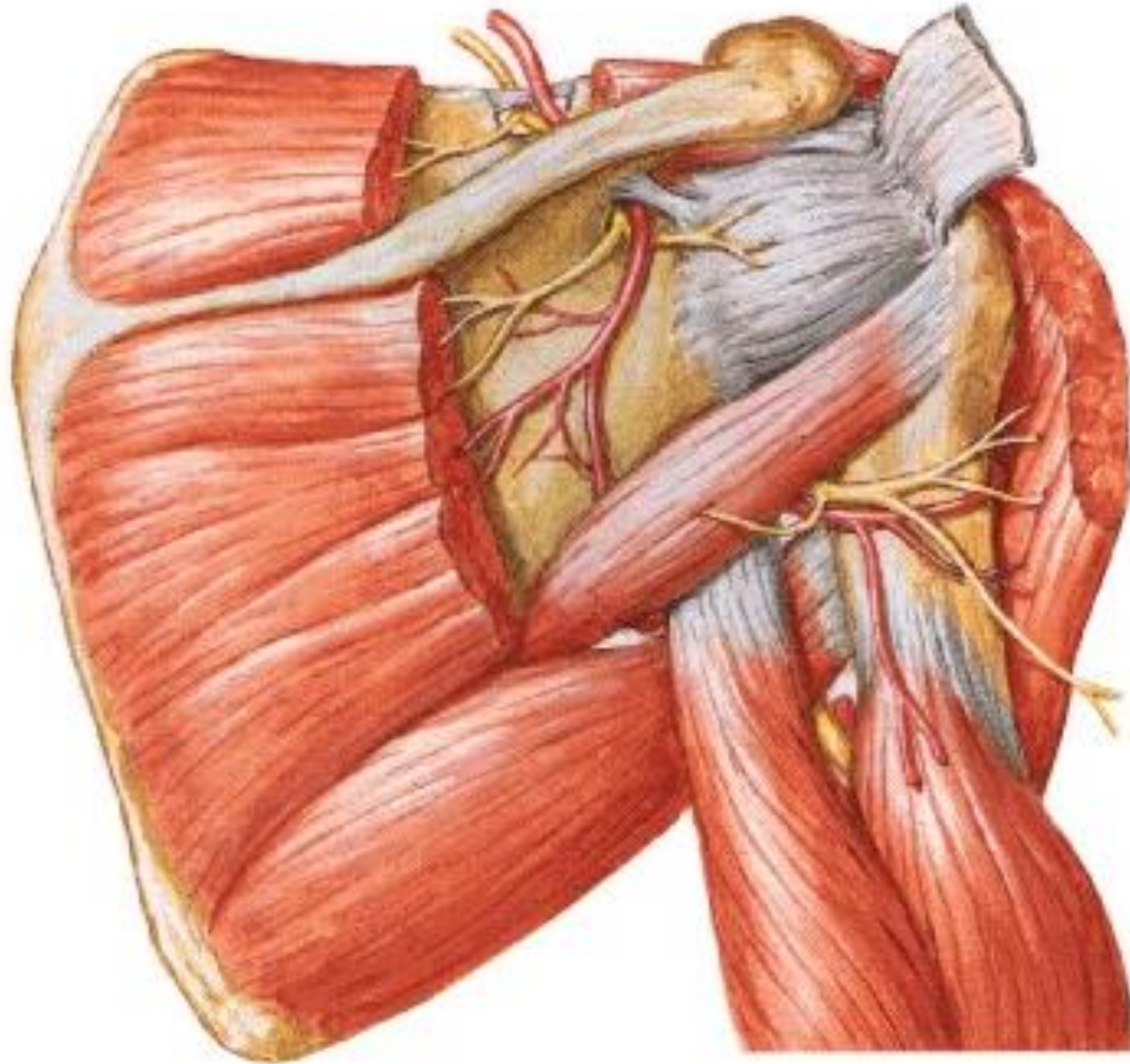


TRUNCUS THYROCERVICALIS

- a. thyroidea inf. - a. laryngea inf.
- a. cervicalis ascendens
- a. transversa colli
- a. suprascapularis

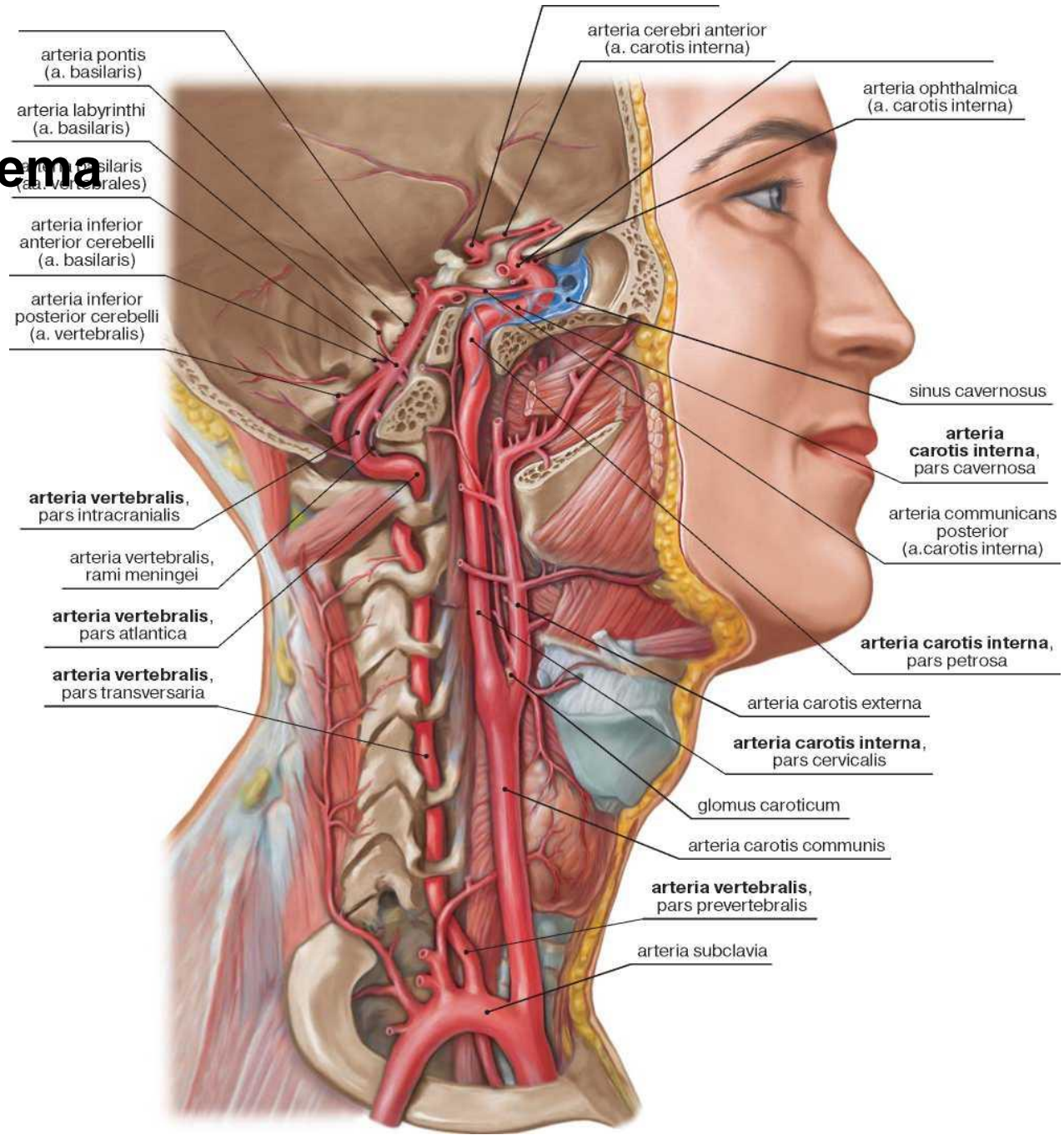


A. suprascapularis



TRUNCUS COSTOCERVICALIS

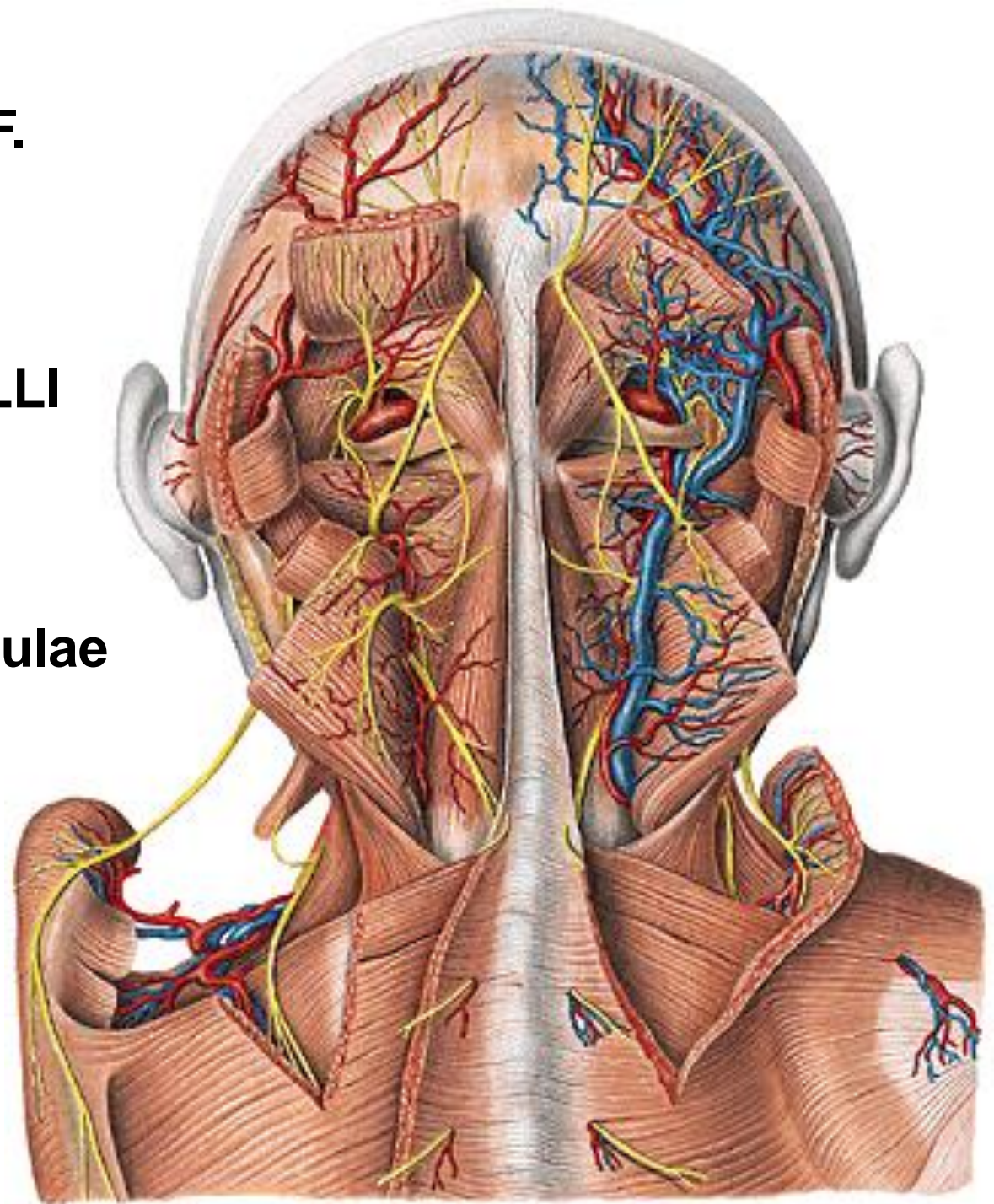
- a. cervicalis prof.
- a. intercostalis suprema



A. CERVICALIS PROF.

A. TRANSVERSA COLLI

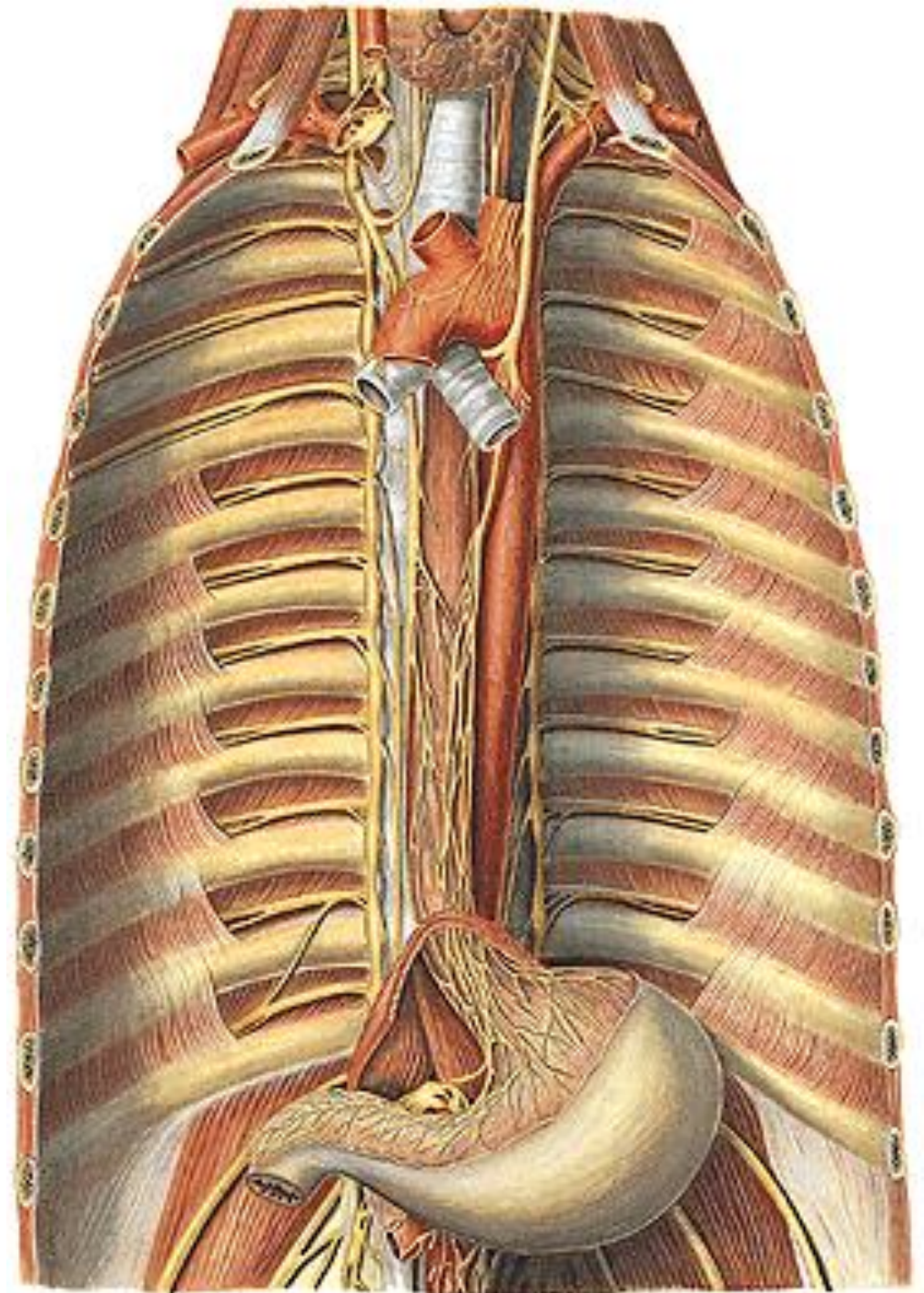
- r. superficialis
- r. profundus
= a. dorsalis scapulae



**A. axillaris – a. brachialis –
a. radialis + a. ulnaris
For more with topography**



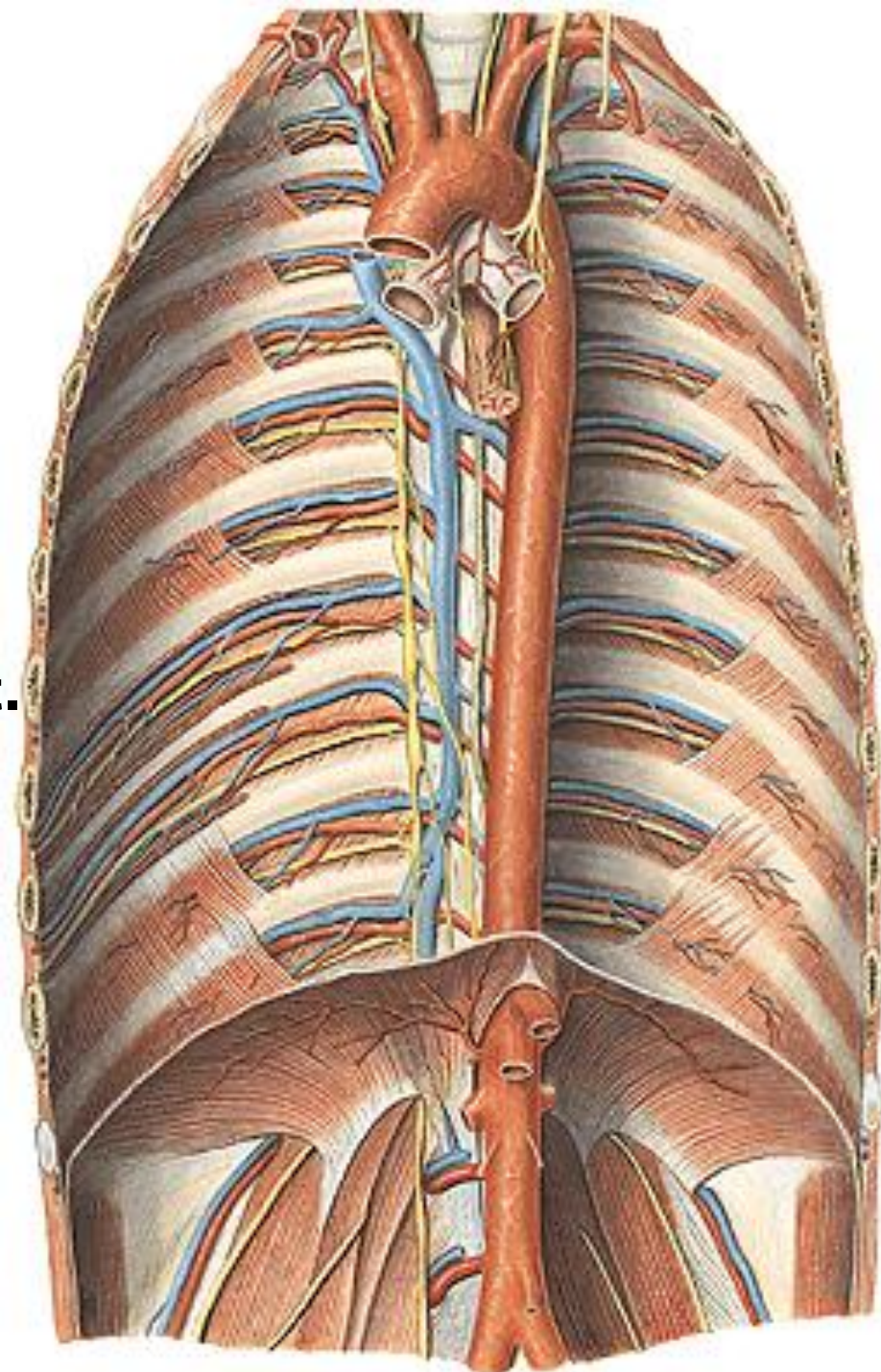
AORTA THORACICA



AORTA THORACICA

Parietal branches:

- **aa. intercostales post. (9)**
 - **r. dorsalis**
 - **rr. musculares**
 - **r. spinalis**
 - **rr. cutanei med. et lat.**
 - **rr. musculares**
 - **r. collateralis**
 - **r. cutaneus lat.**
 - **rr. mammarii lat.**
- **a. subcostalis**
- **a. phrenica sup.**

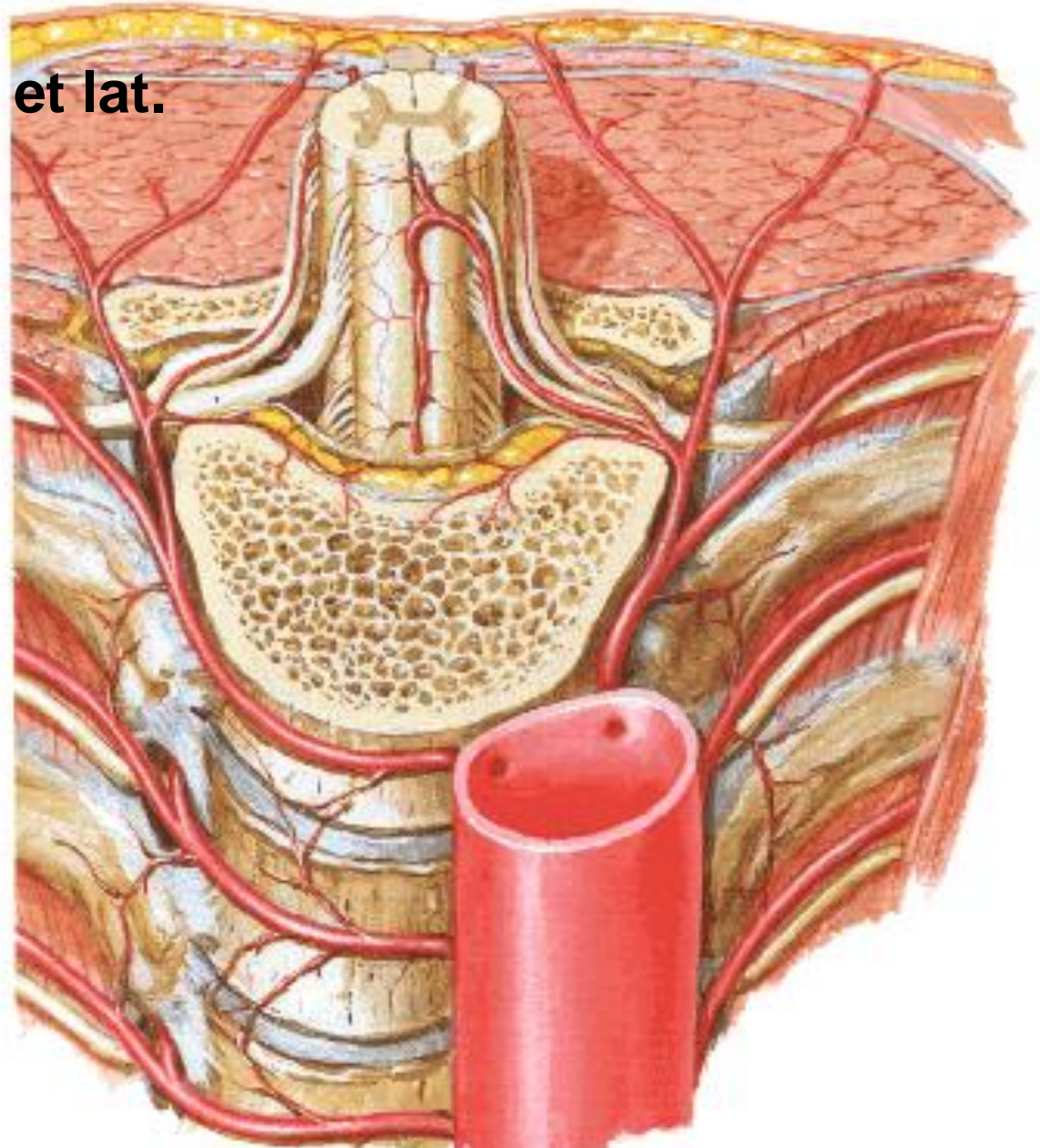


- r. dorsalis

- rr. musculares

- r. spinalis

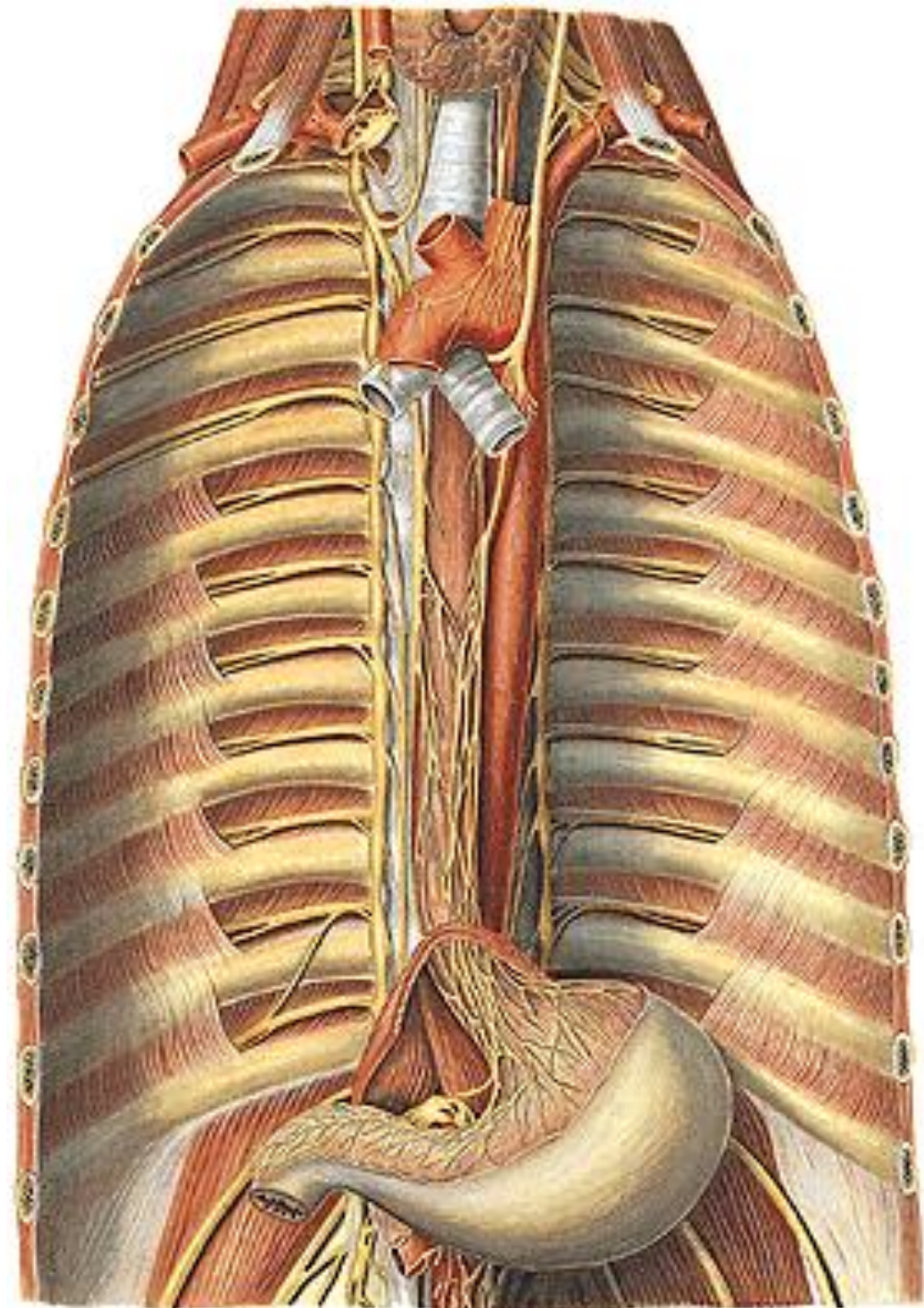
- rr. cutanei med. et lat.



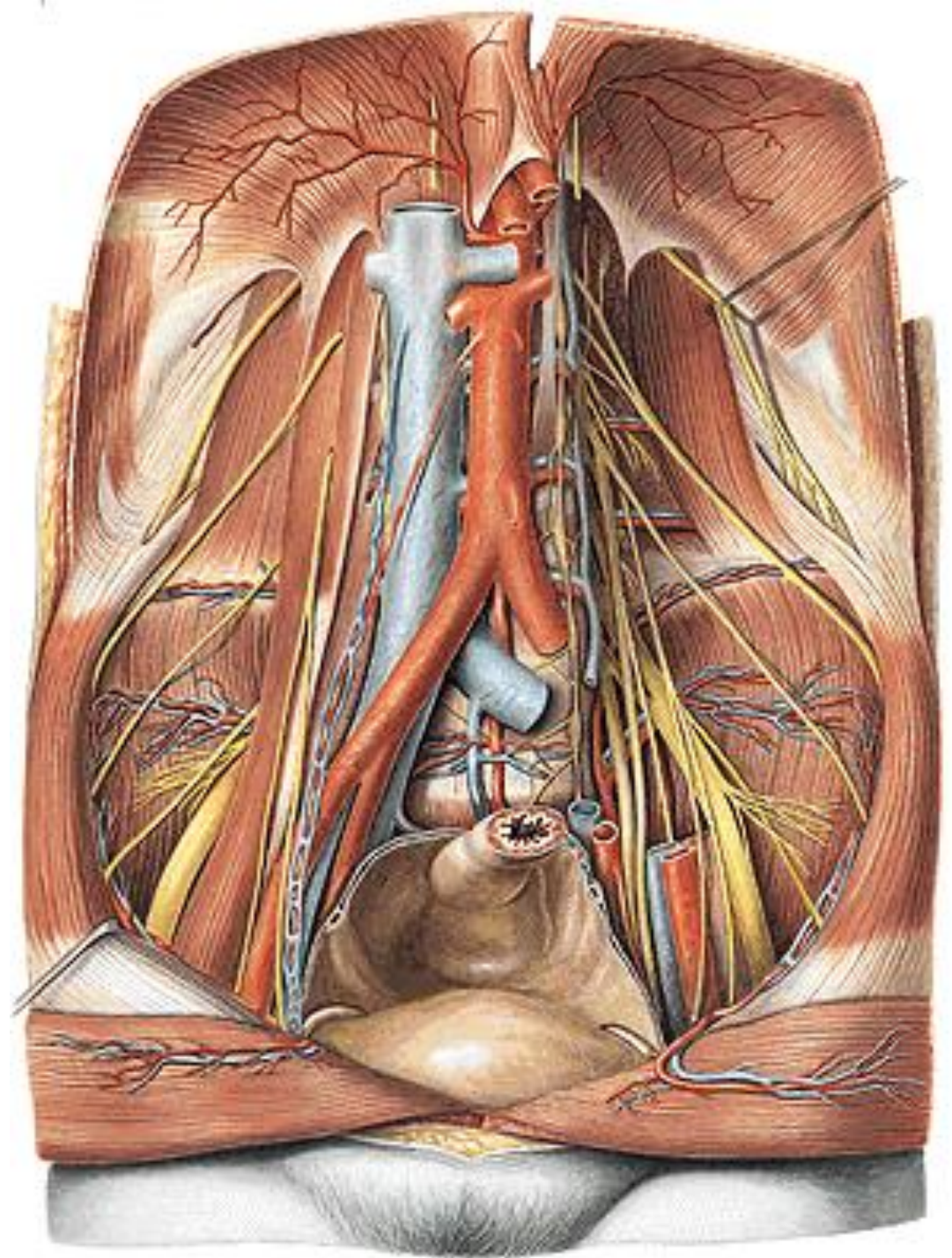
AORTA THORACICA

Visceral branches:

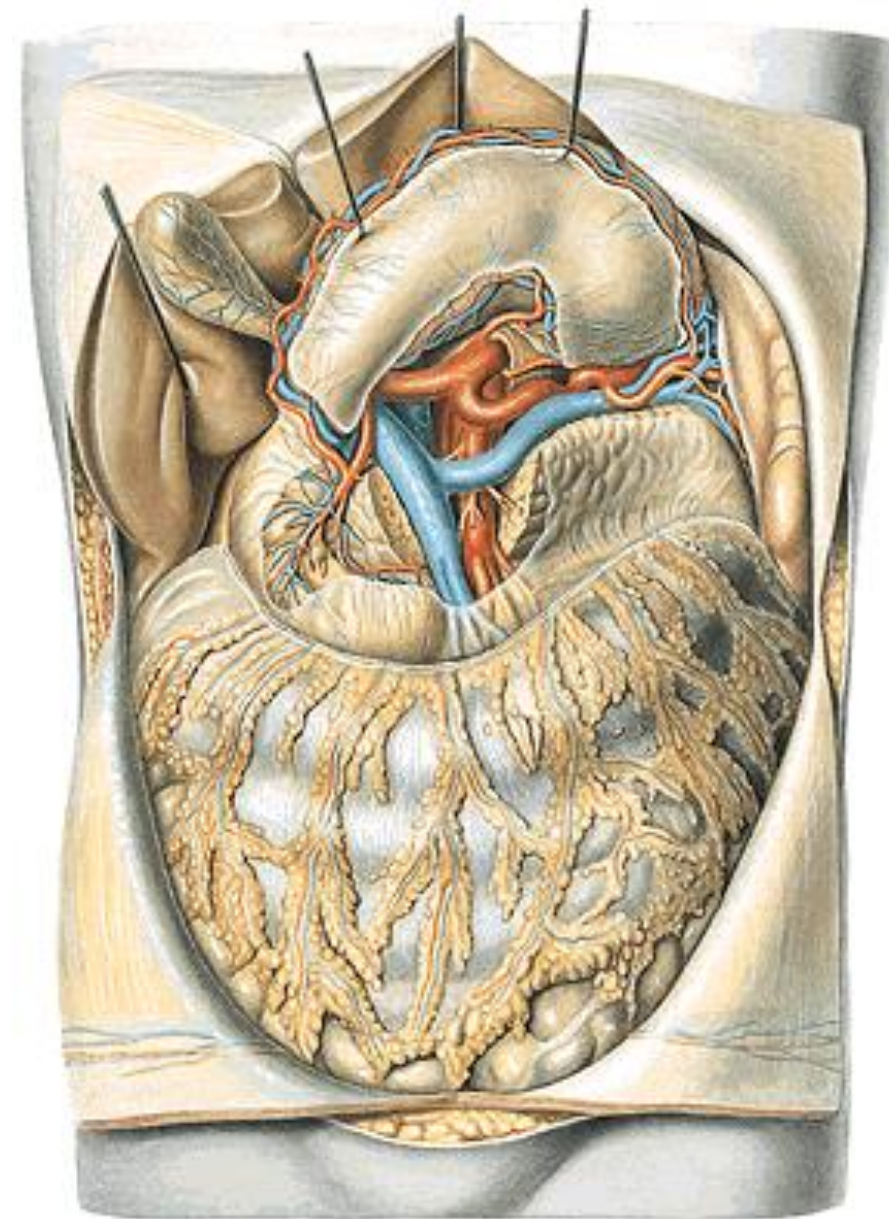
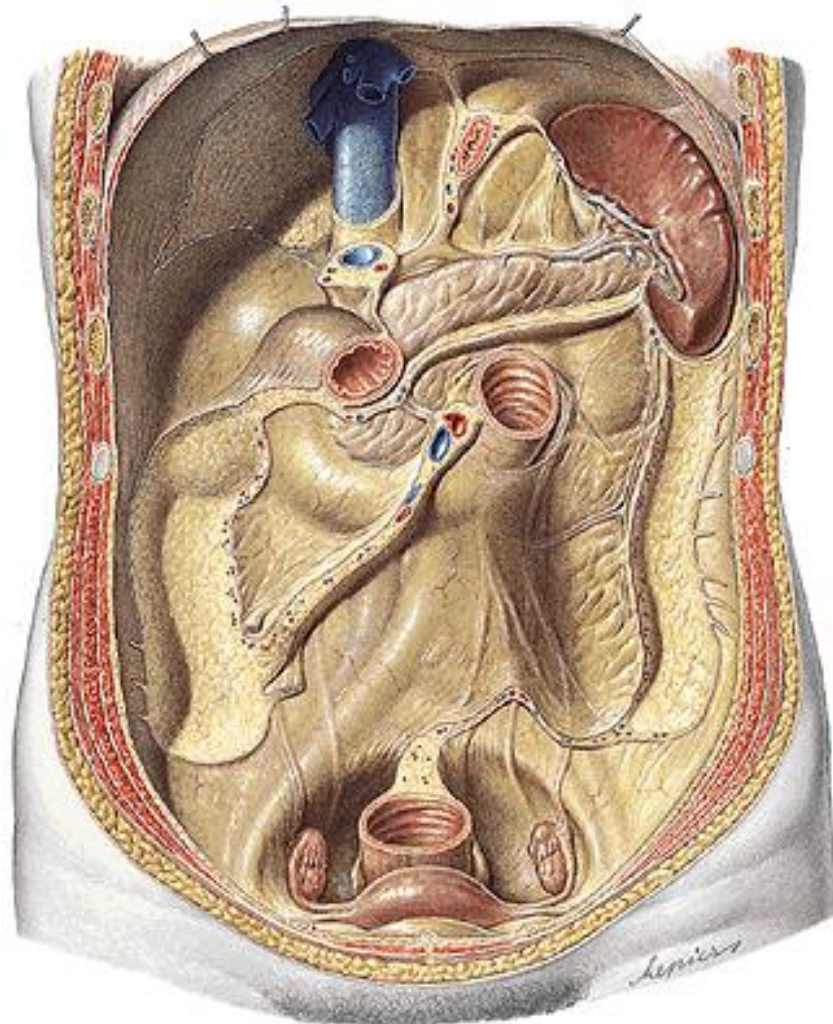
- rr. bronchiales
- rr. oesophagei
- rr. pericardiaci



AORTA ABDOMINALIS



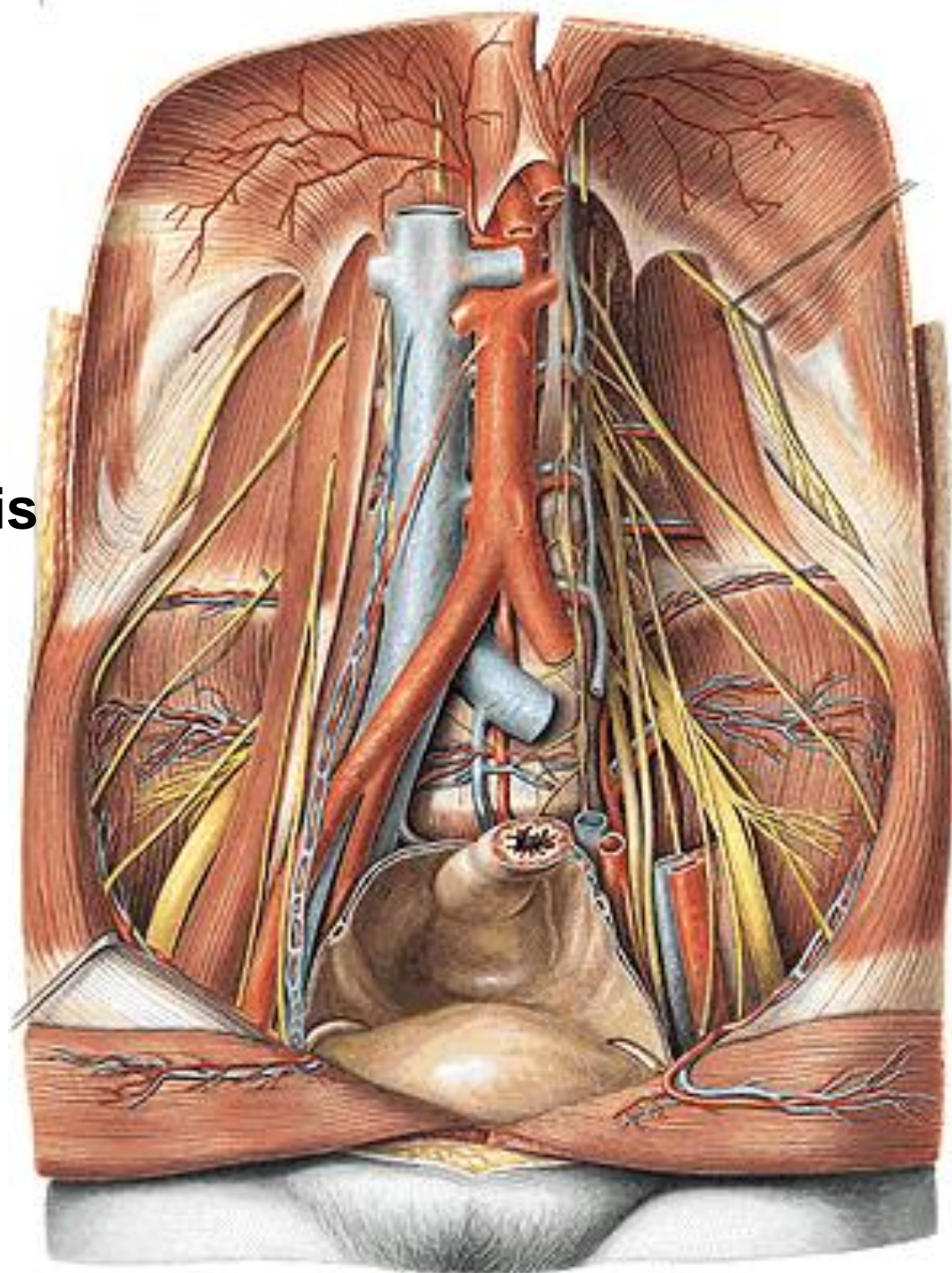
AORTA ABDOMINALIS



AORTA ABDOMINALIS

Parietal branches

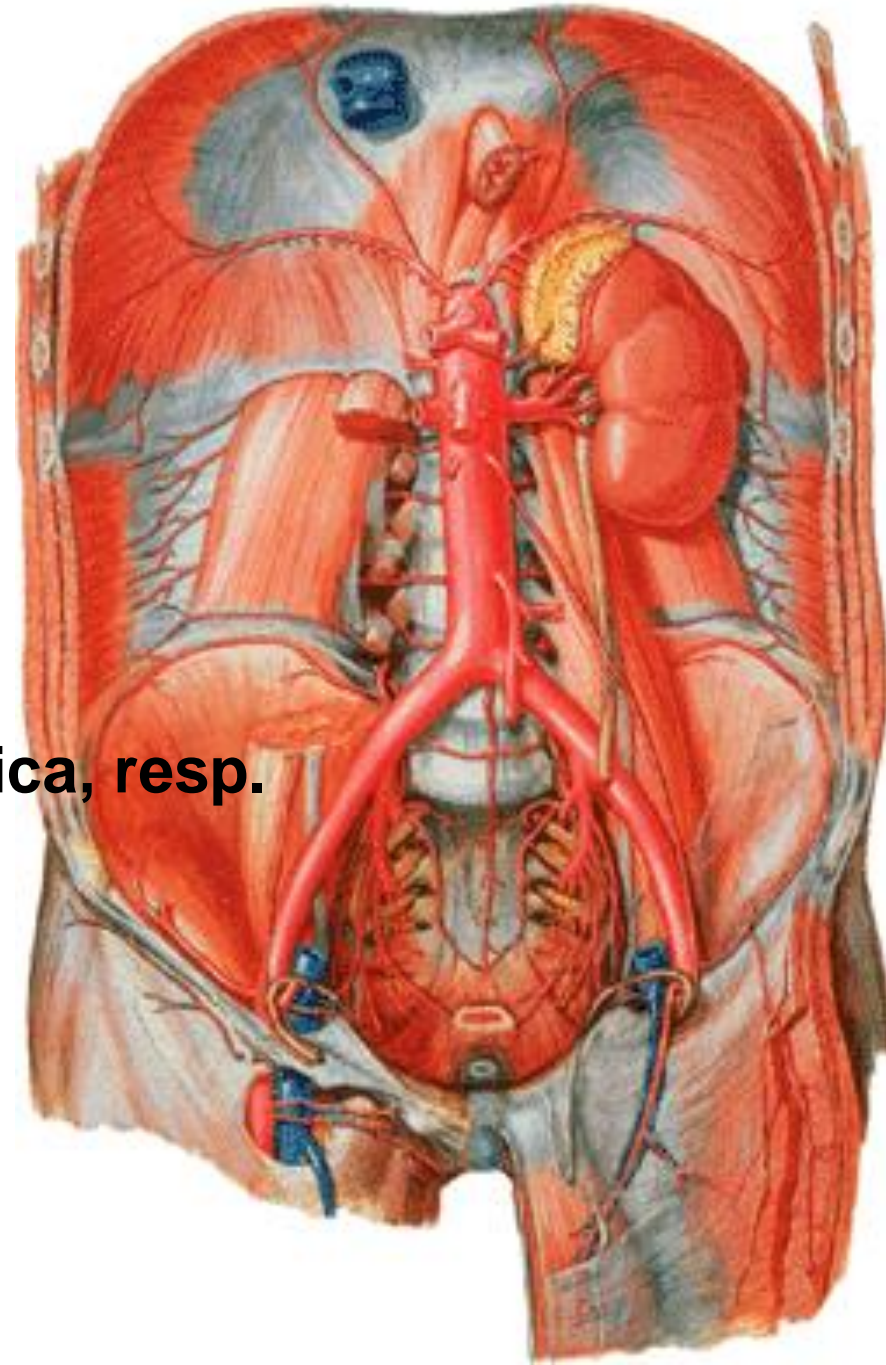
- a. phrenica inf.
 - a. suprarenalis sup.
- aa. lumbales (4)
 - r. dorsalis – r. spinalis



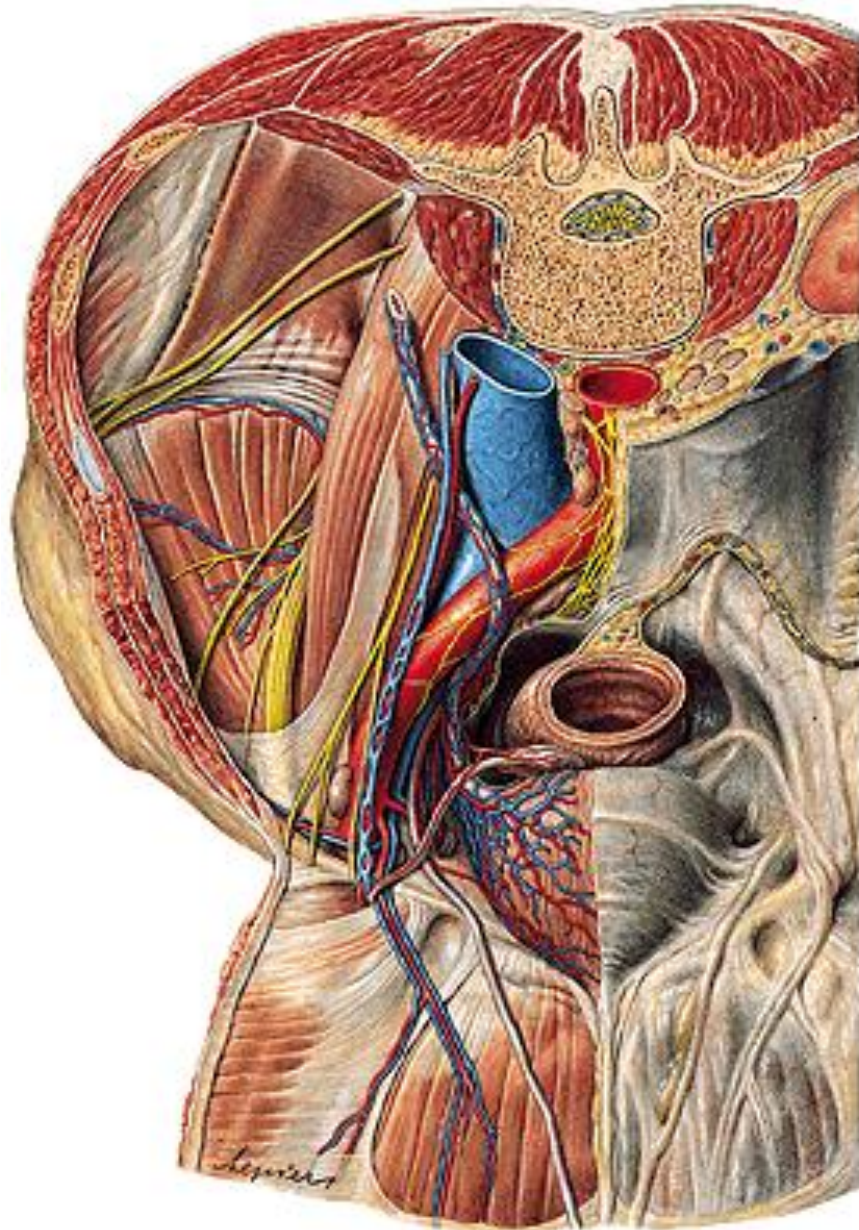
AORTA ABDOMINALIS

Visceral branches - paired

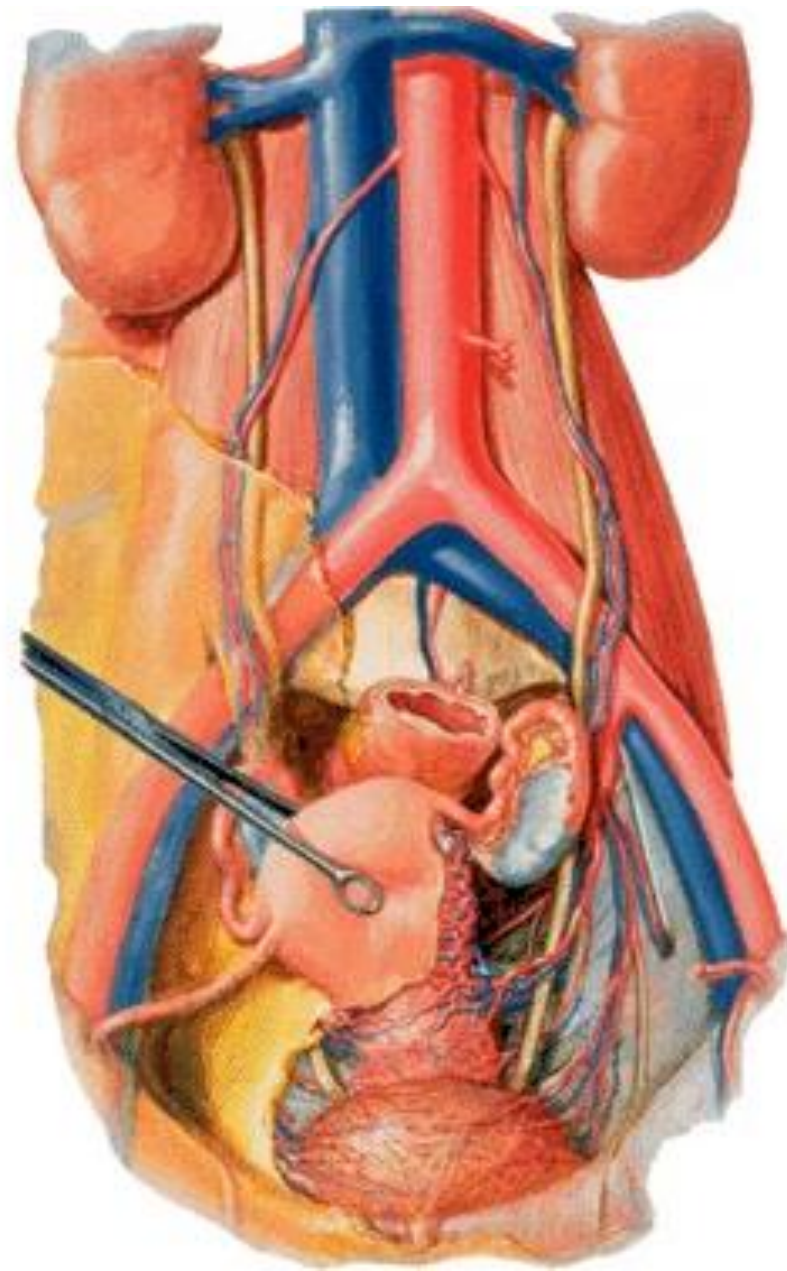
- a. suprarenalis media
- a. renalis
 - r. uretericus
 - a. suprarenalis inf.
 - rr. praepelvici
 - r. retropelvicus
- a. testicularis and a. ovarica, resp.
 - rr. ureterici
 - r. tubarius



A. testicularis



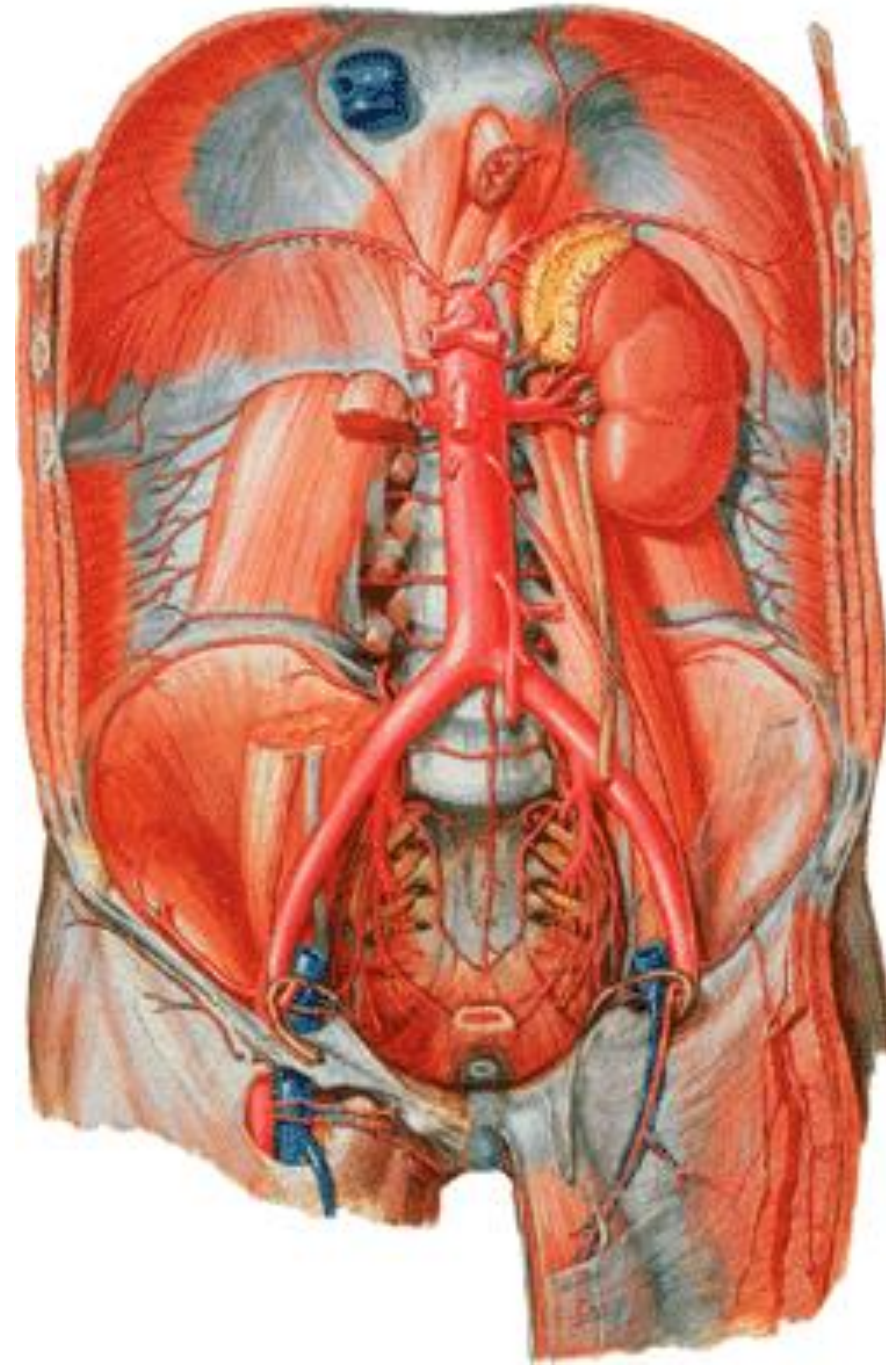
A. ovarica



AORTA ABDOMINALIS – cont.

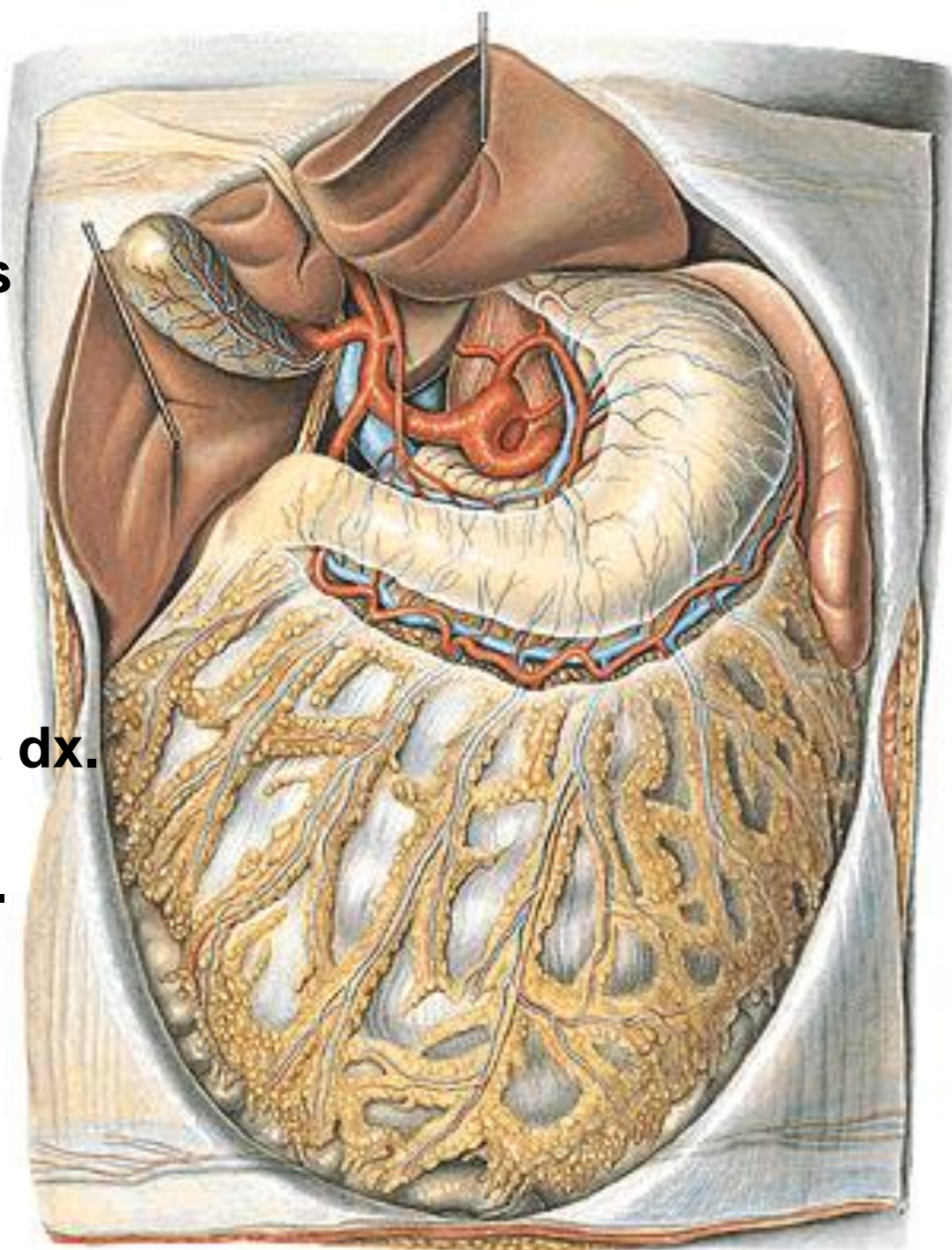
Visceral branches – unpaired

- truncus coeliacus
- a. mesenterica sup.
- a. mesenterica inf.



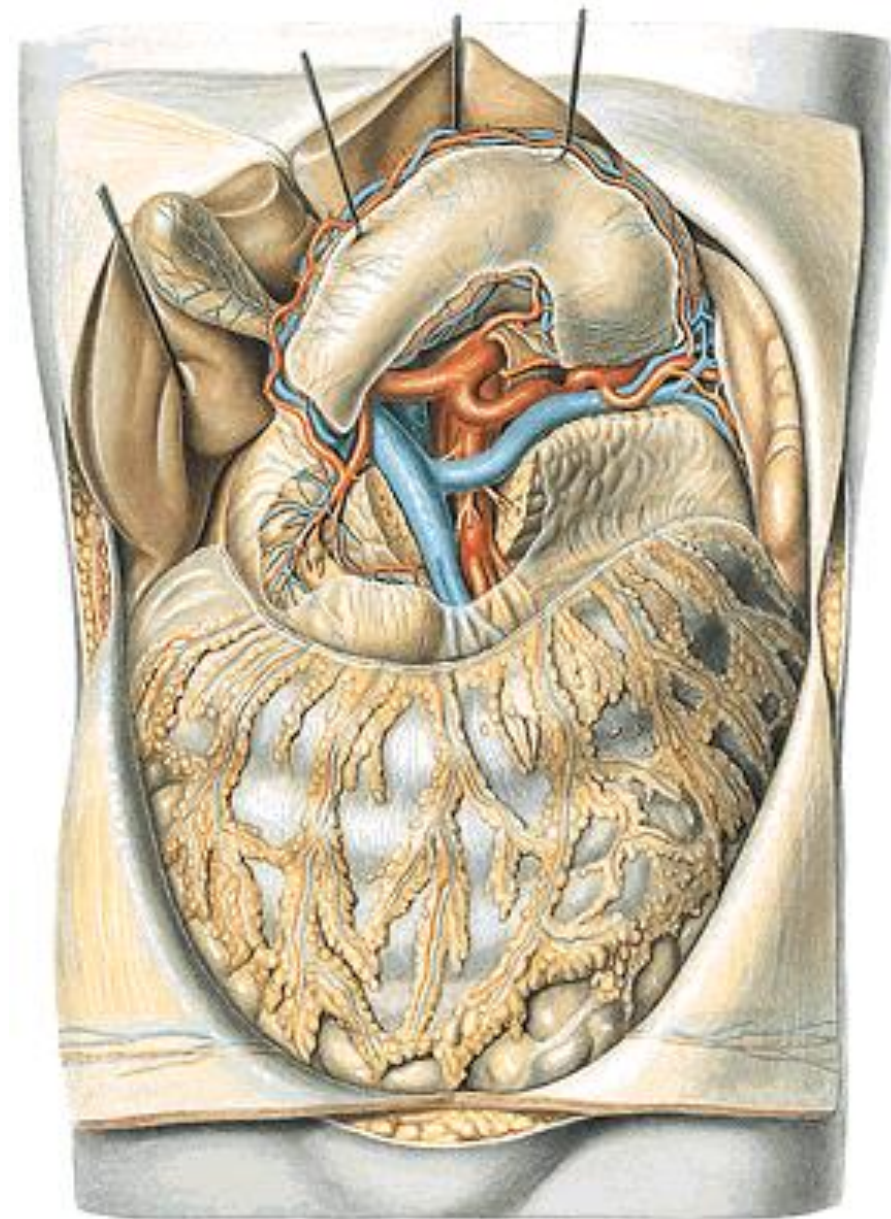
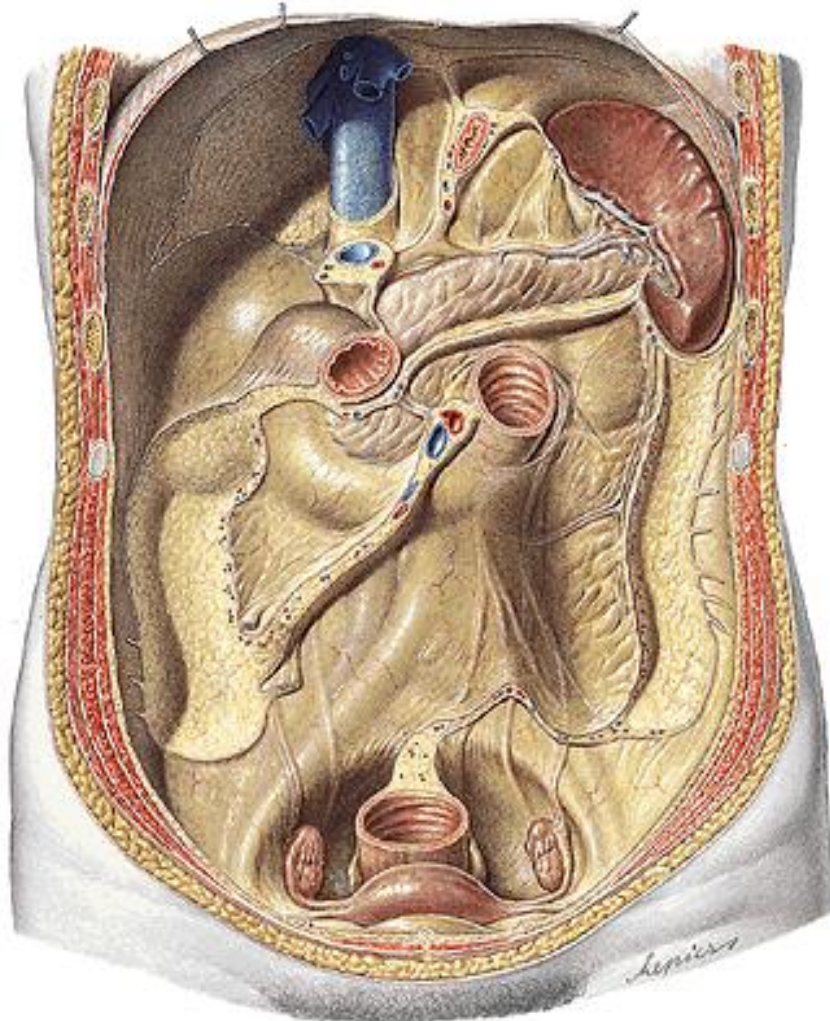
TRUNCUS COELIACUS

1. a. gastrica sin.
 - rr. oesophageales
2. a. hepatica communis
 - a. hepatica propria
 - a. gastrica dx.
 - r. dexter
 - a. cystica
 - r. sinister
 - a. gastroduodenalis
 - a. gastroomentalis dx.
 - aa. pancreatico-duodenales sup.
3. a. splenica



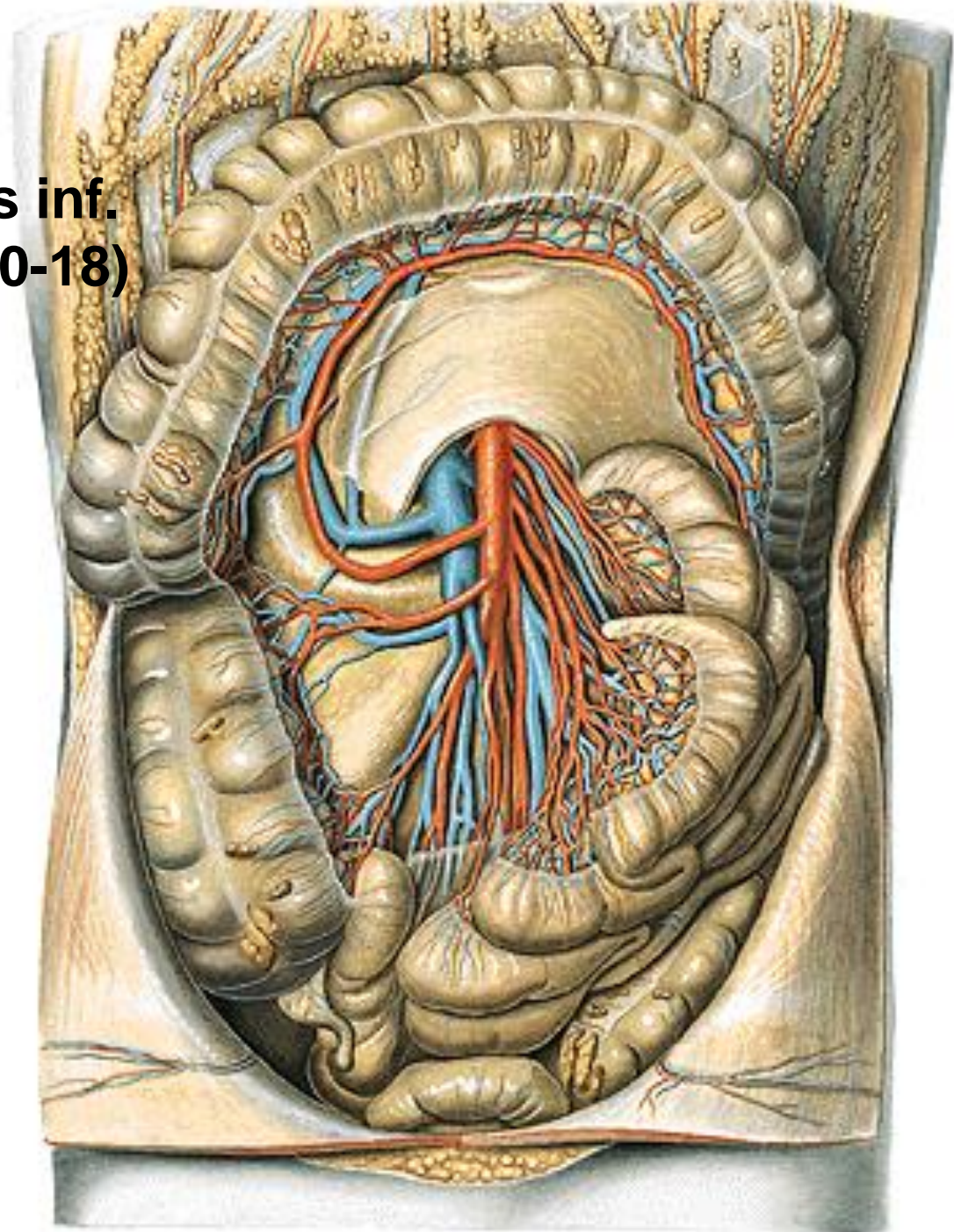
A. SPLENICA/LIENALIS

- rr. pancreatici
- a. gastromentalis sin.
- aa. gastricae breves
- rr. splenici



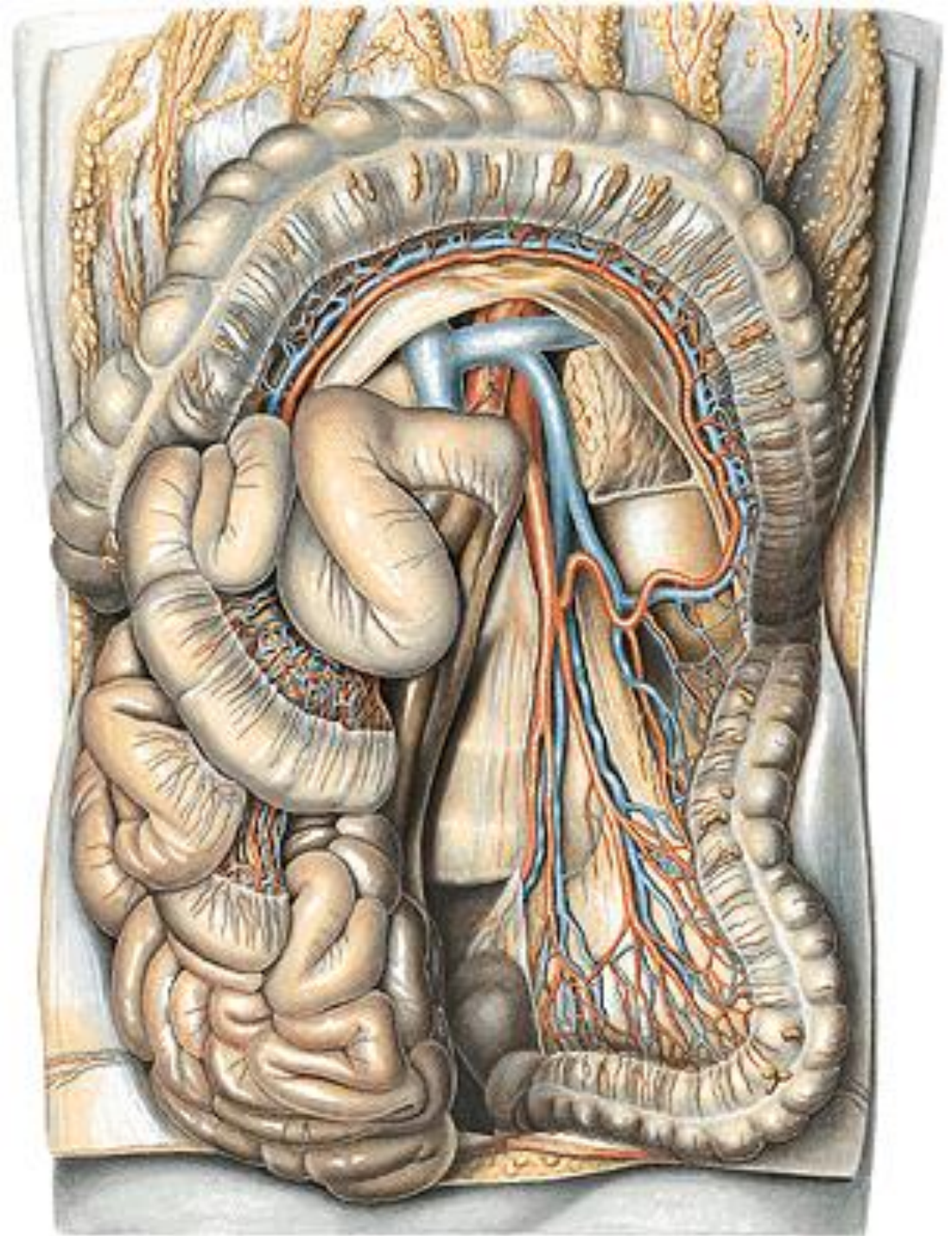
A. MESENTERICA SUP.

- a. pancreaticoduodenalis inf.
- aa. jejunales et ileales (10-18)
- a. ileocolica
 - r. ilealis
 - r. colicus
 - r. appendicularis
- a. colica dx.
- a. colica media



A. MESENTERICA INF.

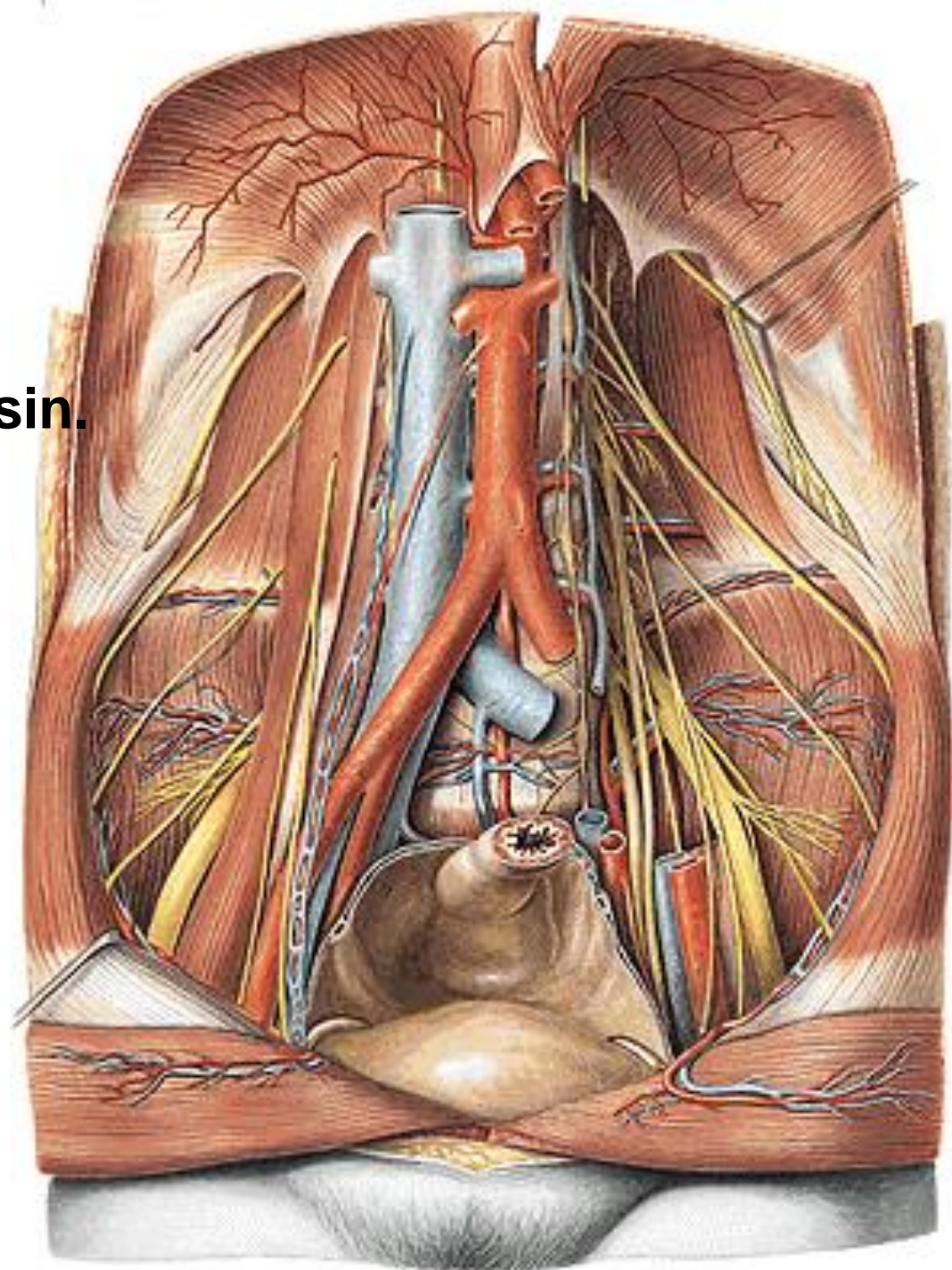
- **a. colica sinistra**
- **aa. sigmoideae**
- **a. rectalis sup.**



AORTA ABDOMINALIS

Terminal branches (bifurcatio aortae)

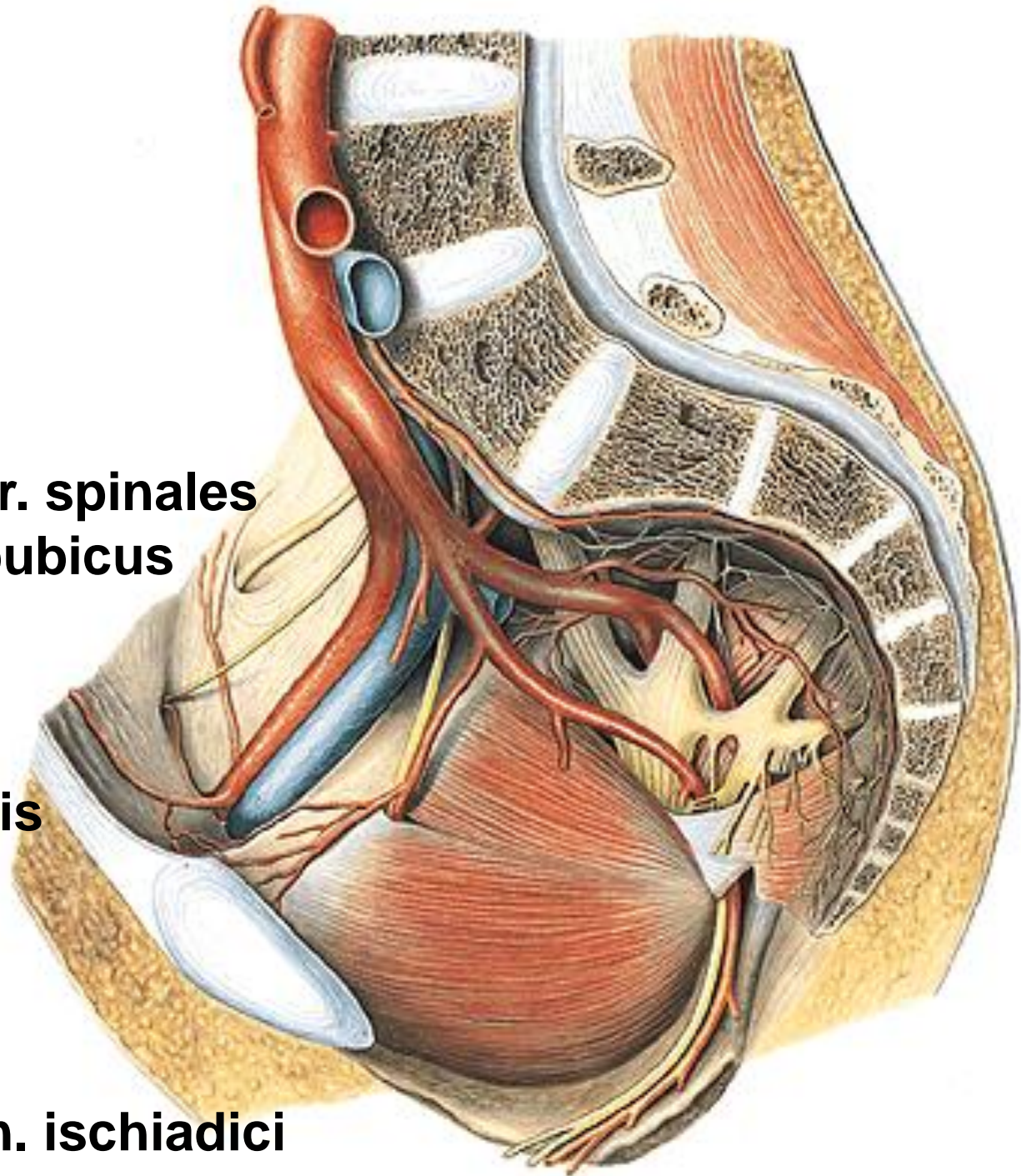
- a. iliaca communis dx. et sin.
 - a. iliaca externa
 - a. iliaca interna
 - a. sacralis mediana
 - a. lumbalis ima
 - rr. sacrales
- (glomus coccygeum)



A. ILIACA INTERNA

Parietal branches

- a. iliolumbalis
 - r. iliacus
 - r. lumbalis
 - r. sacralis
- aa. sacrales lat. – rr. spinales
- a. obturatoria – r. pubicus
(corona mortis)
 - r. anterior
 - r. posterior
 - r. acetabularis
- a. glutea sup.
 - r. superficialis
 - r. profundus
- a. glutea inf.
 - a. commitans n. ischiadici



A. ILIACA INTERNA

Parietal branches:

A. iliolumbalis

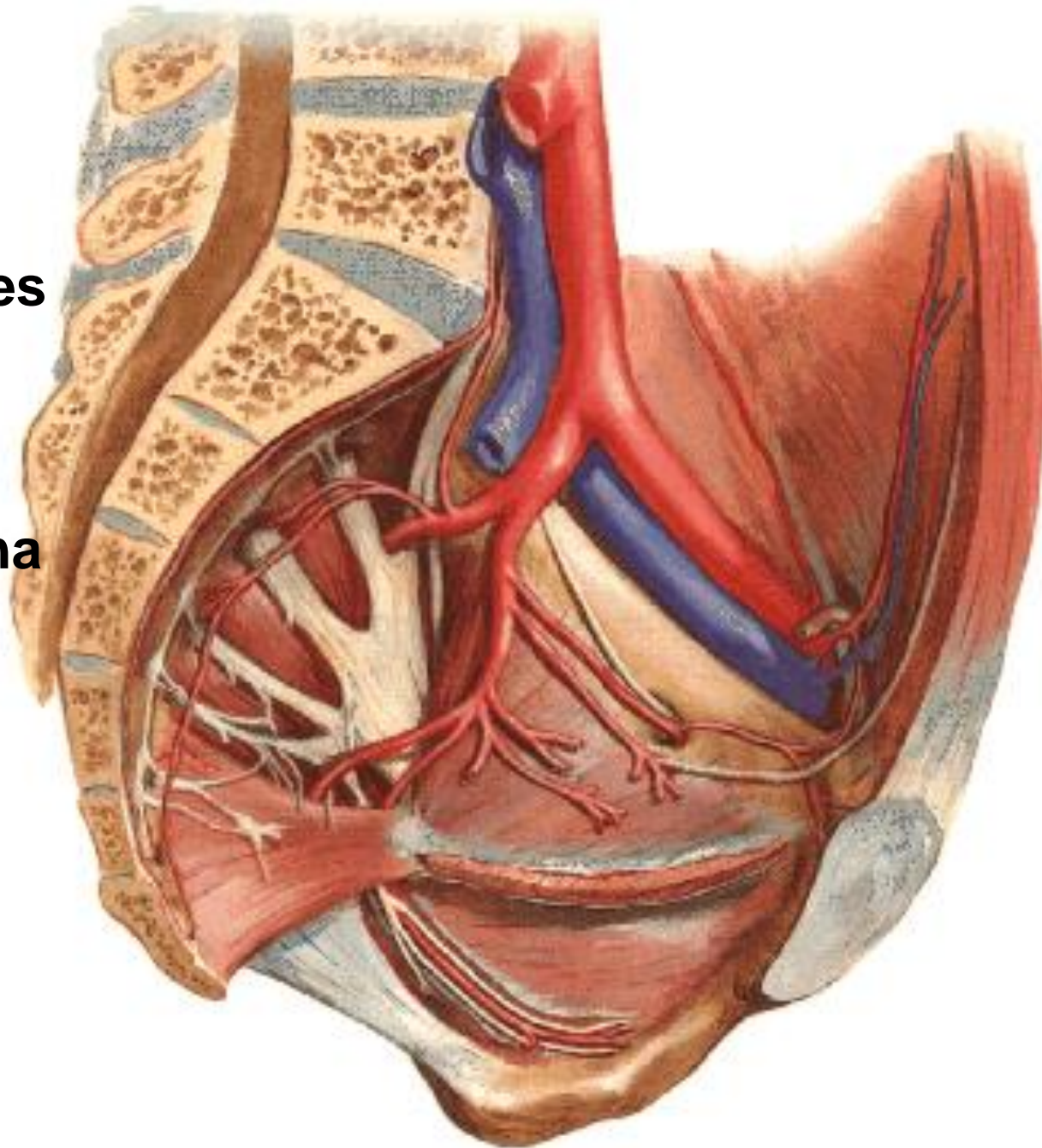
Aa. sacrales laterales

A. glutea sup.

A. glutea inf.

A. obturatoria

- r. pubicus (corona
mortis)



A. GLUTEA SUP.

A. GLUTEA INF.

- A. comitans n. ischiadici

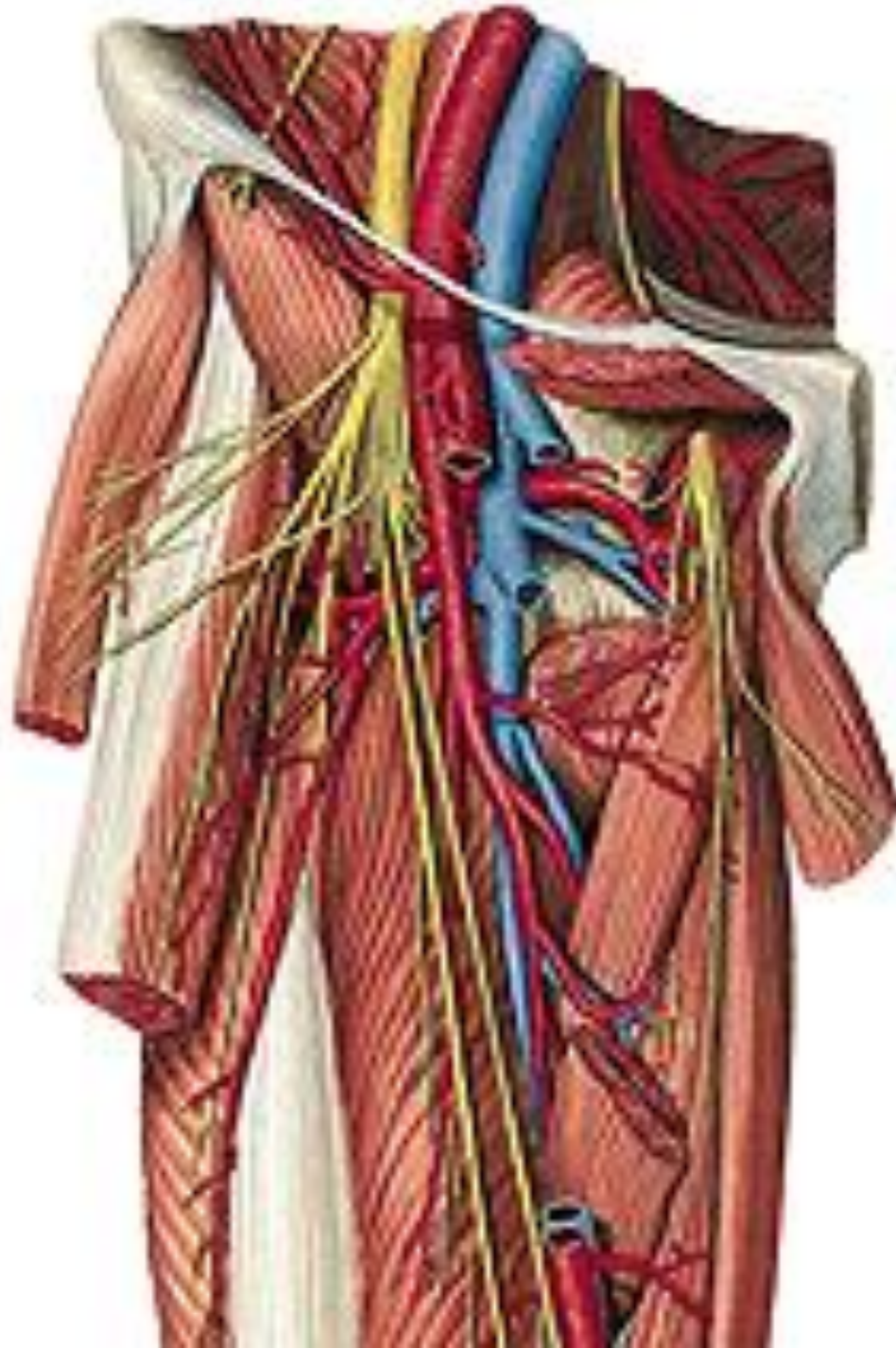
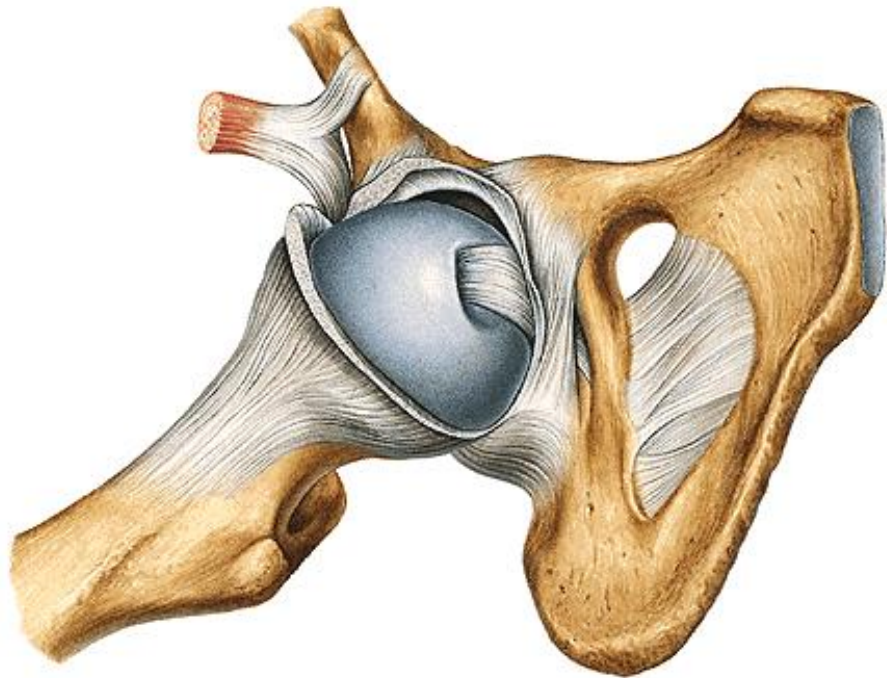


A. OBTURATORIA

R. anterior

R. posterior

R. acetabularis

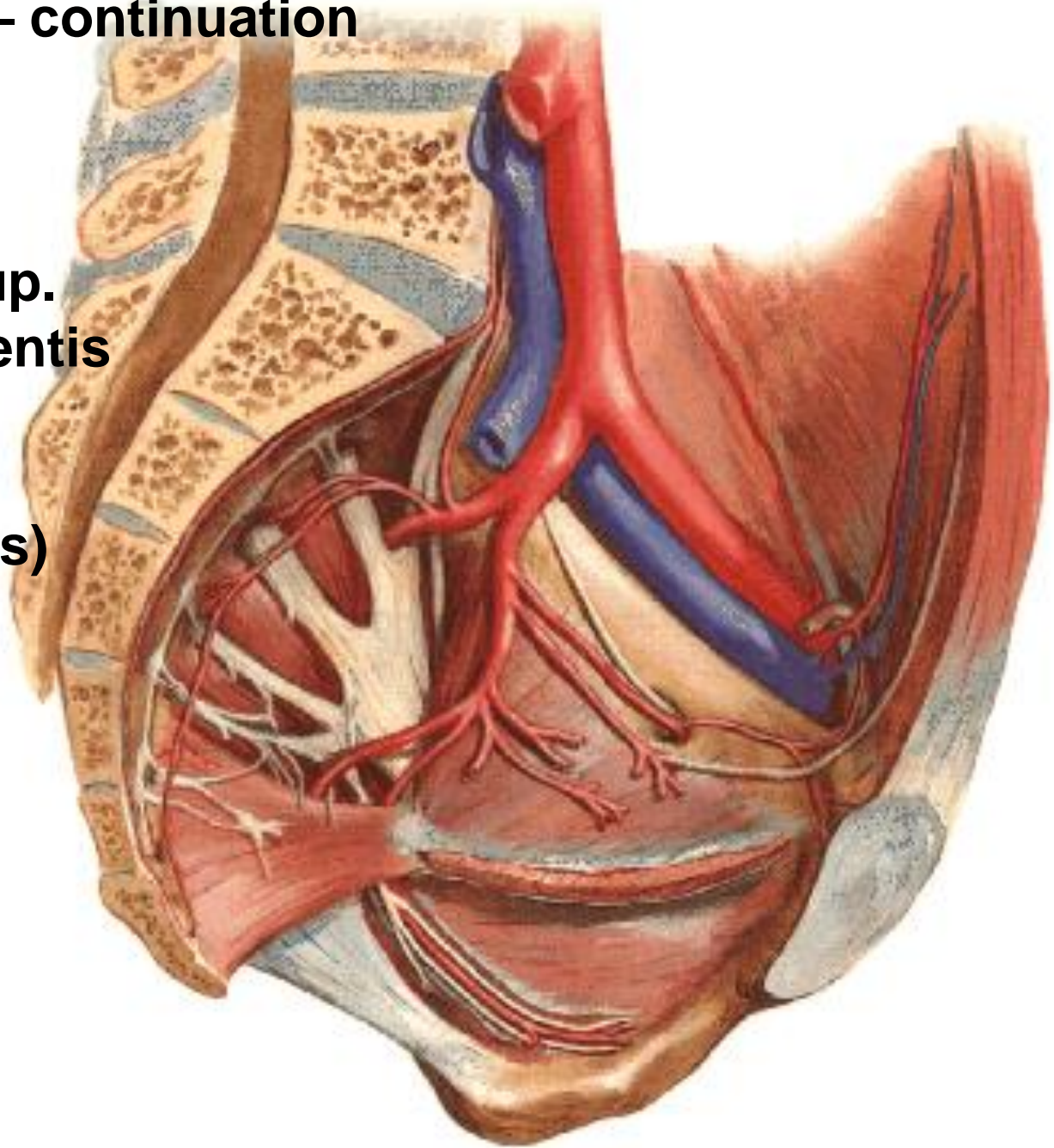


A. ILIACA INTERNA – continuation

Visceral branches

- a. umbilicalis
 - aa. vesicales sup.
 - a. ductus deferentis
 - rr. ureterici

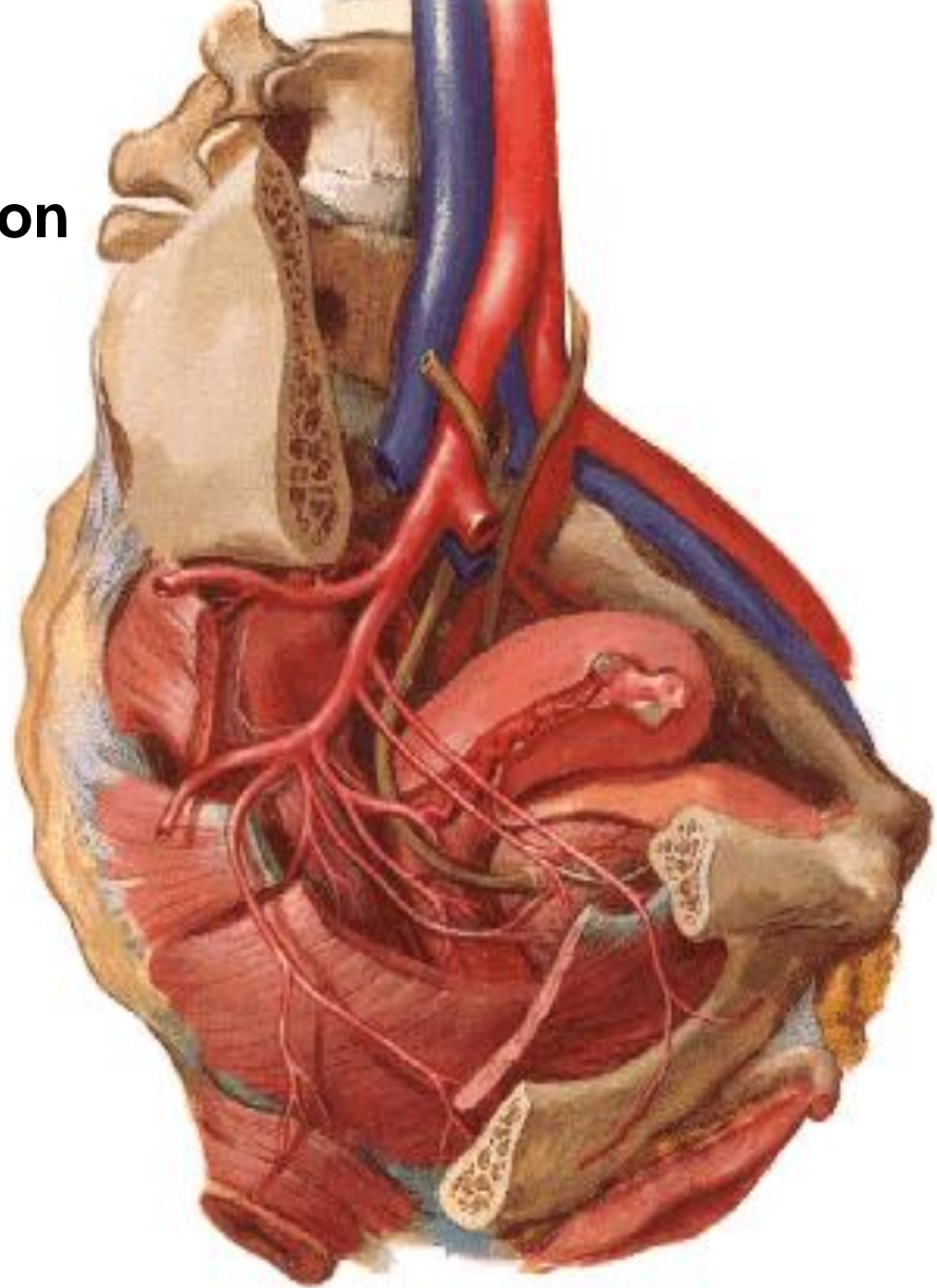
(chorda a. umbilicalis)



A. ILIACA INTERNA

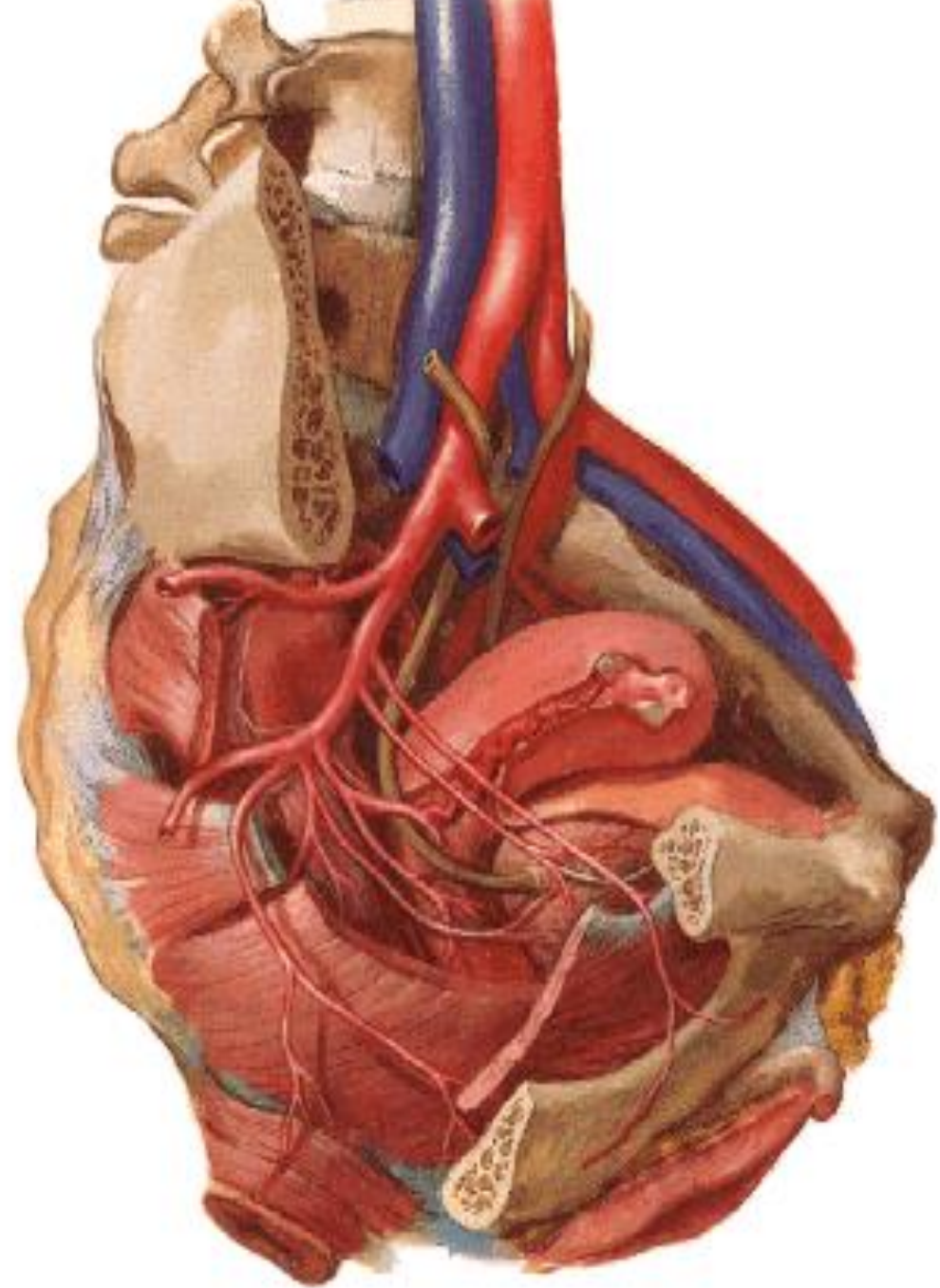
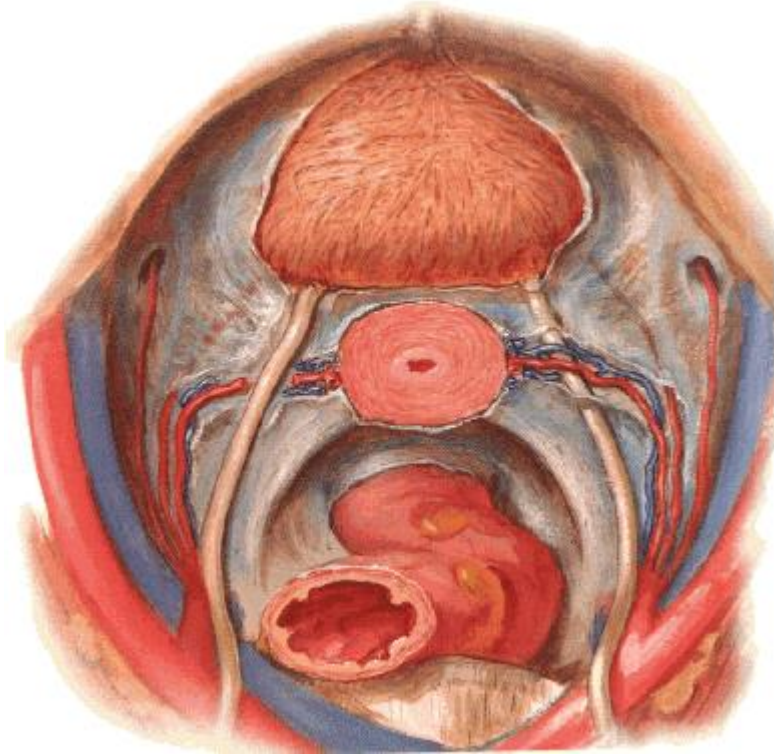
Visceral branches – continuation

- a. vesicalis inf.
- a. rectalis media
- a. uterina
- a. vaginalis
- a. pudenda interna



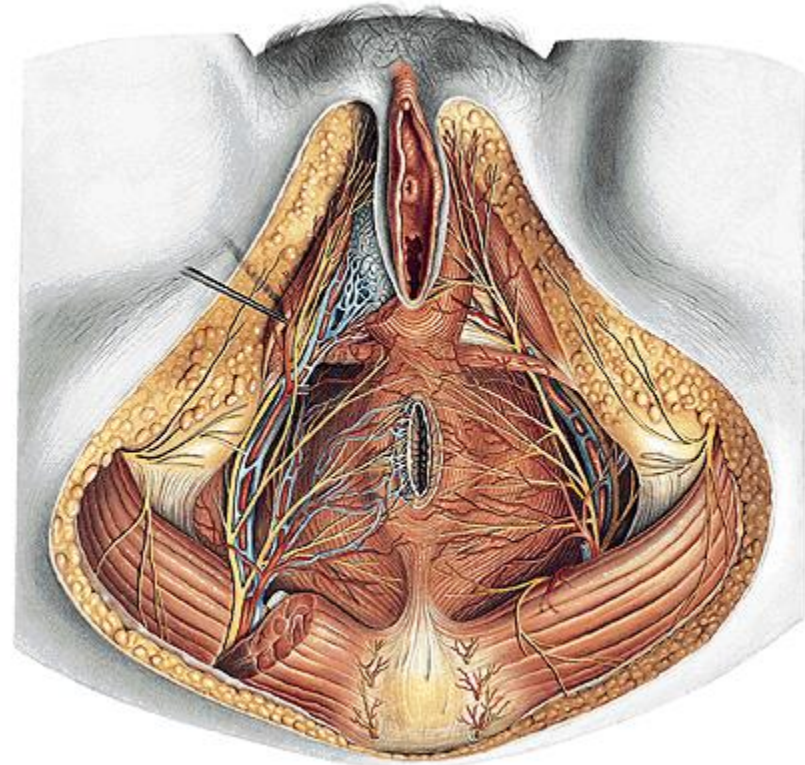
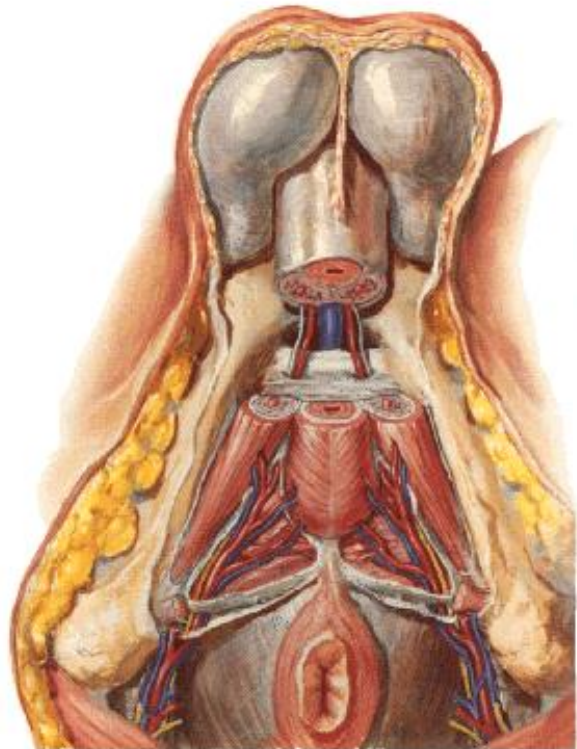
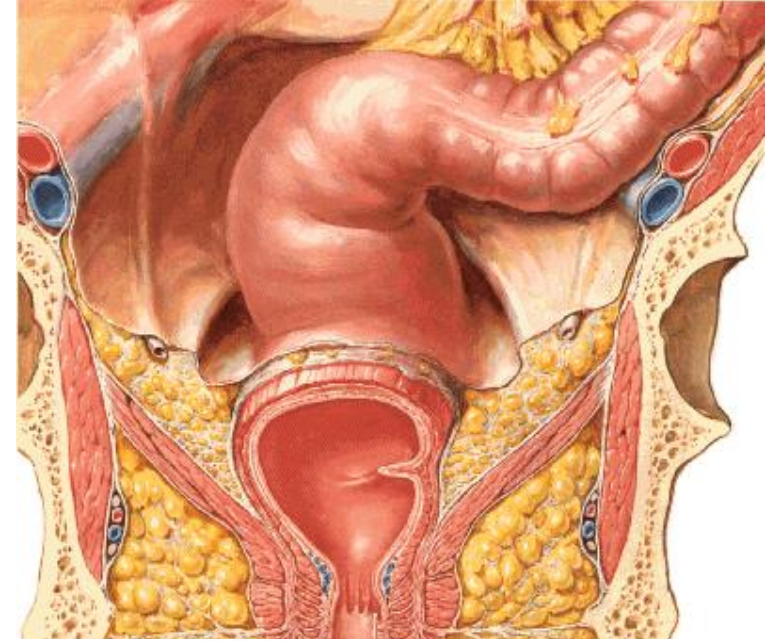
A. UTERINA

- r. uretericus
- rr. vaginales
- rr. helicini
- r. tubarius
- r. ovaricus



A. PUDENDA INTERNA

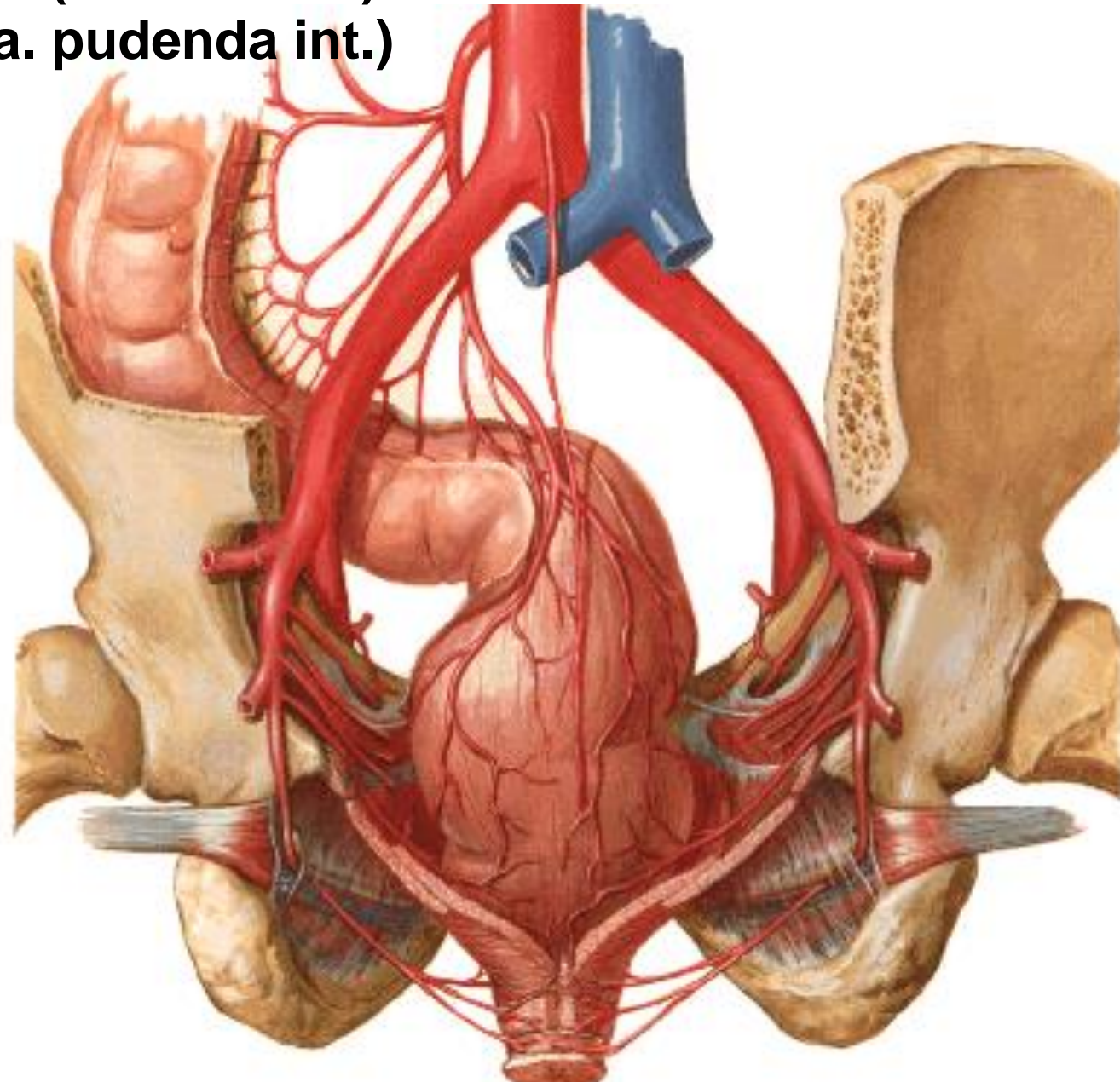
- a. rectalis inf.
- a. perinealis
- a. urethralis (male)
- rr. scrotales (labiales) post.
- a. bulbi penis (bulbi vestibuli)
- a. dorsalis penis (clitoridis)
- a. profunda penis (clitoridis)
 - aa. helicinae



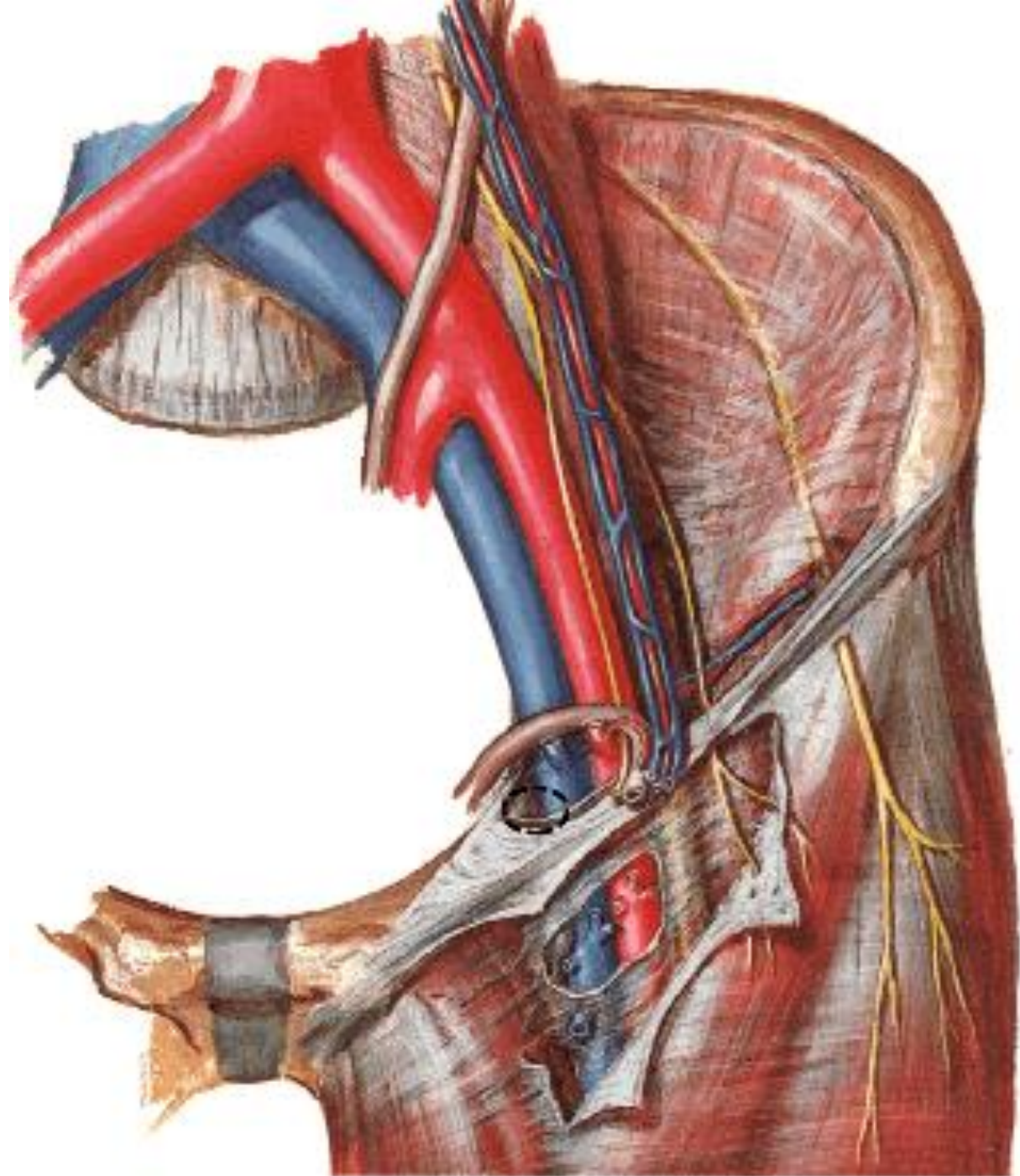
A. rectalis sup. (a. mesenterica inf.)

A. rectalis media (a. iliaca int.)

A. rectalis inf. (a. pudenda int.)



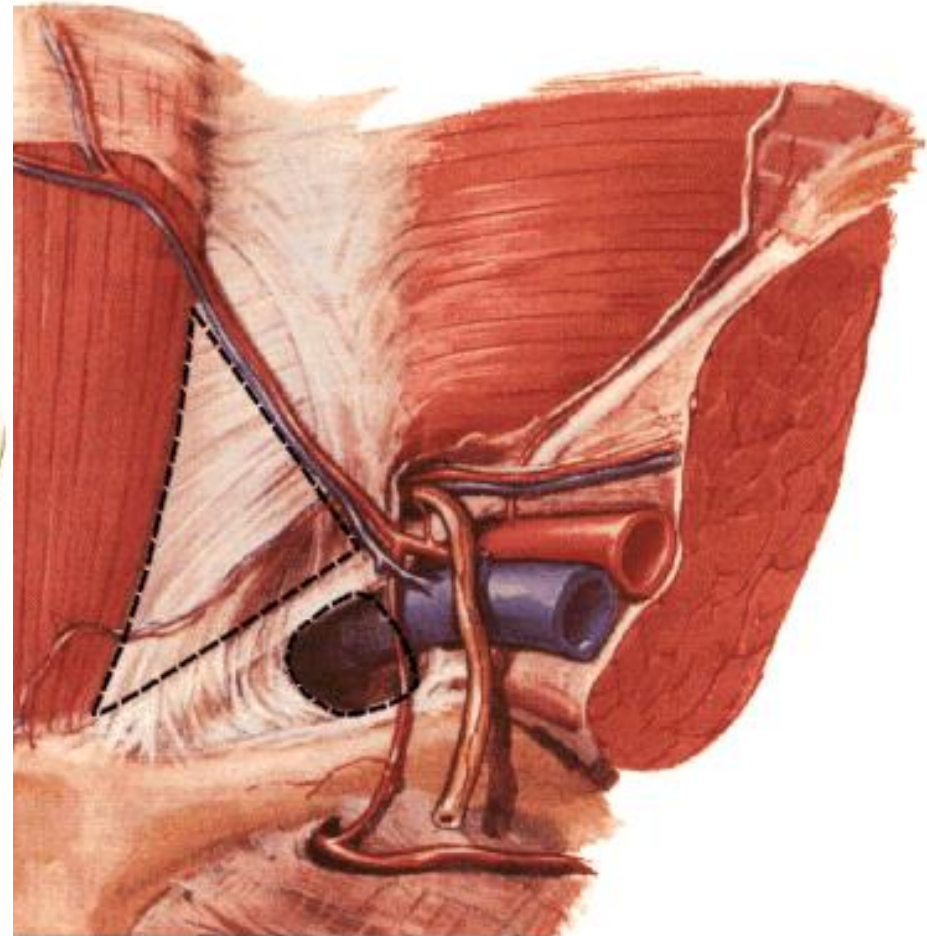
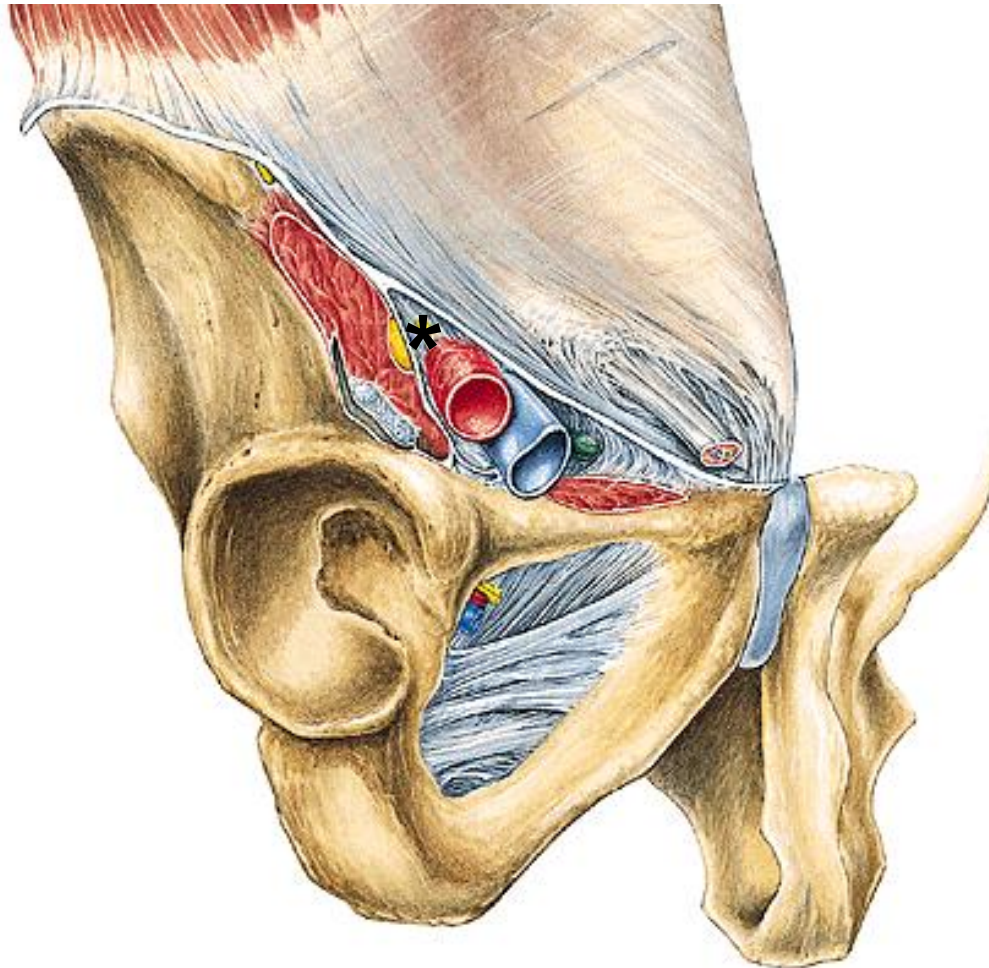
A. iliaca ext.



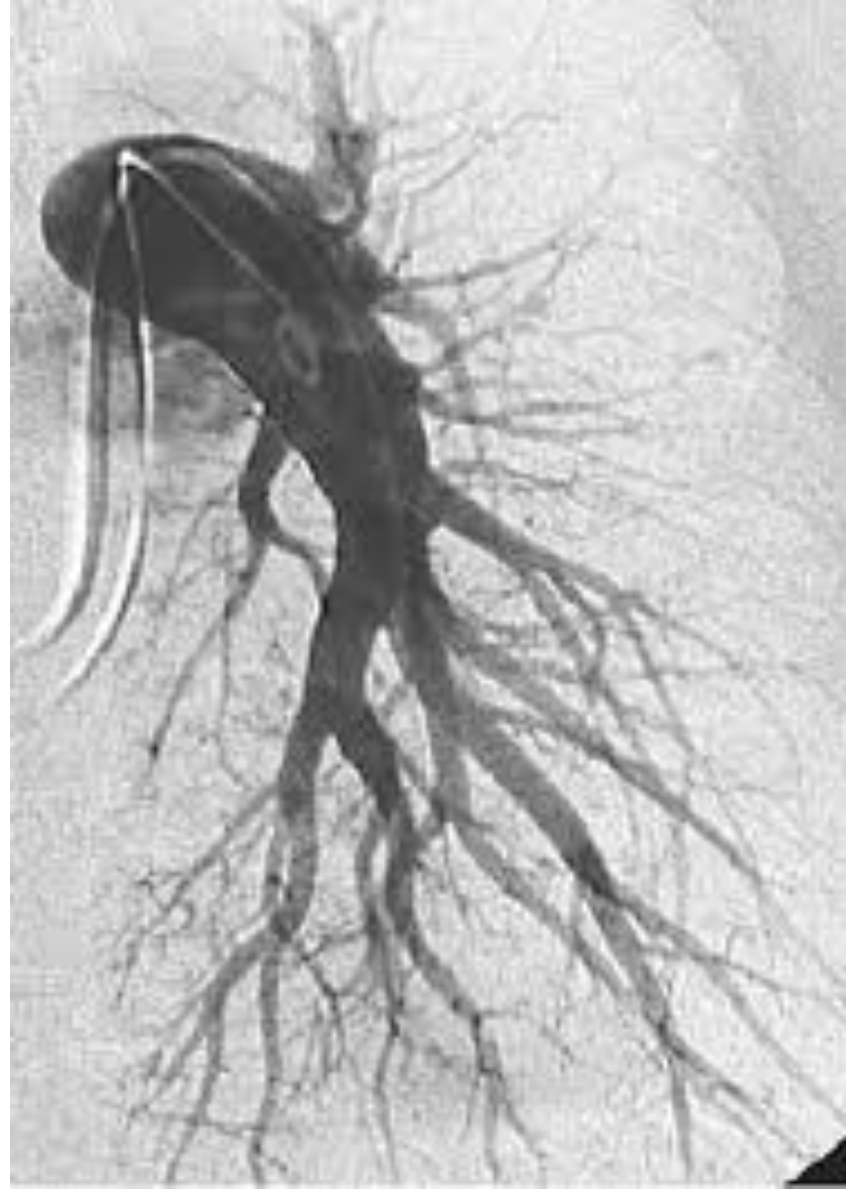
***Lacuna vasorum – anulus femoralis**

Lacuna musculorum

Vessels of the lower limb see together with topography



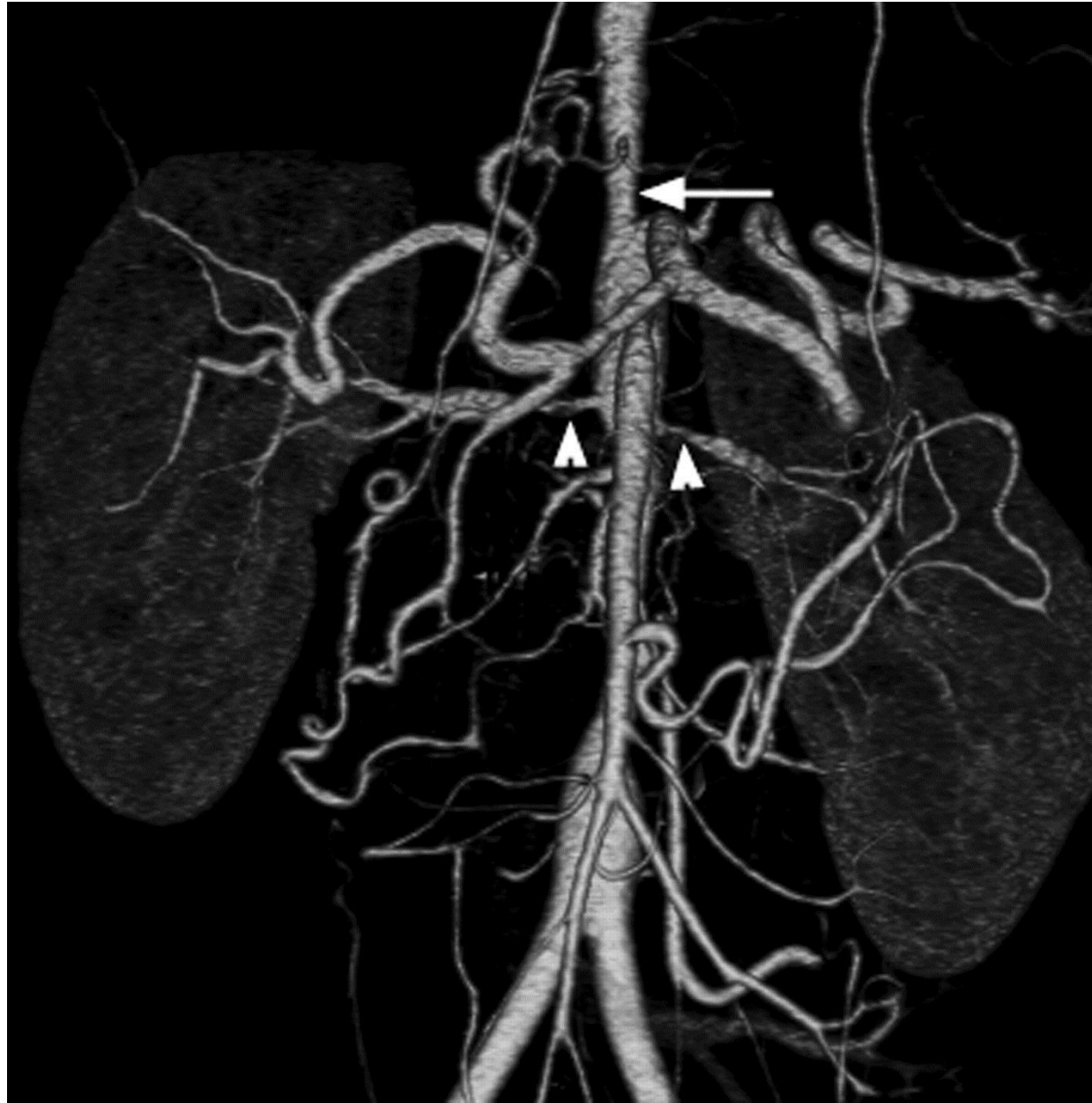
Pulmonary angiography



Magnetic resonance angiography



CT angiography



Illustrations 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**

**Čihák R: Anatomie 2 (Splanchnologia). Avicenum,
zdravotnické nakladatelství, Praha, 1988.**