Anatomy of the Dog, 5th Edition

Description: A revised edition of this superbly illustrated atlas with a new section on computed tomography. Illustrations include colour line diagrams, radiographs, ultrasound and CT scans providing the reader with detailed information on the structure and function of all the body systems and their interaction in the living animal.

Already acknowledged by students and teachers as an essential resource for learning and revision, this new edition is also a valuable reference for practitioners.

Key features:

- Fully illustrated with colour line diagrams, including unique three-dimensional cross-sectional anatomy, together with radiographs and ultrasound scans
- Includes topographical and surface anatomy
- Tabular appendices of relational and functional anatomy

Reviews:

“A region with which I was very familiar from a surgical standpoint thus became more comprehensible. [...] Showing the clinical relevance of anatomy in such a way is a powerful tool for stimulating students’ interest. [...] In addition to putting anatomical structures into clinical perspective, the text provides a brief but effective guide to dissection.”
The Veterinary Record

“The present book-atlas offers the students clear illustrative material and at the same time an abbreviated textbook for anatomical study and for clinical coordinated study of applied anatomy. Therefore, it provides students with an excellent working knowledge and understanding of the anatomy of the dog. Beyond this the illustrated text will help in reviewing and in the preparation for examinations. For the practising veterinarians, the book-atlas remains a current quick source of reference for anatomical information on the dog at the preclinical, diagnostic, clinical and surgical levels.”
Acta Veterinaria Hungarica

Contents:

References
Introduction to Anatomy
Topographical Anatomy:

Chapter 1: Surface of the Body and Axial Skeleton
1. Division of the animal body
2. Skin (common integument)
3. Cutaneous glands, modifications of the skin, digital end-organs
4. Vertebral column and thorax
5. Articulations of the vertebral column and of the thorax; atlanto-occipital joint and atlanto-axial joints

Chapter 2: Neck and Chest Region (Cervical and Thoracic Region)
1. Cutaneous muscles and cutaneous nerves of the neck and thoracic wall
2. Dorsal extrinsic limb muscles
3. Ventral extrinsic limb muscles
4. Nerves, vessels, and visceral organs of the neck

Chapter 3: Thoracic Limb
1. The skeleton of the thoracic limb
2. Medial veins of the thoracic limb; medial shoulder and arm muscles and their nerve supply
3. Lateral veins of the thoracic limb; lateral shoulder and arm muscles and their nerve supply
4. Antebrachial (forearm) muscles and their nerve supply
5. Vessels and nerves of the thoracic limb
6. Synovial structures of the thoracic limb (A. WÜNSCHE and K.-D. BUDRAS)
Chapter 4: Thoracic and Abdominal Wall
1. Muscles of the vertebral column, nuchal ligament and lumbar cutaneous nerves
2. Respiratory muscles
3. Body wall, prepuce, and mammary glands (Mammae)
4. Abdominal muscles, rectus sheath, prepubic tendon
5. Inguinal region, inguinal space (inguinal canal), neuromuscular and vascular lacunae

Chapter 5: Thoracic Cavity
1. Lungs, tracheal bifurcation and bronchi
2. Blood vessels, nerves, and lymphatic system of the lungs; aortic arch; lymph nodes of the thoracic cavity, thymus
3. Thoracic cavity, pleura, and veins of the thoracic cavity
4. Heart, surface of the heart, heart wall and relationships in the interior of the heart
5. Heart, coronary vessels, heart valves, cardiac conduction system
6. Autonomic nervous system

Chapter 6: Abdominal Cavity
1. Topography of the abdominal organs and relationships of the peritoneum
2. Peritoneal cavity, lymph nodes of stomach and intestine, cisterna chyli and spleen
3. Stomach and small intestine, pancreas
4. Large intestine, blood vessels of stomach and intestine
5. Liver and gall bladder (H. BRAGULLA and K.-D. BUDRAS)
6. Autonomic nervous system, abdominal aorta, caudal vena cava, sublumbar muscles and the lumbar plexus

Chapter 7: Urinary and Genital Organs, Pelvis
1. Urinary organs
2. Urinary bladder and peritoneal relationships of the genital organs
3. Female genital organs
4. Male genital organs, lymphatic system of the lumbar and pelvic regions
5. Arteries, veins and nerves of the pelvic cavity, adrenal glands
6. Pelvic diaphragm, ischiorectal fossa; associated arteries, veins and nerves
7. Smooth muscle of the pelvic diaphragm and the bony pelvic girdle

Chapter 8: Pelvic Limb
1. The skeleton of the pelvic limb
2. Muscles of the hip joint and their nerve supply
3. The medial saphenous vein, obturator nerve, femoral nerve, medial thigh muscles, femoral space (femoral canal)
4. The lateral saphenous vein, common peroneal nerve and tibial nerve; crural (leg) muscles and popliteus muscle
5. Arteries and accompanying vessels and nerves of the pelvic limb
6. Synovial structures of the pelvic limb (S. REESE and K.-D. BUDRAS)

Chapter 9: Head
1. Skull, including the hyoid apparatus
2. Skull, paranasal sinuses
3. Lymphatic system, superficial veins of the head, facial nerve (VII)
4. Facial muscles and mandibular muscles
5. Internal (deep) muscles of mastication, trigeminal nerve (V), mandibular nerve (V3), maxillary nerve (V2)
6. Lacrimal apparatus, optic nerve (II), ophthalmic nerve (V1), nerves and muscles of the eye, and external nose
7. Nose, larynx, oral cavity and pharynx
8. Pharyngeal muscles, cranial nerves of the vagus group (IX, X, XI), autonomic nervous system of the head, arteries of the head, external acoustic meatus
9. Tongue, lingual muscles, hypoglossal nerve (XII), salivary glands, and dentition
10. Joints of the head (S. REESE and K.-D. BUDRAS)

Chapter 10: Central Nervous System
1. Spinal cord and meninges
2. Brain (Encephalon) and its meningeal coverings
3. Cerebrum (Telencephalon), brain stem and limbic system
4. Rhinencephalon, sites of egression of the cranial nerves, arterial supply of the brain
5. Cerebral veins, sinuses of the dura mater, cerebral ventricles and choroid plexuses . . .

Chapter 11: Sense organs
1. The eye (P. SIMOENS and K.-D. BUDRAS)
2. The ear (H. KÖNIG and K.-D. BUDRAS)
3. Olfactory and gustatory (chemical) senses; superficial, deep, and visceral sensibility .

Tables, Special Anatomy
1. Myology
2. Lymphology
3. Cranial nerves (C. HERRMANN and K.-D. BUDRAS)

General Anatomy
1. Osteology: membranous and chondral ossification; growth of bones in length and diameter
2. Osteology: structure and form of bone and cartilage
3. Arthrology: the connections of bones and the form of joints
4. Myology: general myology
5. Myology: skeletal musculature and its accessory structures
6. Nervous system
7. Endocrine system
8. Cardiovascular system (R. HIRSCHBERG)
9. Lymphatic system (H.-G. LIEBICH and K.-D. BUDRAS)
10. Glands, mucous membranes, and serous membranes

Introduction to the physics of radiographic and ultrasound diagnostic techniques (C. POULSEN NAUTRUP)
Introduction to Computed Tomography and Anatomy of the CT Scan (C. NÖLLER)
Contributions to Clinical and Functional Anatomy

Index

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