

Terms list for: Carnivore Gross Anatomy and Radiographic Anatomy Plus Palpable Structures

Note: items shown in “*small type*” are less likely to appear on gross anatomy lab exams. Also note that some terms are followed by a letter: “P” for palpable/observable structures and (for your convenience) “R” indicates most of the terms that are also on your radiology “To Know” list.

LABORATORY 1 (pp. 15-21)

Superficial structures

umbilicus
thoracic mammae (cranial & caudal)
abdominal mammae (cranial & caudal)
inguinal mammae
costal arch
superficial fascia & deep fascia
cutaneous trunci m.

preputial muscle

skin (regional thickness differences) and foot pads (p)

Thoracic limb: extrinsic muscles (mm.)

etc.

superficial pectoral muscle (descending & transverse parts)
deep pectoral muscle
brachiocephalicus m.
clavicular intersection
cleidobrachialis m.
cleidocephalicus m.
pars cervicalis (cleidocervicalis m.)
pars mastoideus (cleidomastoideus m.)

INDEPENDENT STUDY (pp. 6-15)

Thoracic limb: bones

Scapula (cranial/caudal borders, body, angles) (pr)
neck
spine (pr)
supraspinous fossa (r)
infraspinous fossa (r)
glenoid cavity
acromion process (pr) *cat: hamate+suprabamate*
serrated face
scapular notch
supraglenoid tubercle (r)
coracoid process
glenoid fossa (r)

Clavicle (r) (cat; mineralized clavicular tendon in dog)

Humerus

head (r)
intertubercular groove (r)
greater tubercle (pr)

lesser tubercle (r)

deltoid tuberosity (r)

tricipital line

brachialis groove

humeral condyle (r)

trochlea

capitulum

lateral & medial epicondyles (r)

olecranon fossa

supratrochlear foramen (r)

supracondylar foramen (cat)

Radius

head (r)

radial tuberosity

ulnar notch

medial styloid process (r)

Ulna

trochlear notch (r)

olecranon (pr)

anconeal process (r)

medial coronoid processes (pr) & lateral (r)

lateral styloid process (r)

radial fossa/notch (r)

Bones of the Carpus

proximal carpal bones: intermedioradial (radial (r)), ulnar (r) & accessory carpal bones (pr)
distal carpal bones: 1, 2, 3, & 4 (r)

Bones of the Metacarpus

metacarpals: 1, 2, 3, 4, & 5 (pr)

Phalanges (proximal, middle, distal) (r)

ungual process (r)

ungual crest (r)

extensor process

proximal sesamoid bones

dorsal (and palmar) sesamoid bones (r)

LABORATORY 2 (pp. 22-25)

Ventral neck mm. & cervical deep fascia

sternocephalicus m. (*mastoid & occipital parts*)

sternohyoideus m.

sternothyroideus m.

superficial cervical lymph nodes (p)

deep fascia of the neck

carotid sheath

median raphe

THORACIC LIMB EXTRINSIC MM.

omotransversarius m.

trapezius m. (cervical & thoracic parts) (p)

rhomboideus m. (p)(capitis, cervicis, and thoracis parts)

latissimus dorsi m. (p)

thoracolumbar (deep) fascia

serratus ventralis m. (cervicis & thoracis parts)

Thoracic limb: intrinsic mm. etc.**SHOULDER**

deltoideus m.
 infraspinatus m. (p) *with subtendinous bursa*
teres minor m.
 supraspinatus m. (p)
 subscapularis m.
 teres major m.
coracobrachialis m.

BRACHIUM

tensor fasciae antebrachii m.
 triceps brachii m. (long, lateral, accessory, & medial heads)
 anconeus m.
 biceps brachii m. (p)
transverse humeral retinaculum
 brachialis m.

LABORATORY 4 (pp. 31-41)

Thoracic limb: intrinsic mm. (conti.)**ANTEBRACHIUM**

antebrachial (deep) fascia
 extensor retinaculum
 flexor retinaculum
brachioradialis m. (cat, some dogs)
Extensor muscle group (p)
 extensor carpi radialis m. (*longus & brevis in cat*)
 common digital extensor m.
 lateral digital extensor m.
 extensor carpi ulnaris = ulnaris lateralis m.
 supinator m.
 pronator teres m.
abductor digiti I longus (aka abductor pollicis longus or extensor carpi obliquus m.)
Flexor muscle group (p)
 flexor carpi radialis m.
 superficial digital flexor m.
 flexor carpi ulnaris m. (ulnar & humeral heads)
 deep digital flexor m. (humeral, ulnar, radial heads)
pronator quadratus m.
 carpal canal (p)
palmar annular ligament
 digital annular ligaments (proximal & distal)

MANUS

interosseus mm.
 dorsal elastic ligaments (paired in dog)
 lateral elastic ligament (cat)

Thoracic limb: joints

shoulder (scapulohumeral) joint (pr)
 elbow joint (humeroulnar, humeroradial, radioulnar) (pr)
 lateral & medial collateral ligaments

interosseous ligament

carpal joints (radiocarpal, intercarpal, carpometacarpal) (pr)
 metacarpophalangeal joint (pr)
 proximal interphalangeal joint (pr)
 distal interphalangeal joint (pr)

Pelvic limb: bones

Os Coxae:

Ilium
 wing (p)
 body
 iliac crest (p)
tuber coxae
tuber sacrale
greater ischiatic notch

Ischium

ischiatic tuberosity (pr)
ischiatic spine
lesser ischiatic notch
 ischiatic arch

Pubis

iliopubic eminence (r)
pecten
 obturator foramen (r)

Acetabulum

fossa and notch (r)

Femur

head (r)
 neck (r)
 greater trochanter (pr)
 lesser trochanter (r)
third trochanter
 trochanteric fossa (r)
 trochlea (ridges and groove) (r)
 medial & lateral condyles (pr)
 medial & lateral epicondyles (r)
extensor fossa

Patella (r)

Tibia

medial & lateral condyles (p)
 intercondyloid eminence (r)
 tibial tuberosity (pr)
 medial malleolus (r)

Popliteal sesamoid (r)

Fibula (head of) (pr)

lateral malleolus (r)

Tarsal Bones

Proximal row: calcaneus (pr), tuber calcanei (p) *with sustentaculum tali*, talus (pr) *with trochlea*.
 Distal tarsal bones: 1, 2, 3, 4 & *central tarsal bone* (r).

Metatarsal bones

Phalanges (r): *ungual process* (r), UNGUAL CREST (r), *dorsal and plantar sesamoid bones* (r).

LABORATORY 5 (pp. 50-59)

Pelvic limb: mm. etc.

superficial & deep gluteal fascia

sacroteruberous ligament (absent in cat)

thoracolumbar (deep) fascia

fascia lata

femoral triangle

popliteal lymph node (p)

THIGH

biceps femoris m.

(caudal crural abductor m.)

semitendinosus m. (p)

semimembranosus m. (p)

sartorius m. *(cranial & caudal parts in dog)*

gracilis m.

symphyseal tendon

pectineus m.

adductor m. *(brevis & longus parts-more distinct in cat)*

RUMP

gluteofemoralis (caudofemoralis) m. (cat)

tensor fasciae latae m. *(cranial & caudal parts esp. dog)*

superficial gluteal m.

middle gluteal m.

piriformis m.

deep gluteal m.

articularis coxae m.

LABORATORY 6 (pp. 59-63)

Pelvic limb: mm. (conti.)

CAUDAL HIP

internal obturator m.

gemelli mm.

quadratus femoris m.

external obturator m.

CRANIAL THIGH

quadriceps femoris m.: rectus femoris m., vastus lateralis m., vastus intermedius m. & vastus medialis m.

(patella & patellar ligament)

iliopsoas m.

psoas major m.

iliacus m.

CRUS

superficial fascia

deep crural fascia

crural extensor retinaculum

tarsal extensor retinaculum

CRANIOLATERAL LEG

cranial tibial m.

long digital extensor m.

peroneus longus m.

lateral digital extensor m.

peroneus brevis m.

LABORATORY 7 (pp. 63-75)

Pelvic limb: mm. (conti.)

CAUDAL LEG

gastrocnemius m.

soleus m. (cat)

caudal tibial m. (cat)

superficial digital flexor m.

common calcanean tendon

calcaneal bursa

deep digital flexor m.: lateral digital flexor m. & medial

digital flexor m.

flexor retinaculum

popliteus m. *with sesamoid in tendon of origin*

Pelvic limb: joints

symphysis pelvis (r)

sacroiliac joint

sacroteruberous ligament (absent in cat)

hip joint (coxafemoral) (pr)

ligament of the femoral head

transverse acetabular ligament

acetabular lip

stifle joint (*femorotibial, femoropatellar*) (pr)

patella/patellar ligament (p)

meniscus (lateral & medial menisci)

collateral ligaments (medial & lateral) (p)

cruciate ligaments (cranial & caudal)

tarsal joint (*tibiotarsal, proximal intertarsal, distal intertarsal, tarsometatarsal*) (pr)

metatarsophalangeal (pr)

interphalangeal (proximal, distal) (pr)

INDEPENDENT STUDY (pp. 75-79)

Vertebral column: bones

vertebra

body (r)

vertebral arch

pedicles (r)

laminae (r)

vertebral foramen (forms vertebral canal)

processes

spinous process or spine (r)

transverse processes (r)

vertebral endplate (r)

articular processes (*cranial, caudal articular facets*) (r)

intervertebral foramina (r)

intervertebral disc space (r)

spinal canal (r)

Cervical Vertebrae

atlas (C1) (r)

wing of atlas (p)

transverse foramina

lateral vertebral foramina (spinal n. C₁ exits)

axis (C2) (r)

spine of axis (p)

dens (r)

C6 (r)

Thoracic Vertebrae

spine (spinous process) (p)

antidorsal vertebra (T₁₁) (r)

accessory process (r)

mamillary process

Lumbar Vertebrae

Diaphragmatic crura attachment pts. (r)

Sacrum (r)

median sacral crest

wing

promontory

Caudal Vertebrae

Ribs

head, tuberculum, neck, body (r)

costal cartilages (costochondral junction) (pr)

costal arch

Sternum

sternbrae

manubrium (pr)

xiphoid process (pr)

LABORATORY 8 (pp. 81-87)

Trunk and neck: hypaxial mm. etc.

longus capitis m.

longus colli m.

scalenus m.

serratus ventralis m.

serratus dorsalis mm. (cranialis & caudalis)

external intercostal m.

internal intercostal m.

Abdominal Wall

linea alba (p)

external abdominal oblique m.

inguinal ligament (adjacent to the vascular lacuna)

internal abdominal oblique m.

cremaster m. (male dog; usually not in cat)

transversus abdominis m.

rectus abdominis m. (p)

Inguinal Canal

superficial inguinal ring

deep inguinal ring

vaginal process (female)

vaginal tunics (of vaginal process) covering spermatic cord (male)

LABORATORY 9 (pp. 87-88, 94-97)

Trunk and neck: epaxial mm. etc.

Iliocostalis System

iliocostalis lumborum mm.

iliocostalis thoracis mm.

Longissimus System

longissimus thoracis et lumborum

longissimus cervicis

longissimus capitis

Transversospinalis System

splenius m.

semispinalis capitis m.

biventer cervicis m.

complexus m.

supraspinous ligament

nuchal ligament

Neck: nerves and vessels (pp. 94-97)

second cervical nerve (ventral branch)

great auricular nerve

transverse cervical nerve

external jugular vein (p)

mandibular lymph nodes (p)

medial retropharyngeal lymph node

superficial cervical lymph nodes (p)

accessory (eleventh) cranial nerve

ventral branches of cervical nerves 3,4,5

vagosympathetic nerve trunk

INDEPENDENT STUDY (pp. 89-92)

Vertebral column: joints

Vertebral Joints

atlanto-occipital joint

atlantoaxial joint (r)

transverse ligament of the atlas

dorsal atlantoaxial ligament

intervertebral disks

anulus (annulus) fibrosus

nucleus pulposus

ventral longitudinal ligament

dorsal longitudinal ligament

yellow ligaments

Ribs

intercapital ligament

LABORATORY 10 (pp. 97-103)

Thorax

THORACIC INLET, INTERCOSTAL SPACES, HEART BEAT (p)

dorsal & ventral intercostal aa.

intercostal nn.

cranial & caudal thoracic mammae

axilla

axillary lymph node

lateral thoracic artery, vein, nerve

cranial epigastric artery

cranial superficial epigastric artery

pleurae: (pleural space (r))

pulmonary (visceral)

parietal

costal

mediastinal

pericardial mediastinal pleura

plica venae cavae

diaphragmatic

pulmonary ligament (caudal to root of lung)

mediastinum (contents of (r))

thymus

internal thoracic artery

musculophrenic artery

LABORATORY 11 (pp. 103-109)

Lungs (r)

left lung

cranial lobe (cranial & caudal parts)

caudal lobe

aortic impression

right lung

cranial lobe

cardiac notch

middle lobe

caudal lobe &

accessory lobe

principal (mainstem) bronchi

carina

lobar bronchi

tracheobronchial lymph nodes

Thorax: vessels cranial to the heart

cranial vena cava (r)

brachiocephalic vein

external jugular vein

subclavian vein

azygos vein

thoracic duct

cisterna chyli

tracheal ducts

aorta (r):

ascending aorta

aortic arch

descending aorta

coronary arteries (right & left)

brachiocephalic trunk

left common carotid a.

right common carotid a.

right subclavian a.

left subclavian a.

vertebral artery

costocervical trunk

superficial cervical artery

internal thoracic artery

Thoracic aorta: branches

(dorsal) intercostal arteries

bronchoesophageal a.

esophageal aa.

bronchial aa.

phrenic nerve

INDEPENDENT STUDY (pp. 109-114)

Autonomic Nervous System

Central Nervous System

brain

spinal cord

Peripheral Nervous System

cranial nerves

spinal nerves

afferent axons (travel in dorsal root)

efferent axons (travel in ventral root)

visceral efferent (vs. somatic efferent)

preganglionic neuron

autonomic ganglion

postganglionic neuron

LABORATORY 12 (pp. 114-119)

Nerves and ganglia

cervicothoracic ganglion

vertebral nerve

ansa subclavia

middle cervical ganglion

cardiac nerves

vagosympathetic trunk

cranial cervical ganglion

vagus nerve (dorsal and ventral branches)

left & right recurrent laryngeal nerves

caudal laryngeal nerve

dorsal & ventral vagal trunks

Heart and pericardium

fibrous pericardium

phrenicopericardial ligament

serous (membrane) pericardium

parietal pericardium

visceral pericardium (epicardium)

auricular (left) & atrial (right) surfaces of heart

coronary groove

subsinoasal interventricular groove

paraconal interventricular groove

right atrium (r)

sinus venarum

interatrial septum

intervenous tubercle

fossa ovalis

crista terminalis

right auricle

pectinate muscles

caudal vena cava (r)

coronary sinus

cranial vena cava

left & right atrioventricular orifices

endocardium

left & right atrioventricular valves

(parietal & septal cusps)

right ventricle (r)

chordae tendineae

papillary muscles

trabeculae carneae

trabecula septomarginalis

conus arteriosus

pulmonary trunk (r)

ligamentum arteriosum (fetal ductus arteriosus)

lobar pulmonary aa. (r)

lobar pulmonary vv. (r)

left atrium (r)

left auricle

left ventricle (r)
aortic valve (aortic root region (r))
semilunar cusps
fibrous nodule
left coronary artery
circumflex branch
paraconal interventricular branch
right coronary artery
great cardiac vein
coronary sinus

LABORATORY 13 (pp. 119-129)

(superficial cervical lymph nodes (p))

Thoracic limb: arteries

subclavian a.
superficial cervical artery
axillary artery
external thoracic a.
lateral thoracic a.
subscapular a.
thoracodorsal a.
caudal circumflex humeral a.
cranial circumflex humeral a.
brachial artery
deep brachial a.
bicipital a
collateral ulnar a.
superficial brachial a.
cranial superficial antebrachial a.
transverse cubital a.

Thoracic limb: nerves

SCAPULA AND BRACHIUM

Brachial Plexus

cranial pectoral nn.
suprascapular n.
subscapular n.
musculocutaneous n.
medial cutaneous antebrachial n.
axillary n.
cranial lateral cutaneous brachial n.
thoracodorsal n.
radial n.
median n.
ulnar n.

LABORATORY 14 (pp. 129-135)

Thoracic limb: vessels (conti.)

cephalic v.
accessory cephalic v.
median cubital v.
axillobrachial v.
omobrachial v. (absent in cat)

FOREARM AND PAW:

brachial a. (continued)

common interosseous a. (absent in cat)

ulnar a.

caudal interosseous a.

cranial interosseous a.

median a. (*small in cat*)

deep antebrachial a.

superficial palmar arch

palmar common digital aa.

RADIAL A. (LARGE IN CAT)

Thoracic limb: nerves (conti.)

ANTERBRACHIUM AND MANUS

radial n. (p)

deep & superficial branches

median n.

ulnar n. (p)

caudal cutaneous antebrachial n.

dorsal & palmar branches

LABORATORY 15 (pp. 138-143)

Abdominal wall: ventral and lateral

external pudendal a.

caudal superficial epigastric artery

cranial labial/scrotal a.

superficial inguinal lymph nodes (p)

cranial abdominal a.

deep circumflex iliac a. & v.

lumbar spinal nn. (ventral branches)

cranial iliohypogastric n. (L1)

caudal iliohypogastric n. (L2)

ilioinguinal n. (L3)

lateral cutaneous femoral n. (from LA)

INGUINAL STRUCTURES

inguinal canal

external pudendal a. & v.

genitofemoral nerve

spermatic cord or vaginal process

Male

spermatic cord

spermatic fascia (*external & internal*)

cremaster muscle (*dog; usually absent in cat*)

vaginal process

parietal & visceral vaginal tunics

mesorchium

mesoductus deferens

ductus deferens

deferent artery/vein

testicular artery/vein

pampiniform (venous) plexus

testis (p)

epididymis (p) (head, body, tail)

ligament of the tail of the epididymis

proper ligament of the testis

scrotum (p)

Female

vaginal process (*contains fat & round ligament of uterus*)

LABORATORY 16 (pp. 143-155)**Abdominal and peritoneal cavities**

transversalis fascia
 parietal & visceral peritoneum
 falciform ligament (fat filled) (r)

round ligament of the liver

median ligament of the bladder
 vaginal ring
 deep inguinal ring
 ductus deferens
 caudal epigastric a. & v.

Abdominal viscera

greater omentum
 omental bursa
 urinary bladder (p)
 uterus (p) (cervix, body, uterine horns)
 spleen (pr)

gastrosplenic ligament

diaphragm
 tendinous center
 lumbar part(left crus & right crus (r))
 costal part
 sternal part
 cupula (r)
 aortic hiatus
 esophageal hiatus
 caval foramen

liver (r)
 right medial & lateral lobes
 quadrate lobe
 left medial & lateral lobes
 caudate lobe
 caudate process (*with renal impression*)
 papillary process

hepatic ducts

gall bladder
 cystic duct

bile duct

stomach (r)
 cardiac part (r)
 fundus (r)
 body (r)
 pyloric part (r)
 pyloric antrum (r)
 pyloric canal
 pylorus
 greater & lesser curvatures

SMALL INTESTINE (pr)

duodenum
 cranial duodenal flexure
 descending part
 caudal duodenal flexure
 ascending part
 duodenojejunal flexure

jejunum
 mesenteric lymph nodes

ileum
 ileal orifice (ileocolic orifice)

LARGE INTESTINE

cecum (r)
 cecocolic orifice
 colon (r) (ascending, transverse & descending (p))
 right & left colic flexures
 rectum (r)

LABORATORY 17 (pp. 155-163)**Abdominal viscera** (conti.)

pancreas (r) (left lobe, body, & right lobe)
 pancreatic duct

accessory pancreatic duct

major & minor duodenal papillae
 adrenal glands (right & left) (r)
 kidneys (*left*) (pr) / *and right* (r)

 hilus
 renal cortex
 renal medulla
 pyramids
 renal crest
 arcuate branches (of renal vessels)
 renal sinus

ureter
 renal pelvis
 pelvic recesses

ovaries (r)
 proper ligament of the ovary

uterine tube
 infundibulum
 abdominal ostium
 tuberouterine junction

uterus (r) (cervix, body, uterine horns)
 broad ligament of the uterus
 mesovarium
 suspensory ligament of the ovary
 mesosalpinx
 ovarian bursa
 mesometrium
 round ligament of the uterus

Peritoneum

parietal & visceral peritoneum

CONNECTING PERITONEUM:

lesser omentum
 hepatoduodenal ligament
 greater omentum
 omental bursa
 epiploic foramen
 mesoduodenum
 duodenocolic fold
 mesentery (mesojejunoleum)
 root of the mesentery
 mesocolon

(ascending, transverse, descending)

LIGAMENTS OF THE LIVER:

right triangular ligament
left triangular ligament
coronary ligament
 falciform ligament
 umbilical v. remnant (round lig. of the liver)

Abdominal viscera: nerves

- right & left vagus nerves
 - dorsal & ventral branches
 - dorsal & ventral vagal trunks
 - branch to celiacomesenteric plexus (celiac br.)*
- sympathetic trunk
 - major splanchnic n.
 - minor splanchnic n.*
 - lumbar splanchnic nerves*
- celiacomesenteric plexus & ganglia:
 - celiac plexus
 - right & left celiac ganglia
 - cranial mesenteric plexus
 - cranial mesenteric ganglion
 - caudal mesenteric plexus & ganglion
 - right & left hypogastric nerves

LABORATORY 18 (pp. 164-172)

Abdominal aorta: branches

- lumbar arteries
- celiac artery
 - hepatic a.
 - cystic artery*
 - right gastric a.*
 - gastroduodenal a.
 - right gastroepiploic a.
 - cranial pancreaticoduodenal a.
 - left gastric a.
 - esophageal branches*
 - splenic artery
 - left gastroepiploic a. (aa.)*
 - pancreatic branches*
- cranial mesenteric artery
 - common trunk (dog)
 - middle colic a.
 - right colic a.
 - ileocolic artery
 - mesenteric ileal branch*
 - colic branch*
 - cecal artery*
 - antimesenteric ileal branch*
 - caudal pancreaticoduodenal a.
 - jejunal aa.
 - ileal aa.*
 - common trunk (phrenicoabdominal a.)*
 - cranial abdominal artery*
 - caudal phrenic a.*
- renal arteries
- ovarian a. / testicular a. in mesorchium
- caudal mesenteric artery
 - left colic artery
 - cranial rectal artery
- deep circumflex iliac artery
- Portal Vein
 - gastroduodenal vein
 - splenic vein
 - left gastric vein*
 - cranial & caudal mesenteric veins

Pelvic Viscera, Vessels, & Nerves

- pelvic diaphragm:
 - levator ani m.
 - coccygeus m.
- pelvic nerve & pelvic plexus

EXTENSIONS OF PERITONEAL CAVITY:

- pararectal fossa*
- rectogenital pouch*
- vesicogenital pouch*
- pubovesical pouch*

LABORATORY 19 (pp. 173-185)

Pelvic vessels

TERMINAL BRANCHES OF AORTA:

- median sacral artery
- external iliac artery (enters vascular lacuna)
- internal iliac artery
 - umbilical artery
 - internal pudendal artery
 - vaginal a. / prostatic a.
 - uterine a. / a. of ductus deferens
 - caudal vesical artery*
 - middle rectal artery*
 - ventral perineal a.*
 - caudal rectal a.
 - artery of the penis (clitoris)
 - artery of the bulb of the penis
 - deep artery of the penis
 - dorsal artery of the penis

Pelvic viscera

- urinary bladder (r)
 - trigone of the bladder*
 - median ligament of the bladder
 - lateral ligaments of the bladder
- urethral muscle (urethralis m.)
- rectum
- anal canal
 - columnar zone (has anal columns)*
 - anocutaneous line (intermediate zone)*
 - cutaneous zone (p)
 - anal sac (paranal sinus) - opening (p)
 - anus
 - internal anal sphincter m. (smooth)
 - external anal sphincter m. (striated)
- rectococcygeus muscle
- Male genitalia**
 - prostate gland (r)
 - urethra
 - pelvic part
 - prostatic part
 - urethral crest*
 - colliculus seminalis*
 - (post-prostatic part—covered by urethralis m.)*
 - penile part
 - prepuce
 - preputial orifice
 - fornix of the prepuce*

retractor penis muscle
 penis (root, body, & free part) (p)
 corpus cavernosum penis (paired)
 tunica albuginea
 crus (at root of penis)
 ischiocavernosus m. (covers crus)
 corpus spongiosum penis
 bulb of the penis (p)
 bulbospongiosus muscle (covers bulb)
 glans
 pars bulbus glandis
 pars longa glandis
 os penis
 urethral groove
 bulbourethral glands (cat)

Female genitalia

cervix of uterus
 cervical canal
 internal uterine ostium (uterine body opening)
 external uterine ostium (vaginal opening)
 vagina
 fornix
 vestibule
 urethral tubercle
 urethral opening
 vestibular bulbs
 fossa clitoridis (p)
 clitoris
 vulva (p)
 labia
 rima pudendi (vulval cleft)
 dorsal & ventral commissures

LABORATORY 20 (pp. 186-195)

Pelvic limb: arteries

caudal gluteal a. (branch of internal iliac a.)
 cranial gluteal a. [& nerve]
 iliolumbar a.
 external iliac a. (to level of vascular lacuna)
 deep femoral artery
 pudendoepigastric trunk
 caudal epigastric a.
 external pudendal a.
 medial circumflex femoral a.
 deep & transverse branches
 femoral triangle (p)
 femoral a. (begins at level of vascular lacuna) - pulse (p)
 superficial circumflex iliac a.
 lateral circumflex femoral a.
 proximal caudal femoral a.
 saphenous a. (p)
 cranial & caudal branches - pulse (p)
 descending genicular a.
 middle caudal femoral a.
 distal caudal femoral a.
 popliteal a.
 cranial tibial a.

Pelvic limb: superficial veins

medial saphenous v. (feline venipuncture site)
 lateral saphenous v.
 cranial branch (canine venipuncture site)

LABORATORY 21 (pp. 195-204)

Pelvic limb: nerves

Lumbosacral Plexus:
 obturator nerve
 femoral nerve
 saphenous nerve
 pudendal nerve
 caudal rectal nerve
 perineal nerves
 dorsal nerve of the penis
 caudal cutaneous femoral nerve
 lumbosacral trunk
 caudal gluteal nerve
 cranial gluteal nerve
 sciatic nerve
 common peroneal nerve
 lateral cutaneous sural nerve
 superficial peroneal n.
 deep peroneal n.
 dorsal digital nn.
 tibial n.
 caudal cutaneous sural nerve
 plantar digital nn.

Pes: arteries

dorsal pedal artery
 arcuate a.
 dorsal metatarsal aa.
 perforating branch
 plantar digital aa.

INDEPENDENT STUDY (pp. 209-224)

Skull bones

CRANIUM AND CRANIAL CAVITY:

calvaria (r)
 frontal bone (p)
 frontal sinus (r)
 parietal bone
 sagittal crest (some breeds) (p)
 temporal lines
 temporal fossa
 tentorium osseum
 occipital bone
 occipital condyles (r)
 foramen magnum
 paracondylar process
 external occipital protuberance (pr)
 nuchal crest (p)
 hypoglossal canal
 jugular foramen

temporal bone

zygomatic process

zygomatic arch (pr)

petrosal part (r)(contains inner ear)

internal acoustic meatus

tympanic bulla (r)

external acoustic meatus

mastoid process

stylomastoid foramen

basisphenoid bone

alar canal

hypophysal fossa

round foramen

oval foramen

presphenoid bone

ethmoid bone

cribriform plate (r)

FACE:

incisive bone (p)

nasal bone (p)

nasal cavity:

nasal aperture

nasal septum (vomer: osseous nasal septum (r))

nasal conchae (turbinates) (r) (dorsal & ventral)

ethmoidal (conchae) labyrinth

nasal meati (dorsal, middle, ventral, common)

orbit

orbital margin

orbital ligament

orbital fissure

optic canal

fossa for the lacrimal sac

pterygopalatine fossa

foramina (caudal palatine; sphenopalatine; maxillary)

maxilla (maxillary bone) (p)

maxillary recess (sinus)

infraorbital canal (foramen (p))

maxillary foramen

hard palate (r)

palatine fissures (r)

major & minor palatine foramina

mandible (pr)

body (pr)

ramus (r)

coronoid process (pr)

mandibular foramen & canal

mental foramina (p)

mandibular symphysis

condylar process (r)

temporomandibular joint (pr)

angular process (pr)

hyoid apparatus (stylohyoid, epihyoid, ceratohyoid, basihyoid, and thyrohyoid) (r)

teeth – crown; neck; shearing type (p)

incisor, canine, premolar (PM4: carnassial tooth in maxilla), molar (M1: carnassial tooth in mandible) (r)

alveolus

as per radiology “To Know” list - be able to Identify: enamel, pulp canal, periodontal ligament, lamina dental, etc

LABORATORY 22 (pp. 225-235)

Head: superficial structures

philtrum (p)

platysma m.

orbicularis oris m.

buccinator m.

levator nasolabialis m.

superior & inferior palpebrae

palpebral fissure

medial & lateral palpebral commissures (p)

orbicularis oculi m.

retractor anguli oculi m.

levator palpebrae superioris m.

conjunctival sac

palpebral conjunctiva (p)

bulbar conjunctiva (p)

fornix

lacrimal caruncle

lacrimal puncta (dorsal & ventral) (p)

lacrimal duct

lacrimal sac

nasolacrimal duct

plica semilunaris (third eyelid) (margin (p))

superficial gland of the third eyelid (difficult to see)

rostral auricular muscles

scutiform cartilage

caudal auricular muscles

Oral cavity, tongue & salivary glands

LIPS (p)

vestibule (p)

parotid & zygomatic duct openings

oral cavity proper

tongue (p) (root, body, apex)

papillae (filiform, conical,

fungiform, foliate & vallate)

lingual frenulum (p)

lingual vein (p)

lyssa

sublingual caruncle (p)

sublingual fold

mandibular salivary duct

major sublingual salivary duct

mandibular salivary gland (p)

sublingual salivary gland (monostomatic gland)

parotid salivary gland

parotid duct (opening (p))

buccal salivary gland (cat only)

palate (pr)

incisive papilla & duct

vomer nasal organ (difficult to see)

Pharynx

oropharynx (r)
 palatoglossal arch (p)
 palatine tonsil (p)
 semilunar fold
nasopharynx (r)
 palatopharyngeal arch
 auditory tube
laryngopharynx
 pharyngoesophageal limen (border)

Pharyngeal mm.

cricopharyngeus m.
thyropharyngeus m.
hyopharyngeus m.

LABORATORY 23 (pp. 235-241)

Larynx (pr)

epiglottic cartilage (epiglottis) (pr)
 aryepiglottic fold
thyroid cartilage (p)
 rostral cornu & caudal cornu
 caudal thyroid incisure
cricoid cartilage (p)
 cricothyroid ligament
arytenoid cartilage
 vocal process
 muscular, corniculate & cuneiform processes
vestibular fold
laryngeal ventricle (absent in cat)
glottis
 vocal fold (cat: vocal ridge)
 vocal ligament
 vocalis muscle
 vocal processes of arytenoid cartilages
 rima glottidis (glottis cleft)

Larynx: intrinsic mm.

cricothyroid m.
cricoarytenoideus dorsalis m.
cricoarytenoideus lateralis m.
thyroarytenoideus m.
vocalis m.

Ear: external

auricle (pinna)
 auricular cartilage
 marginal cutaneous sac
 helix, tragus, incisures, etc
external ear canal (r)
annular cartilage

Mastication mm.

temporalis m. (temporal m.) (p)
masseter m. (p)
medial & lateral pterygoid mm.
digastricus m.

zygomatic salivary gland

Lingual mm.

styloglossus m.
hyoglossus m.
genioglossus m.
Hyoid mm.
sternohyoideus m.
thyrohyoideus m.
mylohyoideus m.
geniohyoideus m.

LABORATORY 24 (pp. 241-246)

Eye etc.

orbit
 periorbita
lacrimal gland
superficial gland of the third eyelid

MUSCLES:

levator palpebrae superioris m.
rectus muscles (dorsal, ventral, medial, & lateral)
retractor bulbi m.
ventral oblique m.
dorsal oblique m.
trochlea

EYEBALL:

bulbus oculi (eyeball)

EXTERNAL FIBROUS COAT

cornea (p)
sclera (p)
 limbus (corneoscleral junction)

MIDDLE VASCULAR COAT (UVEA)

iris (p)
 pupil (p)
choroid
 tapetum lucidum
ciliary body
 ciliary processes
 zonule (zonular fibers)
lens
 anterior (p) & posterior chambers
 aqueous humor
 vitreous chamber
 vitreous body

INTERNAL COAT (RETINA)

ora serrata
optic disc
fundus

Head: superficial veins

external jugular vein
linguofacial vein
 lingual vein
 facial vein
 dorsal nasal v.
 angularis oculi v.
maxillary vein

Head: nerves

facial nerve (cranial nerve VII)

caudal auricular branches

ventral buccal n.

dorsal buccal n.

auriculopalpebral nerve

rostral auricular branches

palpebral branches

mandibular n. (branch of trigeminal nerve (V))

auriculotemporal nerve

buccal n.

lingual n.

inferior alveolar n.

mylohyoid n.

maxillary n. (branch of trigeminal nerve (V))

infraorbital n. – p. 259

vagus nerve (cranial nerve X) – p. 260

cranial laryngeal n.

caudal (recurrent) laryngeal n.

cervical sympathetic trunk

cranial cervical ganglion – p. 259

hypoglossal nerve (cranial nerve XII) – p. 260

Cervical structures

thyroid gland (p)

external & internal parathyroid glands

esophagus (t)

pharyngoesophageal limen

trachea (pr)

tracheal cartilages

medial retropharyngeal lymph node (p)

Head: arteries

common carotid artery (pulse (p))

caudal & cranial thyroid arteries

internal carotid artery (cat: partially absent)

carotid sinus

external carotid artery

occipital artery

cranial laryngeal artery

lingual artery

facial a.

sublingual a.

caudal auricular a.

superficial temporal a.

maxillary a.

inferior alveolar a.

caudal deep temporal a.

middle meningeal a.

external ophthalmic a.

palatine aa.

infraorbital a.

INDEPENDENT STUDY (pp. 256-260)

READ - NEED NOT DISSECT!!

Cranial Nerves:

I. Olfactory n.

II. Optic n.

III. Oculomotor n.

ciliary ganglion

IV. Trochlear n.

V. Trigeminal n.

ophthalmic n.

frontal, infratrochlear, ciliary, & ethmoidal nn.

maxillary n.

zygomatic n.

infraorbital n.

superior alveolar branches

mandibular n.

VI. Abducent n.

VII. Facial n.

pterygopalatine ganglion & nerve

VIII. Vestibulocochlear n.

IX. Glossopharyngeal n.

pharyngeal plexus

X. Vagus n.

proximal & distal (sensory) ganglia

cranial laryngeal n.

caudal laryngeal n. (recurrent laryngeal n.)

XI. Accessory n.

XII. Hypoglossal n.