

GLAVA i VRAT



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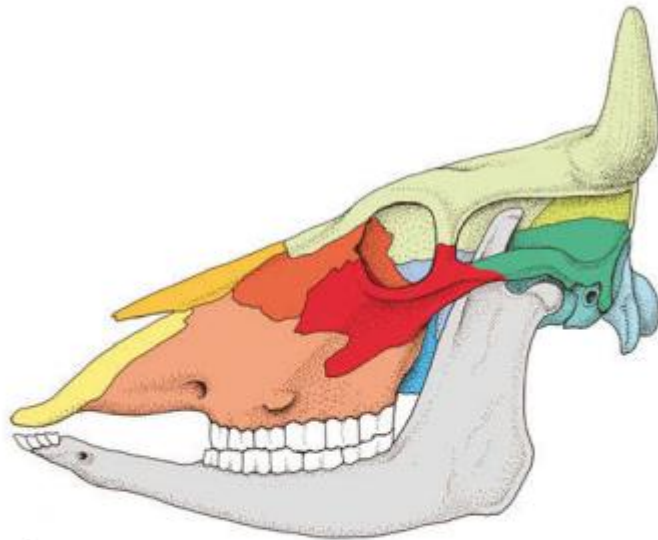
OSSA CAPITIS

- **Ossa cranii**
- **Ossa faciei**

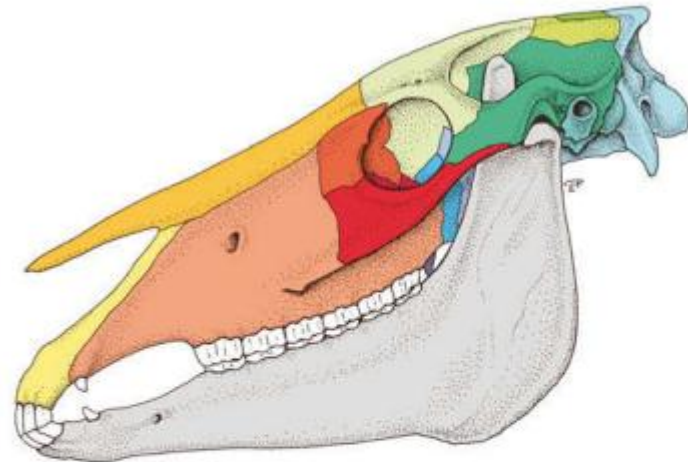
OSSA CRANII

- **Os occipitale**
- **Os ethmoidale**
- **Os sphenoidale**
- **Os interparietale**

- **Os frontale**
- **Os parietale**
- **Os temporale**



A



B

Incisive
Nasal
Maxilla
Lacrimal

Zygomatic
Frontal
Parietal
Interparietal

Temporal, squamous part
Temporal, petrous part
Occipital
Mandible

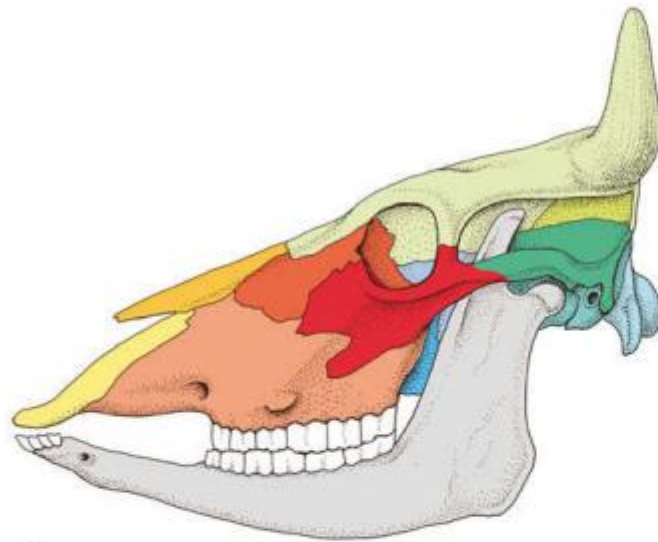
Palatine
Sphenoid
Pterygoid

Fig. 2.2 Bones of the skull and mandible of the ox (A) and horse (B) (schematic, lateral aspect); fig. based on data from Ellenberger and Baum, 1943.

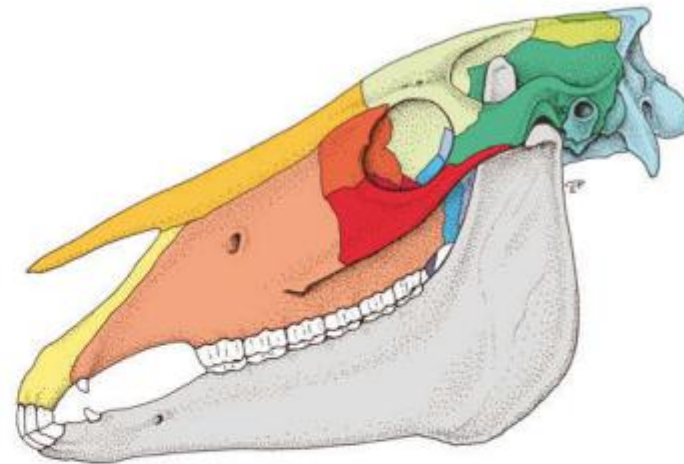
OSSA FACIEI

- **Os nasale**
- **Os lacrimale**
- **Os incisivum**
- **Os zygomaticum**
- **Os pterygoideum**

- **Vomer**
- **Maxilla**
- **Mandibula**
- **Os hyoideum**
- **Os palatinum**
- **Os conchae nasalis ventralis**



A



B

 Incisive	 Zygomatic	 Temporal, squamous part	 Palatine
 Nasal	 Frontal	 Temporal, petrous part	 Sphenoid
 Maxilla	 Parietal	 Occipital	 Pterygoid
 Lacrimal	 Interparietal	 Mandible	

Fig. 2.2 Bones of the skull and mandible of the ox (A) and horse (B) (schematic, lateral aspect); fig. based on data from Ellenberger and Baum, 1943.

MUSCULI CAPITIS

- **Mišići jezika i jezične kosti**
- **Mišići lica i ušne školjke**
- **Infraorbitalni mišići oka**
- **Mišići donje vilice**
- **Mišići grkljana**
- **Mišići ždrela**

MUSCULI FACIALES ET AURICULARES

- **Musculi cutanei**
- **Musculi labiorum, buccarum et nasi**
- **Musculi extraorbitales**
- **Musculi auriculares**

Musculi cutanei

- **M. cutaneus faciei**
- **M. cutaneus labiorum**
- **M. cutaneus frontalis (bo)**
- **M. cutaneus nasi (bo)**

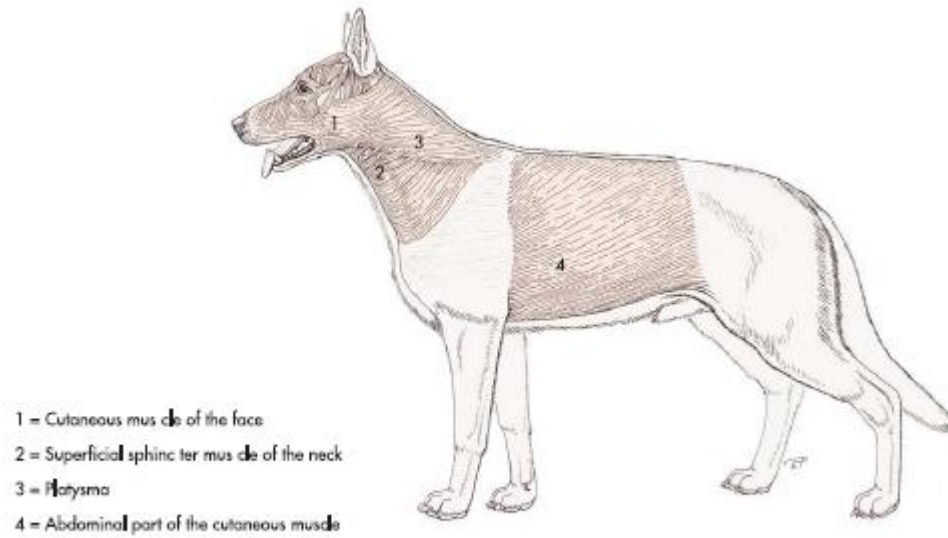


Fig. 3.2 Cutaneous muscles of the head, the neck and the back of the dog (lateral aspect).

Musculi labiorum, buccarum et nasi

- **M. orbicularis oris**
- **M. levator nasolabialis**
- **M. levator labii superioris**
- **M. depressor labii inferioris**
- **M. depressor labii superioris**

- **M. caninus**
- **M. mentalis**
- **Mm. incisivi**
- **Mm. nasales**
- **M. buccinator**
- **M. zygomaticus**

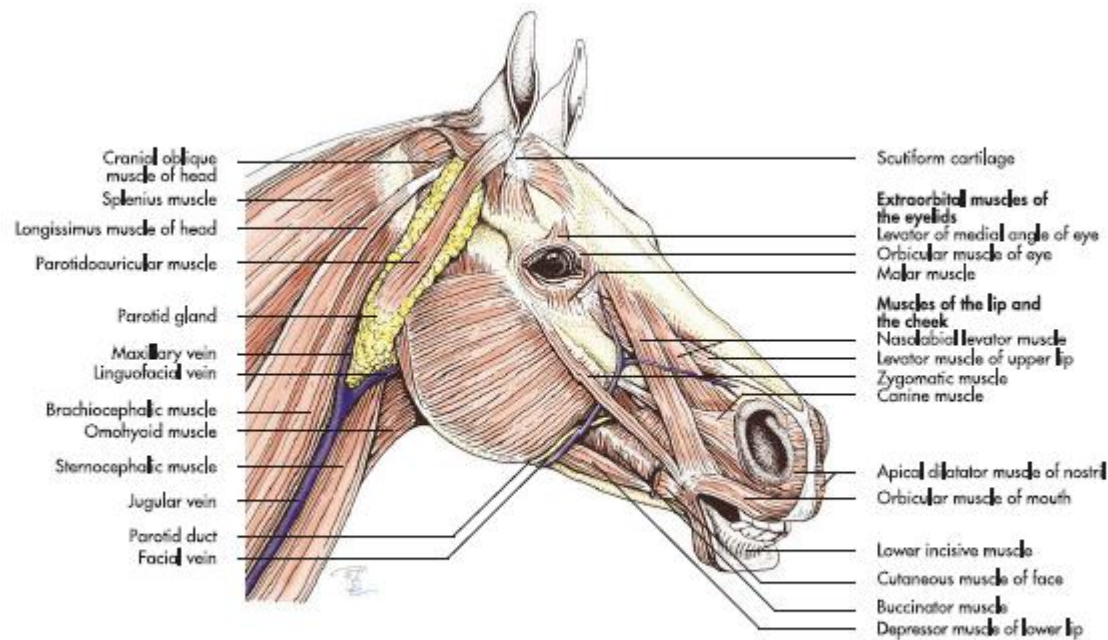
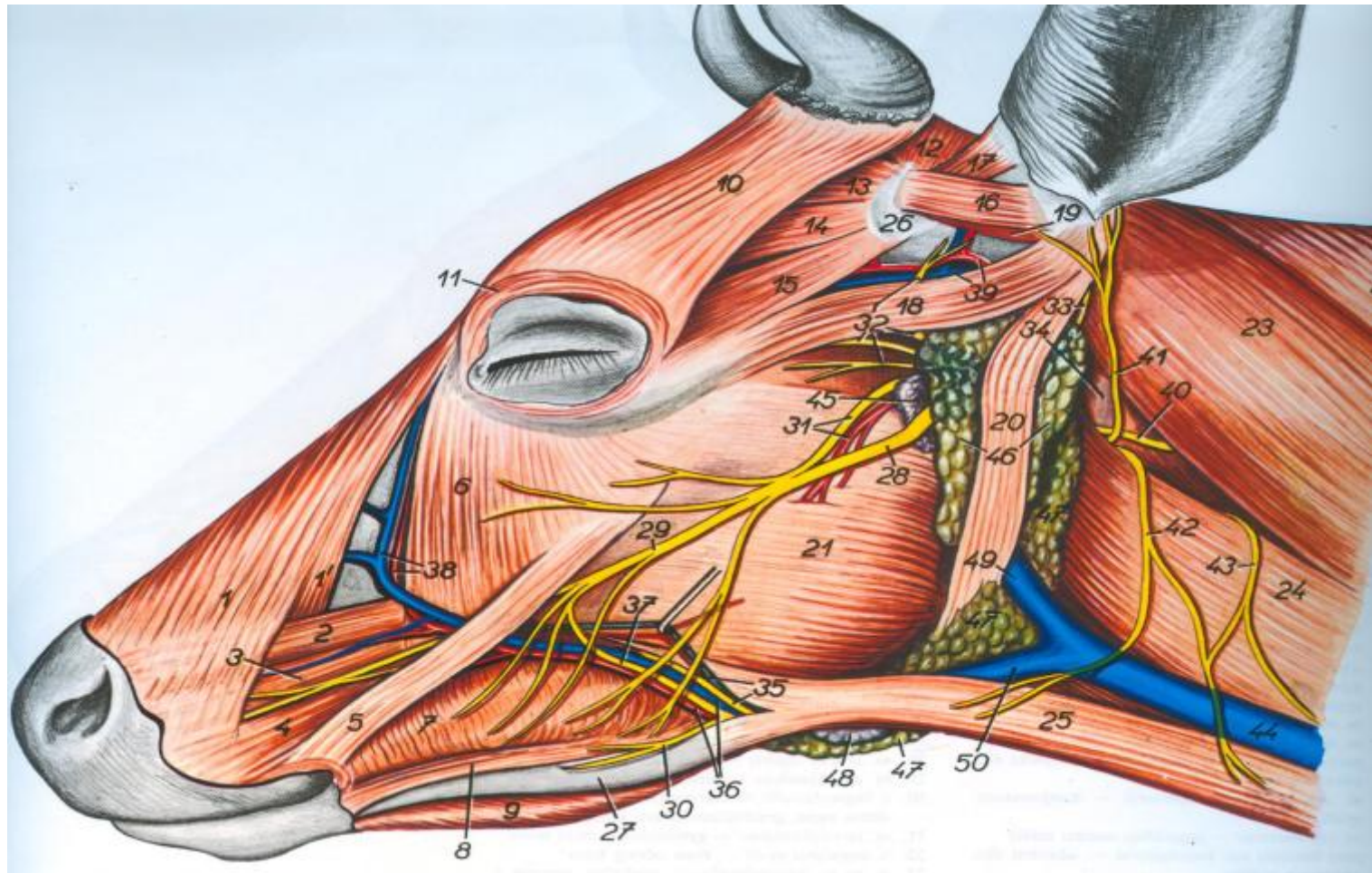


Fig. 3.4 Superficial muscles of the head of the horse (schematic, lateral aspect); fig. based on data from Ghetie, 1954.



Musculi extraorbitales

- **M. orbicularis oculi**
- **M. levator anguli oculi medialis**
- **M. retractor anguli oculi lateralis**
- **M. malaris**

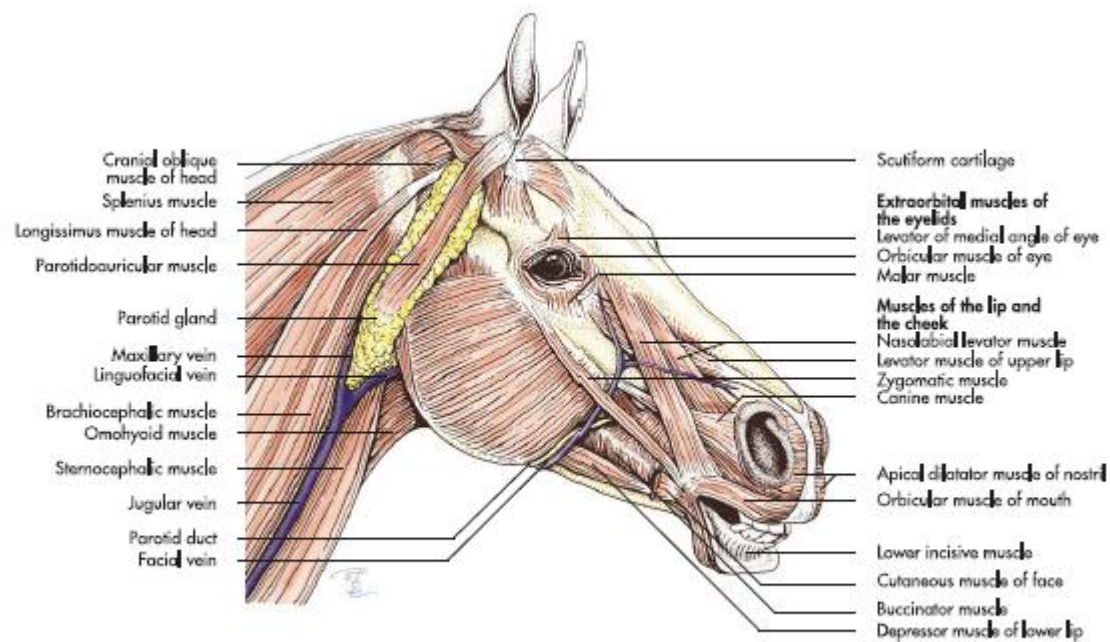


Fig. 3.4 Superficial muscles of the head of the horse (schematic, lateral aspect); fig. based on data from Ghetie, 1954.

Musculi auriculares

- **Mm. auriculares rostrales**
- **Mm. auriculares caudales**
- **Mm. auriculares dorsales**
- **M. auricularis ventralis**

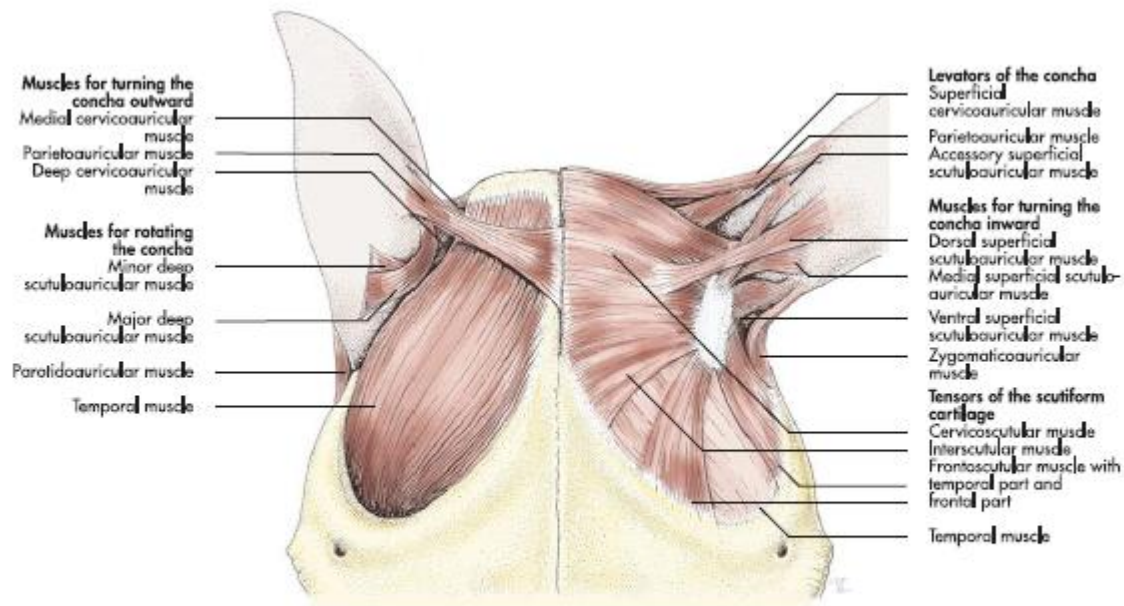


Fig. 3.6 Muscles of the external ear of the horse (schematic, frontal aspect); fig. based on data from Ghetie, 1971.

MIŠÍCI DONJE VILICE

- **M. pterygoideus**
- **M. digastricus**
- **M. temporalis**
- **M. masseter**

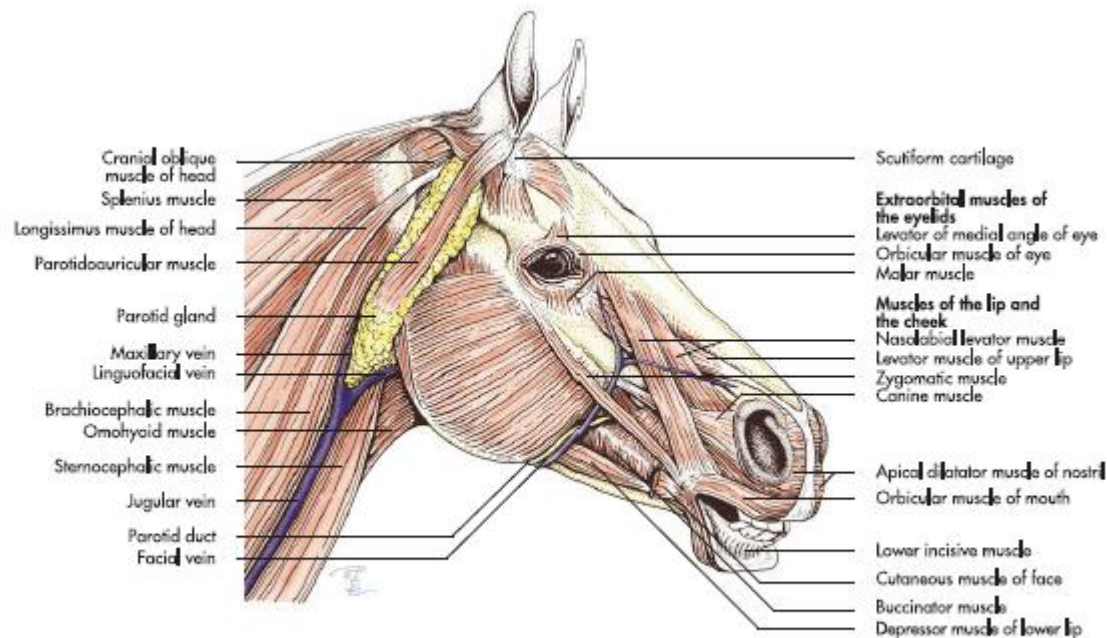


Fig. 3.4 Superficial muscles of the head of the horse (schematic, lateral aspect); fig. based on data from Ghetie, 1954.

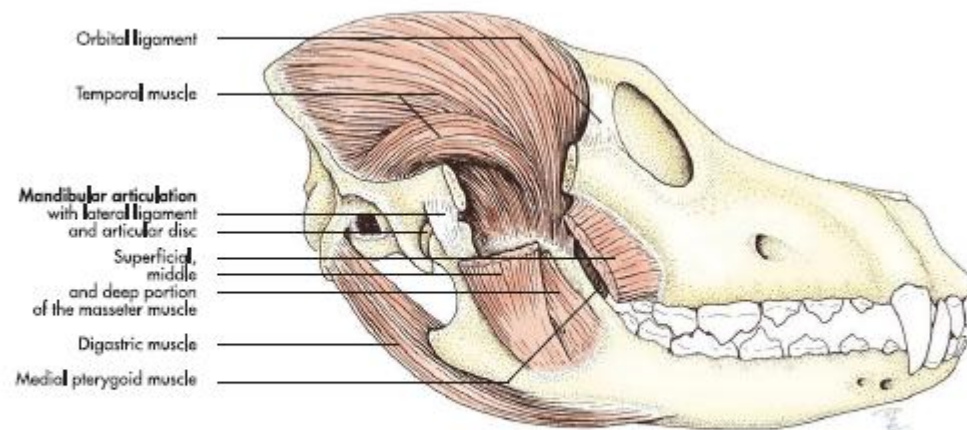
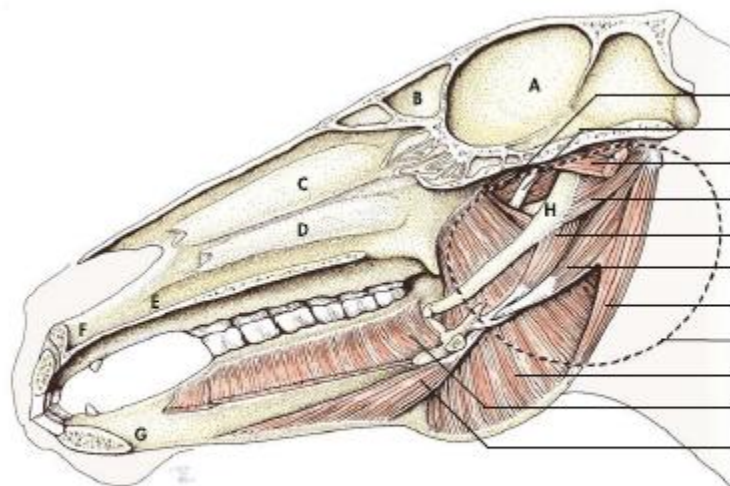


Fig. 3.7 Mandibular muscles of the dog (schematic, lateral aspect, zygomatic arch removed).

- A Cranial cavity
- B Frontal sinus
- C Endoturbinate I
- D Maxilloturbinate
- E Maxilla
- F Incisive
- G Mandible
- H Hyoid



- Lateral pterygoid muscle
- Mandibular nerve
- Long muscle of head
- Occipitohyoid muscle
- Stylohyoid muscle
- Digastric muscle (caudal portion)
- Occipitomandibular part
- Guttural pouch (schematic)
- Medial pterygoid muscle
- Mylohyoid muscle
- Digastric muscle (rostral portion)

Fig. 3.8 Mandibular muscles of the horse (schematic, medial aspect); fig. based on data from Elenberger and Baum, 1943.

OSSA TRUNCI

- **Columna vetrebralis**
- **Costa, ae**
- **Sternum**

COLUMNA VERTEBRALIS

- **Vertebrae cervicales**

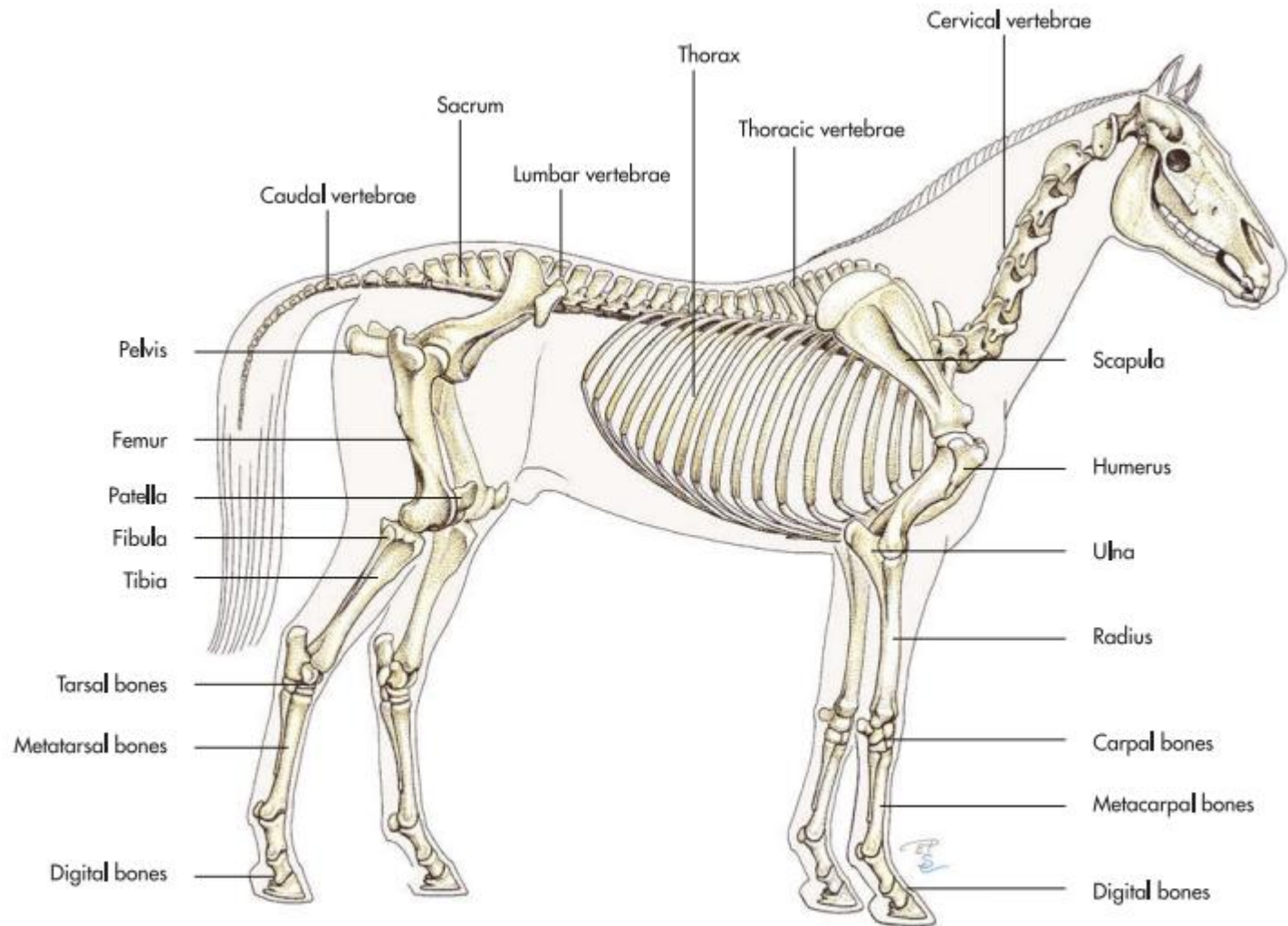


Fig. 1.29 Skeleton of the horse (schematic).

- **Atlas**

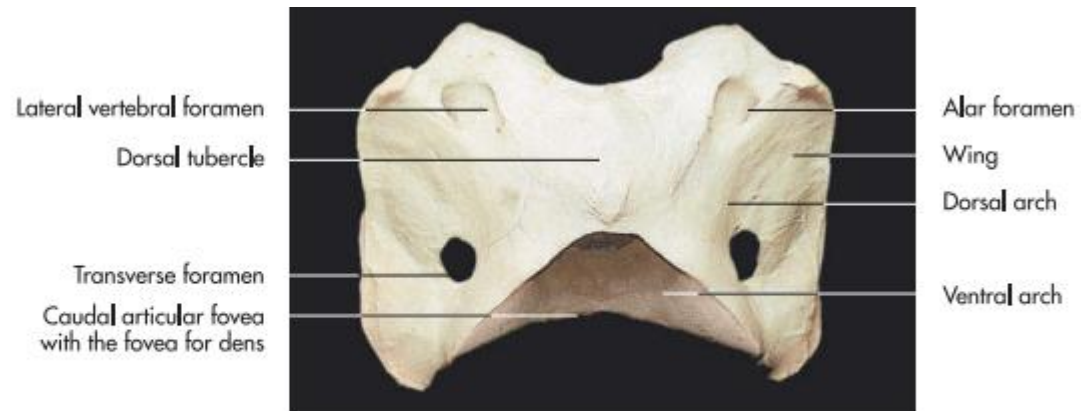


Fig. 2.53 First cervical vertebra (atlas) of a horse (dorsal aspect).

- **Axis**

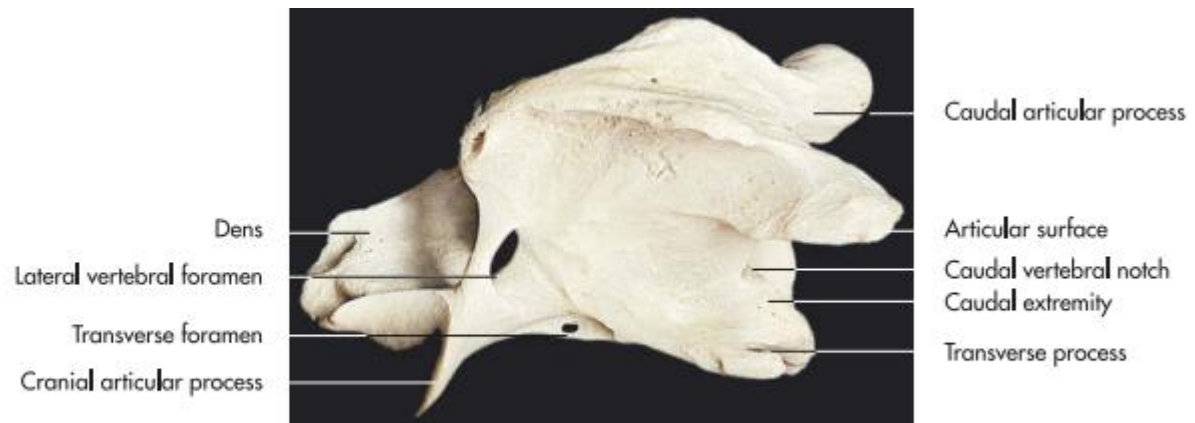


Fig. 2.54 Second cervical vertebra (axis) of a horse (lateral aspect).

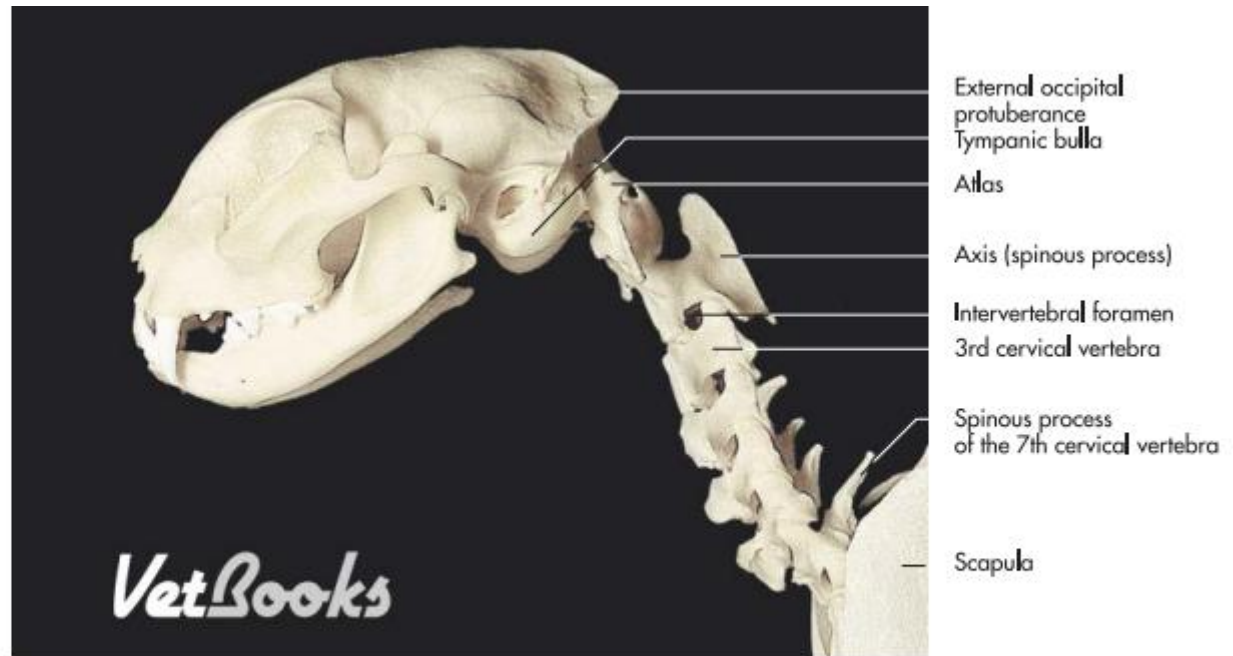


Fig. 2.47 Skull and cervical spine of a cat (lateral aspect).

MUSCULI TRUNCII

- **Mm. colli**
- **Mm. dorsi**
- **Mm. caudae**
- **Mm. thoracis**
- **Mm. abdominis**

M. cutaneus colli

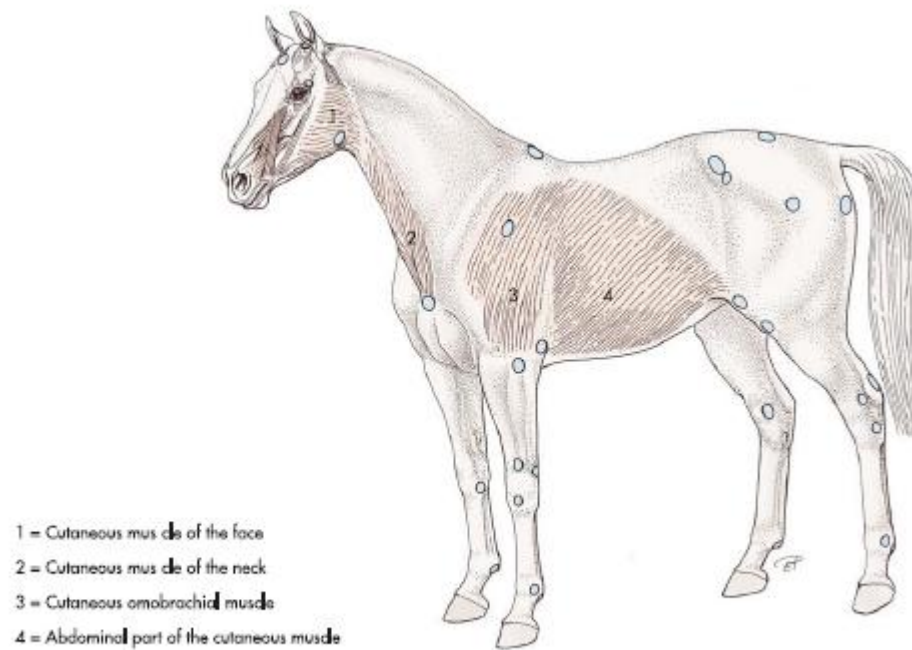


Fig. 3.3 Cutaneous muscles of the head, the neck and the back and topography of synovial cavities of the horse (lateral aspect).

- **M. sphincter colli primitivus (Car)**

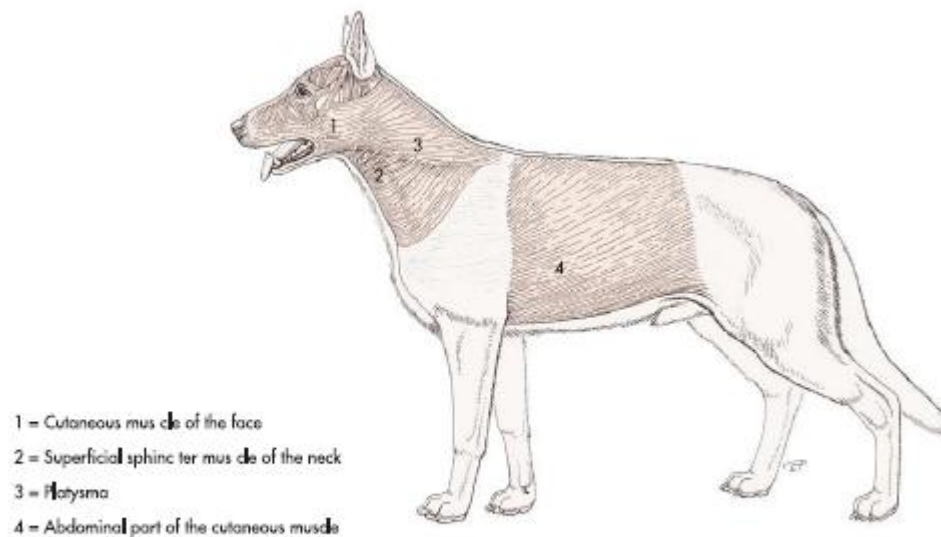


Fig. 3.2 Cutaneous muscles of the head, the neck and the back of the dog (lateral aspect).

MIŠIĆI VENTRALNOG DELA VRATA

- **M. omohyoideus**
- **M. sternohyoideus**
- **M. sternocephalicus**
- **M. sternothyroideus**
- **M. brachiocephalicus**
- **M. omotransversarius**

- **Mm. scaleni**
- **M. longus colli**
- **M. longus capitis**
- **M. rectus capitis lateralis**
- **M. rectus capitis ventralis**
- **M. intertransversarii cervicis**

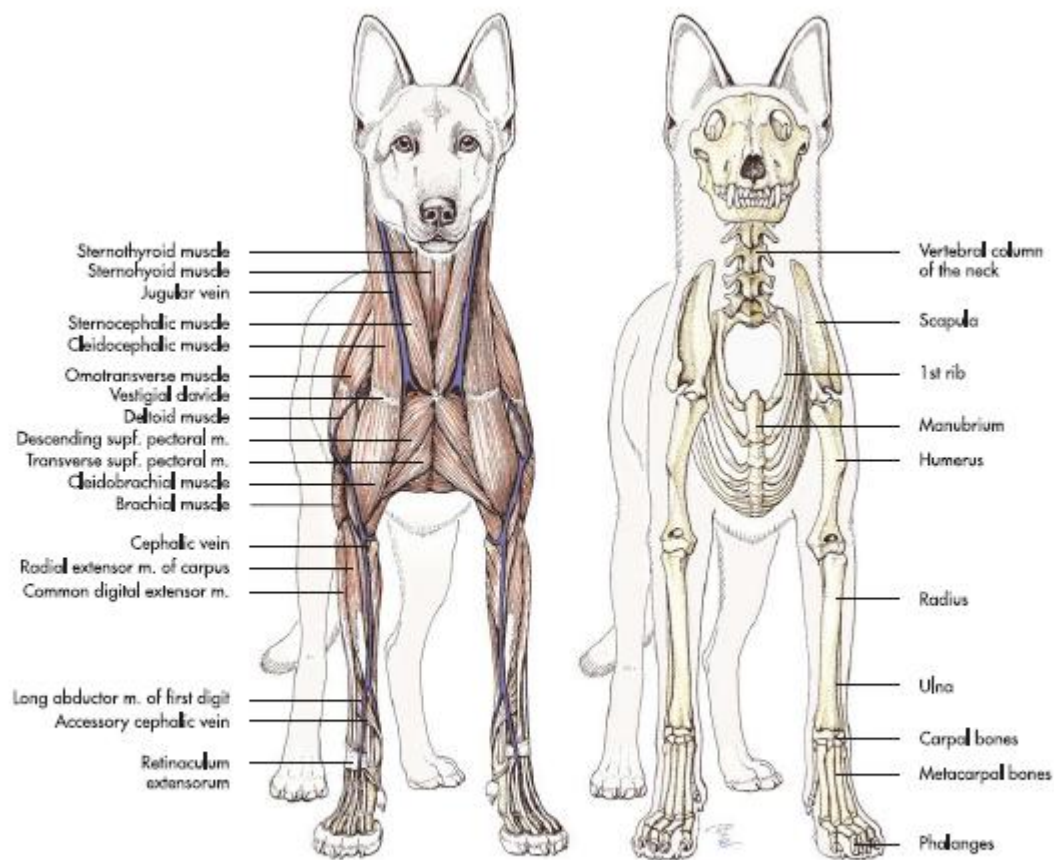


Fig. 4.79 Superficial cervical, thoracic and intrinsic musculature of the shoulder and skeleton of the dog (schematic, cranial aspect).

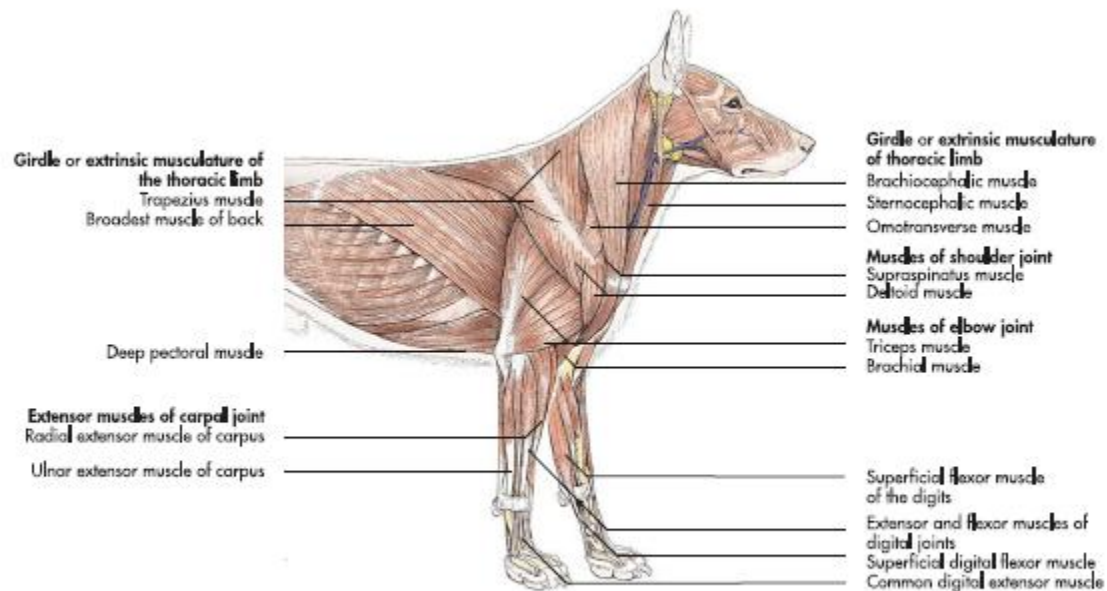


Fig. 4.73 Superficial layers of the extrinsic and intrinsic musculature of the thoracic limb of the dog (schematic).

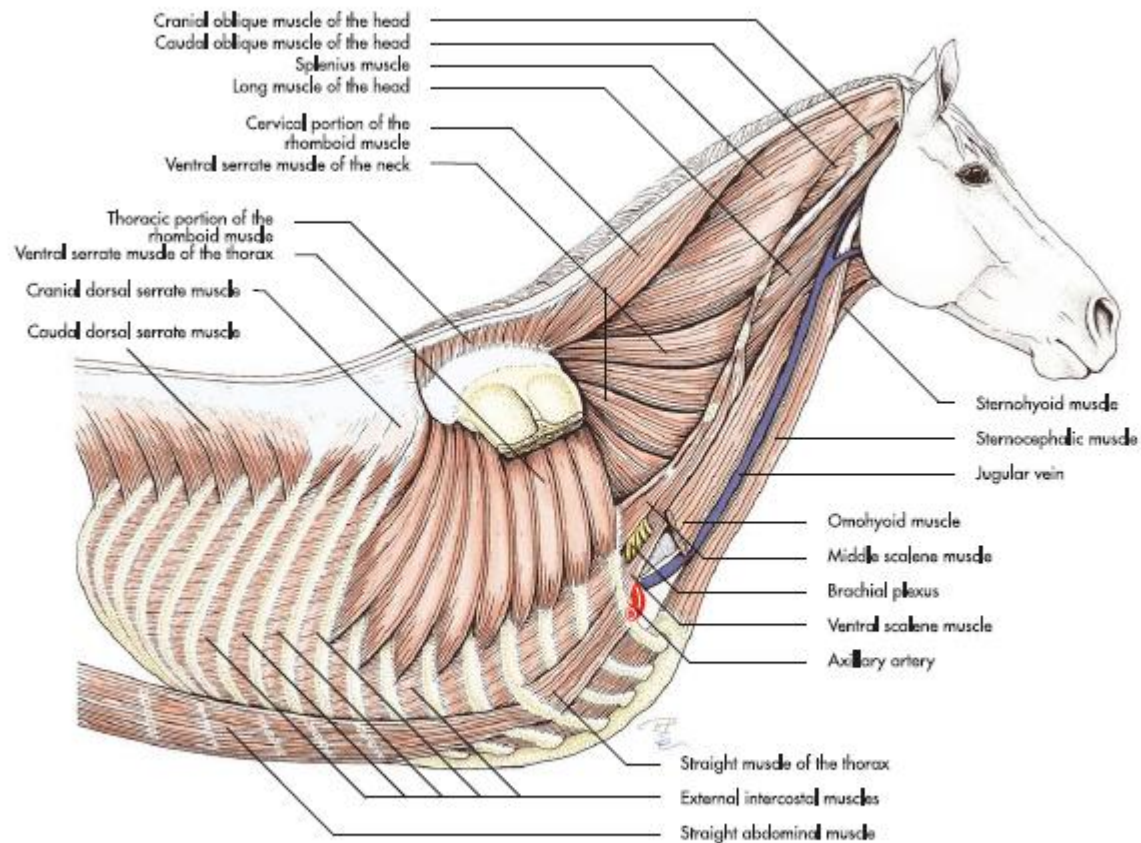


Fig. 3.12 Superficial muscles of the trunk of the horse (schematic); fig. based on data from Ghetie, 1954.

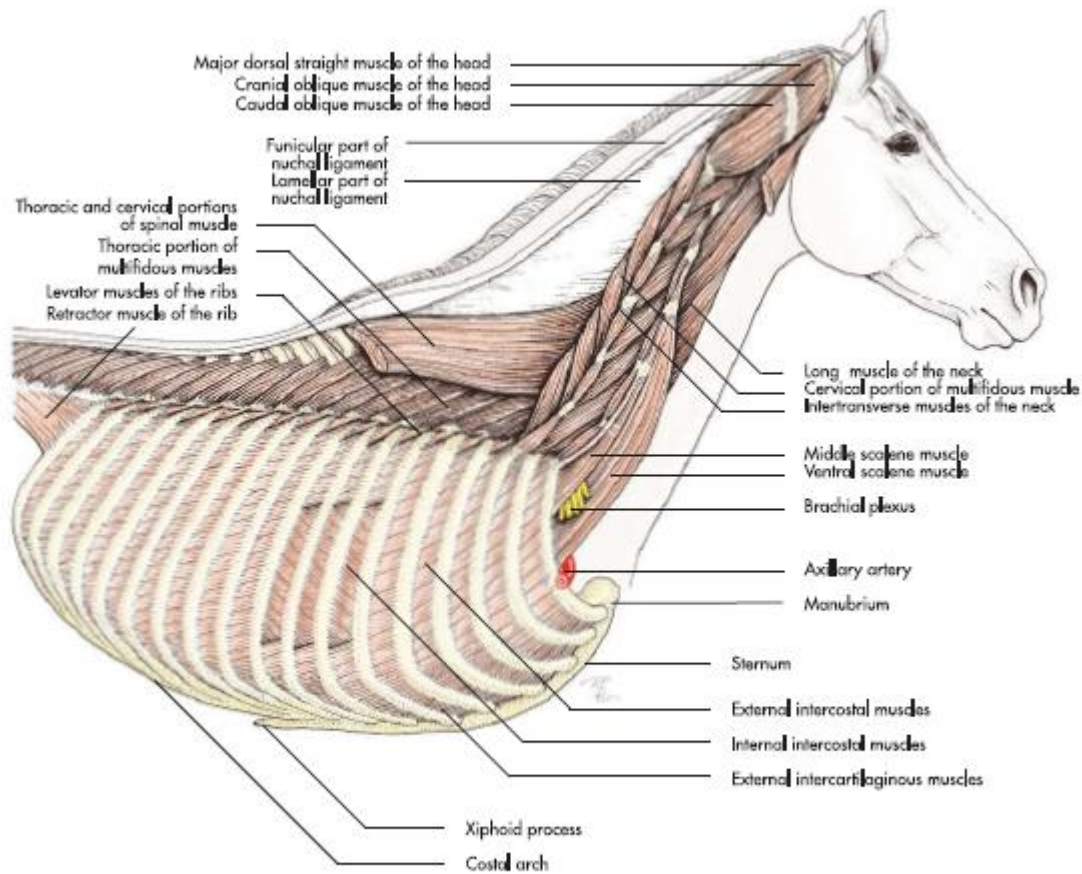


Fig. 3.15 Deep layer of the trunk musculature of the horse (schematic); fig. based on data from Ellenberger and Baum, 1943.

MIŠIĆI DORZALNOG DELA VRATA

- **M. splenius**
- **M. trapezius cervicis**
- **M. longissimus capitis**
- **M. longissimus atlantis**
- **M. rhomboideus cervicis**
- **M. serratus ventralis cervicis**

- **Mm. multifidi cervicis**
- **M. semispinalis capitis**
- **M. obliquus capitis caudalis**
- **M. obliquus capitis cranialis**
- **M. rectus capitis dorsalis major**
- **M. rectus capitis dorsalis minor**

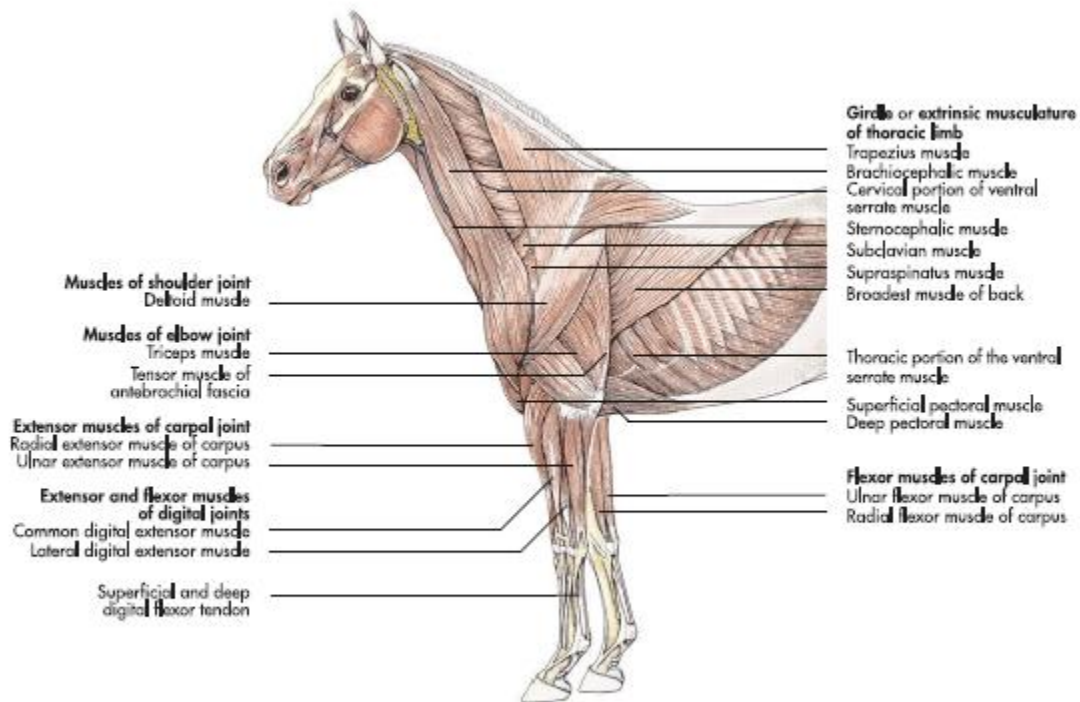


Fig. 4.76 Superficial layers of the extrinsic and intrinsic musculature of the thoracic limb of the horse (schematic).

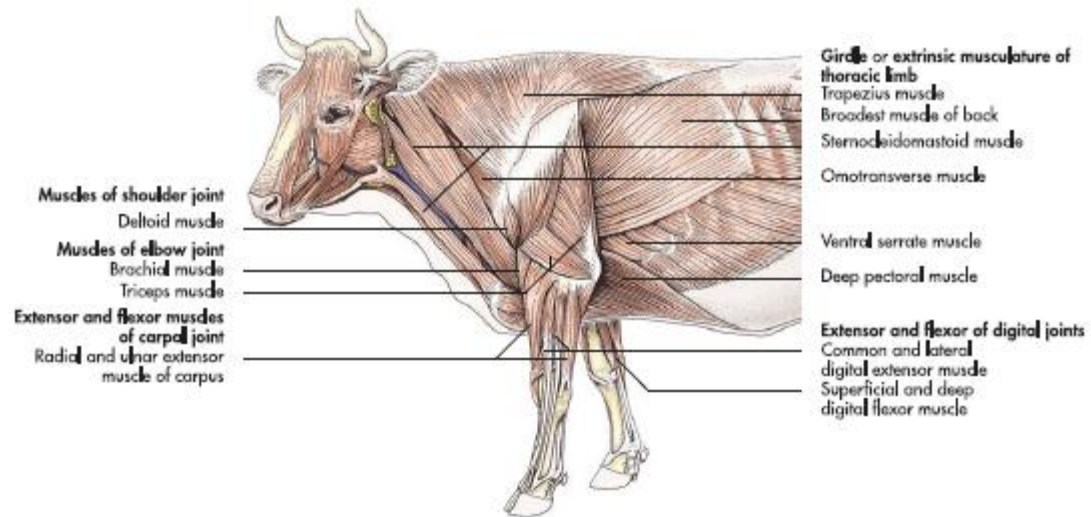


Fig. 4.75 Superficial layers of the extrinsic and intrinsic musculature of the thoracic limb of the ox (schematic).

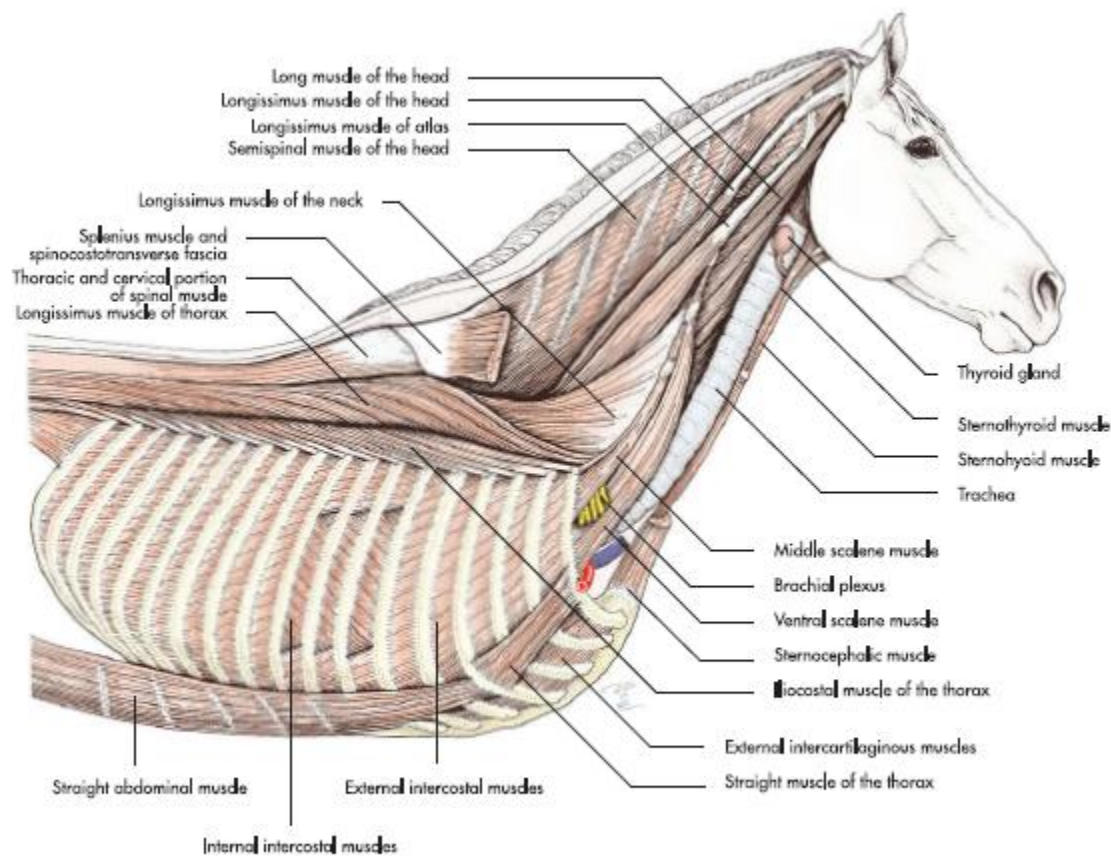


Fig. 3.14 Superficial and middle layers of the trunk musculature of the horse (schematic); fig. based on data from Ghetie, 1954.

TRUNCUS BICAROTICUS

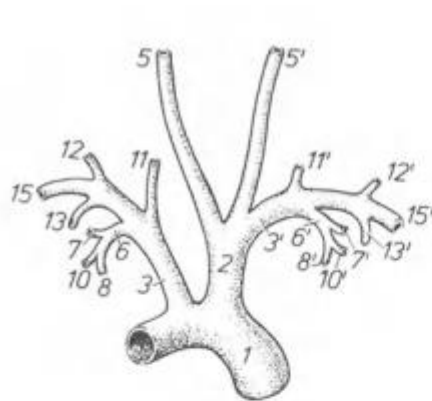


Fig. 51

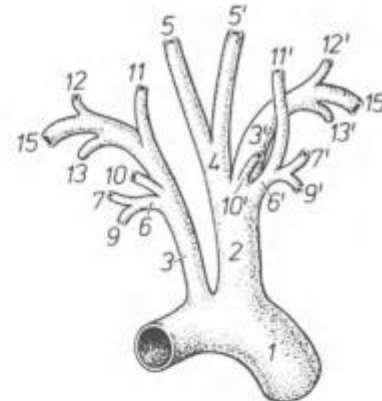


Fig. 52

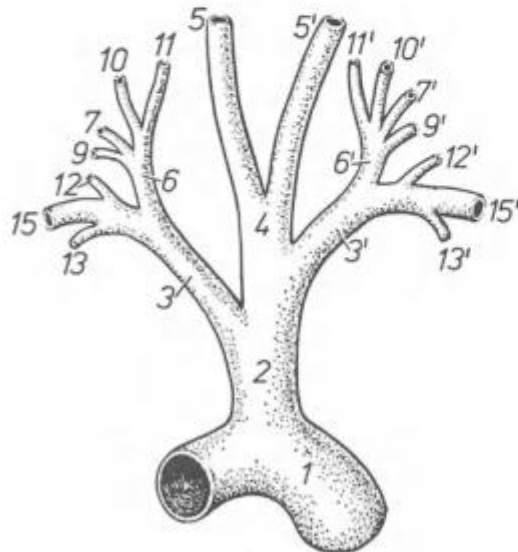


Fig. 53

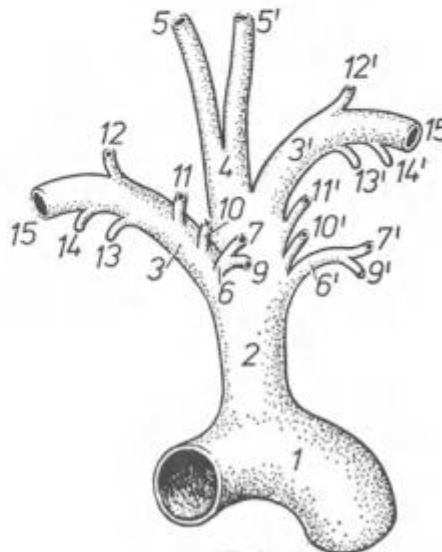


Fig. 54

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

- **A. carotis communis sinistra et dextra**

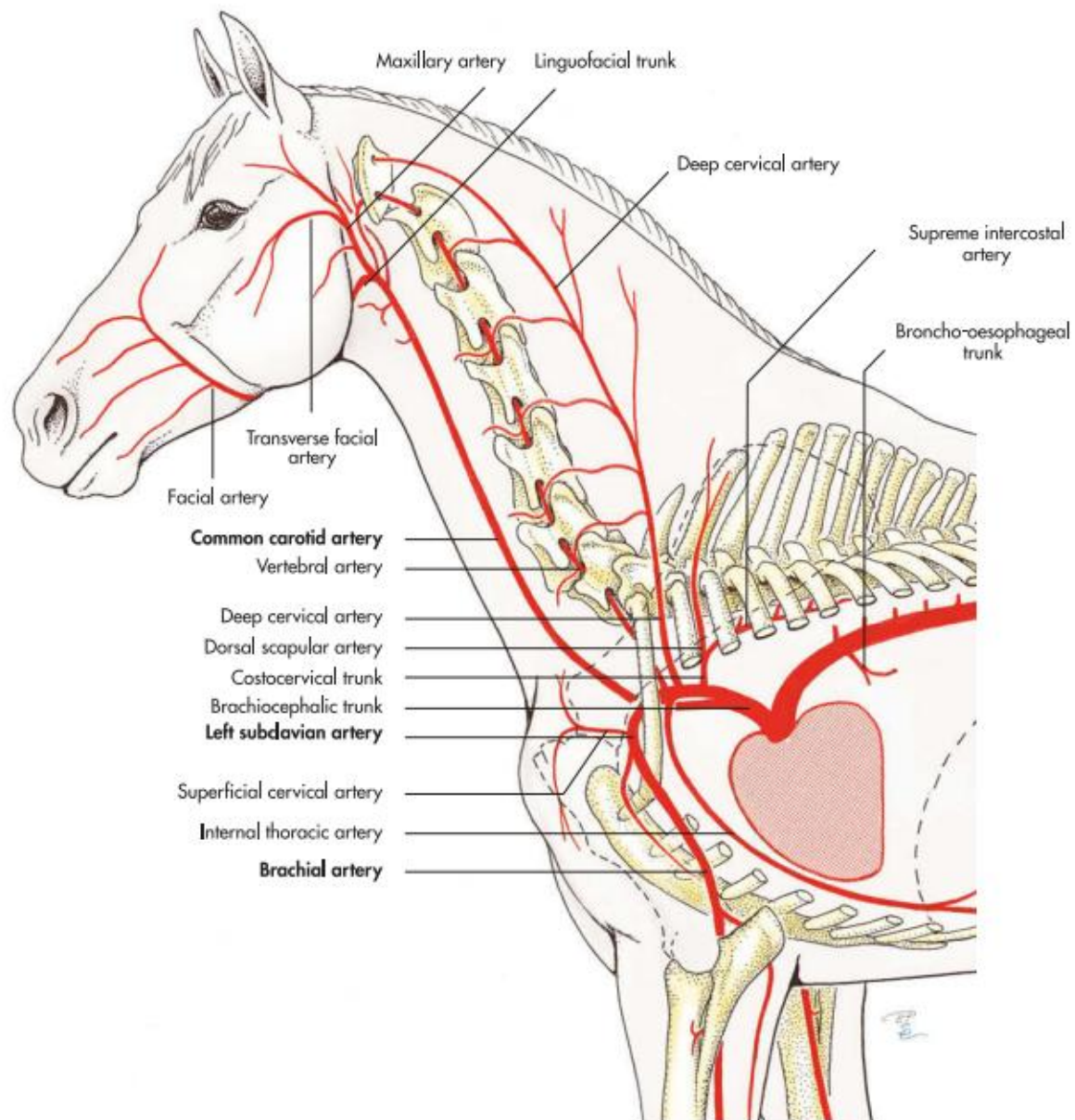


Fig. 13.19 Brachiocephalic trunk and its branches in the horse (schematic).

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

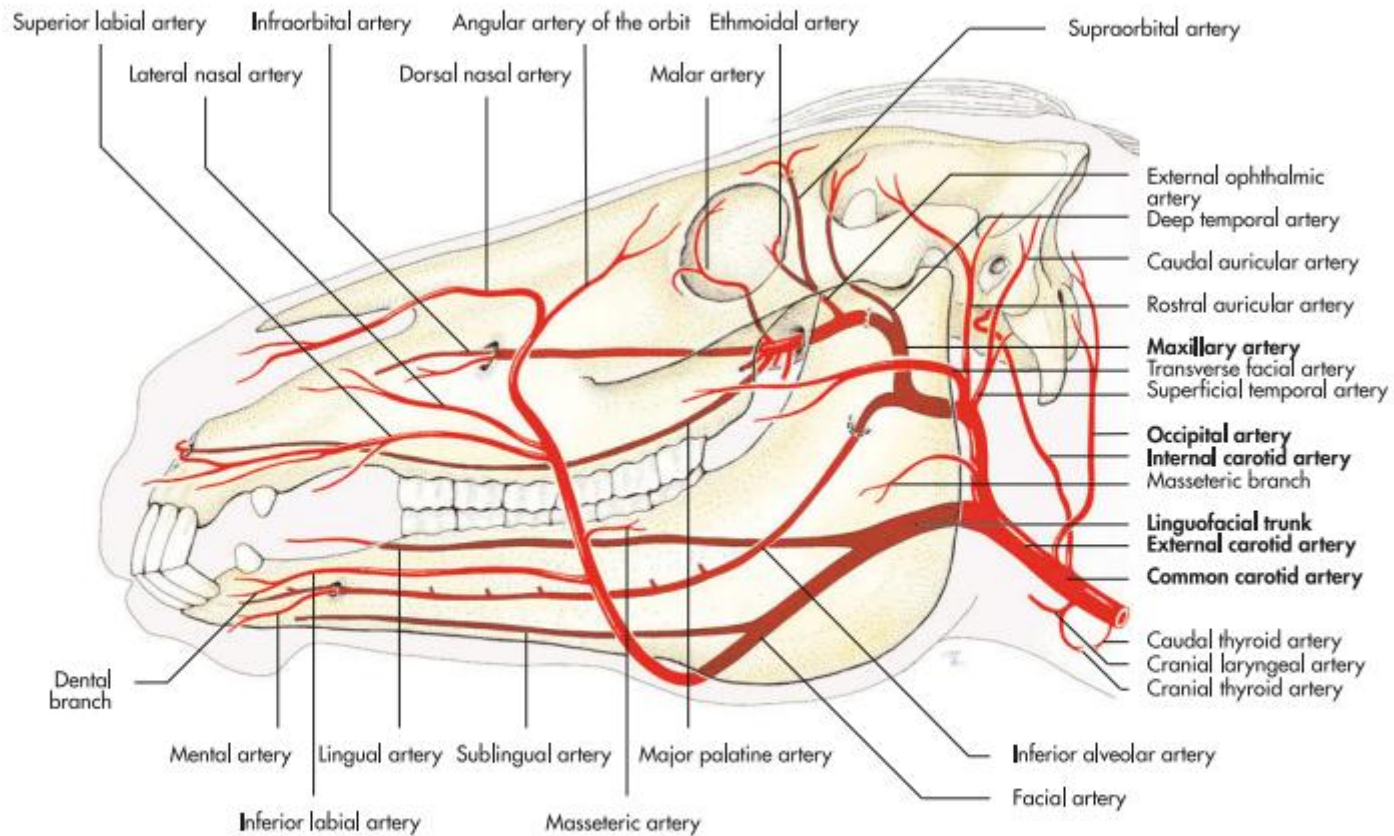


Fig. 13.18 Main arteries of the head of the horse (schematic); fig. based on data from Dyce et al., 2002.

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

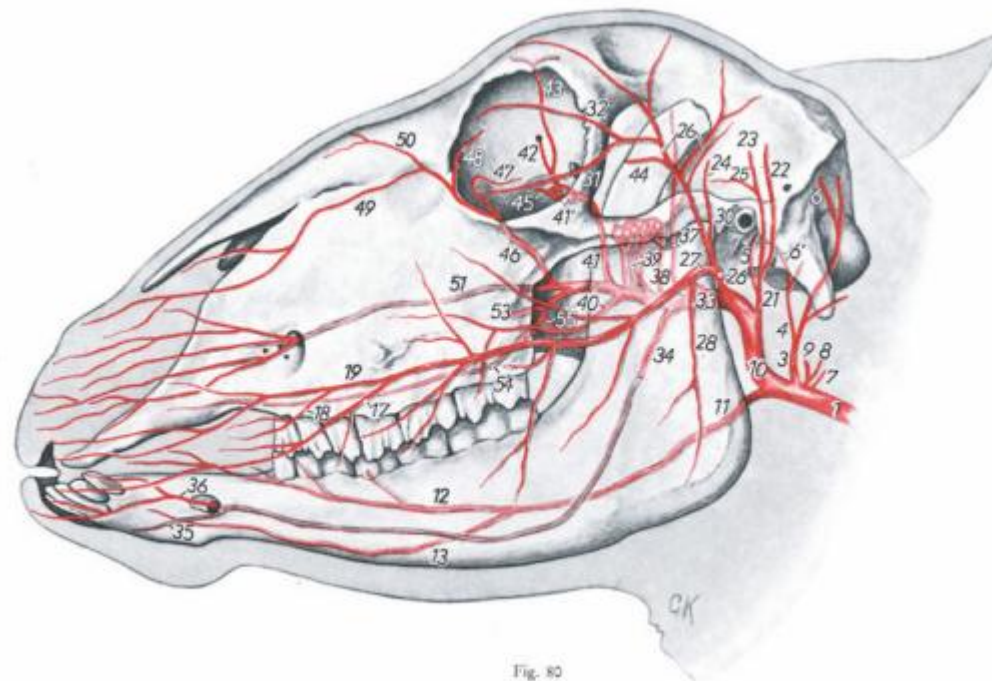


Fig. 80

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 externa → **A. maxillaris**

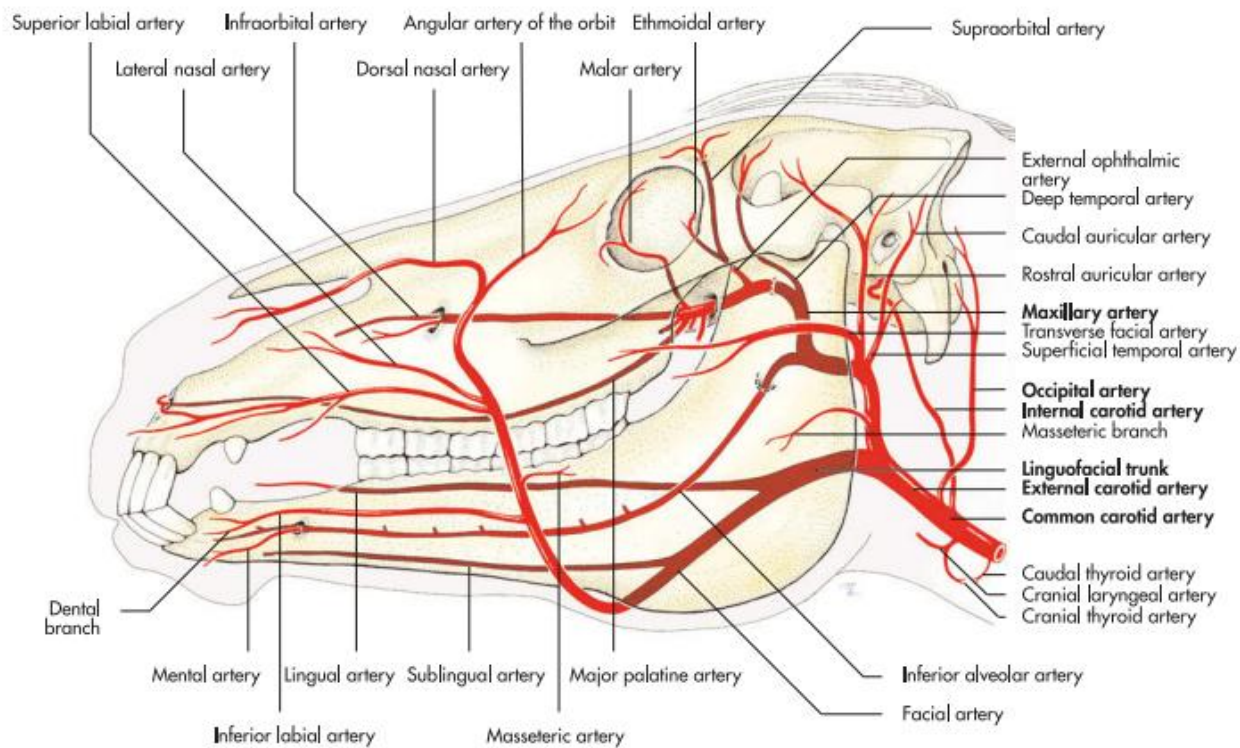


Fig. 13.18 Main arteries of the head of the horse (schematic); fig. based on data from Dyce et al., 2002.

VE NE GLAVE I VRATA

- **V. jugularis externa sinistra et dextra**
- **V. jugularis interna sinistra et dextra (Bo, su, ca)**

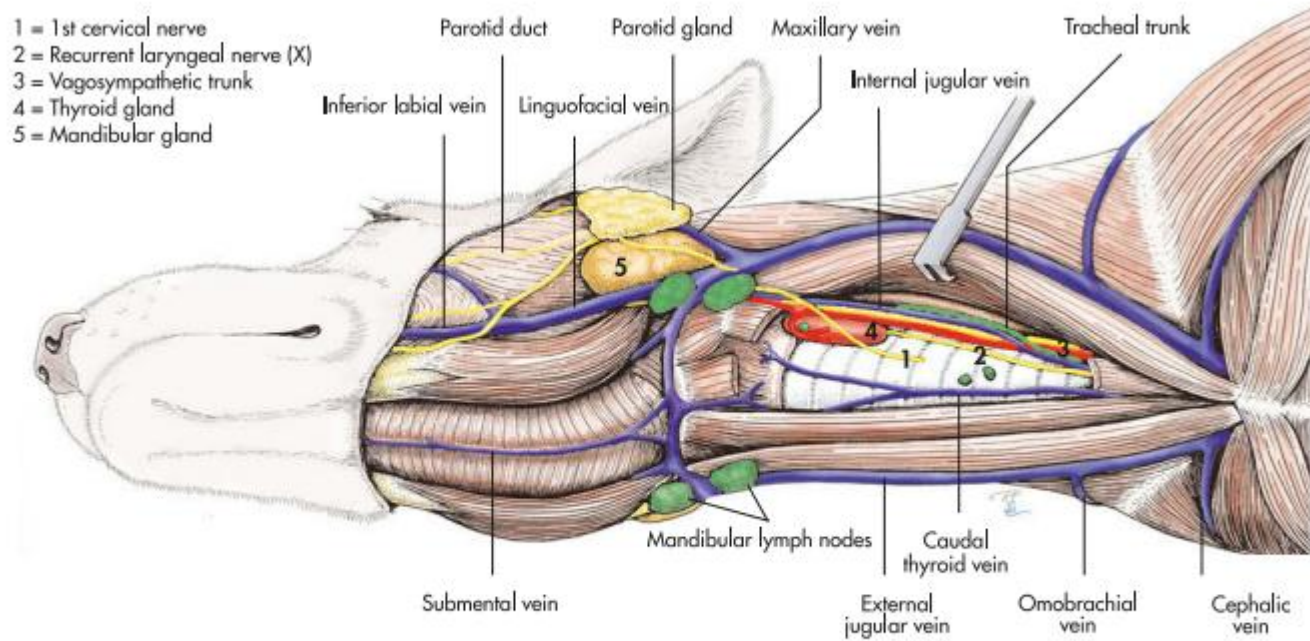


Fig. 20.18 Schematic illustration of the superficial structures of the neck in the dog (ventral view).

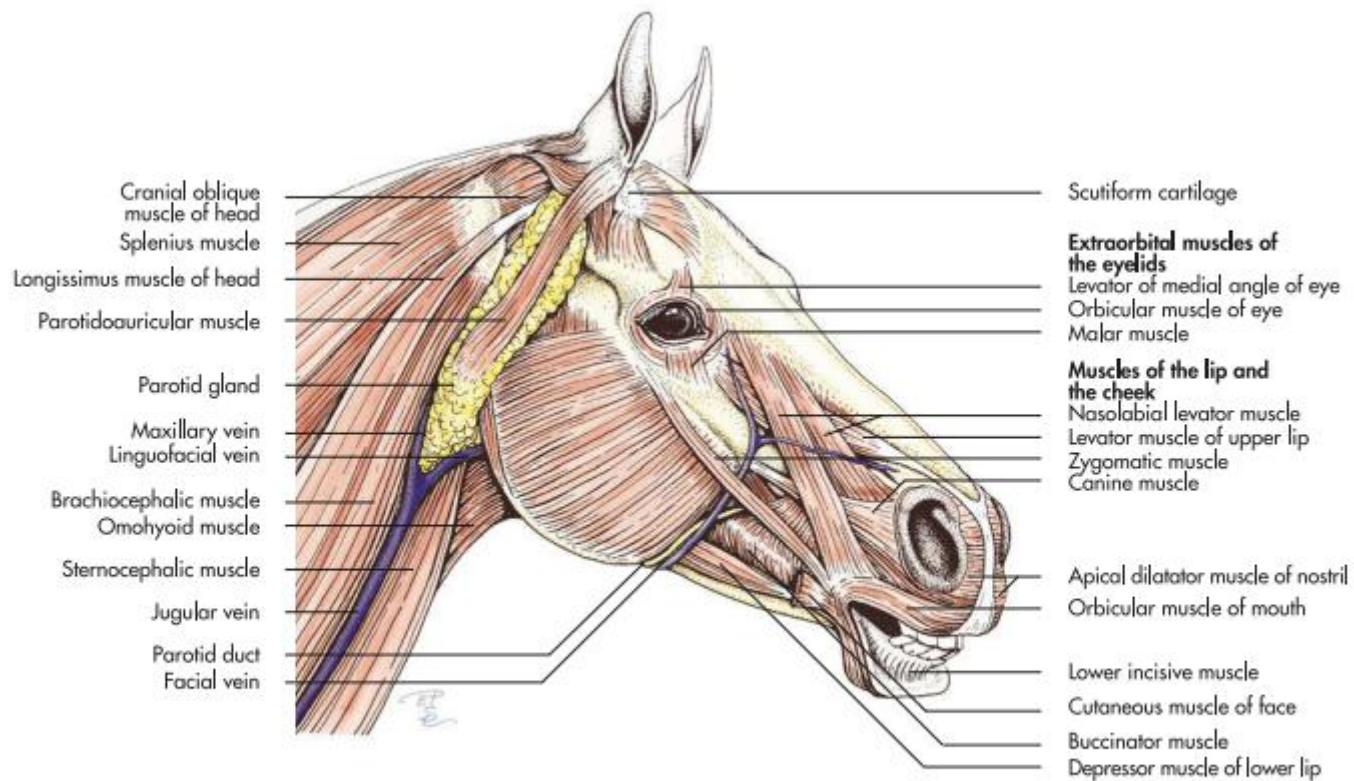
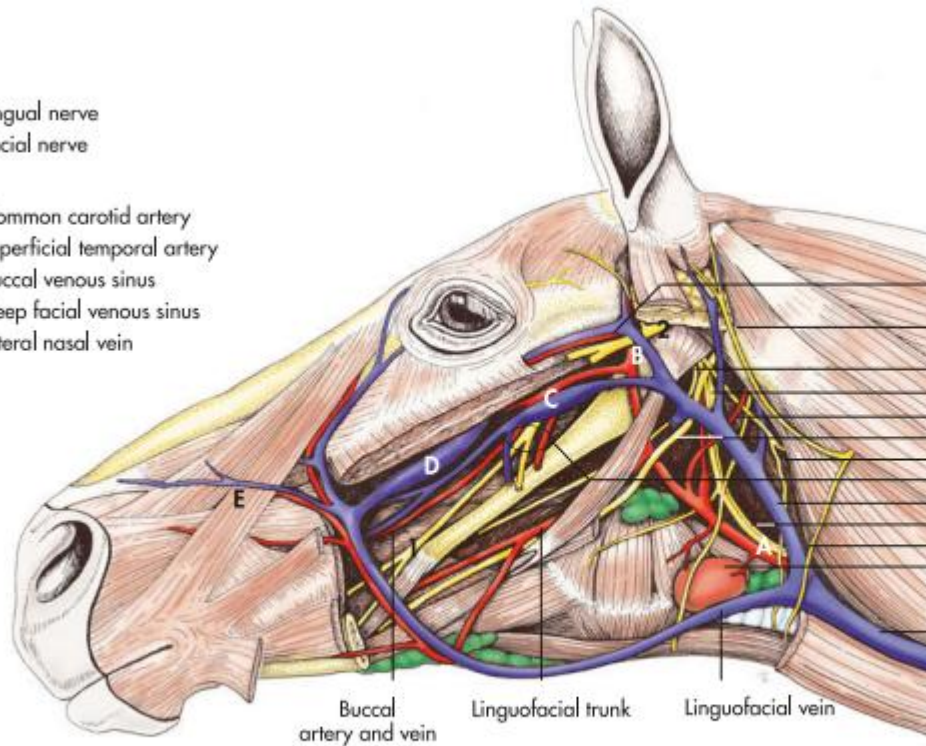


Fig. 3.4 Superficial muscles of the head of the horse (schematic, lateral aspect); fig. based on data from Ghetie, 1954.

- 1 = Lingual nerve
2 = Facial nerve

- A = Common carotid artery
B = Superficial temporal artery
C = Buccal venous sinus
D = Deep facial venous sinus
E = Lateral nasal vein



Transverse facial artery and vein
Great auricular nerve

Glossopharyngeal nerve
Cranial cervical ganglion
Occipital artery
Hypoglossal nerve
Accessory nerve
Inferior alveolar a., v. and n.
Maxillary vein
Vagosympathetic trunk
Ventral branch of the C₂ nerve
Thyroid gland

External jugular vein

Fig. 20.9 Topography of the deeper organs and structures of the head in the horse (schematic).

LIMFNI SISTEM GLAVE

- **Lc. parotideum**
- **Lc. mandibulare**
- **Lc. retropharyngeum**

- **Lc. parotideum – Lnn. parotidei** (art. temporomandibularis)

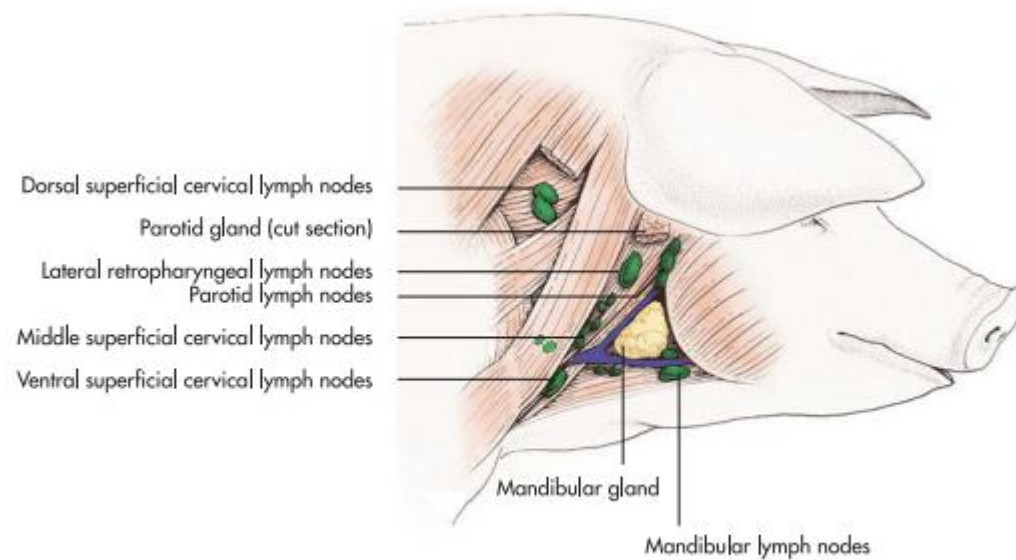


Fig. 14.8 Lymph nodes of the head and the cranial part of the neck of the pig (schematic).

- **Lc. mandibulare – Lnn. mandibulares** (spatium mandibulae)

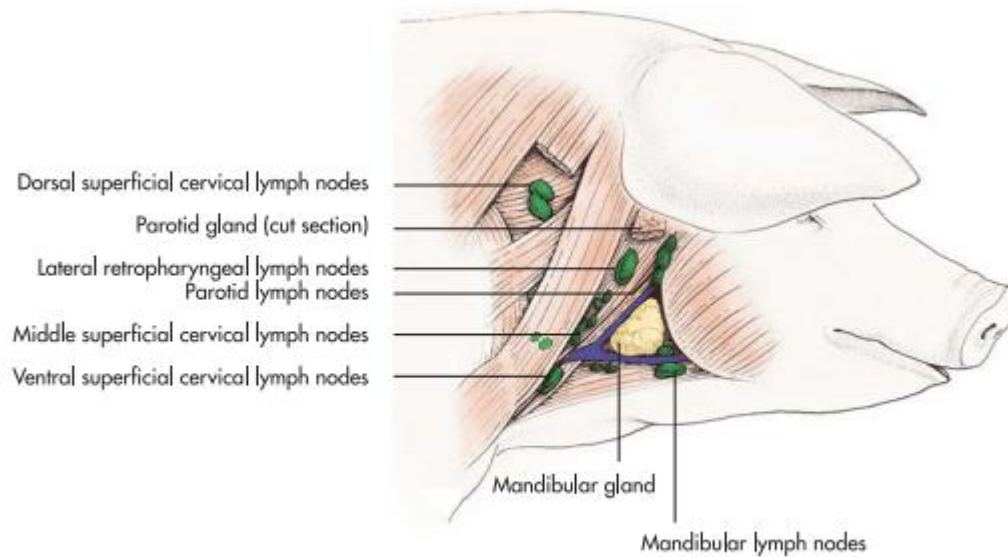


Fig. 14.8 Lymph nodes of the head and the cranial part of the neck of the pig (schematic).

- **Lc. retropharyngeum – Lnn. retropharyngei laterales (ala atlantis) et mediales (pharynx)**

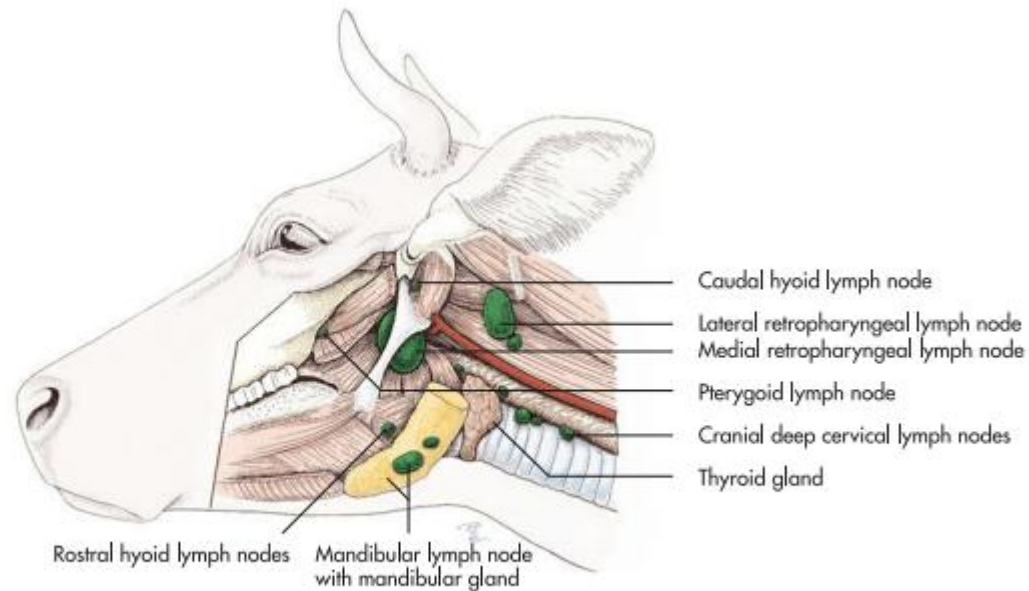


Fig. 14.9 Deep lymph nodes of the head and the cranial part of the neck of the ox (schematic).

LIMFNI SISTEM VRATA

- **Lc. cervicale superficiale**
- **Lc. cervicale profundum**

- **Lc. cervicale superficiale – Lnn. cervicales superficiales dorsales, ventrales, medii** (su) (kraniodorz. od articulatio humeri)

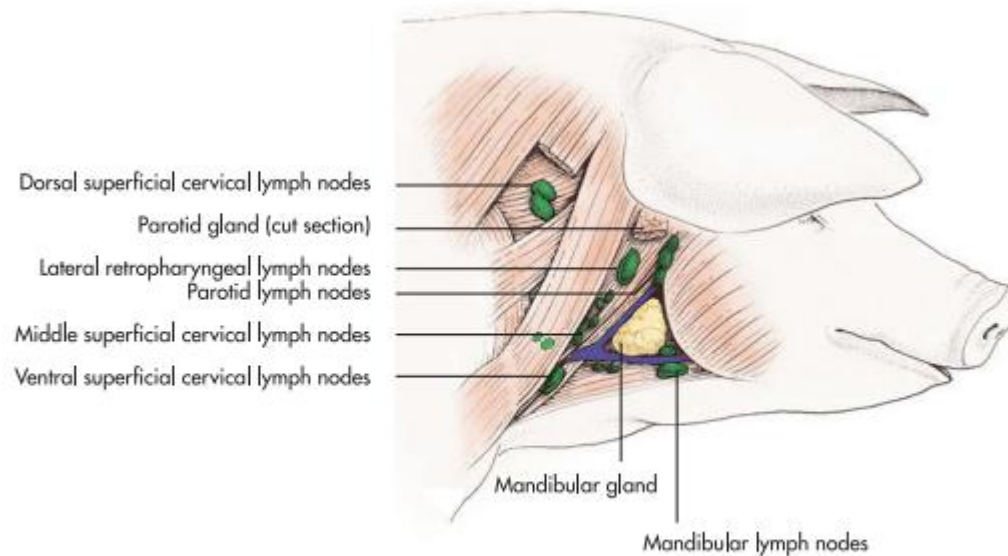


Fig. 14.8 Lymph nodes of the head and the cranial part of the neck of the pig (schematic).

- **Lc. cervicale profundum – Lnn. cervicales profundi craniales, medii, caudales (pars cervicalis tracheae)**

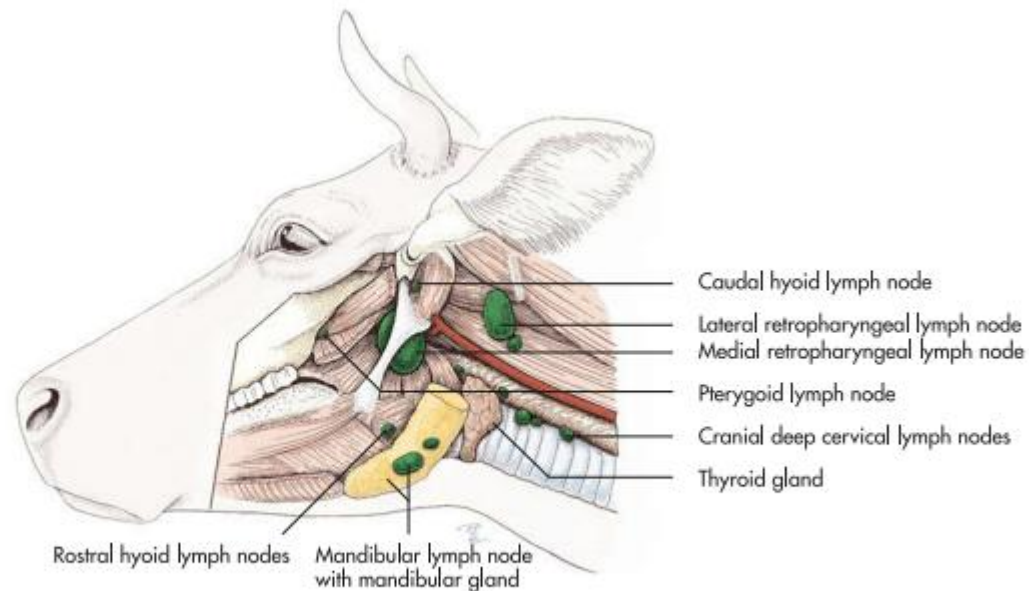


Fig. 14.9 Deep lymph nodes of the head and the cranial part of the neck of the ox (schematic).

Nn. CRANIALES

- **Nn. olfactorii**
- **N. opticus**
- **N. oculomotorius**
- **N. trochlearis**
- **N. trigeminus**
- **N. abducens**

- **N. facialis**
- **N. vestibulocochlearis**
- **N. glossopharyngeus**
- **N. vagus**
- **N. accessorius**
- **N. hypoglossus**

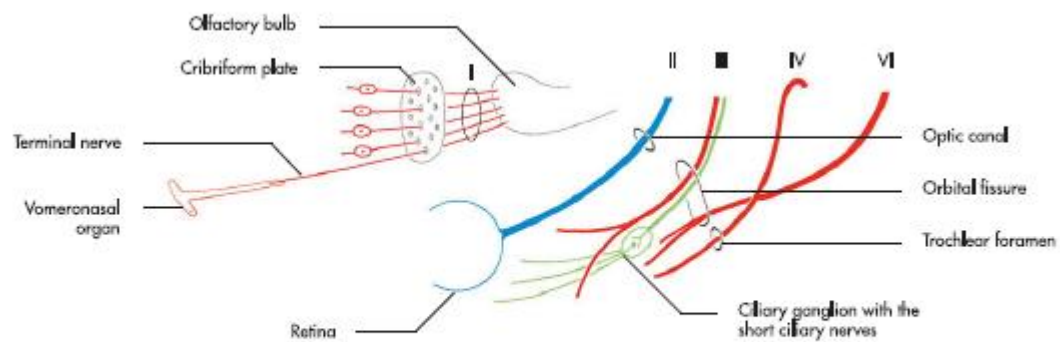


Fig. 15.51 Schematic illustration of the olfactory (light red), optic (blue), oculomotor, trochlear and abducent (red) nerves, and the parasympathetic fibres (green); fig. based on data from Budras and Röck, 1997.

- 1 = Trigeminal ganglion
- 2 = Geniculate ganglion
- 3 = Petrosal ganglion
- 4 = Proximal ganglion

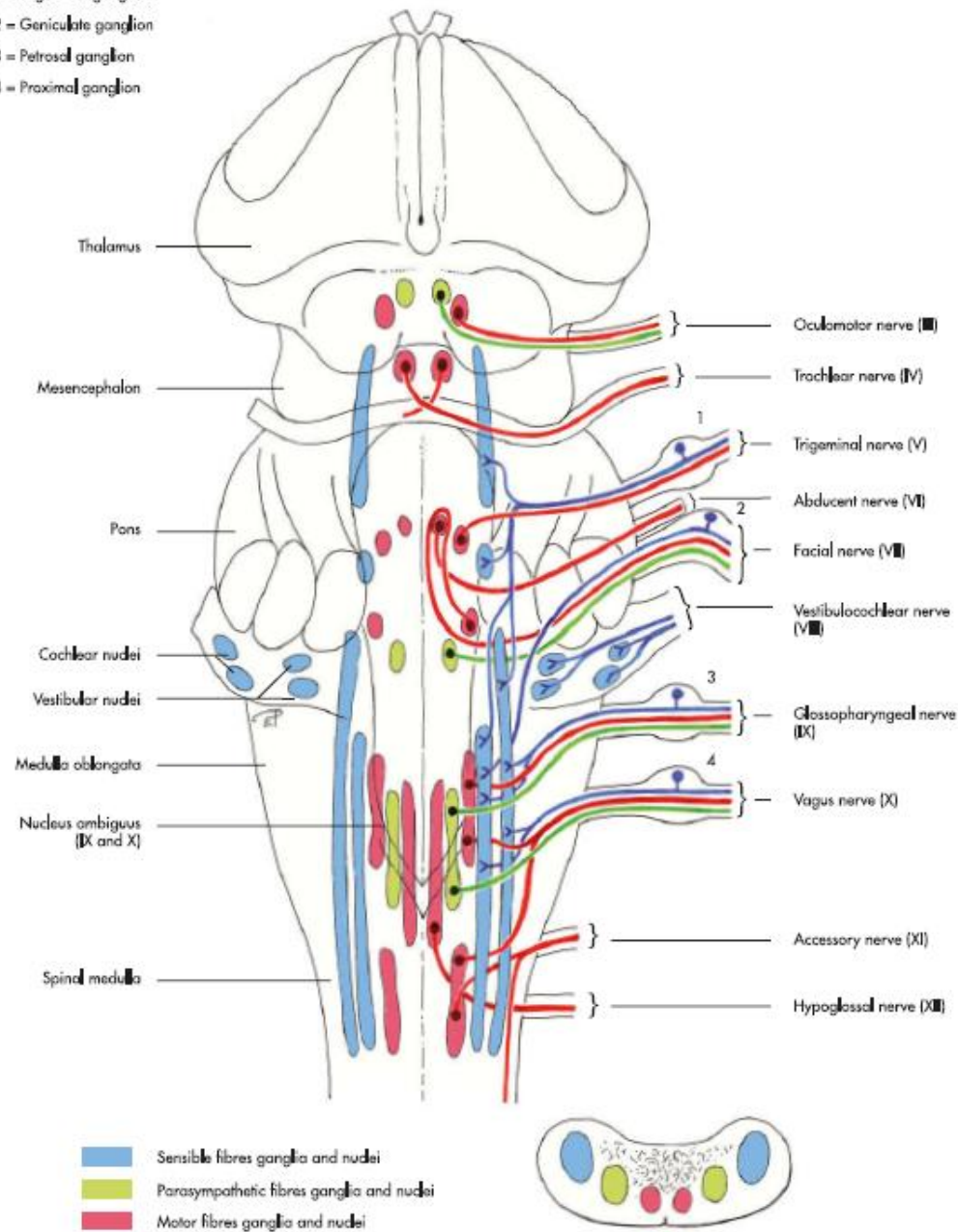


Fig. 15.50 Schematic illustration of the position of cerebrospinal nuclei, nerves and ganglia (schematic).