

Arteriae

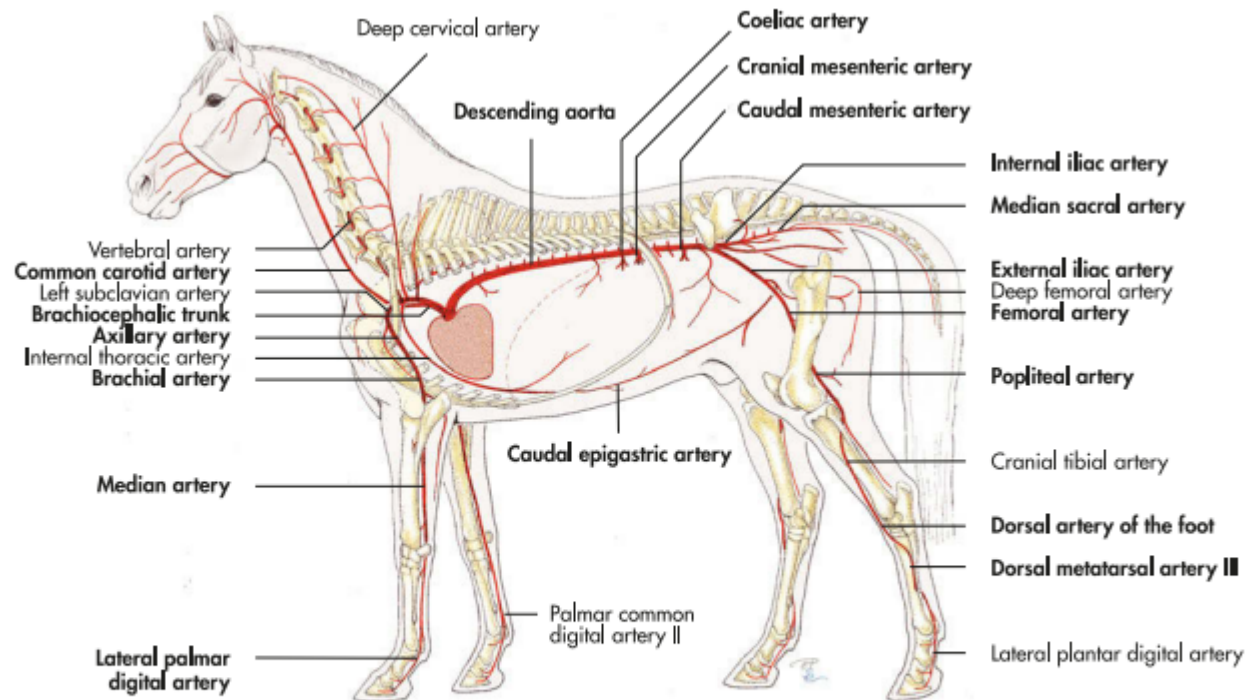


Fig. 13.20 Main branches of the aorta of the horse (schematic).



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- Prof. dr Miloš Blagojević
 - Katedra za anatomiju
 - Fakultet veterinarske medicine
 - Beograd, Republika Srbija
 - mblagojevic@vet.bg.ac.rs

Truncus pulmonalis

- ❑ **Ostium trunci pulmonalis**
- ❑ **Conus arteriosus**
- ❑ **Lig. arteriosum (Botalli) – Ductus arteriosus**
- ❑ **Ventralno od Bifurcatio tracheae: A. pulmonalis sinistra et dextra**

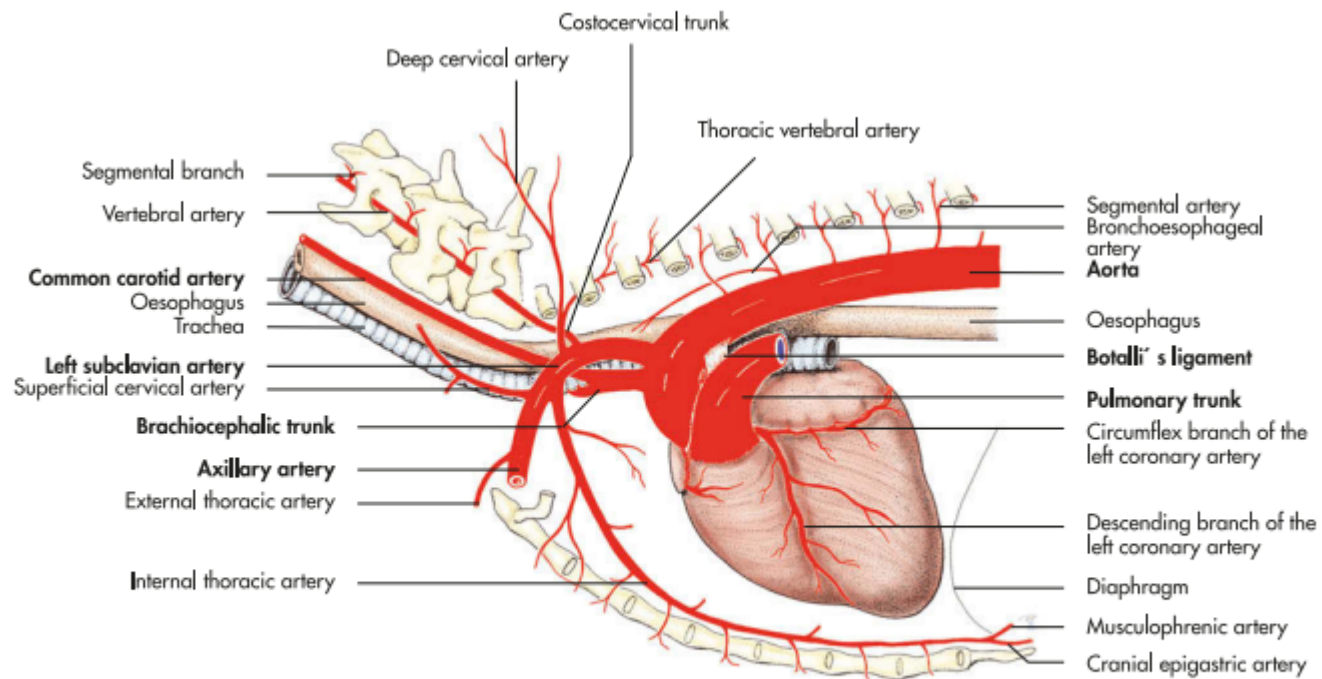
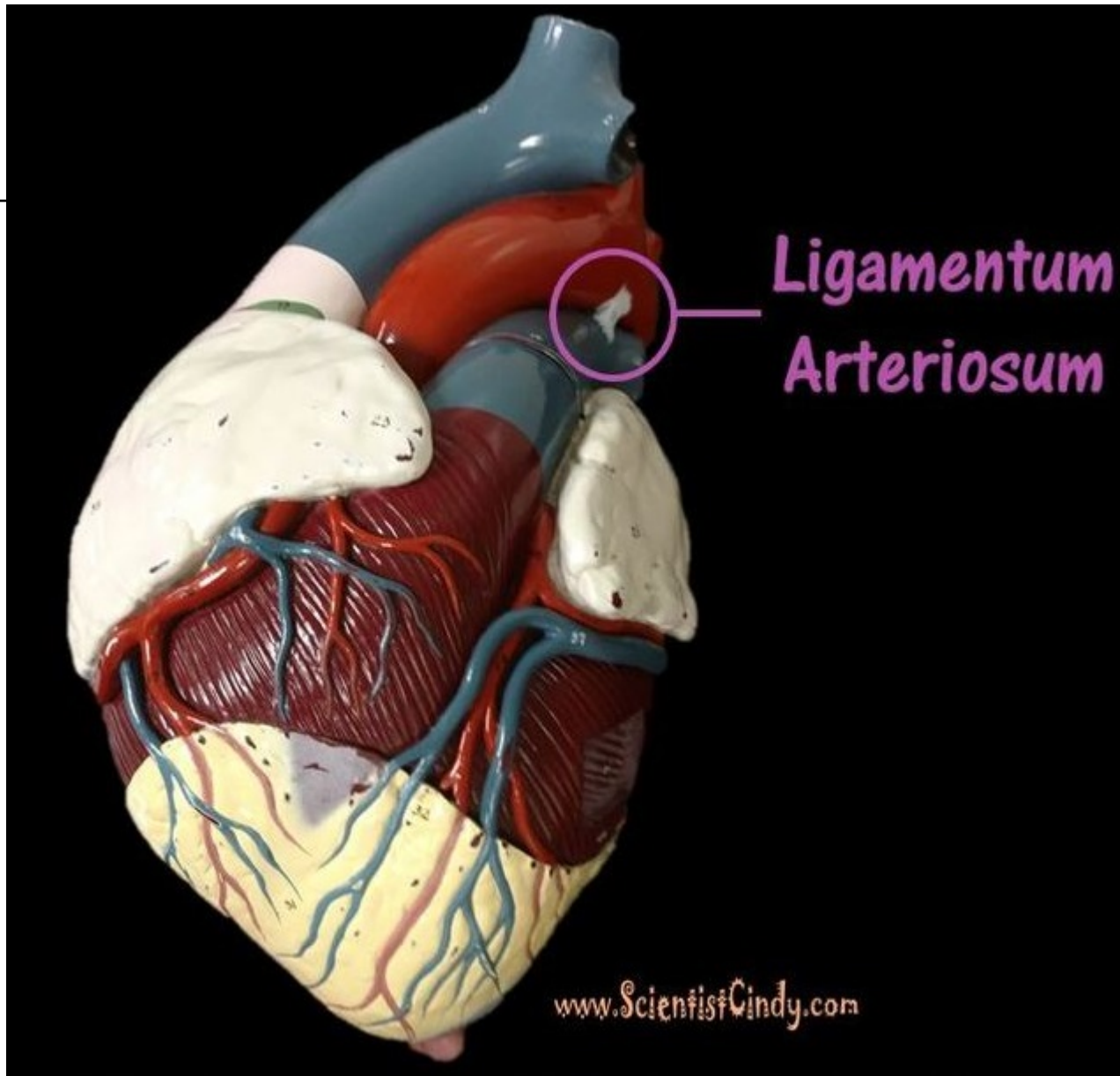


Fig. 13.14 Arteries of the base of the heart and the cranial mediastinum of the dog (schematic, left lateral aspect); fig. based on data from Ellenberger and Baum, 1943.



Ligamentum
Arteriosum

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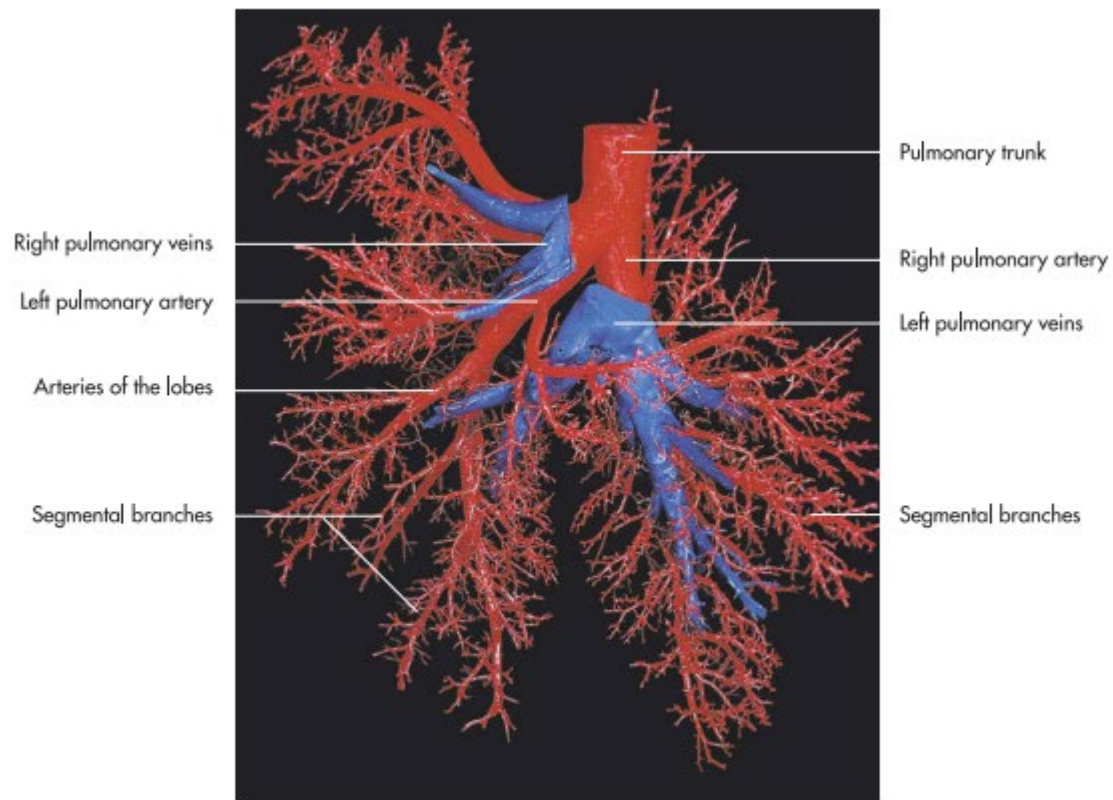
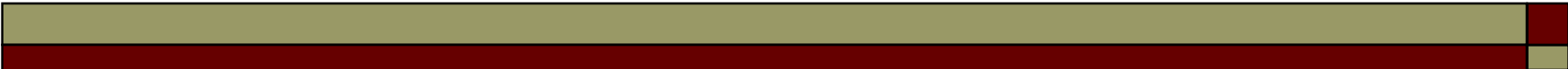


Fig. 13.13 Pulmonary vessels of a sheep (ventral aspect, corrosion cast). (source: courtesy of Prof. Dr. M. Navarro and A. Oliver, Barcelona)



Aorta

- ❑ **Ostium aortae**
- ❑ **Bulbus aortae**
- ❑ **Aorta ascendens**
- ❑ **Arcus aortae**
- ❑ **Aorta descendens**
- ❑ **Aorta thoracica**
- ❑ **Aorta abdominalis**

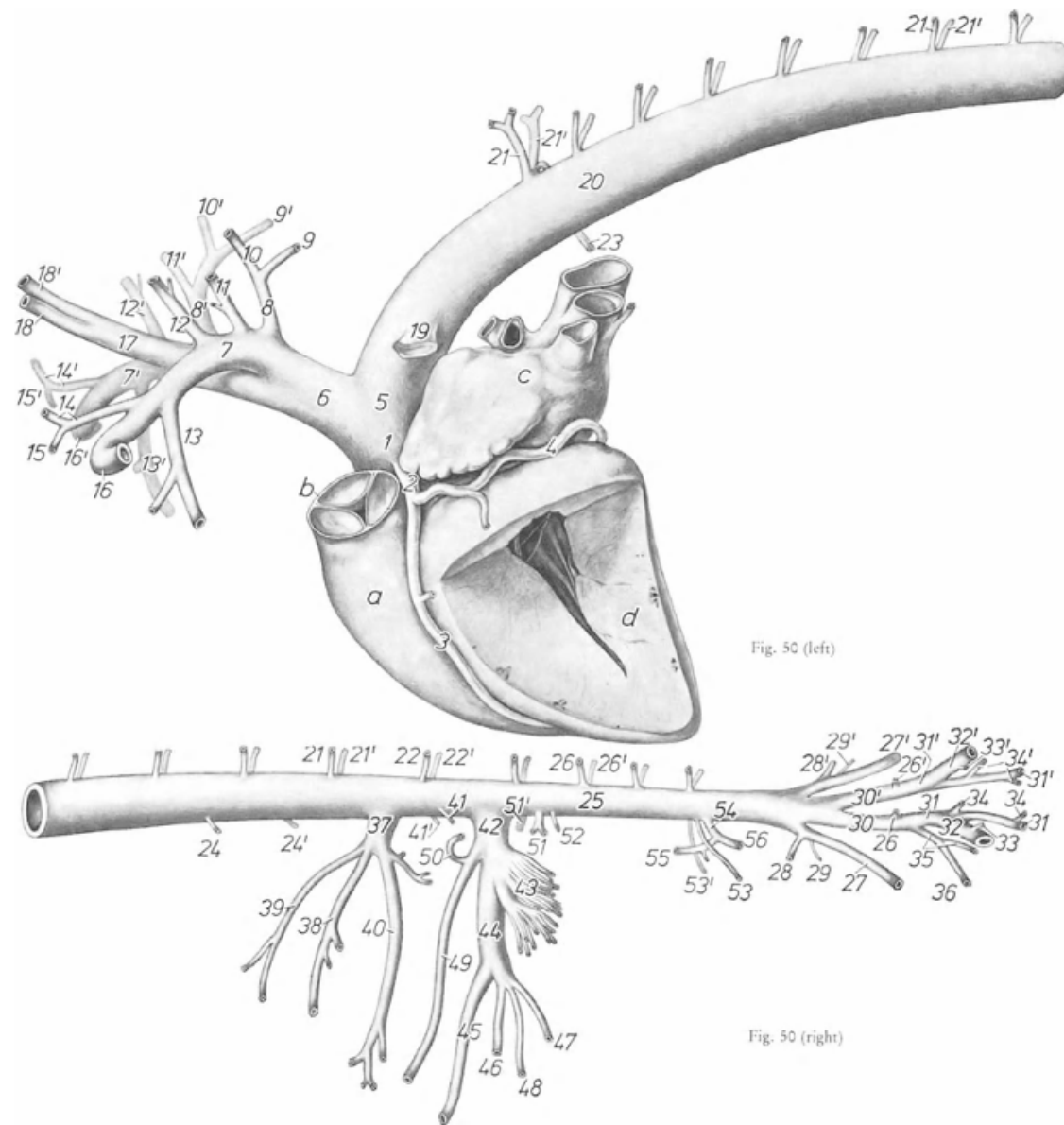


Fig. 50 (left)

Fig. 50 (right)

Fig. 50. Heart and aorta of a horse. Left view.
(After Schummer, unpublished). The arteries of the right side are identified by numbers with apostrophe.

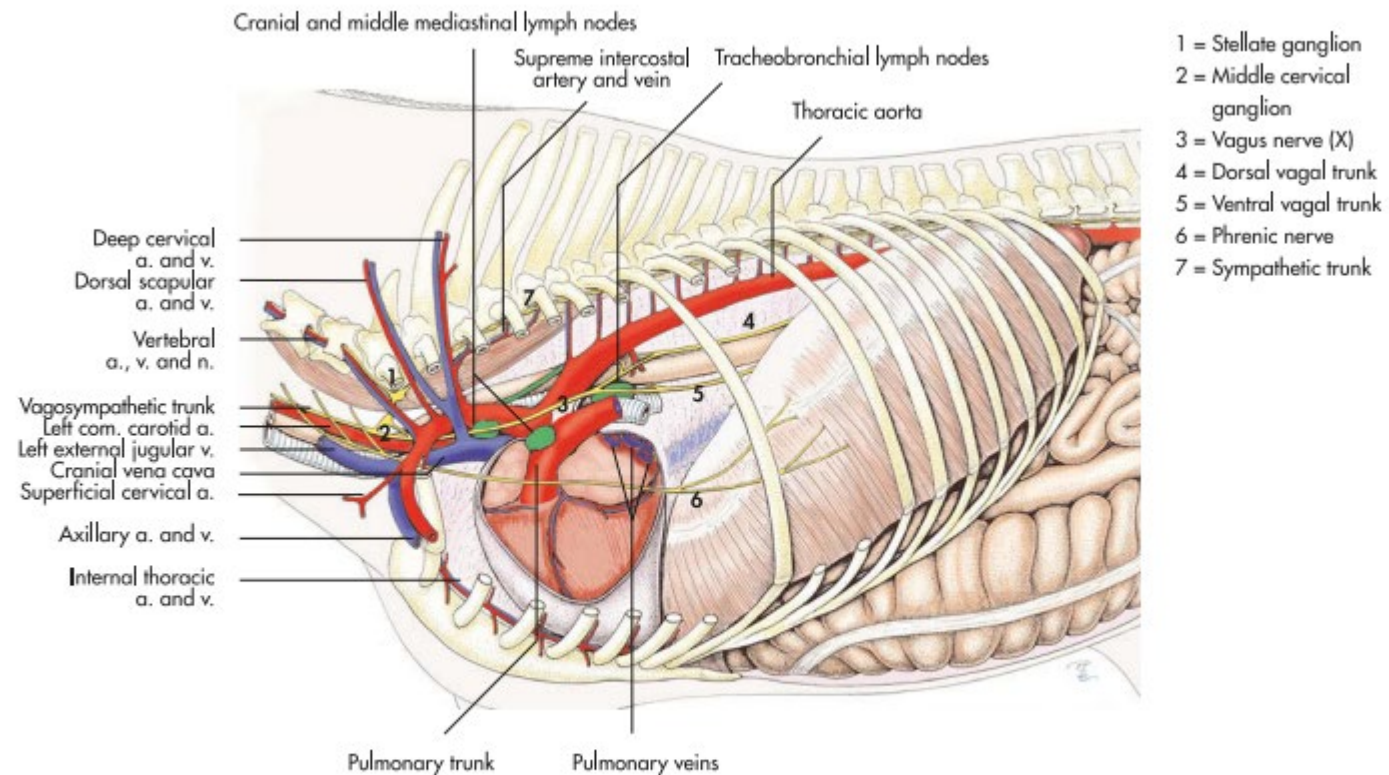


Fig. 20.26 Topography of the organs and structures of the opened thorax in the horse (schematic, view from the left).

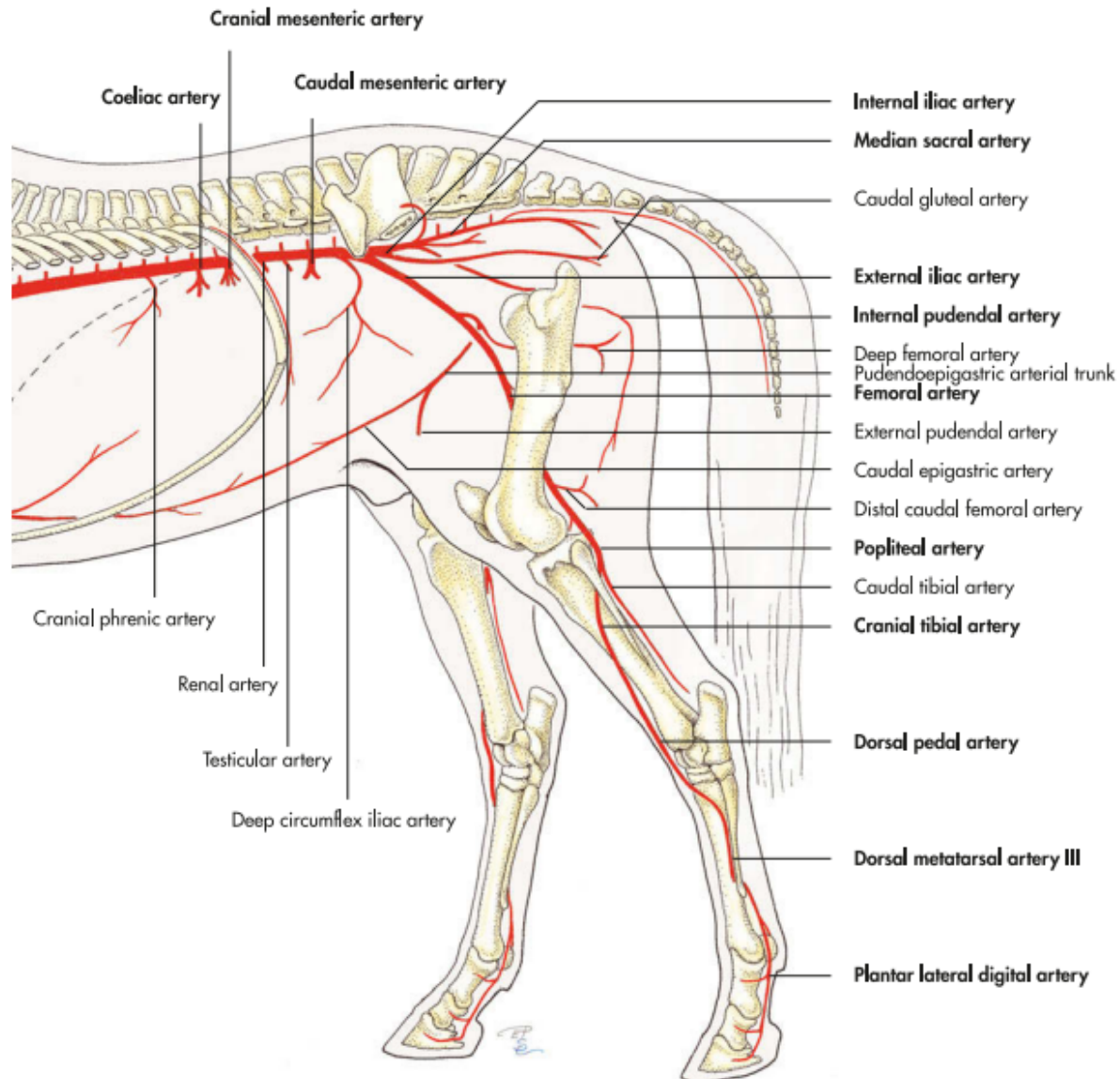


Fig. 13.24 Abdominal aorta and its larger branches of the horse (schematic).



Aa. cordis

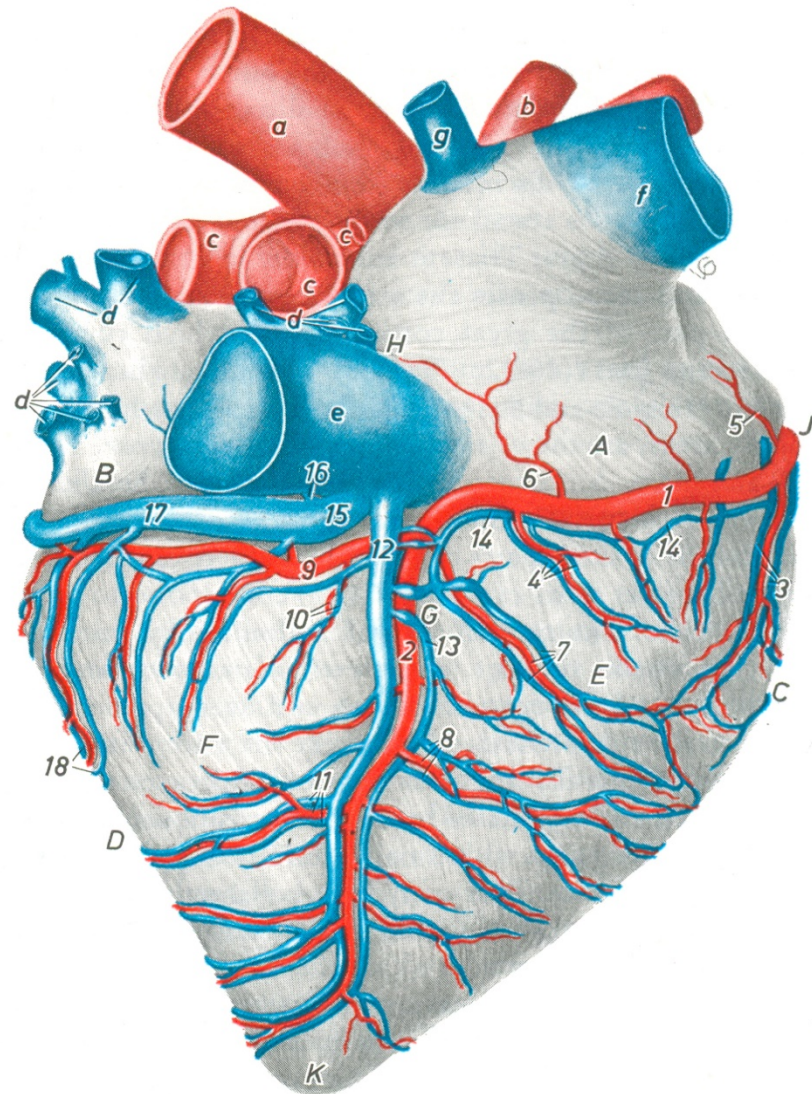
- ☐ **A. coronaria dextra**
- ☐ **Ramus circumflexus**
- ☐ **Ramus interventricularis subsinuosus**

Fig. 48. Arteries and veins of the facies atrialis of the heart of the horse. (After Hoffmann, Diss. med. vet., Giessen, 1960.)

A atrium dext.; *B* atrium sin.; *C* margo ventricularis dext.; *D* margo ventricularis sin.; *E* ventriculus dext.; *F* ventriculus sin.; *G* sulcus interventricularis subsinuosus; *H* sinus venarum cavarum; *J* sulcus coronarius, pars dext.; *K* apex cordis

a arcus aortae; *b* truncus brachiocephalicus communis; *c, c* aa. pulmonales; *d* vv. pulmonales; *e* v. cava caud.; *f* v. cava cran.; *g* v. azygos dext.

1 r. circumflexus of the a. coronaria dext., 2 its r. interventricularis subsinuosus; 3 r. marginis ventricularis dext. and vv. cordis parvae; 4 r. dist. ventriculi dext. and vv. cordis parvae; 5 r. intermed. atrii dext.; 6 r. dist. atrii dext.; 7 r. collateralis dext. prox. and branch of the v. cordis media; 8 r. collateralis dext. dist. and branch of the v. cordis media; 9 r. coronarius sin. and branch of the v. cordis media; 10 v. paracoronaria; 11 r. and v. collateralis ventriculi sin.; 12 v. cordis media, 13 its parallel branch; 14 bypass vein of the vv. cordis parvae; 15 sinus coronarius; 16 v. obliqua atrii sin.; 17 v. cordis magna and transition into its pars circumflexa; 18 v. dist. ventriculi sin.



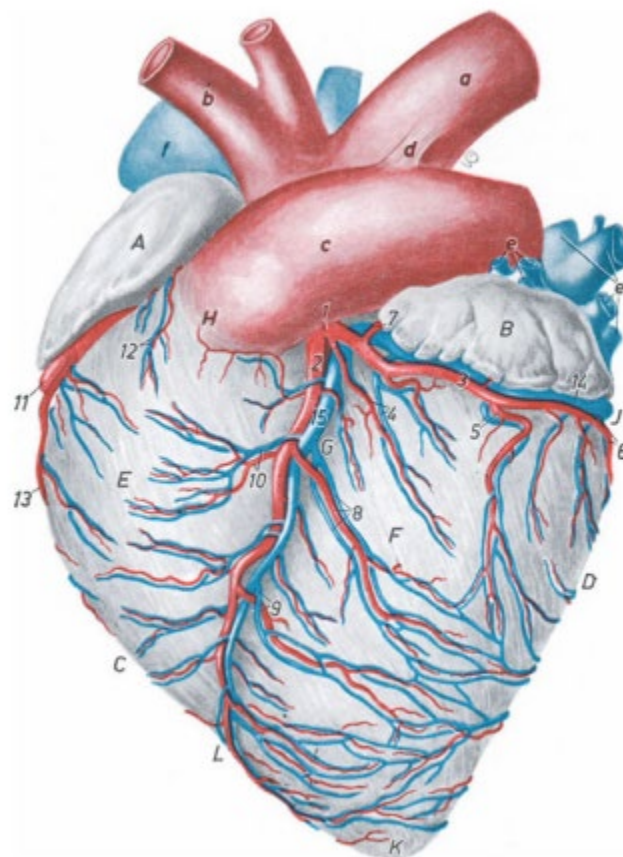
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- ❑ **A. coronaria sinistra**
 - ❑ **Ramus circumflexus**
 - ❑ **Ramus interventricularis paraconalis**

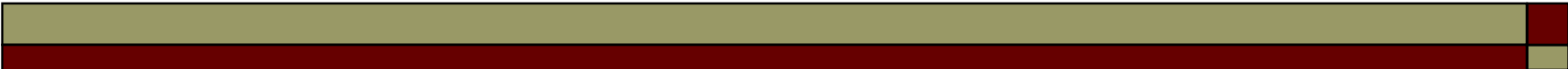
Fig. 47. Arteries and veins of the auricular surface of the heart of the horse. (After Hoffmann, Diss. med. vet., Giessen, 1960.)

A right auricle; *B* left auricle; *C* margo ventricularis dext.; *D* margo ventricularis sin.; *E* ventriculus dext.; *F* ventriculus sin.; *G* sulcus interventricularis paraconalis; *H* conus arteriosus; *I* sulcus coronarius, pars sin.; *K* apex cordis; *L* incisura apicis

a arcus aortae; *b* truncus brachiocephalicus communis; *c* truncus pulmonalis; *d* lig. arteriosum; *e* vv. pulmonales; *f* v. cava cran.

1 a. coronaria sin.; *2* its r. interventricularis paraconalis, *3* its r. circumflexus; *4* r. and v. angularis; *5* r. prox. ventriculi sin. and branch of the v. cordis magna; *6* r. marginis ventricularis sin. and branch of the v. cordis magna; *7* r. prox. atrii sin.; *8* r. collateralis sin. prox.; *9* r. collateralis sin. dist.; *10* r. and v. coni arteriosi; *11* r. circumflexus of the a. coronaria dext.; *12* r. coni arteriosi and v. cordis parva; *13* r. prox. ventriculi dext.; *14* r. circumflexus of the v. cordis magna; *15* v. interventricularis paraconalis





Arcus aortae et Truncus brachiocephalicus

- **eq/Ru** : Truncus brachiocephalicus
- **su/ca** : Truncus brachiocephalicus et a. subclavia sinistra

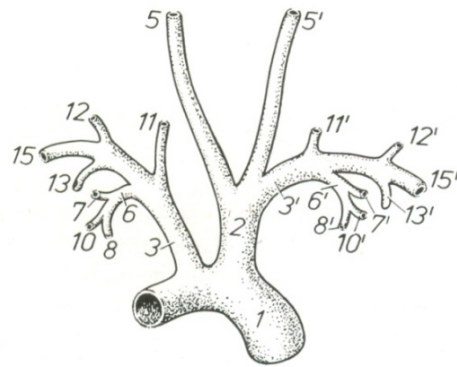


Fig. 51

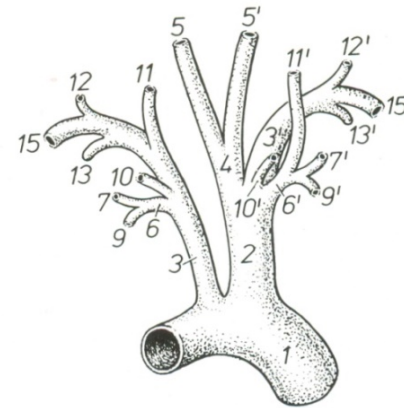


Fig. 52

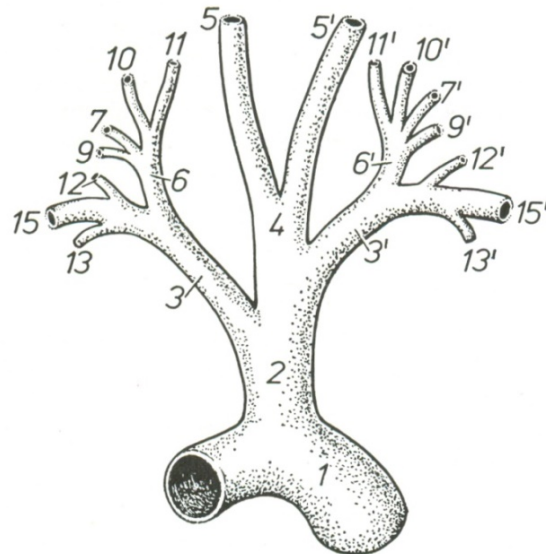


Fig. 53

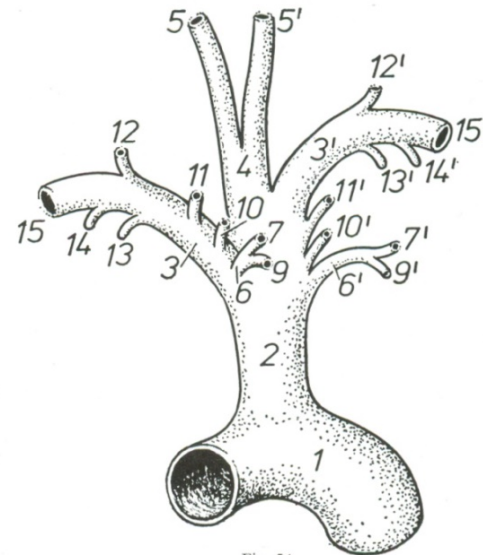


Fig. 54

Figs 51, 52, 53, 54. Arcus aortae and truncus brachiocephalicus of the dog, pig, ox and horse. Dorsal view.

1 arcus aortae; 2 truncus brachiocephalicus; 3 a. subclavia sinistra; 3' s. subclavia dextra; 4 truncus bicaroticus; 5 a. carotis communis sinistra; 5' a. carotis communis dextra; 6 truncus costocervicalis sinister; 6' truncus costocervicalis dexter; 7 a. scapularis dorsalis sinistra; 7' a. scapularis dorsalis dextra; 8 a. vertebralis thoracica sinistra; 8' a. vertebralis thoracica dextra; 9 a. intercostalis suprema sinistra; 9' a. intercostalis suprema dextra; 10 a. cervicalis profunda sinistra; 10' a. cervicalis profunda dextra; 11 a. vertebralis sinistra; 11' a. vertebralis dextra; 12 a. cervicalis superficialis sinistra; 12' a. cervicalis superficialis dextra; 13 a. thoracica interna sinistra; 13' a. thoracica interna dextra; 14 a. thoracica externa sinistra; 14' a. thoracica externa dextra, only shown in the horse where it arises more proximally; 15 a. axillaris sinistra; 15' a. axillaris dextra

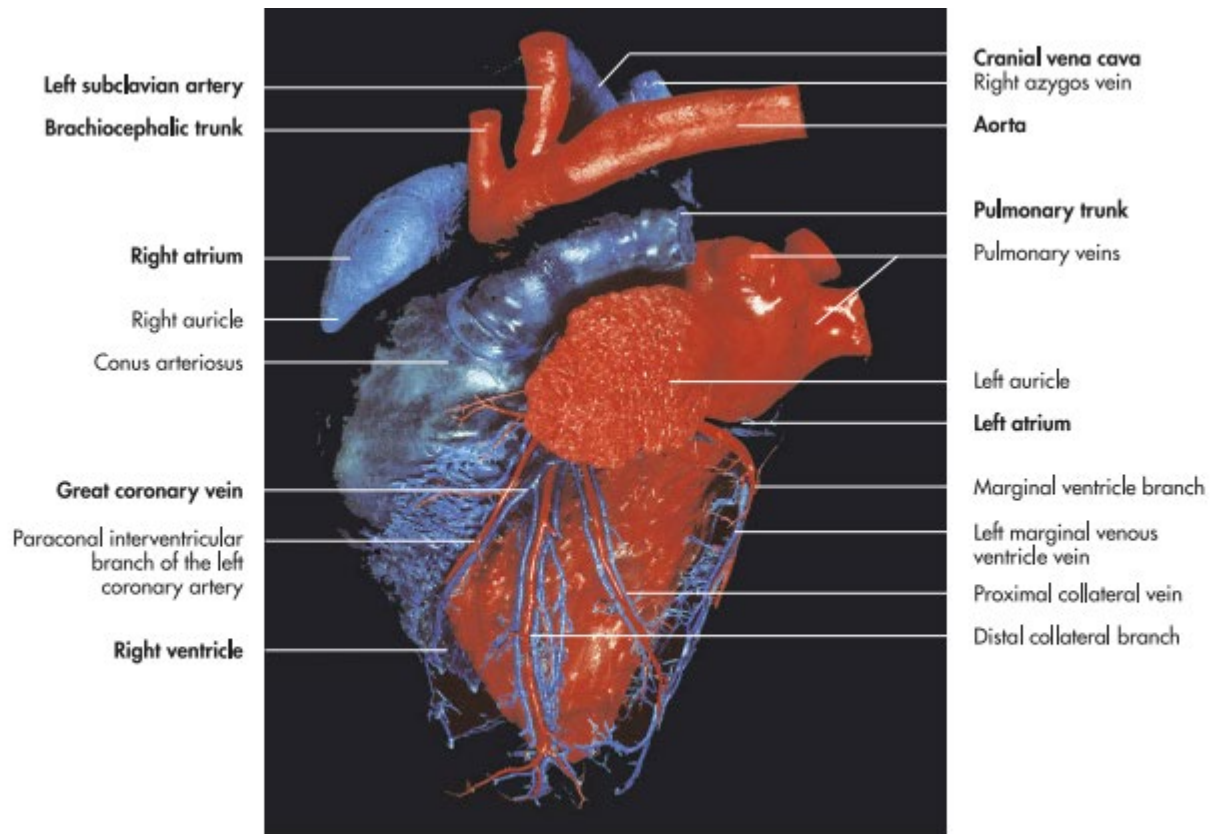


Fig. 13.10 Cardiac vessels of the heart of a dog (corrosion cast, left aspect). (source: courtesy of H. Dier, Vienna)

□ Spatium mediastini precordiale

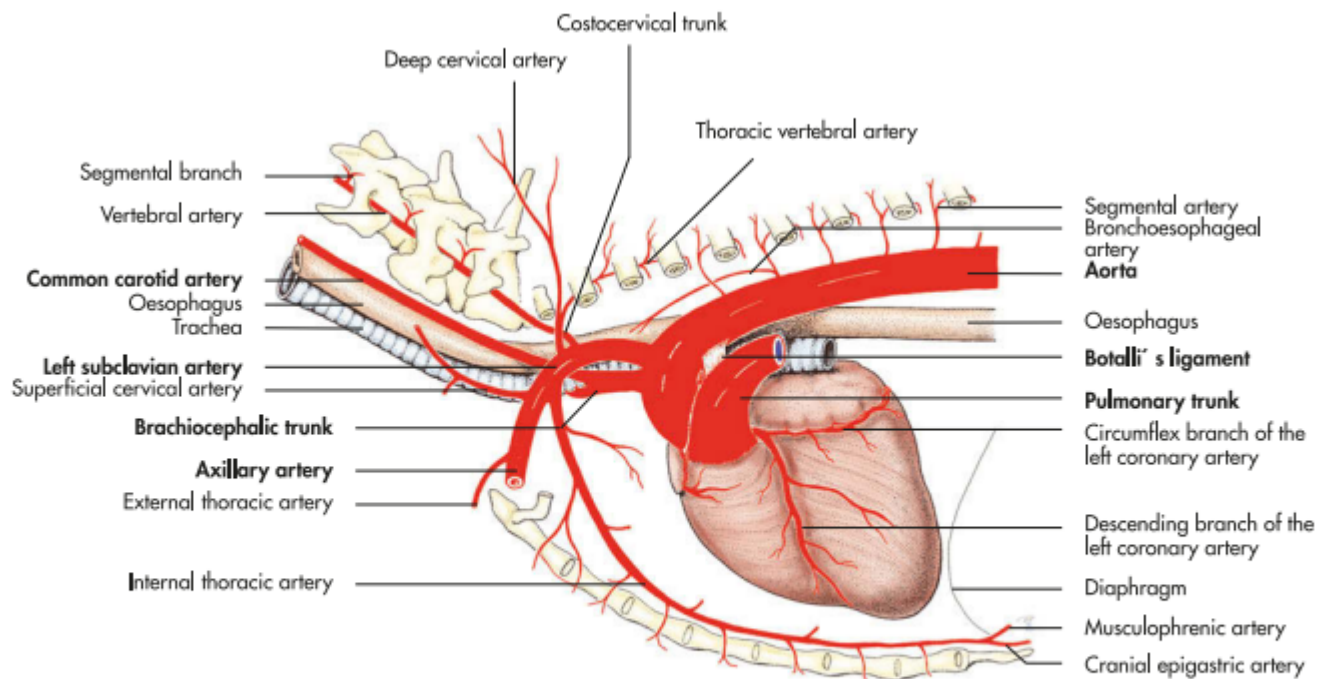
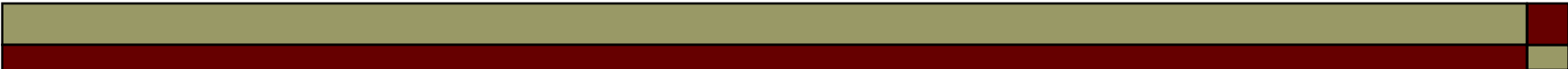


Fig. 13.14 Arteries of the base of the heart and the cranial mediastinum of the dog (schematic, left lateral aspect); fig. based on data from Ellenberger and Baum, 1943.

- 
-
- ❑ Grane Truncus brachiocephalicus:
 - ❑ A. subclavia sinistra (eq, Ru)
 - ❑ Truncus costocervicalis dexter (eq, su)
 - ❑ A. cervicalis profunda dextra (eq, su)
 - ❑ A. vertebralis dextra (eq)
 - ❑ A. subclavia dextra
 - ❑ Truncus bicaroticus (Ru, eq, su)
 - ❑ Aa. carotides communes (ca)

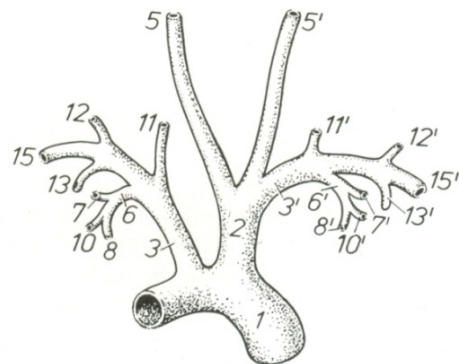


Fig. 51

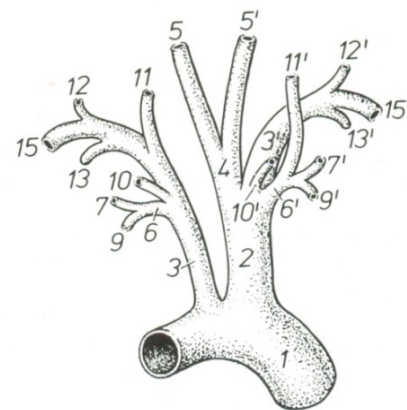


Fig. 52

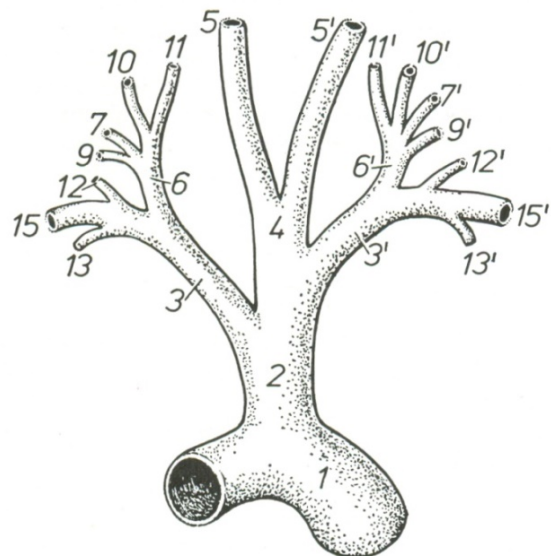


Fig. 53

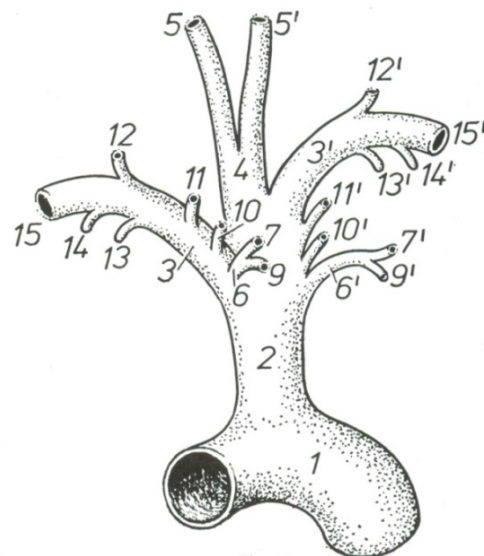
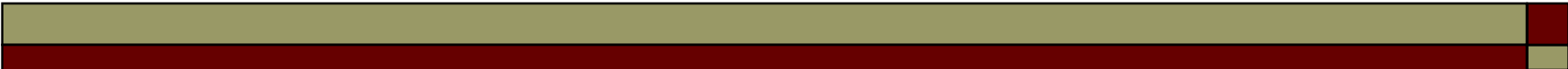


Fig. 54

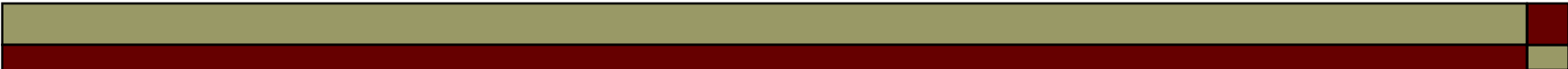
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A. subclavia sinistra

- ❑ A. vertebralis
- ❑ A. cervicalis profunda (eq, su)
- ❑ Truncus costocervicalis
- ❑ A. scapularis dorsalis (su)
- ❑ A. thoracica interna
- ❑ A. cervicalis superficialis



A. subclavia dextra

- ❑ Truncus costocervicalis (Ru, ca)
- ❑ A. cervicalis superficialis
- ❑ A. thoracica interna

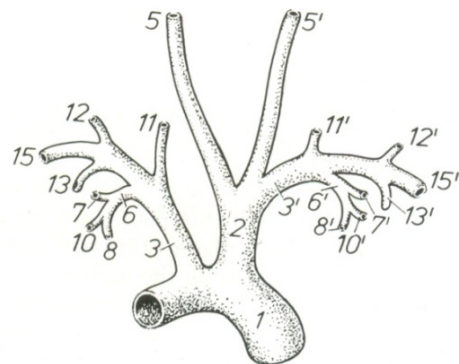


Fig. 51

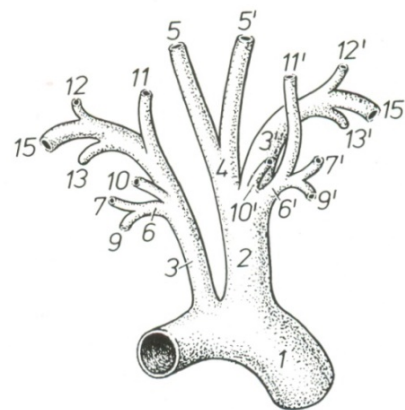


Fig. 52

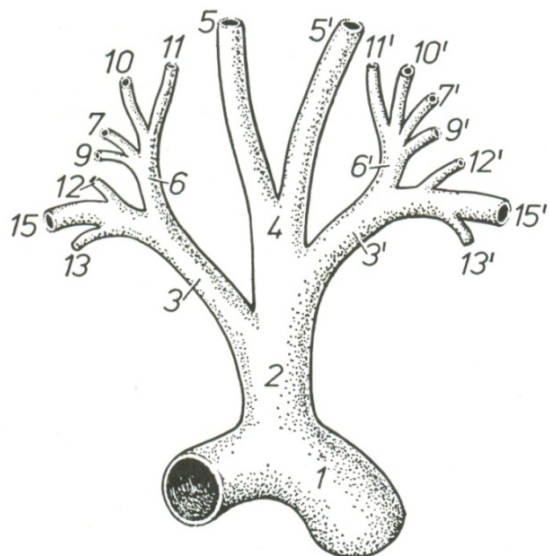


Fig. 53

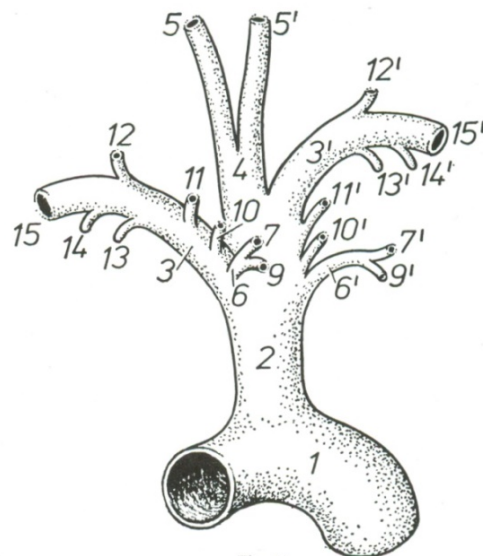


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Arterije prednjeg ekstremiteta

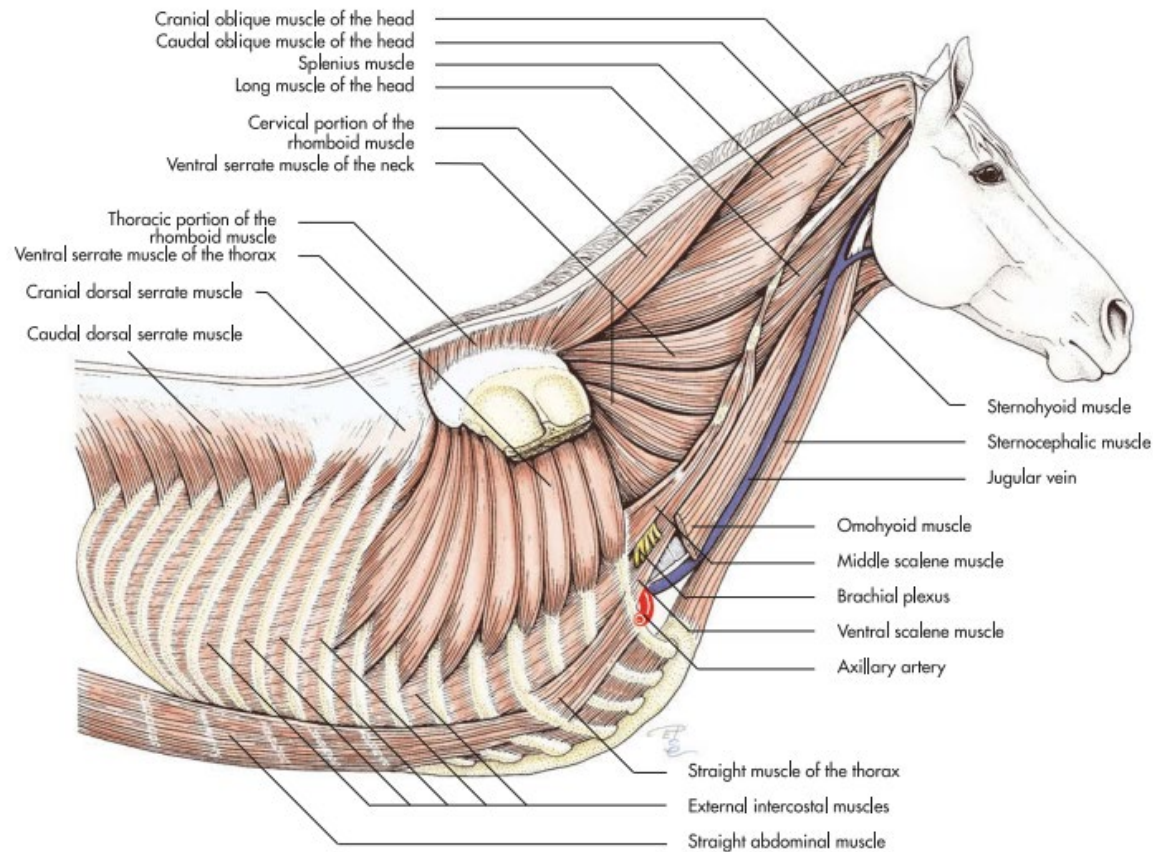
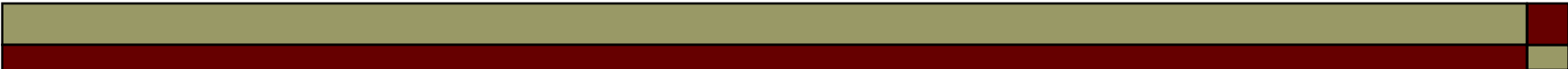
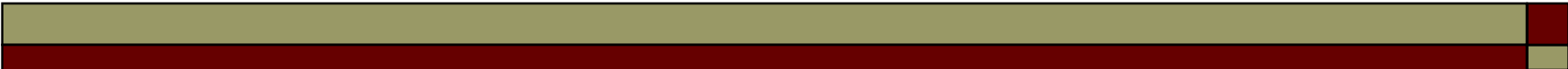


Fig. 3.12 Superficial muscles of the trunk of the horse (schematic); fig. based on data from Ghetie, 1954.

- 
-
- ❑ **A. axillaris:**
 - ❑ A. thoracica externa
 - ❑ A. thoracica lateralis (ca)
 - ❑ A. suprascapularis (Bo, eq)
 - ❑ A. subscapularis
 - ❑ A. circumflexa humeri cranialis (eq, ca)

- 
-
- ❑ **A. brachialis:**
 - ❑ A. profunda brachii
 - ❑ A. bicipitalis
 - ❑ A. collateralis ulnaris
 - ❑ A. brachialis superficialis (ca)
 - ❑ A. transversa cubiti
 - ❑ A. interossea communis

- 
-
- ❑ **A. mediana:**
 - ❑ A. profunda antebrachii (Ru, eq, ca)
 - ❑ A. radialis proximalis (eq)
 - ❑ A. radialis
 - ❑ Ramus palmaris (eq)

- 
-
- ❑ **A. digitalis palmaris communis II (Eq)**
 - ❑ **Aa. digitales palmares communes II-IV (Ru, su)**
 - ❑ **Aa. digitales palmares communes I-IV (Car)**

 - ❑ **A. digitalis palmaris medialis et lateralis**

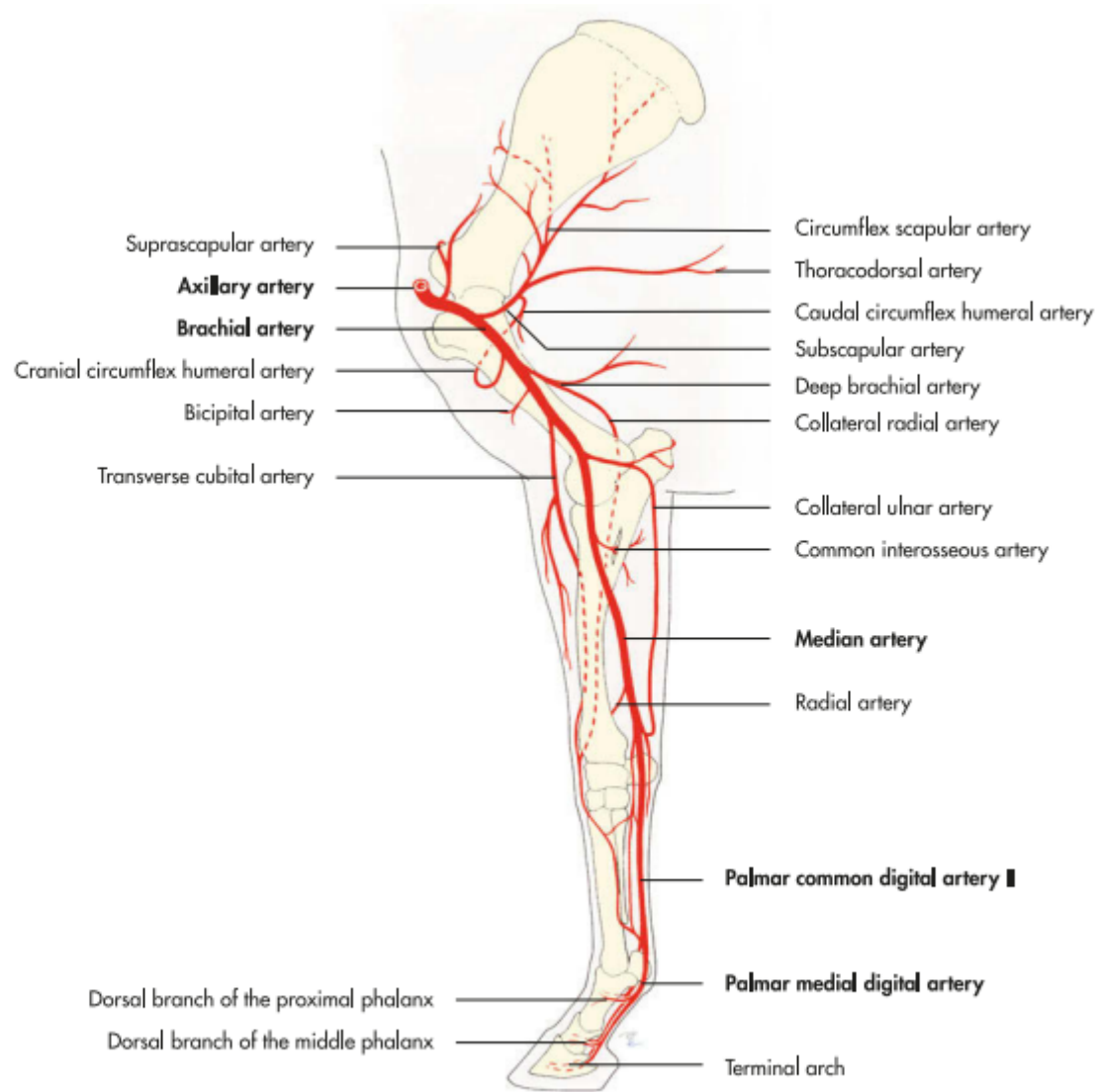


Fig. 13.17 Arteries of the thoracic limb of the horse (schematic, medial aspect); fig. based on data from Ellenberger and Baum, 1943.

Arterije vrata i glave

- ❑ **Truncus bicaroticus**
- ❑ Od Truncus brachiocephalicus odvoji se A. subclavia dextra (apertura thoracis cranialis).
- ❑ Dorzalno: esophagus, trachea
- ❑ Ventralno: v. cava cranialis

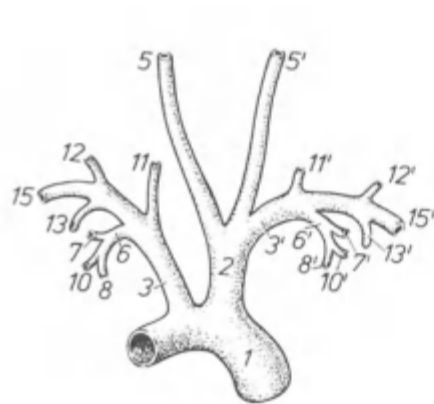


Fig. 51

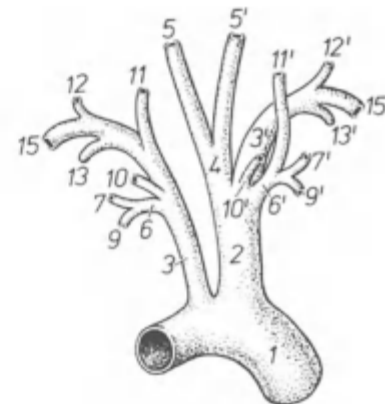


Fig. 52

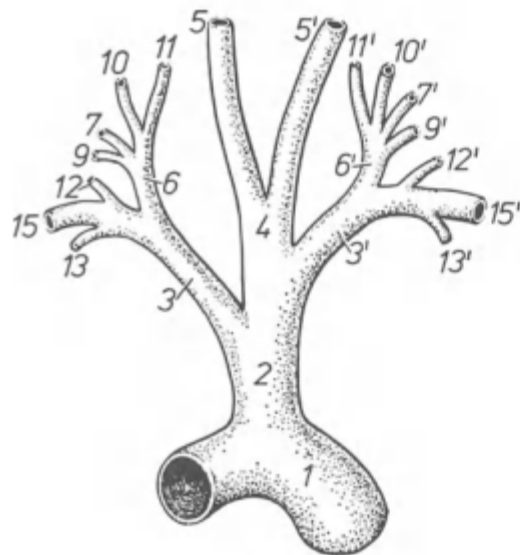


Fig. 53

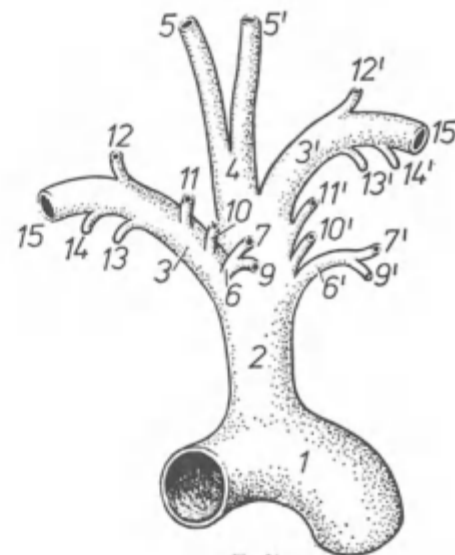


Fig. 54

Figs 51, 52, 53, 54. Arcus aortae and truncus brachiocephalicus of the dog, pig, ox and horse. Dorsal view.

-
- U predelu C_7 : **A. carotis communis sinistra et dextra.**

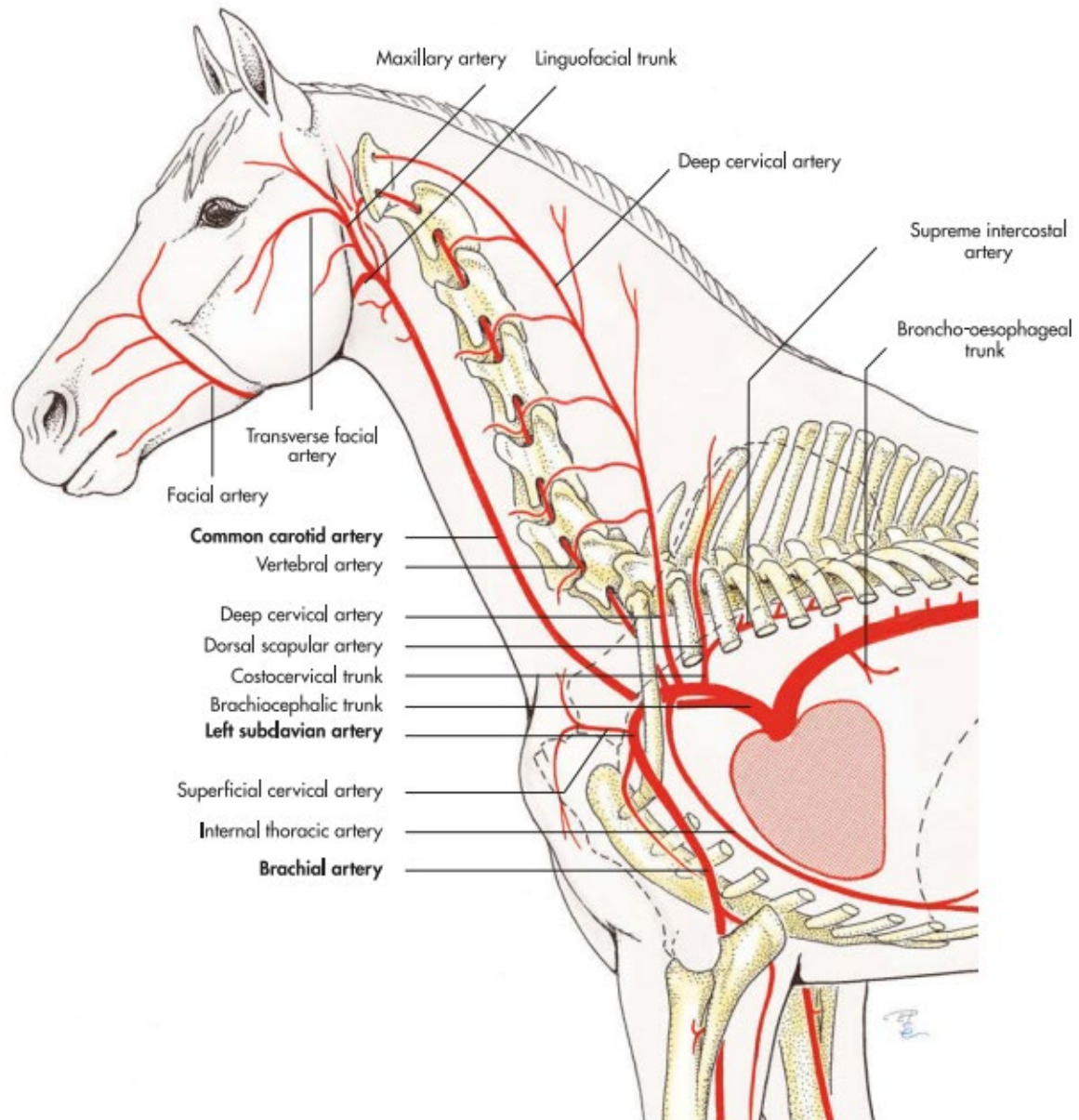


Fig. 13.19 Brachiocephalic trunk and its branches in the horse (schematic).

- 
-
- **Eq, su, ca:**
 - A. carotis interna
 - A. carotis externa

- 
-
- **Ru:**
 - A. occipitalis
 - A. carotis externa

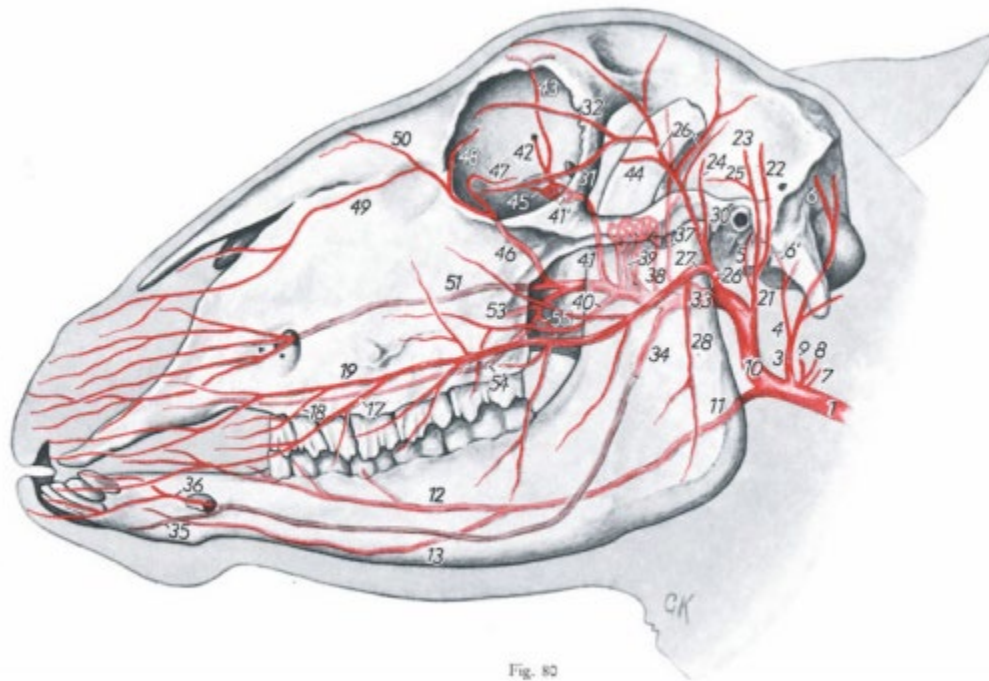
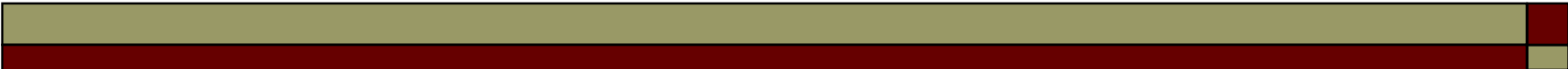


Fig. 80

Figs 77, 78, 79, 80, 81, 82. Arteries of the head of the cat, dog, pig, sheep, ox and horse.
Semidiagrammatic, left lateral view.
(After Nickel and Schwarz, 1961, study carried out at the Institute of Veterinary Anatomy, Hanover.)



A. carotis interna

- ❑ Sinus caroticus
- ❑ Foramen lacerum (**eq**)
- ❑ Foramen jugulare (**su**)
- ❑ Canalis caroticus (**ca**)

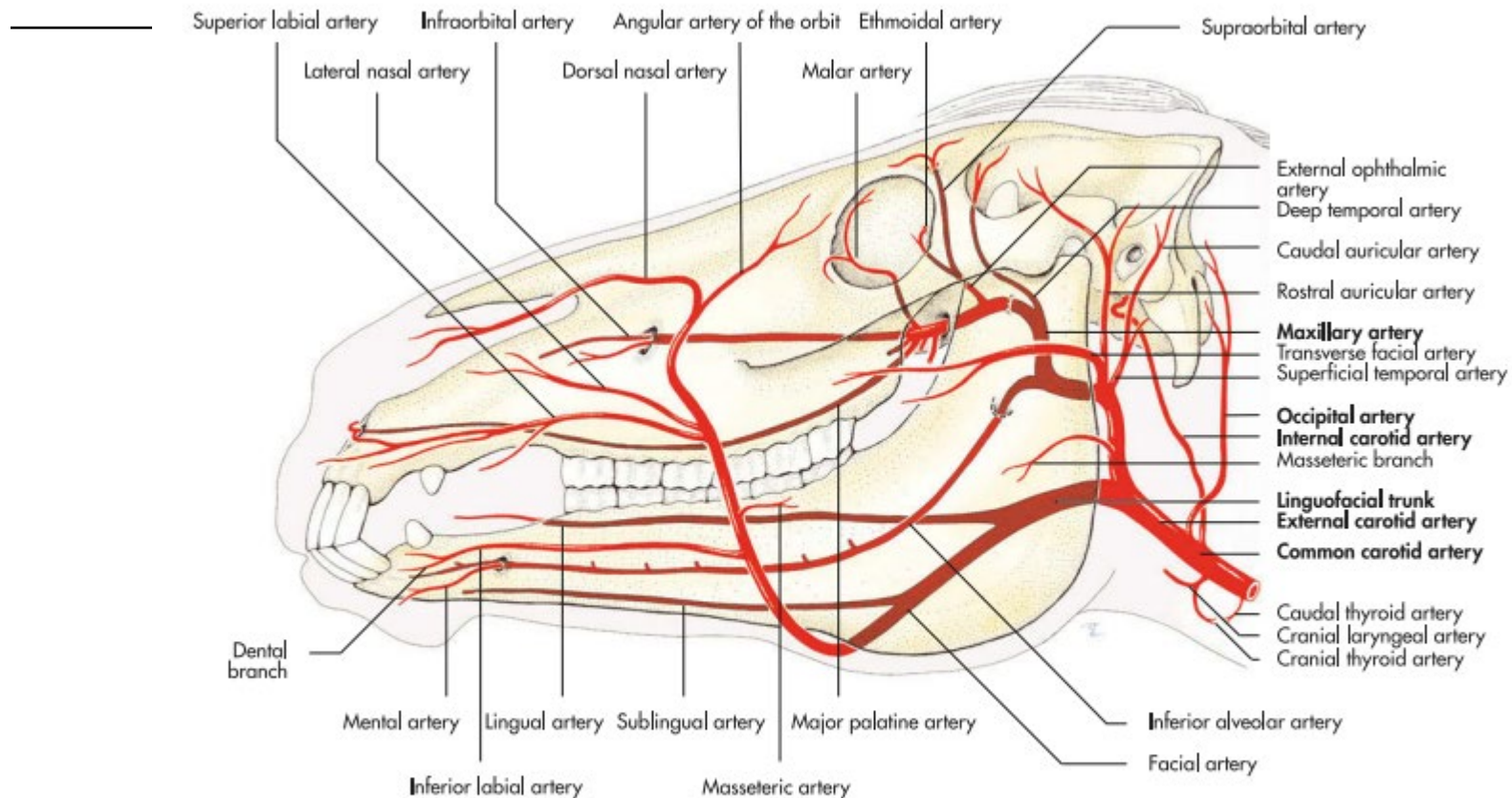


Fig. 13.18 Main arteries of the head of the horse (schematic); fig. based on data from Dyce et al., 2002.

F Frontal
O Occipital
Pt Pterygoid
S Sphenoid
T Temporal
Z Zygomatic
V Vomer

Foramen magnum

External acoustic
meatus

Tympanic bulla

Styloid process

Retroarticular process

Mandibular fossa

Articular tubercle

Temporal process
of the zygomatic bone

Supraorbital canal



Squamous part of
the occipital bone

Occipital condyle

Ventral condylar fossa

Paracondylar process

Jugular foramen

Petro-occipital fissure

Petrous part of
the temporal bone

Foramen lacerum

Muscular tubercle

Hamulus of the
pterygoid bone

Fig.2.12 Bones of the cranial part of an equine skull (ventral aspect).

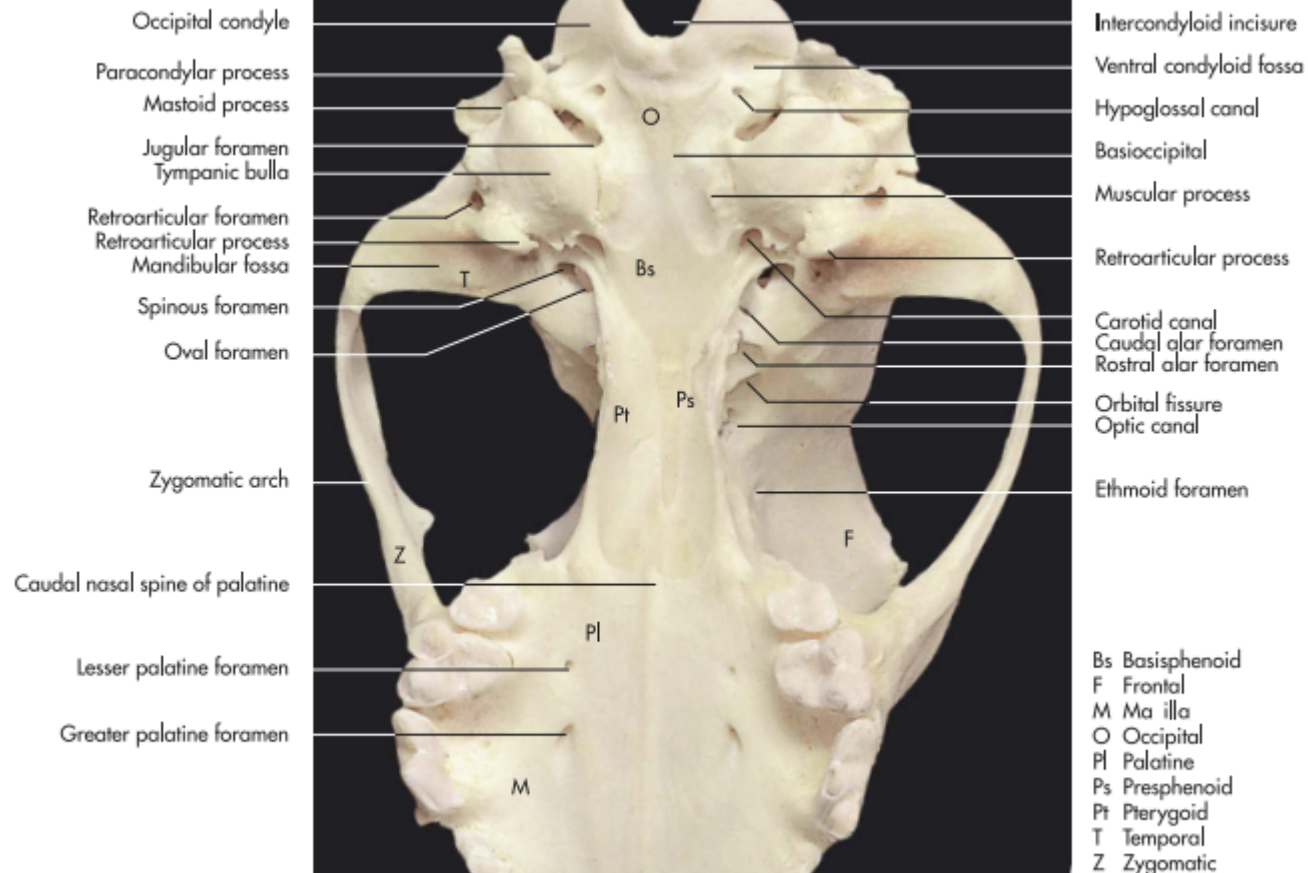


Fig. 2.6 Bones of the cranial part of a canine skull (ventral aspect).

A. carotis externa

- ❑ A. occipitalis (ca, eq)
- ❑ Truncus linguofacialis (Bo, eq)
- ❑ A. laryngea cranialis (ca)
- ❑ A. pharyngea ascendens (ca)
- ❑ A. lingualis (ov, su, ca)
- ❑ A. facialis (ca, su)
- ❑ A. auricularis caudalis
- ❑ Ramus massetericus (Ru, eq)
- ❑ A. temporalis superficialis

□ A. carotis externa → **A. maxillaris**

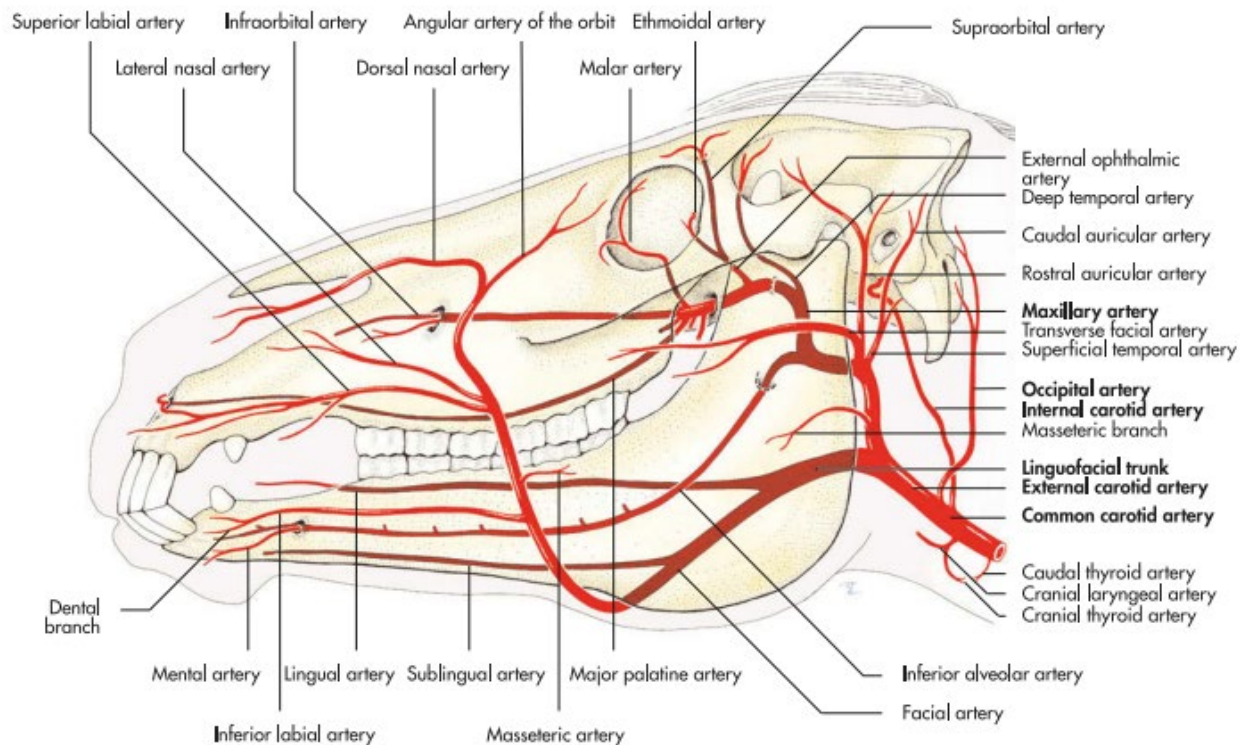
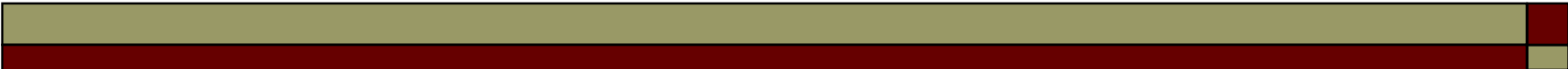


Fig. 13.18 Main arteries of the head of the horse (schematic); fig. based on data from Dyce et al., 2002.



A. maxillaris

- A. alveolaris mandibularis
- Rami pterygoidei
- Aa. temporales profundae
- A. buccalis
- A. meningeae media (eq,su,ca)
- A. ophtalmica externa
- A. malaris (su, Ru)
- A. infraorbitalis
- A. palatina descendens

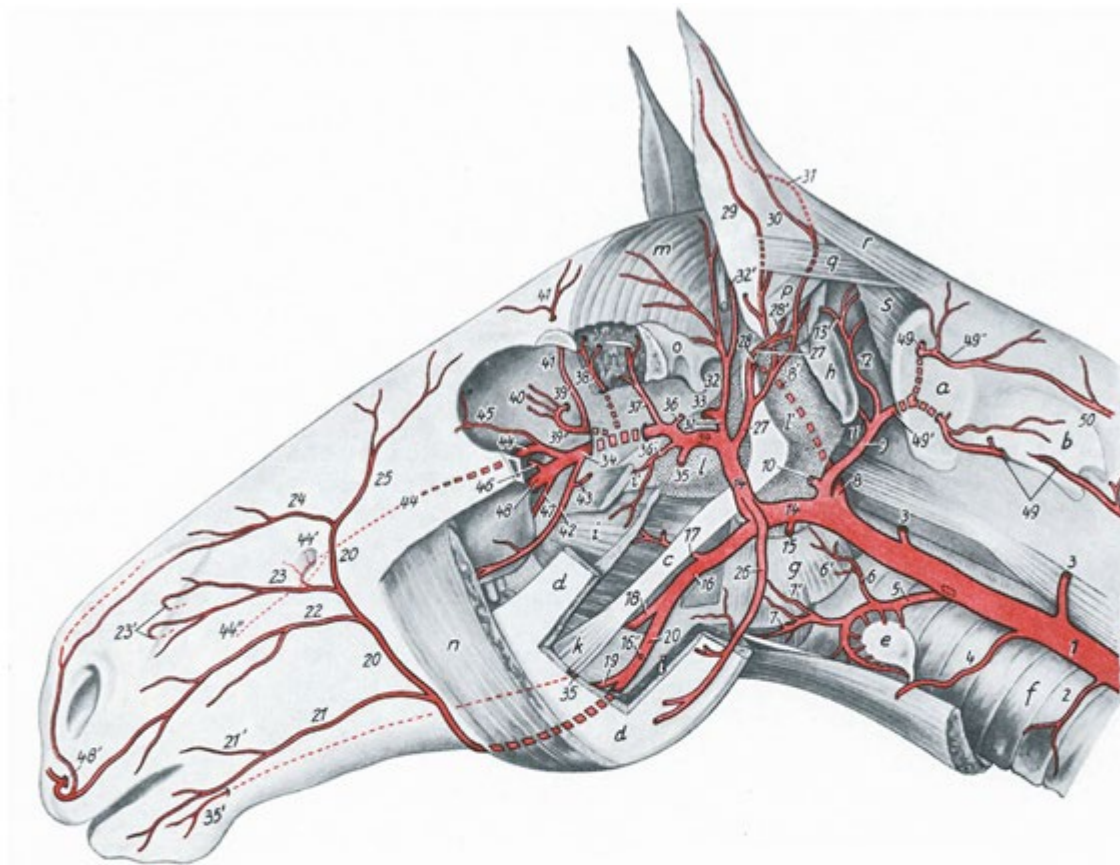


Fig. 83. Arteries of the head of a horse. Left lateral view.
(After Zietzschmann, 1943.)

a atlas; *b* axis; *c* stylohyoideum; *d* mandibula, partly removed; *e* gl. thyreoidea; *f* trachea; *g* mm. constrictores pharyngis caudalis; *h* proc. jugularis; *i* m. pterygoideus medialis; *i'* mm. tensor and levator veli palatini; *k* m. stylohyoideus; *l*, *l'* diverticulum tubae auditivae; *l* lateral, *l'* medial pouch; *m* m. temporalis; *n* m. masseter; *o* art. temporomandibularis; *p* m. cervicoauricularis profundus; *q* m. cervicoauricularis medius; *r* m. cervicoauricularis superficialis; *s* m. obliquus capitis cranialis

1 a. carotis communis, *2* r. trachealis, *3*, *4* rr. musculares; *5* a. thyreoidea cranialis, *6* r. pharyngeus, *6'* r. laryngeus caudalis; *7* a. laryngea cranialis; *7'* a. pharyngea ascendens; *8* a. carotis interna, at *8'* placed into the guttural pouch; *9* a. occipitalis, *10* r. glandularis; *11* a. condylaris, *12* r. occipitalis; *13* a. meningea caudalis; *14* a. carotis externa, *15* r. glandularis; *16* a. linguofacialis; *17* a. palatina ascendens; *18* a. lingualis; *19* a. sublingualis; *20* a. facialis; *21* a. labialis mandibularis; *21'* a. angularis oris; *22* a. labialis maxillaris; *23* a. lateralis nasi, *23'* retrograde branches to the external nares; *24* a. dorsalis nasi; *25* a. angularis oculi; *26* r. massetericus; *27* a. auricularis caudalis; *28* a. stylomastoidea; *28'* a. auricularis profunda, *29* r. auricularis lateralis, *30* r. auricularis medius, *31* r. auricularis medialis; *32* a. temporalis superficialis; *32'* a. auricularis rostralis; *33* a. transversa faciei; *34* a. maxillaris; *35* a. alveolaris mandibularis; *35'* a. mentalis; *36* a. meningea media; *36'* r. pterygoideus; *37* a. temporalis profunda caudalis; *38* a. temporalis profunda rostralis; *39* a. ophthalmica externa, *40* its branches to the bulb of the eye and its accessory organs; *39'* a. ethmoidalis externa; *41* a. supraorbitalis; *42* a. buccalis; *43* artery to the extraorbital adipose tissue; *44* a. infraorbitalis, *44'* its anastomosis to the a. lateralis nasi, *44''* rr. dentales; *45* a. malaris; *46* a. sphenopalatina; *47* a. palatina minor; *48* a. palatina major; *48'* its anastomosis with the a. labialis maxillaris; *49* a. vertebralis, *49'* r. anastomoticus cum a. occipitali, *49''* r. descendens; *50* a. cervicalis profunda

Aorta thoracica

- Od Th₄, Th₅ ili Th₆, levo od med. ravni

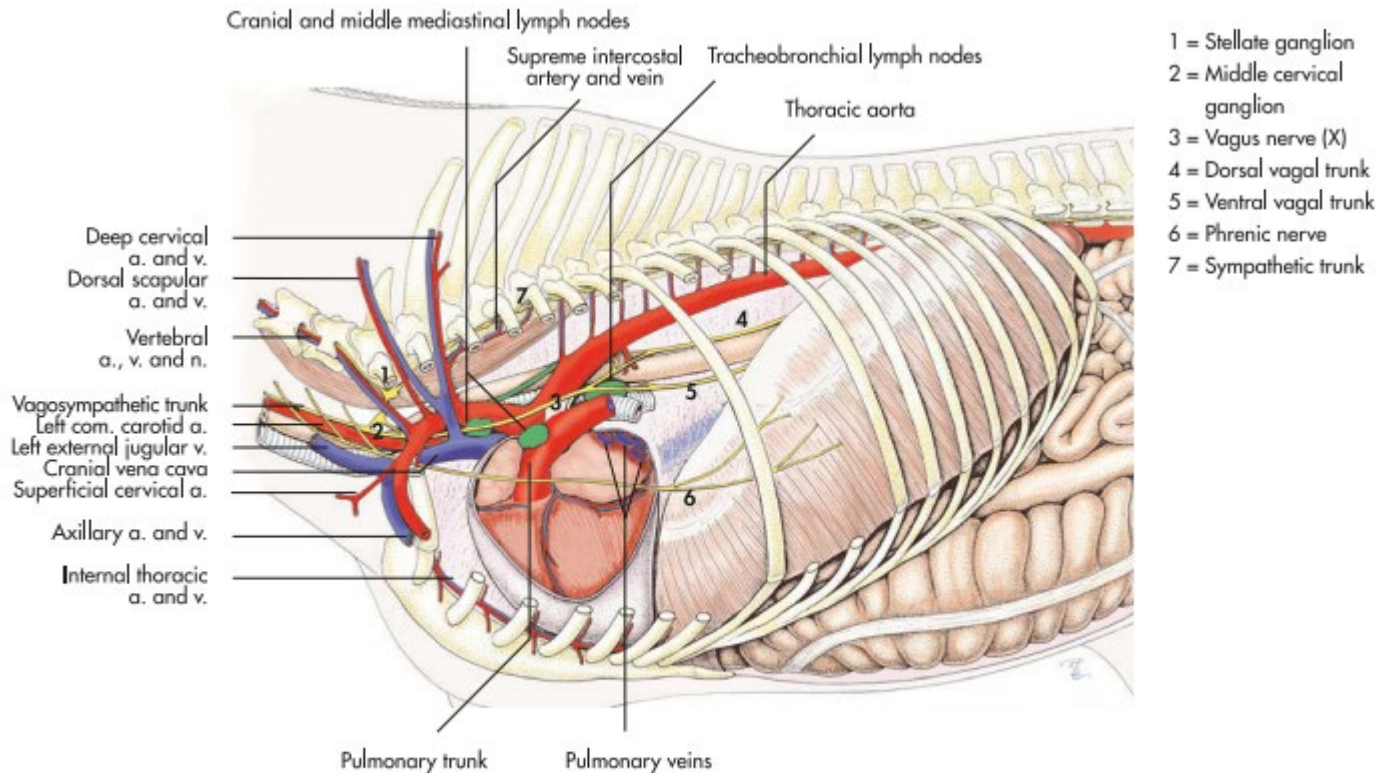


Fig. 20.26 Topography of the organs and structures of the opened thorax in the horse (schematic, view from the left).

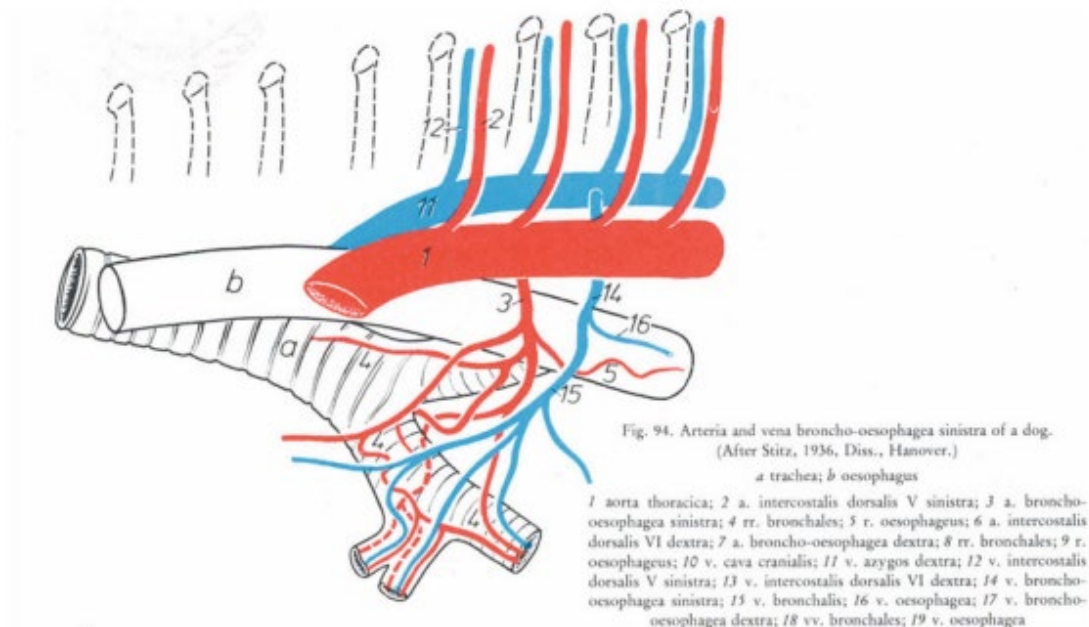
☐ **Zid:**

- ☐ Aa. intercostales dorsales
- ☐ A. costoabdominalis dorsalis
- ☐ Aa. phrenicae

☐ **Organi:**

- ☐ A. broncho-esophagea

- ❑ **A. broncho-esophagea:**
- ❑ Ramus bronchialis
- ❑ Ramus esophageus



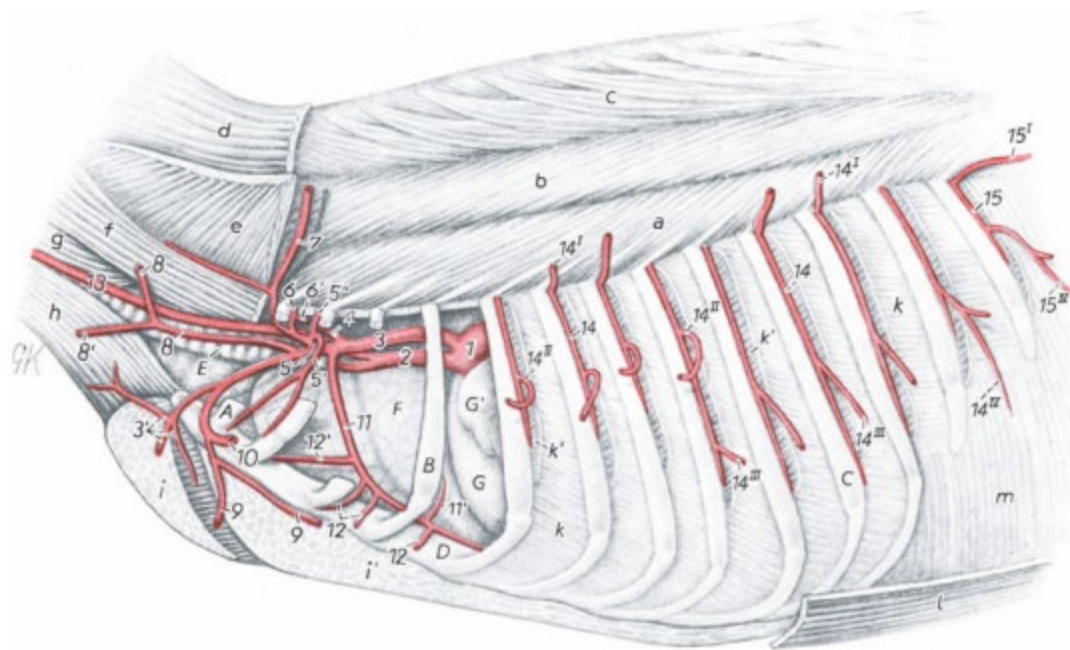


Fig. 90. Arteries of the thoracic inlet and of the thoracic wall of a cat. Left lateral view.
(After Opitz, 1961, Diss., Hanover.)

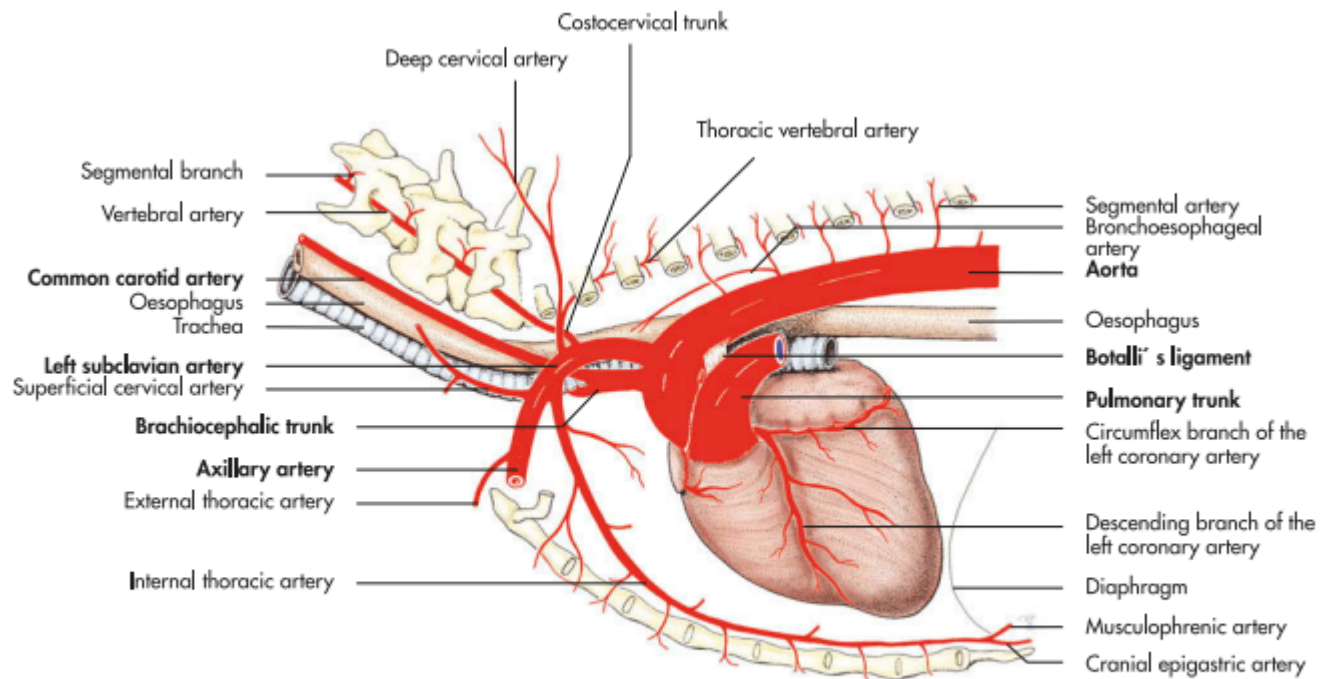
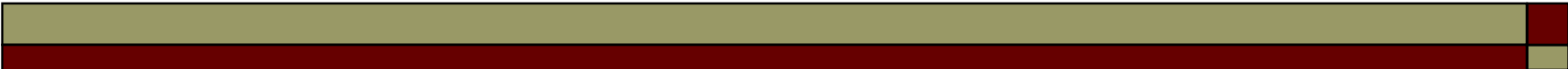


Fig. 13.14 Arteries of the base of the heart and the cranial mediastinum of the dog (schematic, left lateral aspect); fig. based on data from Ellenberger and Baum, 1943.



Aorta abdominalis

- ❑ A. phrenica caudalis (ca)
- ❑ A. abdominalis cranialis (su)
- ❑ Aa. lumbales
- ❑ A. celiaca
- ❑ A. mesenterica cranialis
- ❑ A. mesenterica caudalis
- ❑ A. adrenalis (suprarenalis) media (ca)
- ❑ Aa. adrenales (suprarenales) mediae (su)
- ❑ A. renalis
- ❑ A. testicularis / A. ovarica

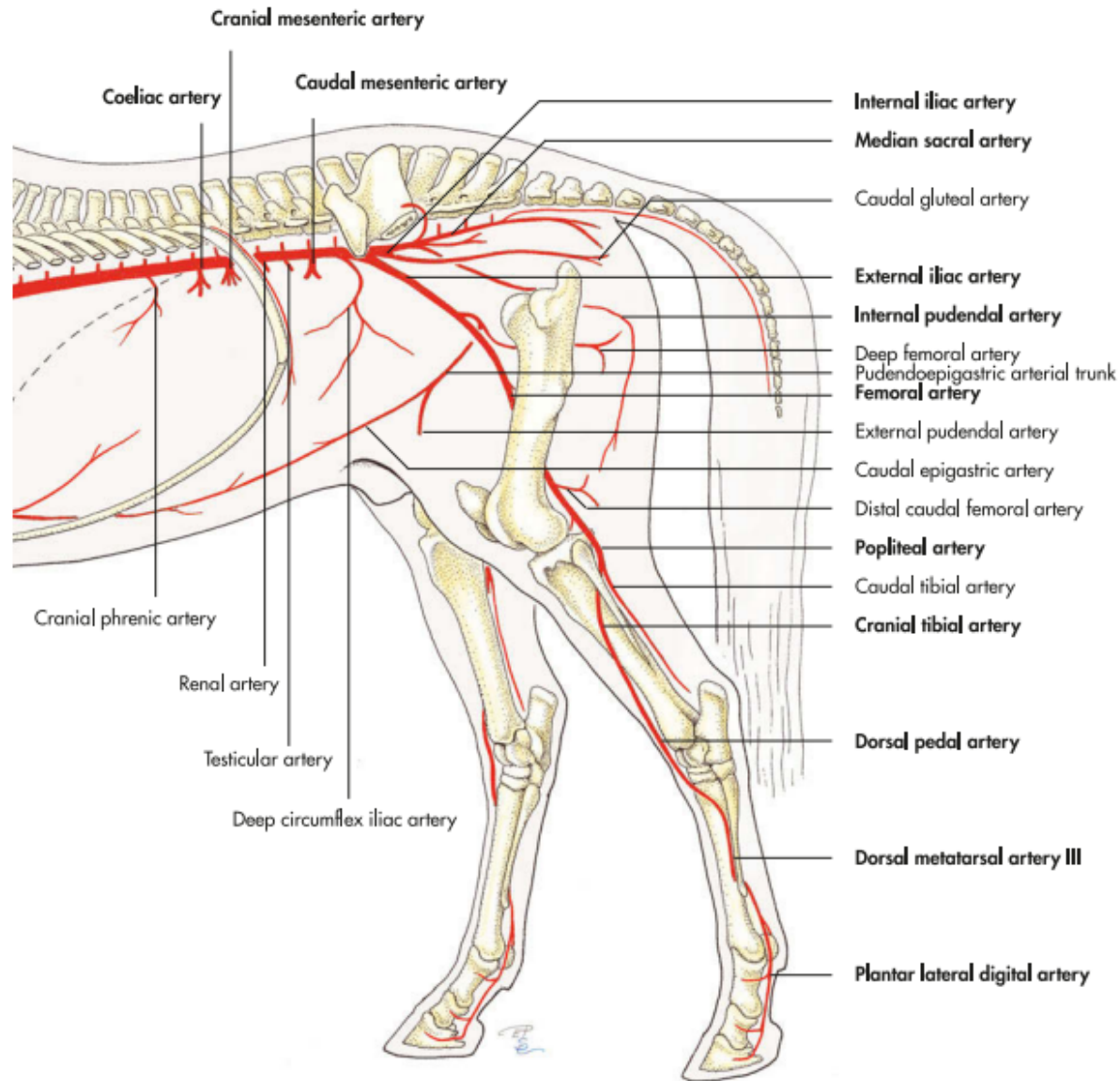
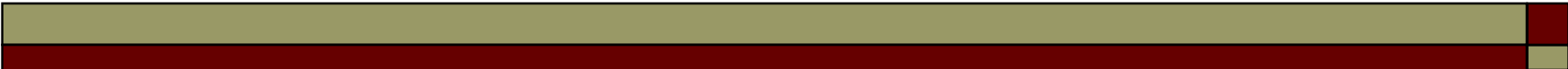


Fig. 13.24 Abdominal aorta and its larger branches of the horse (schematic).

A. celiaca

- Neparan krvni sud.
- Ventriculus, lien, hepar, pancreas et duodenum
- Th₁₇ / Th₁₈ – **eq**
- L₁ – **Ru, su, ca**

- 
-
- **A. celiaca:**
 - A. gastrica sinistra (eq, Ru, ca)
 - A. hepatica
 - A. lienalis
 - Rami adrenales craneales (Ru)

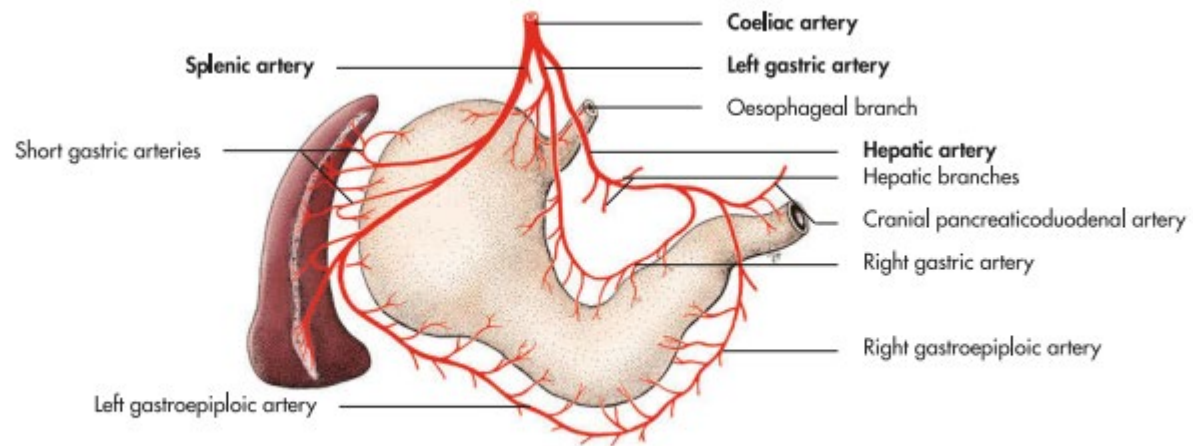


Fig. 13.21 Coeliac artery of the dog (schematic).

A. mesenterica cranialis

- U sve delove tankog creva (osim kran. duodenuma), slepo crevo, veći deo kolona i kaud. deo pankreasa.
- L_1 – **eq, su**
- L_2 – **Ru, ca**

- 
-
- ❑ A. pancreaticoduodenalis caudalis
 - ❑ Aa. jejunales
 - ❑ A. ileocolica
 - ❑ A. colica dextra (eq, su, ca)
 - ❑ Aa. colicae dextrae (Ru)
 - ❑ A. colica media

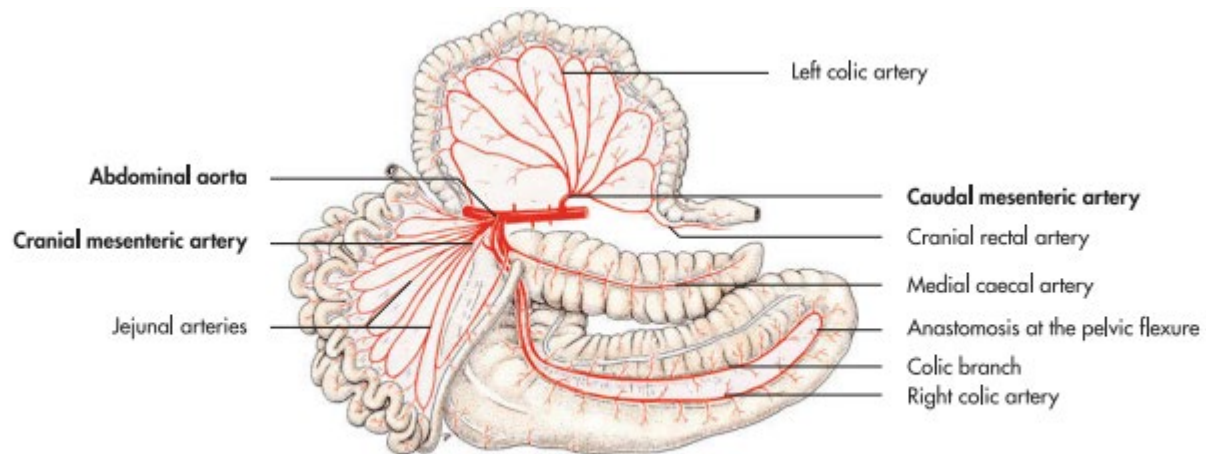


Fig. 13.23 Cranial and caudal mesenteric artery of the horse (schematic); fig. based on data from Ghetie, 1955.

Aa. renales

- L_1 – eq
- L_1 / L_2 – ca
- L_2 / L_3 – Ru
- L_3 – su

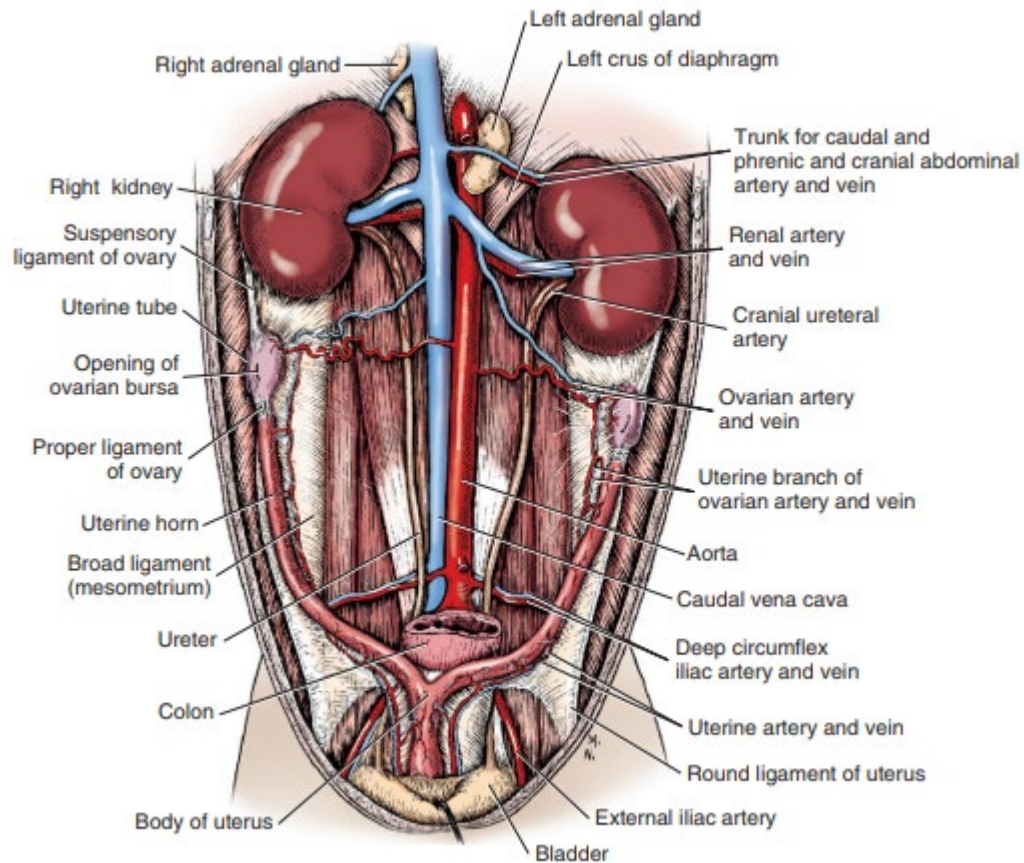
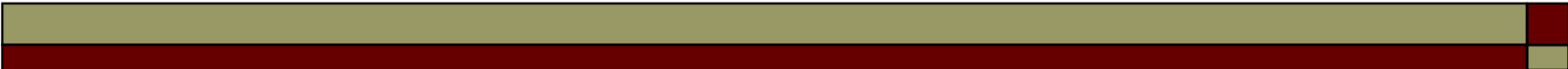


FIGURE 9-1 Female urogenital system in situ, ventral aspect.



A. mesenterica caudalis

- Colon descendens et rectum
- L₄ – **eq**
- L₅ – **Ov, su, ca**
- L₆ – **Bo**

- A. colica sinistra
- A. rectalis cranialis

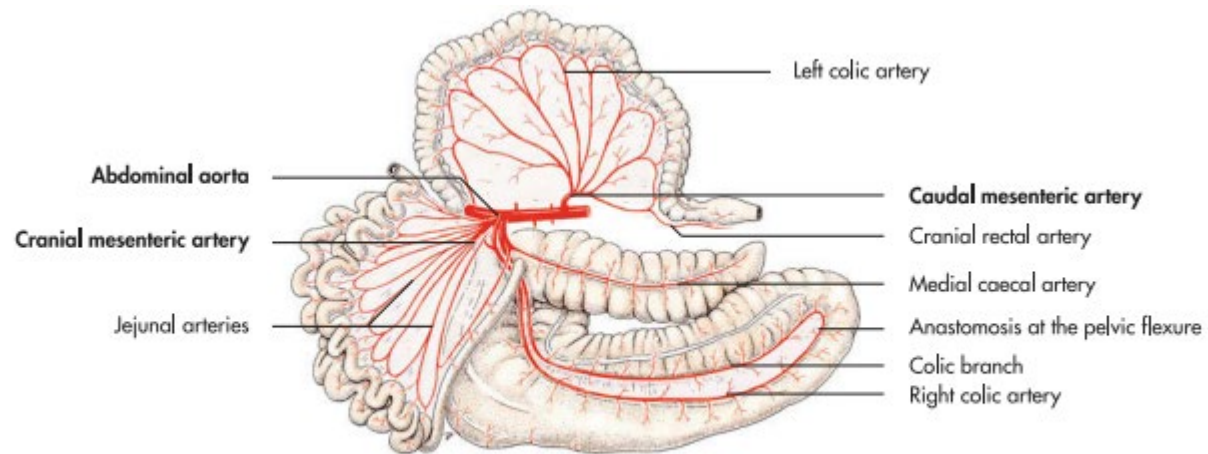


Fig. 13.23 Cranial and caudal mesenteric artery of the horse (schematic); fig. based on data from Ghetie, 1955.

- 
-
- ☐ **A. iliaca externa dextra**
 - ☐ **A. iliaca externa sinistra**
 - ☐ **A. iliaca interna dextra**
 - ☐ **A. iliaca interna sinistra**
 - ☐ **A. sacralis mediana**

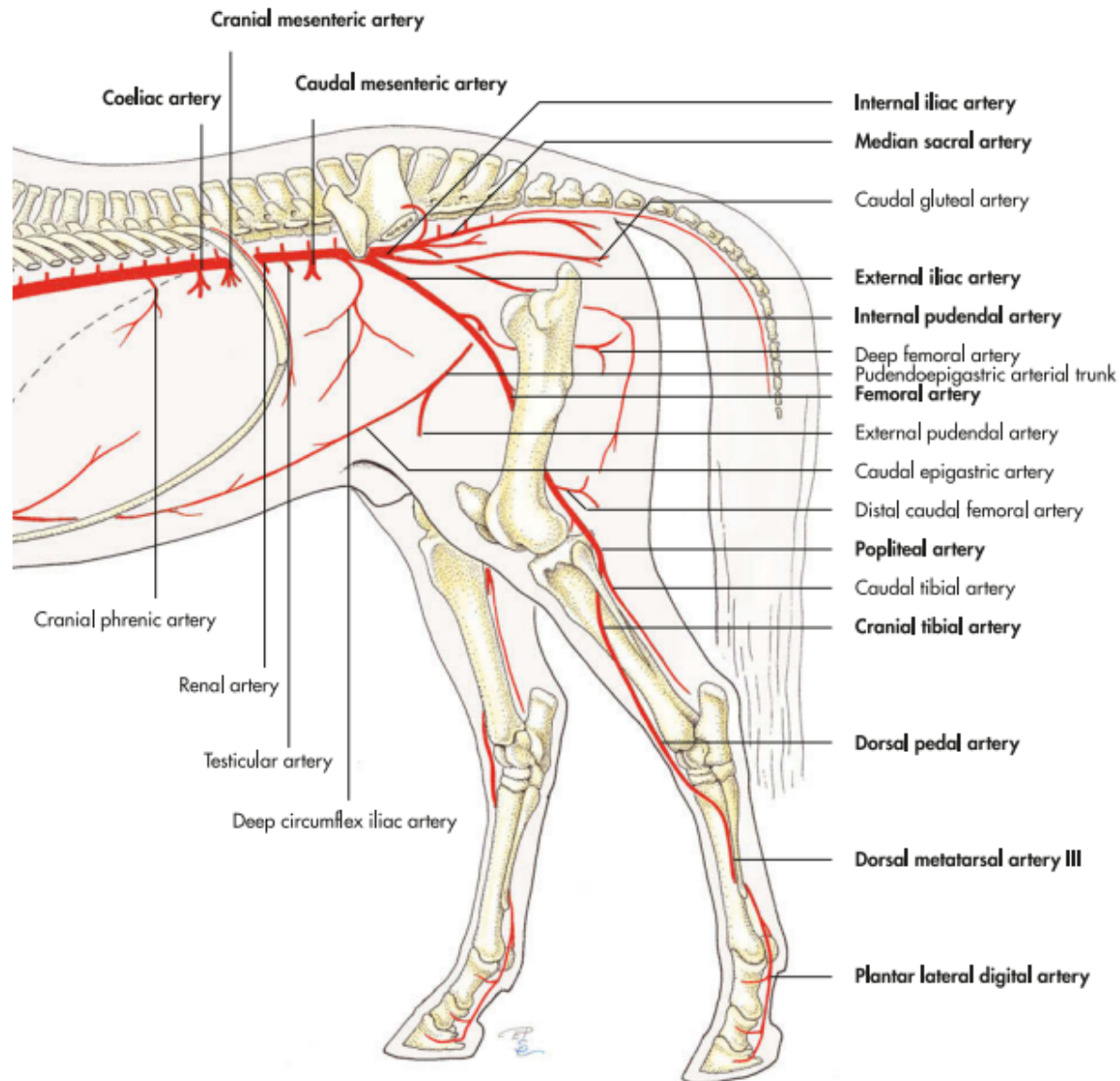


Fig. 13.24 Abdominal aorta and its larger branches of the horse (schematic).

Arterije zadnjeg ekstremiteta

- **A. iliaca externa**
- **L₄/L₅ – eq, su**
- **L₆ – Ru, ca**

- 
-
- ❑ A. circumflexa ilium profunda (Ru, eq, su)
 - ❑ A. abdominalis caudalis (ca, Bo)
 - ❑ A. cremasterica (eq)
 - ❑ A. profunda femoris
 - A. circumflexa femoris medialis
 - Truncus pudendoepigastricus

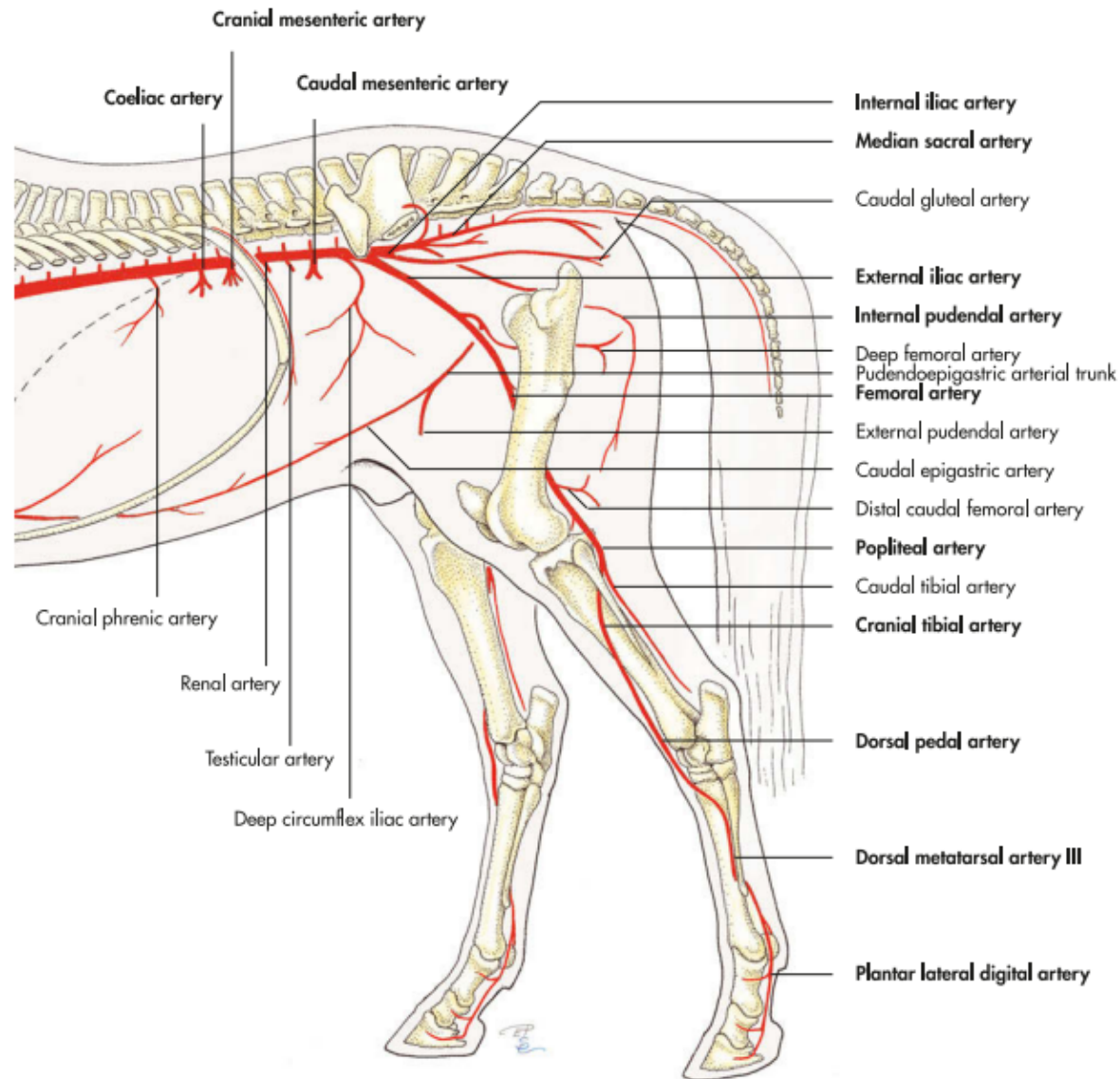


Fig. 13.24 Abdominal aorta and its larger branches of the horse (schematic).

- 
-
- ❑ **A. femoralis:**
 - ❑ A. circumflexa femoris lateralis
 - ❑ A. saphena
 - ❑ A. genus descendens
 - ❑ Aa. caudales femoris

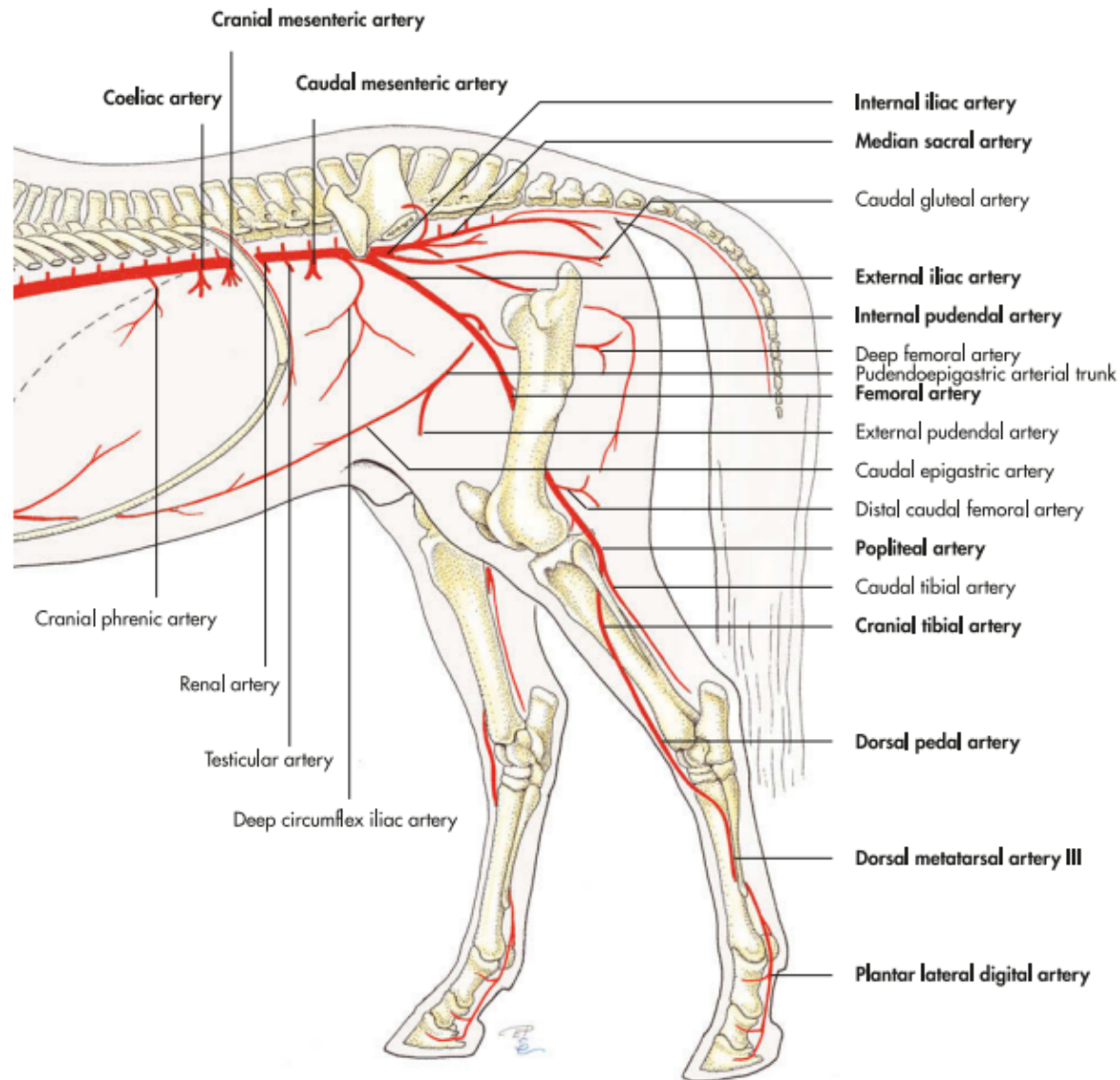


Fig. 13.24 Abdominal aorta and its larger branches of the horse (schematic).

- 
-
- ❑ **A. poplitea**
 - ❑ **A. tibialis caudalis**
 - ❑ **A. tibialis cranialis**

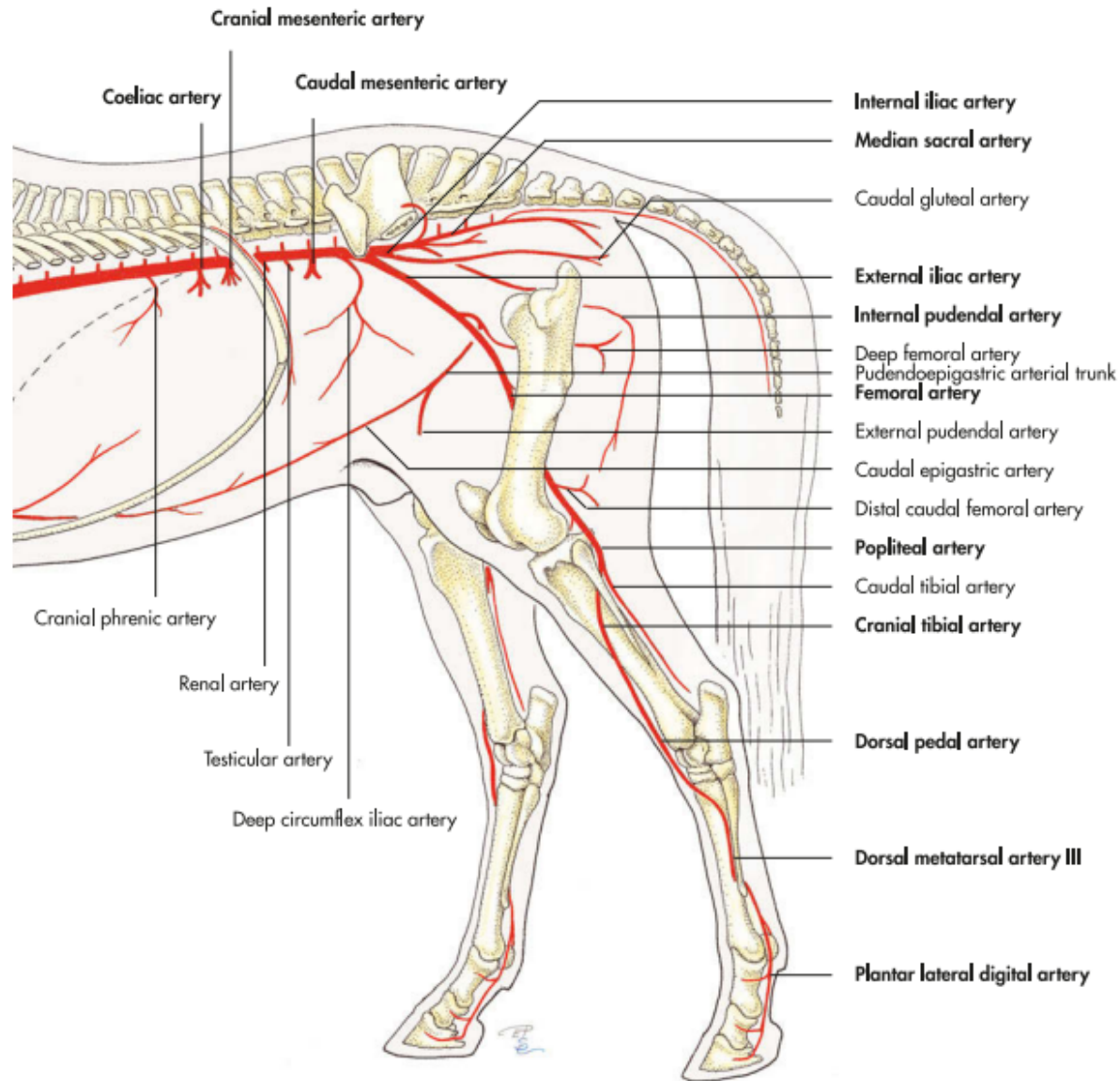


Fig. 13.24 Abdominal aorta and its larger branches of the horse (schematic).

- 
-
- ❑ **A. tibialis cranialis**
 - ❑ **A. dorsalis pedis**
 - A. tarsea perforans
 - ❑ **A. metatarsa dorsalis III**
 - ❑ **Aa. metatarsae dorsales II-IV (ca)**
 - ❑ **A. digitalis plantaris lateralis et medialis**

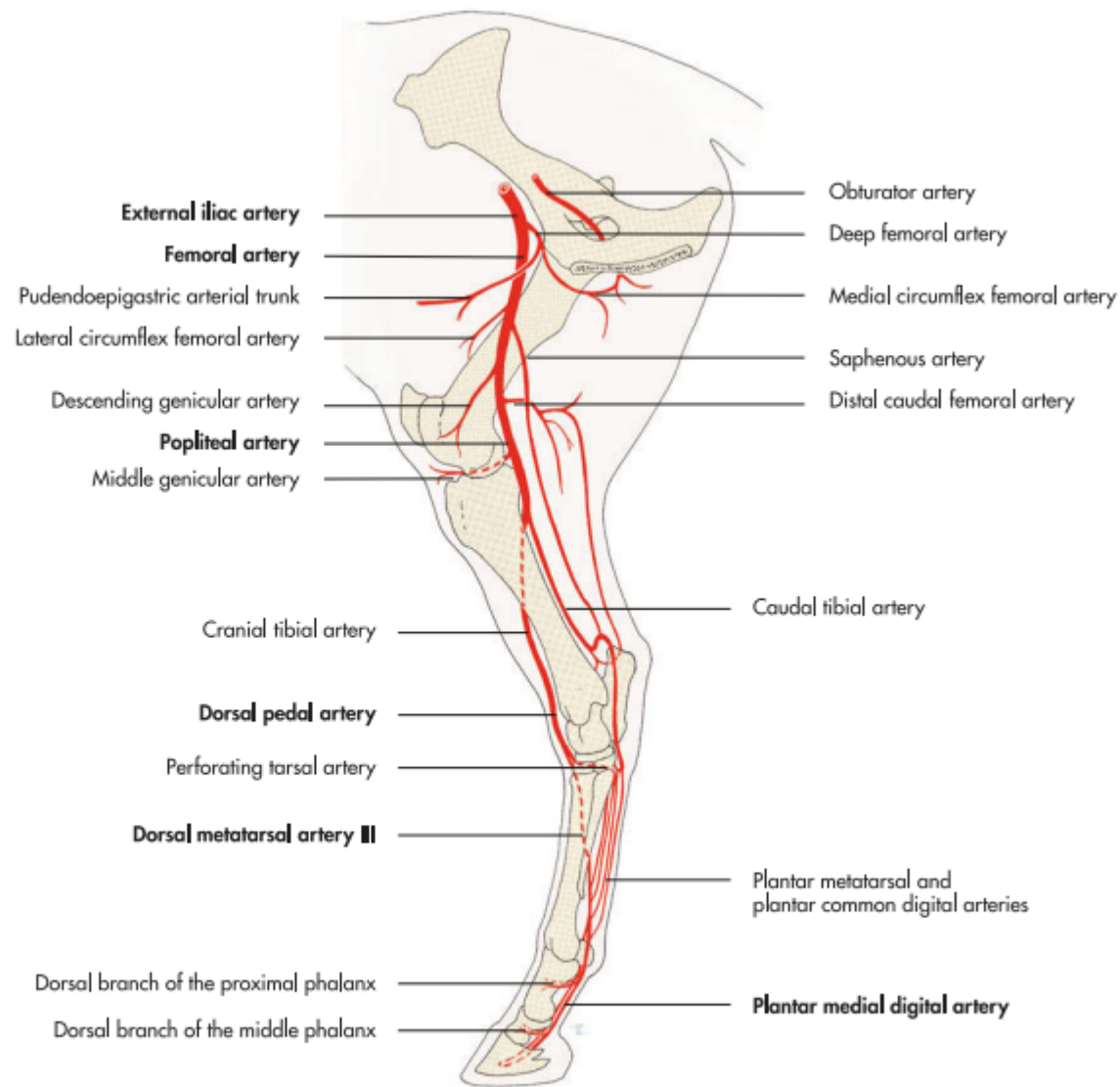
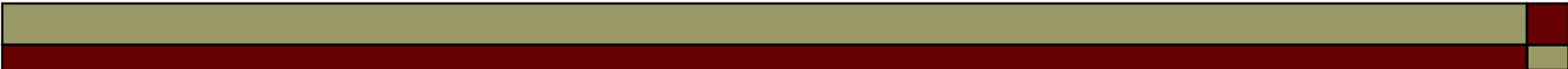


Fig. 13.25 Arteries of the pelvic limb of the horse (schematic); fig. based on data from Dyce et al., 2002.

Arterije zidova i organa karlične duplje

- **A. iliaca interna**
- $L_4 / L_5 - \mathbf{eq}$
- $L_6 - \mathbf{Ru, su}$
- $L_7 - \mathbf{ca}$

- 
-
- ❑ A. pudenda interna
 - ❑ A. glutea caudalis
 - ❑ Aa. lumbales V et VI (eq)
 - ❑ A. umbilicalis
 - ❑ A. lumbalis (Ru)
 - ❑ A. iliolumbalis
 - ❑ A. glutea cranialis
 - ❑ A. prostatica
 - ❑ A. vaginalis

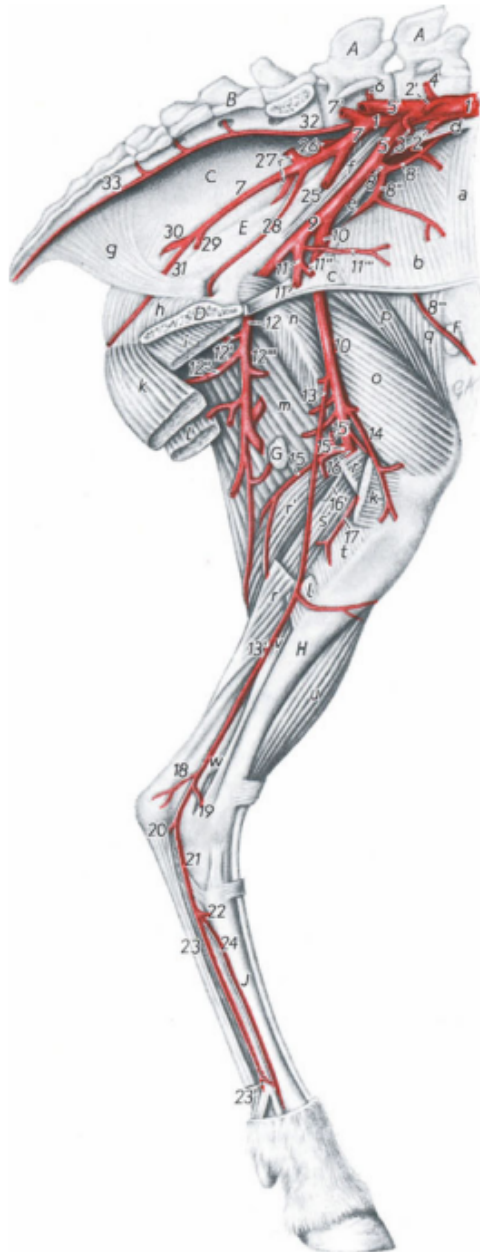


Fig. 112. Arteries of the left pelvic limb of a sheep. Medial view.

(After Freytag, 1962, Diss., Hanover.)

A vertebrae lumbales; *B* os sacrum; *C* lig. sacrotuberale latum; *D* symphysis pelvina; *E* os ilium; *F* ln. subiliacus; *G* ln. popliteus; *H* tibia; *J* os metatarsale III + IV

a m. transversus abdominis; *b* m. obliquus internus abdominis; *c* pelvic tendon of the m. obliquus externus abdominis; *d* m. psoas major; *e* m. iliacus; *f* m. psoas minor; *g* m. coccygeus; *h* m. obturatorius externus, pars intrapelvina; *i* m. adductor; *k* m. semimembranosus; *l* m. semitendinosus; *m* m. gluteobiceps; *n* m. pectineus; *o* m. vastus medialis; *p* m. rectus femoris; *q* m. tensor fasciae latae; *r* m. gastrocnemius, caput mediale, *r'* caput laterale; *s* m. flexor digitalis superficialis; *t* m. popliteus; *u* m. fibularis tertius; *v* m. flexor digitalis longus; *w* m. tibialis caudalis

1 aorta abdominalis; *2* a. ovarica sinistra; *2'* a. ovarica dextra; *3* a. mesenterica caudalis; *4* a. lumbalis V; *5* a. iliaca externa sinistra; *5'* a. iliaca externa dextra; *6* a. lumbalis VI; *7* a. iliaca interna sinistra; *7'* a. iliaca interna dextra; *8* a. circumflexa ilium profunda, *8'* r. cranialis, *8''* r. caudalis, *8'''* r. superficialis; *9* a. profunda femoris; *10* a. femoralis; *11* truncus pudendopigisticus; *11'* a. pudenda externa; *11''* a. epigastrica caudalis; *11'''* a. abdominalis caudalis; *12* a. circumflexa femoris medialis, *12'* r. obturatorius, *12''* r. ascendens, *12'''* r. transversus (descendens); *13* a. saphena, *13'* r. caudalis; *14* a. genus descendens; *15* a. caudalis femoris distalis; *15'* a. genus proximalis lateralis; *16* a. poplitea; *16'* a. suralis; *17* a. tibialis caudalis; *18* rr. calcanei, *19* r. articularis of the r. caudalis of the a. saphena; *20* a. plantaris lateralis; *21* a. plantaris medialis, *22* r. profundus, *23* r. superficialis; *23'* a. digitalis plantaris communis II; *24* a. metatarsae plantaris II; *25* a. umbilicalis; *26* a. iliofemoralis; *27* a. glutea cranialis; *28* a. obturatoria; *29* a. vaginalis; *30* a. glutea caudalis; *31* a. pudenda interna; *32* a. sacralis mediana with rr. sacrales; *33* a. caudalis mediana