Anatomical schemes

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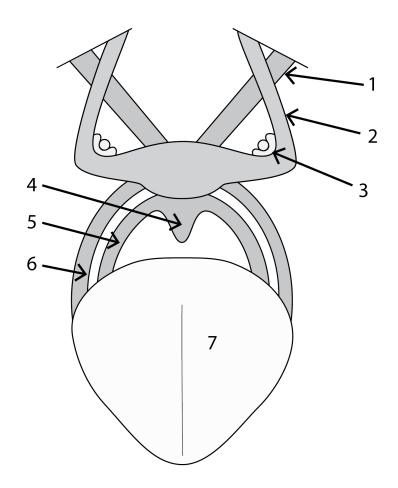


Fig. 1 Muscles of the soft palate

- 1. Levator veli palatini
- 2. Tensor veli palatini
- 3. Pterygoid hamulus
- 4. Musculus uvulae
- 5. Palatopharyngeus
- 6. Palatoglossus
- 7. Tongue

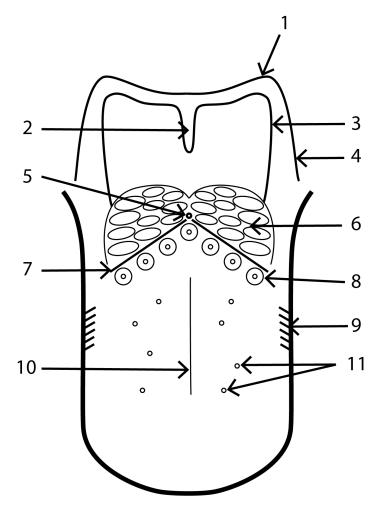


Fig. 2 Dorsum of the tongue

- 1. Soft palate
- 2. Uvula
- 3. Palatopharyngeal arch
- 4. Palatoglossal arch
- 5. Foramen caecum
- 6. Lingual tonsil
- 7. Terminal sulcus
- 8. Valate papillae
- 9. Foliate papillae
- 10. Midline groove of tongue
- 11. Fungiform papillae

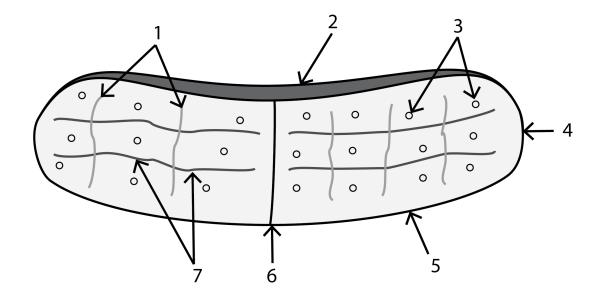


Fig. 3 Tongue – intrinsic muscles (cross section)

- 1. Vertical muscle
- 2. Dorsum of tongue
- 3. Longitudinal muscle
- 4. Margin of tongue
- 5. Inferior surface of tongue
- 6. Lingual septum
- 7. Transverse muscle

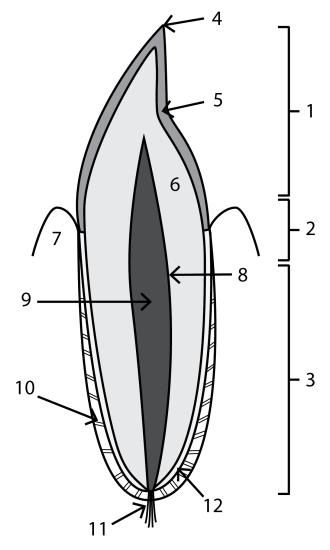


Fig. 4 General structure of the tooth (longitudinal section)

- 1. Crown
- 2. Neck
- 3. Root
- 4. Cusp
- 5. Enamel
- 6. Dentine
- 7. Gingiva
- 8. Pulp cavity
- 9. Dental pulp
- 10. Periodontium
- 11. Root apex with vessels and nerves
- 12. Cement

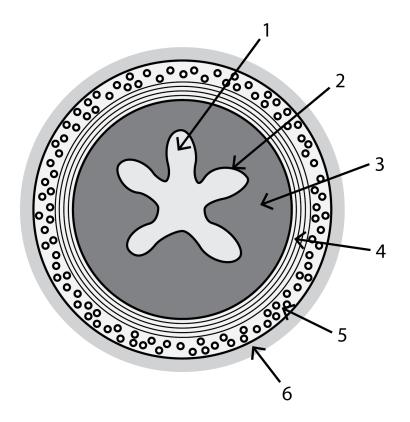


Fig. 5 Oesophagus (cross section)

- 1. Lumen
- 2. Epithelium
- 3. Mucosa and submucosa
- 4. Circular layer of musculature
- 5. Longitudinal layer of musculature
- 6. Adventitia/serosa

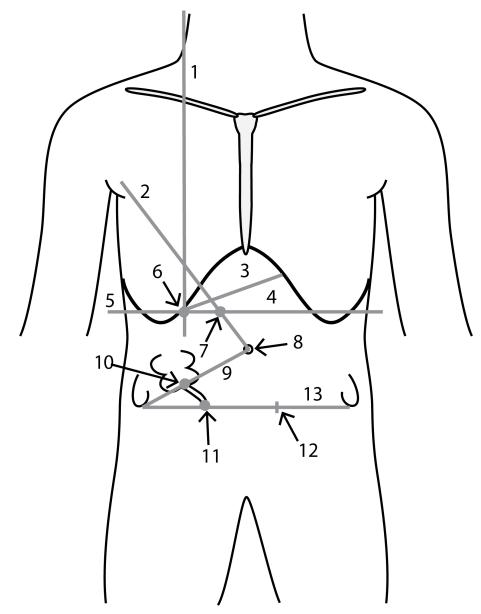


Fig. 6 Projection of organs onto the anterior abdominal wall

- 1. Midclavicular line
- 2. Umbilicoaxillary line
- 3. Projection of the liver
- 4. Triangle of Labbeé projection of the stomach
- 5. Transpyloric line
- 6. Murphy's point projection of the fundus of gallbladder
- 7. Desjardin's point projection of the Vater's papilla
- 8. Umbilicus
- 9. Spinoumbilical line (Monro)
- 10. MacBurney's point projection of the origin of appendix
- 11. Right Lanz' point projection of the appendix in pelvic position + middle constriction of the right ureter
- 12. Left Lanz' point projection of the middle constriction of the left ureter
- 13. Interspinous line

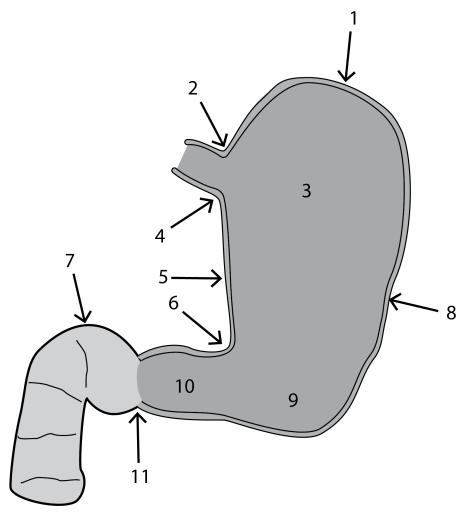


Fig. 7 Stomach

- 1. Fundus
- 2. Cardial notch
- 3. Gastric canal (body)
- 4. Cardia
- 5. Lesser curvature
- 6. Angular incisure
- 7. Duodenal bulb
- 8. Greater curvature
- 9. Pyloric antrum
- 10. Pyloric canal
- 11. Pylorus

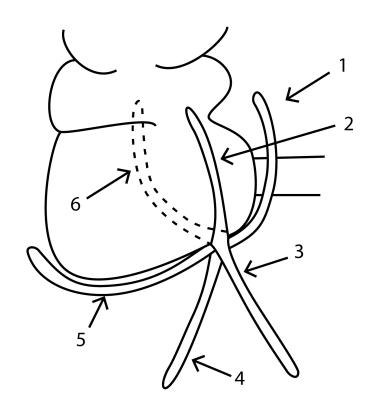
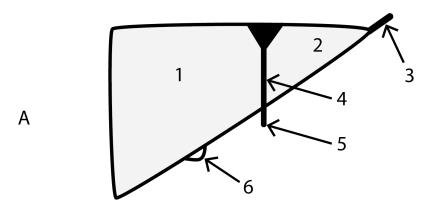


Fig. 8 Positions of the appendix

- 1. Ileocaecal position
- 2. Precaecal position
- 3. Pelvic position
- 4. Subcaecal position
- 5. Laterocaecal position
- 6. Retrocaecal position



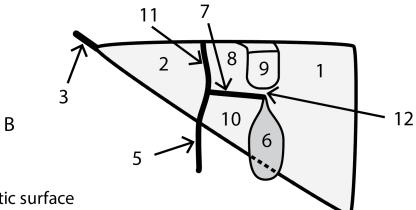


Fig. 9 Liver

A – Diaphragmatic surface

- B Visceral surface
- 1. Right lobe
- 2. Left lobe
- 3. Fibrous appendix of liver
- 4. Falciform ligament
- 5. Round ligament of liver
- 6. Gallbladder
- 7. Porta hepatis
- 8. Caudate lobe
- 9. Groove for vena cava
- 10. Quadrate lobe
- 11. Ligamentum venosum
- 12. Caudate process

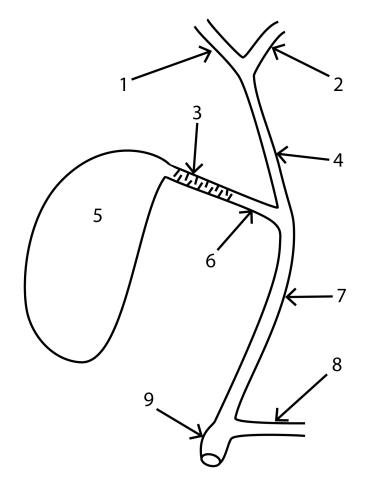


Fig. 10 Extrahepatic bile ducts with the gallbladder

- 1. Right hepatic duct
- 2. Left hepatic duct
- 3. Spiral fold
- 4. Common hepatic duct
- 5. Gallbladder
- 6. Cystic duct
- 7. Bile duct
- 8. Pancreatic duct
- 9. Hepatopancreatic ampulla

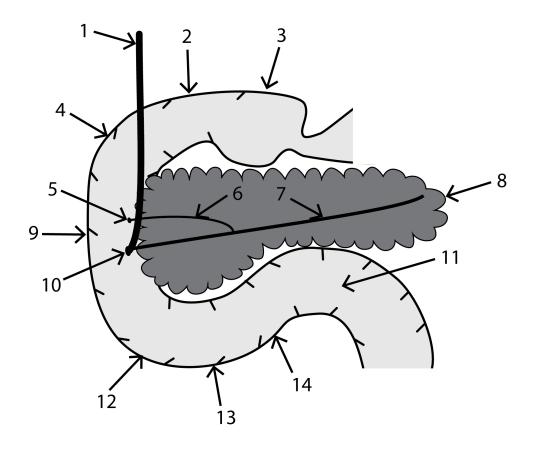


Fig. 11 Duodenum and pancreas

- 1. Bile duct
- 2. Superior part of duodenum
- 3. Duodenal bulb
- 4. Superior duodenal flexure
- 5. Minor duodenal papilla
- 6. Accessory pancreatic duct
- 7. Pancreatic duct
- 8. Pancreas
- 9. Descending part of duodenum
- 10. Major duodenal papilla (Vater)
- 11. Duodenojejunal flexure
- 12. Inferior duodenal flexure
- 13. Horizontal part of duodenum
- 14. Ascending part of duodenum

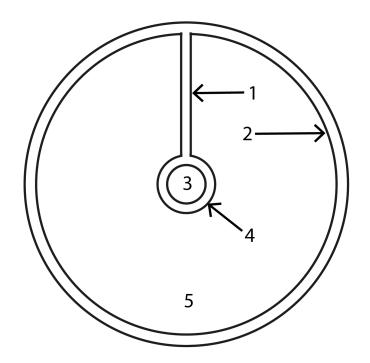


Fig. 12 Peritoneum

- 1. Mesentery
- 2. Parietal peritoneum
- 3. Digestive tube
- 4. Visceral peritoneum
- 5. Peritoneal cavity

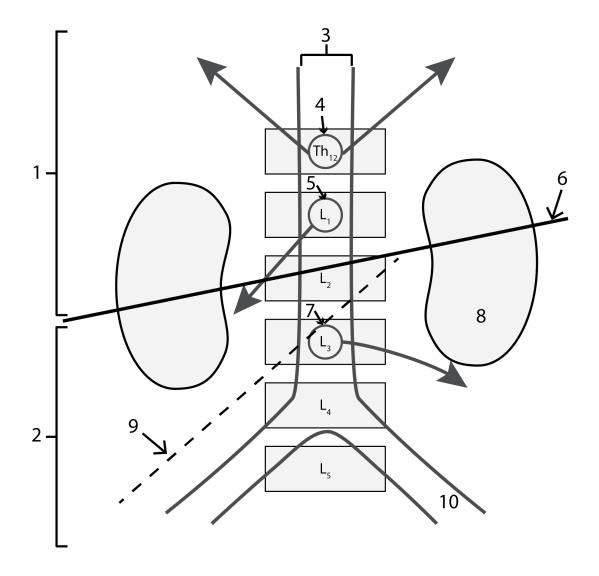


Fig. 13 Peritoneal cavity – blood supply

- 1. Supramesocolic part
- 2. Inframesocolic part
- 3. Aorta
- 4. Coeliac trunk
- 5. Superior mesenteric artery
- 6. Transverse mesocolon
- 7. Inferior mesenteric artery
- 8. Left kidney
- 9. Root of mesentery
- 10. Left common iliac artery

Big arrows indicate areas of blood supply

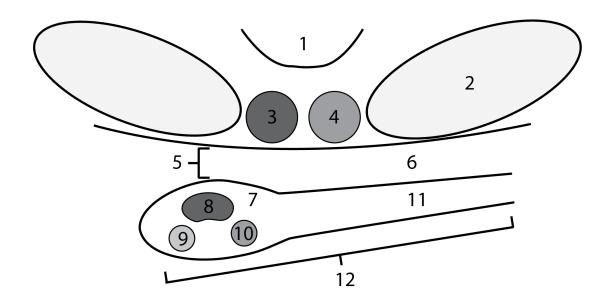


Fig. 14 Hepatoduodenal ligament (upper view)

- 1. Vertebral column
- 2. Left kidney
- 3. Inferior vena cava
- 4. Aorta
- 5. Omental opening
- 6. Omental bursa
- 7. Hepatoduodenal ligament
- 8. Hepatic portal vein
- 9. Ductus choledochus
- 10. Hepatic artery proper
- 11. Hepatogastric ligament
- 12. Lesser omentum

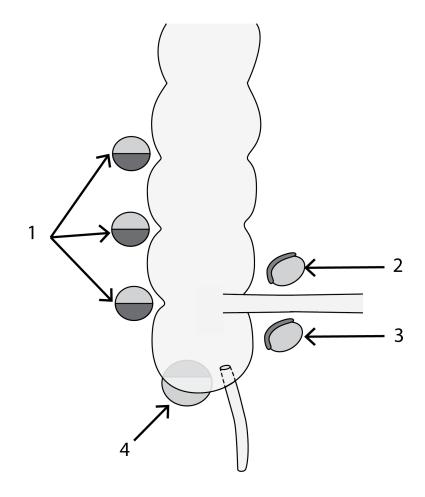


Fig. 15 Peritoneal recesses around caecum

- 1. Paracolic recesses
- 2. Superior ileocaecal recess
- 3. Inferior ileocaecal recess
- 4. Retrocaecal recess

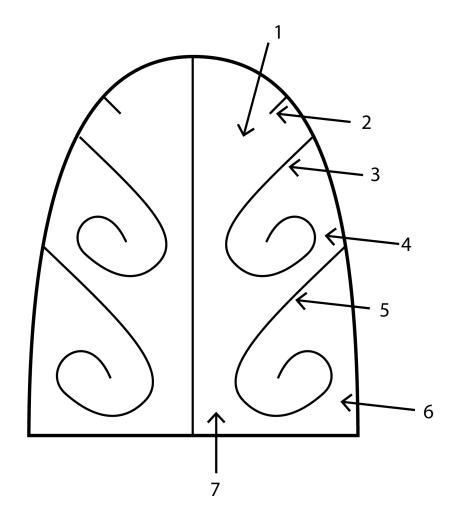


Fig. 16 Nasal cavity (coronal section)

- 1. Superior nasal meatus
- 2. Superior nasal concha
- 3. Middle nasal concha
- 4. Middle nasal meatus
- 5. Inferior nasal concha
- 6. Inferior nasal meatus
- 7. Common nasal meatus

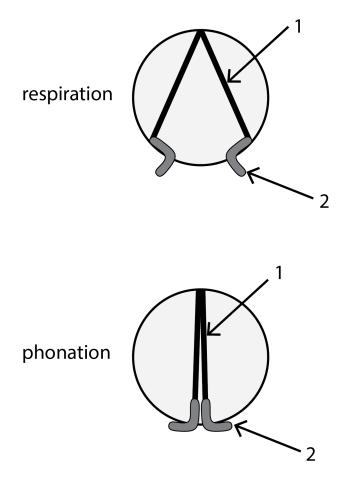
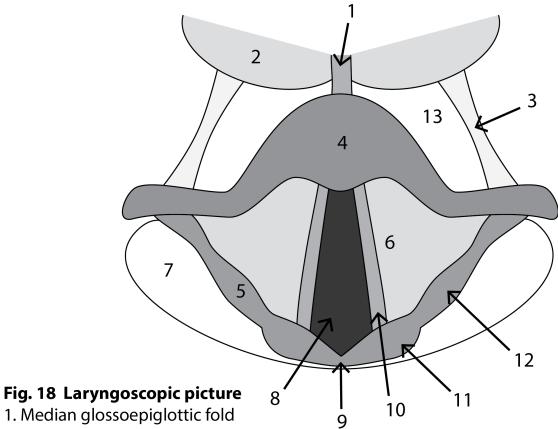


Fig. 17 Rima glottidis during respiration and fonation

- 1. Vocal fold
- 2. Arytenoid cartilage



- 1. Median glossoepiglottic fold
- 2. Posterior part of tongue
- 3. Lateral glossoepiglottic fold
- 4. Epiglottis
- 5. Aryepiglottic fold
- 6. Vestibular fold
- 7. Piriform recess
- 8. Rima glottidis
- 9. Interarytenoid notch
- 10. Vocal fold
- 11. Corniculate tubercle
- 12. Cuneiform tubercle
- 13. Epiglottic vallecula

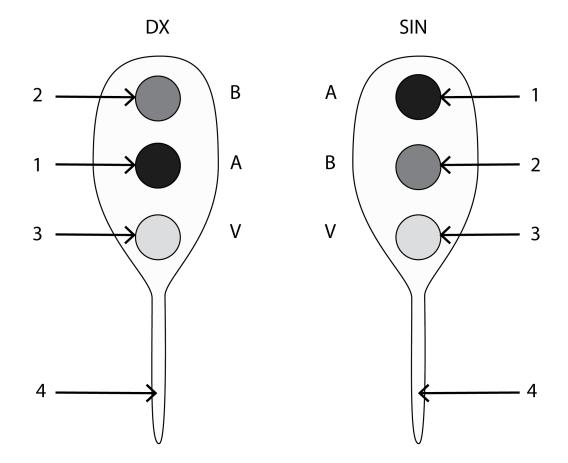


Fig. 19 Right and left pulmonary root

- 1. Pulmonary artery
- 2. Principal bronchus
- 3. Pulmonary veins
- 4. Pulmonary ligament

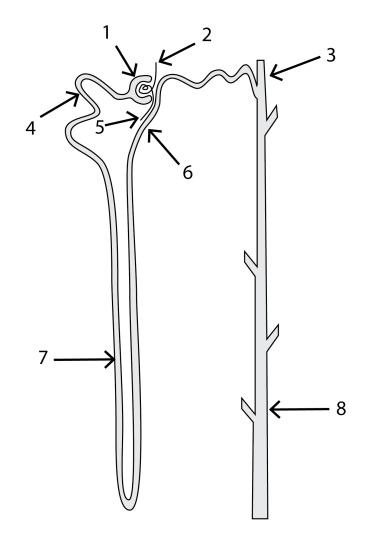


Fig. 20 Nephron

- 1. Bowman's capsule
- 2. Afferent glomerular arteriole
- 3. Collecting tubule
- 4. Proximal tubule
- 5. Efferent glomerular arteriole
- 6. Distal tubule
- 7. Henle's loop
- 8. Papillary duct

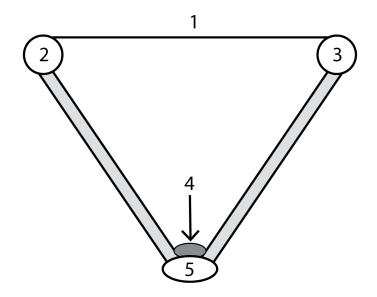


Fig. 21 Trigone of urinary bladder

- 1. Interureteric crest
- 2. Right ureteric orifice
- 3. Left ureteric orifice
- 4. Uvula of bladder
- 5. Internal urethral orifice

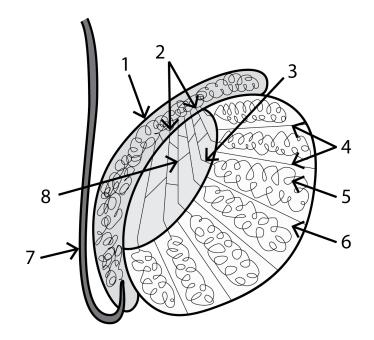


Fig. 22 Testis (sagittal section)

- 1. Epididymis
- 2. Efferent ductules
- 3. Straight tubule
- 4. Septa testis
- 5. Seminiferous tubule
- 6. Lobule of testis
- 7. Ductus deferens
- 8. Rete testis

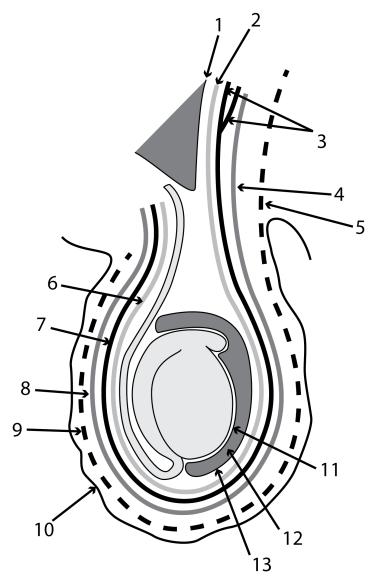


Fig. 23 Coverings of the testis and epididymis

- 1. Parietal peritoneum
- 2. Transversalis fascia
- 3. Transversus and internal oblique abdominal muscles
- 4. Fascia of external oblique muscle
- 5. Investing fascia of abdomen
- 6. Internal spermatic fascia
- 7. Cremasteric fascia with cremaster muscle
- 8. External spermatic fascia
- 9. Dartos fascia
- 10. Skin
- 11. Visceral layer of tunica vaginalis
- 12. Cavum serosum scroti
- 13. Parietal layer of tunica vaginalis

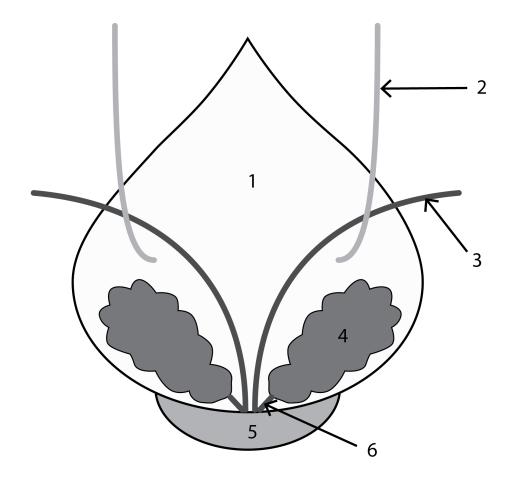


Fig. 24 Ductus deferentes and seminal glands (posterior view)

- 1. Urinary bladder
- 2. Ureter
- 3. Ductus deferens
- 4. Seminal vesicle
- 5. Prostate
- 6. Excretory duct

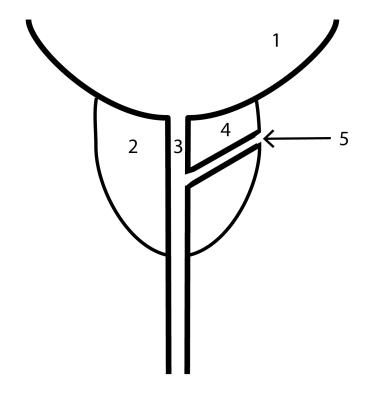


Fig. 25 Prostate (sagittal section)

- 1. Urinary bladder
- 2. Prostate
- 3. Urethra
- 4. Middle lobe
- 5. Ejaculatory duct

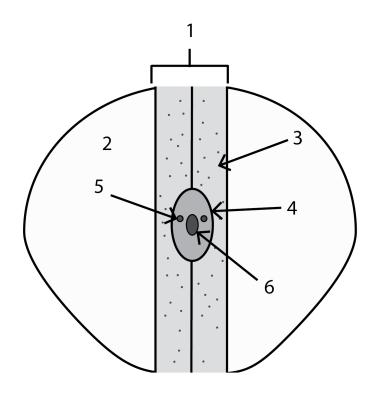
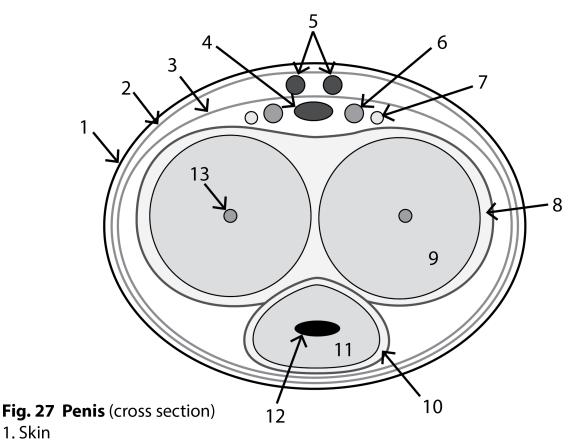


Fig. 26 Prostatic urethra

- 1. Prostatic urethra
- 2. Prostate
- 3. Prostatic sinus
- 4. Seminal colliculus
- 5. Opening of the ejaculatory duct
- 6. Prostatic utricle



- 1. Skin
- 2. Superficial fascia of penis
- 3. Deep fascia of penis
- 4. Deep dorsal vein of penis
- 5. Superficial dorsal veins of penis
- 6. Dorsal artery of penis
- 7. Dorsal nerve of penis
- 8. Tunica albuginea of corpora cavernosa
- 9. Corpus cavernosum
- 10. Tunica albuginea of corpus spongiosum
- 11. Corpus spongiosum penis
- 12. Spongy urethra
- 13. Deep artery of penis

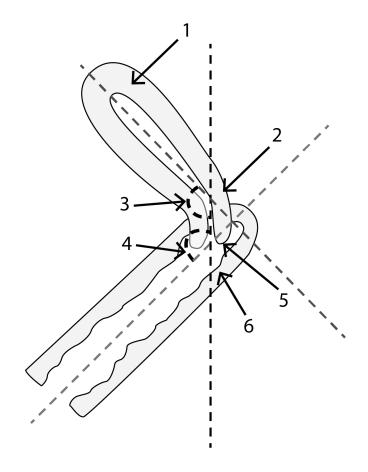
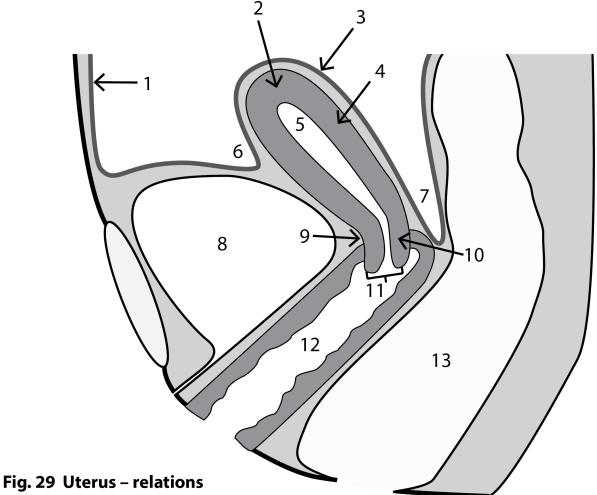


Fig. 28 Uterus – anteversion, anteflexion

- 1. Body of uterus
- 2. Isthmus of uterus
- 3. Anteflexion
- 4. Anteversion
- 5. Cervix of uterus
- 6. Vagina
- --- Long axis



- 1. Parietal peritoneum
- 2. Fundus of uterus
- 3. Perimetrium
- 4. Corpus of uterus
- 5. Uterine cavity
- 6. Vesico-uterine pouch
- 7. Recto-uterine pouch (Douglas)
- 8. Urinary bladder
- 9. Isthmus of uterus
- 10. Cervix of uterus
- 11. Vaginal part of the cervix
- 12. Vagina
- 13. Rectum

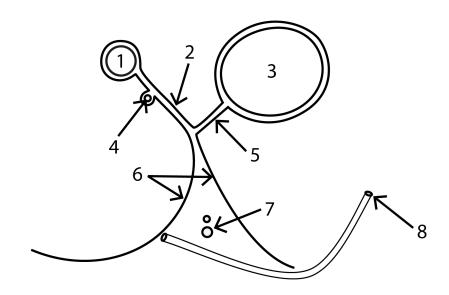


Fig. 30 Broad ligament of uterus (sagittal section)

- 1. Uterine tube
- 2. Mesosalpinx
- 3. Ovary
- 4. Round ligament of uterus
- 5. Mesovarium
- 6. Broad ligament of uterus
- 7. Uterine vessels
- 8. Ureter

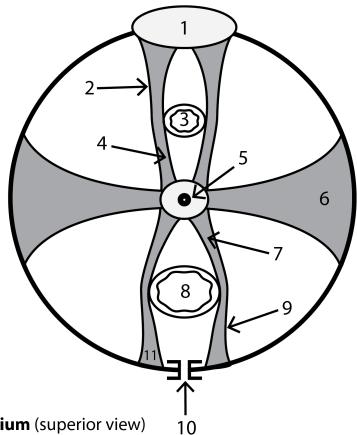


Fig. 31 Parametrium (superior view)

- 1. Sacrum
- 2. Sacrouterine ligament
- 3. Rectum
- 4. Rectouterine ligament
- 5. Cervix of uterus
- 6. Cardinal ligament
- 7. Vesicouterine ligament
- 8. Urinary bladder
- 9. Pubovesical ligament
- 10. Pubic symphysis
- 11. Pubocervical ligament

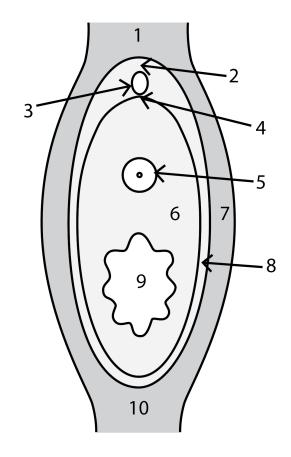


Fig. 32 Female external genital organs (vulva)

- 1. Anterior commissure
- 2. Prepuce of clitoris
- 3. Clitoris
- 4. Frenulum of clitoris
- 5. External urethral orifice
- 6. Vestibule
- 7. Labium majus
- 8. Labium minus
- 9. Vaginal orifice
- 10. Posterior commissure

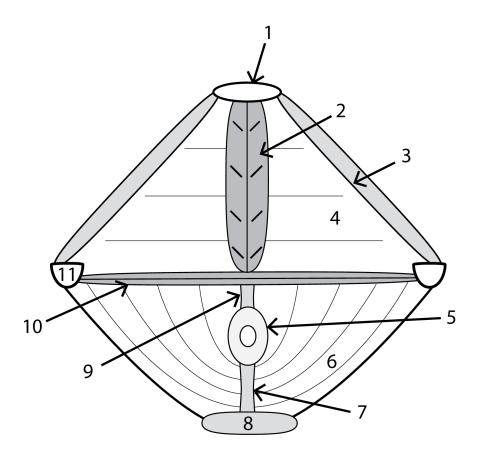


Fig. 33 Male perineum (inferior view)

- 1. Pubic symphysis
- 2. Bulbospongiosus
- 3. Ischiocavernosus
- 4. Perineal membrane
- 5. External anal sphincter
- 6. Levator ani
- 7. Anococcygeal ligament
- 8. Sacrum and coccyx
- 9. Perineal body
- 10. Superficial transverse perineal muscle
- 11. Ischial tuberosity

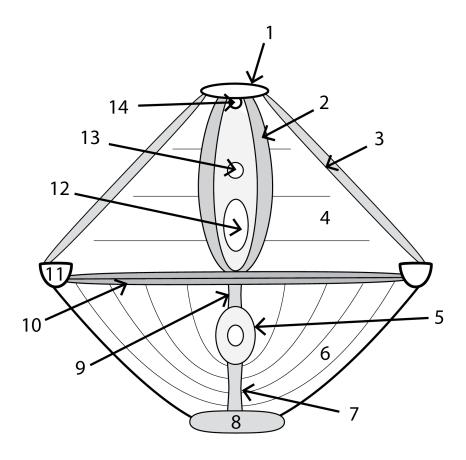


Fig. 34 Female perineum (inferior view)

- 1. Pubic symphysis
- 2. Bulbospongiosus
- 3. Ischiocavernosus
- 4. Perineal membrane
- 5. External anal sphincter
- 6. Levator ani
- 7. Anococcygeal ligament
- 8. Sacrum and coccyx
- 9. Perineal body
- 10. Superficial transverse perineal muscle
- 11. Ischial tuberosity
- 12. Vaginal orifice
- 13. External urethral orifice
- 14. Glans of clitoris

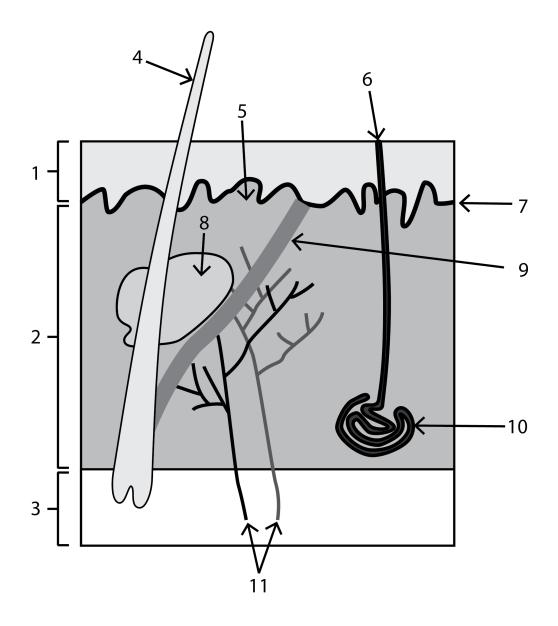


Fig. 35 Structure of the skin

- 1. Epidermis
- 2. Dermis
- 3. Subcutaneous tissue
- 4. Hair
- 5. Dermal papilla
- 6. Opening of sweat duct
- 7. Dermo-epidermal junction
- 8. Sebaceous gland
- 9. Arrector muscle of hair
- 10. Sweat gland
- 11. Vessels

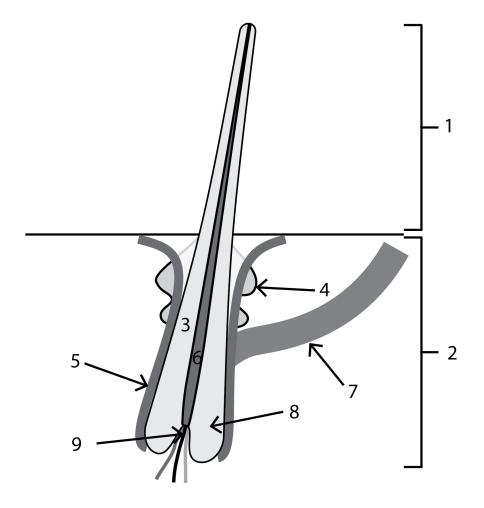


Fig. 36 Structure of the hair

- 1. Shaft of hair
- 2. Root of hair
- 3. Cortex of hair
- 4. Sebaceous gland
- 5. Hair follicle
- 6. Medulla of hair
- 7. Arrector muscle of hair
- 8. Hair bulb
- 9. Hair papilla

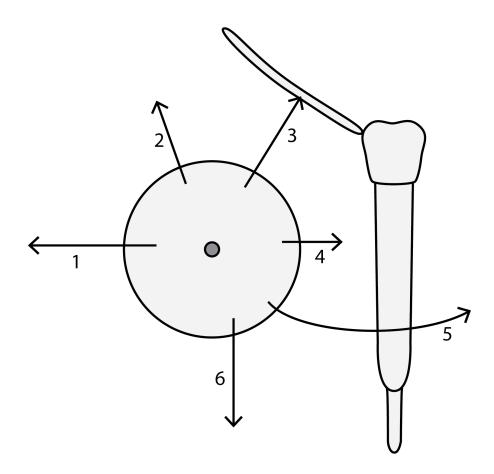


Fig. 37 Lymphatic drainage of the breast

- 1. To axillary lymph nodes
- 2. To infraclavicular nodes
- 3. To supraclavicular nodes
- 4. To parasternal nodes
- 5. Connections to the lymphatic system of the contralateral breast
- 6. Epigastric pathway

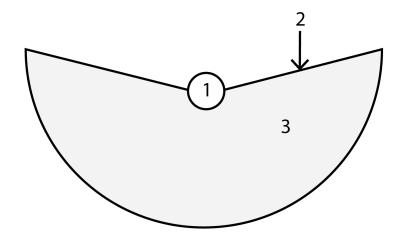
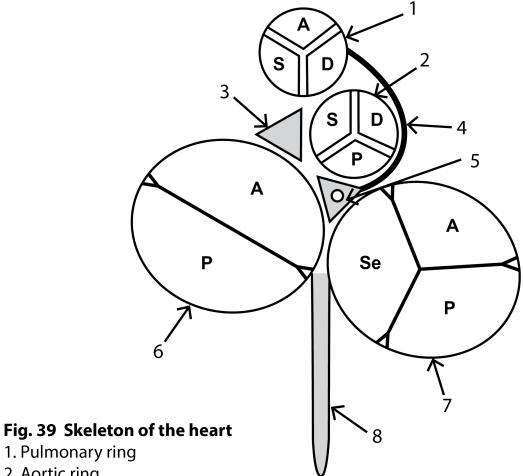


Fig. 38 Shape of the semilunar cusp 1. Nodule

- 2. Lunule
- 3. Semilunar cusp



- 1. Pulmonary ring
- 2. Aortic ring
- 3. Left fibrous trigone
- 4. Tendon of infundibulum
- 5. Right fibrous trigone
- 6. Left fibrous ring
- 7. Right fibrous ring
- 8. Membranous part of interventricular septum
- A anterior cusp
- P posterior cusp
- D right cusp
- S left cusp
- Se septal cusp

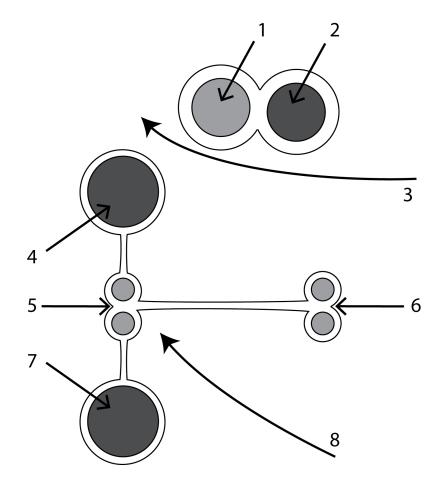


Fig. 40 Serous pericardium – perivascular reflexions

(porta arteriarum et venarum)

- 1. Aorta
- 2. Pulmonary trunk
- 3. Transverse sinus
- 4. Superior vena cava
- 5. Right pulmonary veins
- 6. Left pulmonary veins
- 7. Inferior vena cava
- 8. Oblique sinus

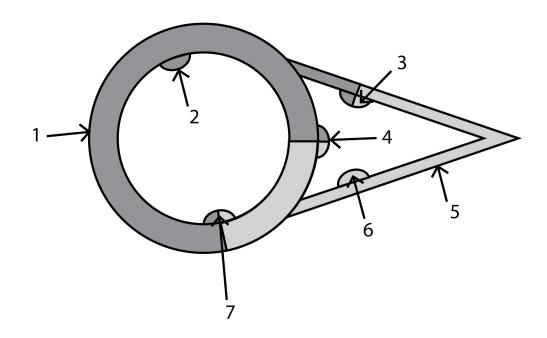


Fig. 41 Ventricles of the heart – blood supply (cross section)

- 1. Left ventricle
- 2. Anterior papillary muscle of left ventricle
- 3. Anterior papillary muscle of right ventricle
- 4. Septal papillary muscles of right ventricle
- 5. Right ventricle
- 6. Posterior papillary muscle of right ventricle
- 7. Posterior papillary muscle of left ventricle (dark areas supplied from the left coronary artery, light areas supplied from the right coronary artery)

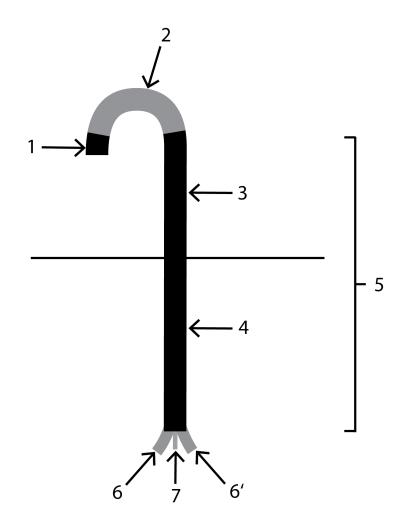
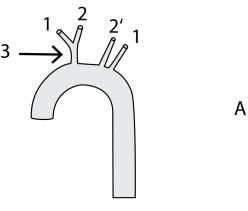
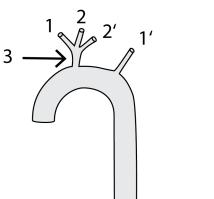


Fig 42 Aortic segments

- 1. Ascending aorta
- 2. Aortic arch
- 3. Thoracic aorta
- 4. Abdominal aorta
- 5. Descending aorta
- 6. Right common iliac artery
- 6'. Left common iliac artery
- 7. Median sacral artery





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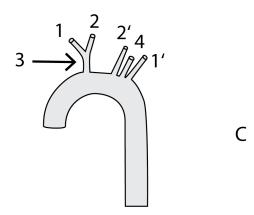
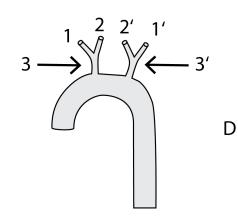


Fig. 43 Variability of the aortic arch

- A the most common case
- B D variations
- 1. Right subclavian artery
- 1'. Left subclavian artery
- 2. Right common carotid artery
- 2'. Left common carotid artery
- 3. Brachiocephalic trunk
- 3'. Left brachiocephalic trunk
- 4. Left vertebral artery



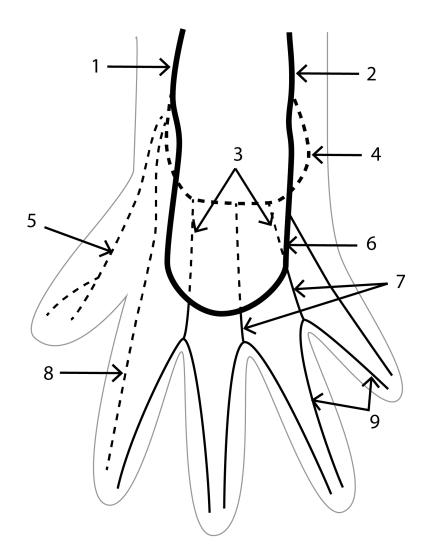


Fig. 44 Superficial and deep palmar arches

- 1. Radial artery
- 2. Ulnar artery
- 3. Palmar metacarpal arteries
- 4. Deep palmar arch
- 5. Princeps pollicis artery
- 6. Superficial palmar arch
- 7. Common palmar digital arteries
- 8. Radialis indicis artery
- 9. Proper palmar digital arteries

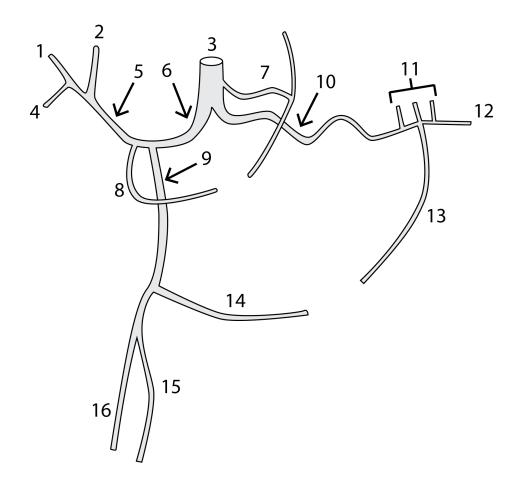


Fig. 45 Coeliac trunk

- 1. Right branch of hepatic artery proper
- 2. Left branch of hepatic artery proper
- 3. Coeliac trunk
- 4. Cystic artery
- 5. Hepatic artery proper
- 6. Common hepatic artery
- 7. Left gastric artery
- 8. Right gastric artery
- 9. Gastroduodenal artery
- 10. Splenic artery
- 11. Short gastric arteries
- 12. Splenic branches
- 13. Left gastro-omental artery
- 14. Right gastro-omental artery
- 15. Posterior superior pancreaticoduodenal artery
- 16. Anterior superior pancreaticoduodenal artery

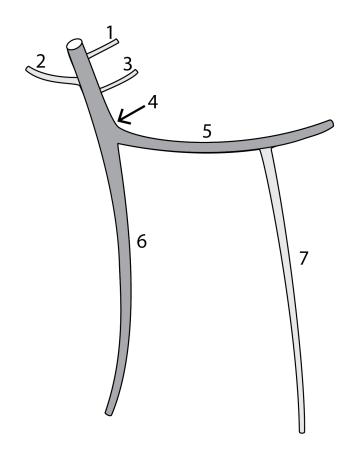


Fig. 46 Portal vein

- 1. Right gastric vein
- 2. Cystic vein
- 3. Left gastric vein
- 4. Portal vein
- 5. Splenic vein
- 6. Superior mesenteric vein
- 7. Inferior mesenteric vein

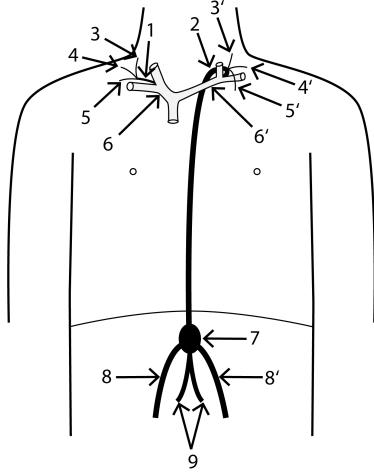


Fig. 47 Main lymphatic trunks

- 1. Right lymphatic trunk
- 2. Thoracic duct
- 3. Right jugular trunk
- 3'. Left jugular trunk
- 4. Right subclavian trunk
- 4'. Left subclavian trunk
- 5. Right bronchomediastinal trunk
- 5'. Left bronchomediastinal trunk
- 6. Right brachiocephalic vein
- 6'. Left brachiocephalic vein
- 7. Cisterna chyli
- 8. Right lumbar trunk
- 8'. Left lumbar trunk
- 9. Intestinal trunks

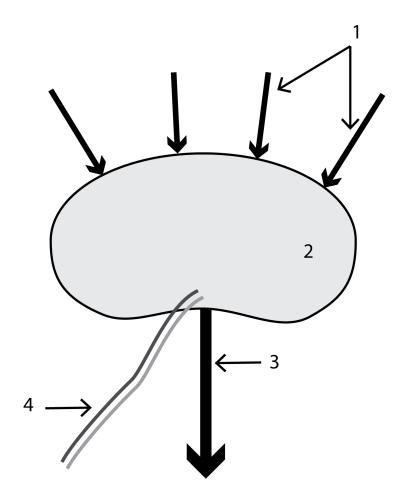


Fig. 48 Lymph node

- 1. Afferent vessels
- 2. Lymph node
- 3. Efferent vessel
- 4. Blood vessels

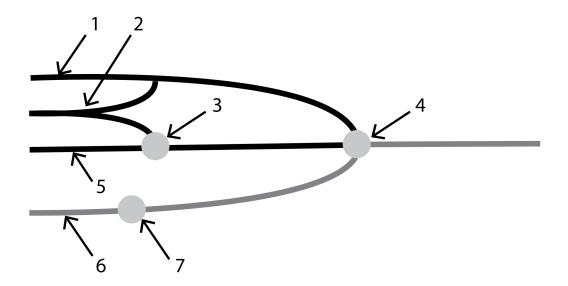


Fig. 49 Lymphatic drainage of the upper limb

- 1. Lateral superficial vessels
- 2. Anterior superficial vessels
- 3. Superficial cubital nodes
- 4. Axillary lymph nodes
- 5. Medial superficial vessels
- 6. Deep lymphatic vessels
- 7. Deep cubital nodes

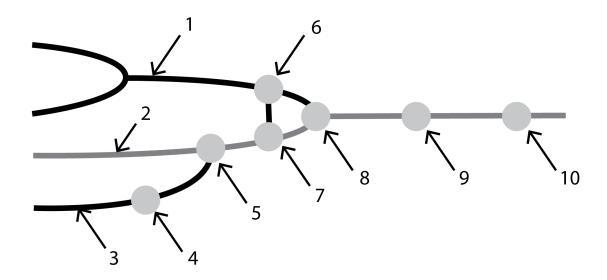


Fig. 50 Lymphatic drainage of the lower limb

- 1. Medial superficial vessels
- 2. Deep lymphatic vessels
- 3. Lateral superficial vessels
- 4. Superficial popliteal nodes
- 5. Deep popliteal nodes
- 6. Superficial inguinal nodes
- 7. Deep inguinal nodes
- 8. External iliac nodes
- 9. Common iliac nodes
- 10. Lumbar nodes

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Centrum interaktivních a multimediálních studijních opor pro inovaci výuky a efektivní učení











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