

Cat Abdominal Anatomy



Cat Abdominal Anatomy: A Comprehensive Guide

Understanding your cat's abdominal anatomy is crucial for responsible pet ownership. Whether you're a seasoned veterinarian, a curious cat lover, or simply interested in feline physiology, this comprehensive guide will delve into the intricacies of the cat's abdominal cavity, providing a detailed overview of its major organs and structures. We'll explore the location, function, and potential health concerns related to each component, equipping you with valuable knowledge to better care for your feline companion.

H2: The Abdominal Cavity: A Protected Space

The cat's abdomen, or abdominal cavity, is a large, enclosed space containing vital organs. Protected by the abdominal muscles and the rib cage, it houses the majority of the digestive, urinary, and reproductive systems. The abdominal wall consists of several layers of muscle, fascia (connective tissue), and peritoneum (a serous membrane lining the cavity). This robust structure safeguards the delicate organs within from external trauma.

H2: Major Organs of the Cat's Abdomen

This section explores the key organs residing within the feline abdominal cavity. Understanding their location and function is paramount in recognizing signs of illness or injury.

H3: Digestive System

Stomach: Located on the left side of the abdomen, the stomach is responsible for storing and partially digesting food. Its muscular contractions churn the food, mixing it with gastric juices to initiate the breakdown process.

Small Intestine: A long, coiled tube extending from the stomach, the small intestine is where the majority of nutrient absorption takes place. Its lining contains villi, microscopic finger-like projections, which significantly increase the surface area for nutrient uptake.

Large Intestine (Colon): The large intestine absorbs water and electrolytes from undigested food, forming solid waste (feces). It also houses beneficial bacteria that aid in digestion.

Liver: The liver plays a vital role in metabolism, detoxification, and the production of bile, essential for fat digestion. It's located near the stomach and is a large, reddish-brown organ.

Pancreas: A gland nestled behind the stomach, the pancreas produces enzymes vital for digestion and hormones like insulin, crucial for blood sugar regulation.

Spleen: Located near the stomach, the spleen filters blood, removes old red blood cells, and plays a role in immune function.

H3: Urinary System

Kidneys: Two bean-shaped organs located towards the back of the abdomen, the kidneys filter waste products from the blood, producing urine.

Ureters: Two tubes that carry urine from the kidneys to the bladder.

Bladder: A sac that stores urine before elimination.

H3: Reproductive System

The location and appearance of the reproductive organs differ significantly between male and female cats.

Female: The ovaries, fallopian tubes, and uterus are located in the pelvis, within the abdominal cavity.

Male: The testes are typically located in the scrotum (an external sac), but they develop within the abdomen before descending.

H2: Understanding Potential Health Issues

Knowledge of cat abdominal anatomy is crucial for recognizing signs of illness. Abdominal pain, distension, vomiting, diarrhea, and changes in urination or defecation can indicate various problems, ranging from simple indigestion to serious conditions like pancreatitis, kidney disease, or tumors. Regular veterinary checkups are essential for early detection and treatment.

H2: Visual Aids and Further Learning

Many excellent resources are available to visually learn more about cat abdominal anatomy. Veterinary anatomy textbooks, online anatomical atlases, and even high-quality anatomical diagrams found through reputable online searches can greatly enhance understanding. These resources often provide detailed illustrations and 3D models, providing a much clearer picture of the complex interplay of organs within the abdominal cavity.

Conclusion

Understanding the cat's abdominal anatomy is a vital aspect of responsible pet ownership. By familiarizing yourself with the location, function, and potential health concerns related to the various organs within the abdominal cavity, you can better monitor your cat's health and provide appropriate care. Regular veterinary checkups and prompt attention to any changes in your cat's behavior or health are crucial for maintaining their well-being.

FAQs

1. What are the most common abdominal problems in cats? Common problems include inflammatory bowel disease (IBD), pancreatitis, kidney disease, urinary tract infections (UTIs), and various types of tumors.
2. How can I tell if my cat is experiencing abdominal pain? Signs can include lethargy, vocalization, hunched posture, decreased appetite, vomiting, diarrhea, and reluctance to be touched in the abdominal area.
3. What is the peritoneum and why is it important? The peritoneum is a membrane lining the abdominal cavity and covering the organs. It helps to reduce friction between organs and supports them. Inflammation of the peritoneum (peritonitis) is a serious condition.
4. Can I palpate my cat's abdomen at home? While you can gently feel your cat's abdomen, it's not recommended unless you're trained. Forceful palpation can cause pain and injury. Leave professional abdominal examinations to veterinarians.
5. Where can I find more detailed information on cat anatomy? Reputable veterinary textbooks, online anatomical atlases, and veterinary websites are excellent resources for in-depth information. Always prioritize sources from established veterinary professionals or academic institutions.

cat abdominal anatomy: [Atlas of Normal Radiographic Anatomy and Anatomic Variants in the Dog and Cat - E-Book](#) Donald E. Thrall, Ian D. Robertson, 2015-09-14 - NEW! Companion website

features additional radiographic CT scans and more than 100 questions with answers and rationales. - NEW! Additional CT and 3D images have been added to each chapter to help clinicians better evaluate the detail of bony structures. - NEW! Breed-specific images of dogs and cats are included throughout the atlas to help clinicians better understand the variances in different breeds. - NEW! Updated material on oblique view radiography provides a better understanding of an alternative approach to radiography, particularly in fracture cases. - NEW! 8.5 x 11 trim size makes the atlas easy to store.

cat abdominal anatomy: Outline of Cat Anatomy Stephen G. Gilbert, Cheralea Gilbert, 2000-01-01 The cat has been used as a subject for dissection in the study of mammalian anatomy for almost two centuries. The very popular Pictorial Anatomy of the Cat by Stephen G. Gilbert, originally published in 1967 and now in its 12th printing, has been used in countless laboratories as a guide to dissection and supplement to introductory textbooks. Outline of Cat Anatomy is an abridged version of the original guide, modified for practical use in one-semester courses. It employs anatomical terms used in human rather than veterinary anatomy and includes illustrations of human anatomy that may be compared with those of the cat, especially useful for the many students who do not have access to human dissections. Gilbert's earlier Pictorial Anatomy of the Cat is an excellent, well-illustrated dissection guide for use in courses in comparative anatomy. The text is informative and accurate, and instructions for dissection are clear and helpful.... Highly recommended. □Choice

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cat abdominal anatomy: Point-of-Care Ultrasound Techniques for the Small Animal Practitioner Gregory R. Lisciandro, 2021-03-30 This book offers a thorough revision and update to the first landmark book that presented a standardized approach to focused point-of-care ultrasound exams of the abdomen, thorax, musculoskeletal and eye in veterinary practice. Now incorporating new applications for focused ultrasound exams and additional species, this Second Edition continues to be a state-of-the-art reference for using abbreviated ultrasound exams in clinical practice. A companion website features supplementary video clips of these point-of-care techniques depicting actual ultrasound exams for comparison and comprehension. New chapters in Point-of-Care Ultrasound Techniques for the Small Animal Practitioner, Second Edition cover ultrasound-guided nerve blocks, musculoskeletal, brain imaging, and applications of focused ultrasound techniques in cats, exotics and marine mammals—making it an essential purchase for veterinarians wanting to incorporate point-of-care ultrasound techniques into their veterinary practices. Presents a standardized approach to point-of-care ultrasound as an extension of the physical exam, including trauma, non-trauma, and monitoring applications Includes coverage of new techniques for focused ultrasound exams, including lung, anesthesia and ultrasound guided nerve blocks, transcranial brain imaging, musculoskeletal, volume status evaluation, and rapid assessment for treatable forms of shock Adds cats, exotic and wildlife mammals, and marine mammals to the existing canine coverage Emphasizes the integration of point-of-care ultrasound techniques for optimizing patient care and accurate patient assessment Offers access to a companion website with supplementary video clips showing many clinically relevant didactic examples The second edition of Point-of-Care Ultrasound Techniques for the Small Animal Practitioner is an excellent resource for veterinary practitioners, ranging from the general practitioner to nearly all clinical specialists, including internal medicine, oncology, cardiology, emergency and critical care, anesthesiology, ophthalmology, exotics, and zoo medicine specialists, and veterinary students.

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first book to describe the technology, methodology, interpretation principles and CT features of different diseases for most species treated in veterinary practice. Key features • An essential guide for veterinarians using CT in practice • Includes basic principles of CT as well as guidelines on how to carry out an effective examination • Describes CT features of different diseases for most species treated in practice • Written by a range of international leaders in the field • Illustrated with high quality photographs and diagrams throughout

cat abdominal anatomy: BSAVA Manual of Canine and Feline Abdominal Imaging Robert O'Brien, Frances J. Barr, 2009-05-11 The BSAVA Manual of Canine and Feline Abdominal Imaging is the third Manual in the diagnostic imaging series. The first section of the Manual outlines the approach to abdominal imaging, with chapters dedicated to radiography and ultrasonography. The remainder of the Manual is devoted to the individual body systems, including the liver and gallbladder, the kidneys and ureters, and the small intestine. Extensively illustrated throughout.

cat abdominal anatomy: Feline Diagnostic Imaging Merrilee Holland, Judith Hudson, 2020-04-21 Vorrangig werden radiologische und Ultraschallverfahren vorgestellt. Komplexere Bildgebungsverfahren wie Computertomographie und MRT werden ebenfalls präsentiert. Das Referenzwerk enthält mehr als 1.750 hochwertige Abbildungen und ist eine wahre Fundgrube für Veterinärmediziner, die sich insbesondere auf die Behandlung von Katzen spezialisiert haben. Feline Diagnostic Imaging beschäftigt sich zunächst mit der Auswertung von unauffälligen und pathologischen Röntgenaufnahmen des Thorax, Abdomens und des Bewegungsapparats. Im Anschluss werden Diagnosen aus gängigen echokardiographischen und Ultraschalluntersuchungen erläutert. Auch beschreibt das Referenzwerk bildgebende Untersuchungen des Schädels mittels Computertomographie sowie Gehirn- und Wirbelsäulenerkrankungen, die über ein MRT erkannt werden können. - Präsentiert bildgebende Techniken und konzentriert sich dabei auf die Anforderungen bei der Untersuchung von Katzen. - Legt den Schwerpunkt auf gängige Verfahren, behandelt aber auch komplexere Bildgebungstechniken. - Gibt einen vollständigen Überblick über diagnostischen Imaging-Verfahren bei Katzen. - Mit einer Fülle von Tipps und Tricks für die Behandlung von Katzen. - Ein Muss für Veterinärmediziner, die sich auf Katzen spezialisiert haben. Feline Diagnostic Imaging legt in einzigartiger Weise den Fokus auf Katzen und ist daher ein Muss für Veterinärmediziner, die ihre Kompetenzen bei diagnostischen Bildgebungsverfahren verbessern möchten. Das Buch eignet sich ebenfalls hervorragend für Fachtierärzte für Radiologie, Studenten der Veterinärmedizin und Kliniker.

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cat abdominal anatomy: Textbook of Small Animal Surgery Douglas H. Slatter, 2003-01-01 This two-volume masterwork offers explicit guidelines for evaluating patients, selecting the right operation, and implementing clinically proven procedures. It covers major topics relevant to the field such as oncology, ophthalmology, dentistry, the nervous system, the urinary and reproductive systems, and more. The up-to-date 3rd edition features an increased emphasis on decision-making algorithms and high-quality images that depict relevant anatomy, diagnostic features, and sequential steps in operative procedures. Expanded, detailed coverage assists the reader with learning and

applying the latest surgical techniques. Contributors from three different continents and 17 countries, outstanding in their fields, lend a global perspective to the work. Extensive, high-quality illustrations aid the reader in clear visualization of techniques, instrumentation, and diagnosis. References for each chapter direct the reader to further sources of information. An appendix of normal laboratory values for the dog and cat put this essential information within easy reach. A cardiopulmonary resuscitation algorithm is printed on the inside front cover for quick and easy reference. A quick guide to evaluation and initial stabilization of life-threatening cardiopulmonary complications is printed on the inside back cover for immediate access to crucial information. The section on critical care has been expanded to include more complete information. 10 new section editors and 146 new contributors bring new insight to topics in their areas of expertise. 38 new chapters, including a chapter on arthroscopy, reflect current knowledge and advances. Detailed coverage of surgery techniques present explicit, easy-to-follow guidelines and procedures. An increased emphasis on decision-making algorithms makes the book even more clinically useful. Each chapter has been thoroughly revised, providing the most comprehensive scope of coverage for each topic.

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cat abdominal anatomy: Necropsy Guide for Dogs, Cats, and Small Mammals Sean P. McDonough, Teresa Southard, 2017-02-06 *Necropsy Guide for Dogs, Cats, and Small Mammals* is a complete, practical resource for performing necropsies on dogs, cats, rabbits, rodents, and ferrets in the veterinary clinic, animal shelter, research laboratory, or in the field. Provides practical guidance on all aspects of performing a necropsy on dogs, cats, and small mammals and interpreting the results Presents more than 200 full-color images to demonstrate techniques and findings Offers step-by-step instructions for the necropsy process and collecting samples Includes an anatomy review, discussion of dissection techniques, and list of common artifacts and post-mortem changes for each organ system Supports veterinarians in performing a necropsy in any setting, including animal shelters, veterinary clinics, research laboratories, and in the field

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anesthesia, analgesia, preoperative and postoperative care of the patient, surgical instrumentation and surgical principles for oncology cases. Part 2 covers surgical techniques of general and oncological feline diseases and injuries, which are explained as step-by-step methods with many specially prepared schematic illustrations specific to the cat. Emphasis is on presenting both classical methods and new techniques. Feline Soft Tissue and General Surgery is the perfect sister-text to Feline Orthopedic Surgery and Musculoskeletal Disease, also published by Elsevier. Together they comprise a comprehensive and complete literature giving practical coverage of all possible surgical procedures in the cat. Provides a comprehensive, detailed and up-to-date summary of all available information on all aspects of feline general and oncological surgery. Gives detailed practical information on how to operate on cats with medical conditions, internal disease and neoplasia. Gives access to website showing videoclips of key surgical procedures. International author team offers worldwide expertise and appeal. Lavish full-colour line drawings and photographs throughout.

cat abdominal anatomy: Sonography Principles and Instruments Frederick W. Kremkau, 2015-11-06 Learn how diagnostic ultrasound works, and find out how to properly handle artifacts, scan safely, evaluate instrument performance, and prepare for registry examinations, with the market-leading Sonography Principles and Instruments, 9th Edition. It concisely and comprehensively covers the essential aspects of ultrasound physics and instrumentation like Doppler, artifacts, safety, quality assurance, and the newest technology - all in a dynamic, highly visual format for easy review of key information. Dr. Kremkau, unlike others, uses extensive exam questions, over 1,000 high-quality illustrations, and only the most basic equations to simplify complicated concepts, making this text a highly respected reference for sonography students and professionals. Essential coverage of physics and sonography prepares you for the physics portion of the American Registry for Diagnostic Medical Sonography (ARDMS) certification exam. Current technology content, including the continuing progression of contrast agents and 3D and the more general aspects of transducers and instruments, helps you better comprehend the text. Straightforward explanations simplify complicated concepts. Learning objectives at the beginning of every chapter give you a measurable outcome to achieve. Key terms provide you with a list of the most important terms at the beginning of each chapter. Key Points, called out with an icon and special type, highlight the most important information to help you study more efficiently. Bulleted reviews at the end of each chapter identify key concepts covered in that chapter. End-of-chapter exercises test your knowledge and understanding with a mix of true/false, fill-in-the-blank, multiple choice, and matching questions. Glossary of key terms at the end of the book serves as a quick reference, letting you look up definitions without having to search through each chapter. Appendices, including a List of Symbols, Complication of Equations, and Mathematics Review, equip you with additional resources to help comprehend difficult concepts. An Evolve site with student resources enhances your learning experience. A full-color design depicts over 120 high-quality ultrasound scans similar to what you will encounter in the clinical setting. NEW! All-new content on elastography, shear wave imaging, acoustic radiation force impulse imaging (ARFI), volume imaging, power M-mode Doppler in TCD, miniaturization, and newer acquisition technique in Epic System keeps you in the know. NEW! Updated instrument output data and official safety statements ensure you are current with today's technology. NEW! Updated art added to necessary chapters gives you an up-to-date representation of what you will encounter in the clinical setting.

cat abdominal anatomy: An Atlas of Interpretative Radiographic Anatomy of the Dog and Cat Arlene Coulson, Noreen Lewis, 2008-04-15 A good basic knowledge of radiological anatomy is essential for both the specialising and non-specialising veterinary audience. This comprehensive and general practice orientated reference book which provides detailed radiographic guidance on the normal clinical anatomy of the dog and cat. In addition to numerous projections of plain and contrast studies, this atlas includes detailed observations of the normal range of variations seen in the juvenile animal, differences between breeds and descriptions of the range of anatomical variations commonly encountered in veterinary practice. The clinical utility of the book has been greatly enhanced by the

use of line drawings corresponding to the relevant radiographs and schematic drawings of those structures not normally visible in plain films. The authors, both with extensive teaching experience in postgraduate veterinary radiology, describe procedures and techniques routinely available in general veterinary practice. Monitored for anatomical accuracy throughout, this atlas provides a single volume reference for the general practitioner, undergraduate or postgraduate veterinary surgeon.

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benefits for animals worldwide.

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85 authors from 17 different countries, led by Robert Washabau and Michael Day, covers everything from minor problems such as adverse food reactions to debilitating inflammatory, infectious, metabolic, and neoplastic diseases of the digestive system. This authoritative text utilizes an evidence-based approach to reflect the latest science and research, complemented by principles of problem solving, algorithms to improve clinical diagnoses, and extensive full-color illustrations. For generalists and specialists alike, this gastroenterology reference should be part of every serious practitioner's professional library. - A comprehensive, 928-page reference standard covers the discipline of canine and feline gastroenterology. - An international focus is provided by 85 authors from 17 different countries, including renowned experts in veterinary gastroenterology, internal medicine, pathology, clinical pathology, radiology, and infectious disease. - Coverage of the entire breadth and depth of gastroenterology ranges from biology to pathobiology, as well as diagnosis and treatment of diseases of the gastrointestinal, pancreatic, and hepatobiliary systems. - Current information on GI microflora, immunology, cellular growth, and systems integration provides a foundation for treating clinical problems. - Coverage of diseases in dogs and cats includes the oral cavity, esophagus, stomach, small intestine, large intestine, colon, anorectum, liver and biliary tract, exocrine pancreas, peritoneum, and associated vasculature. - A focus on patient management examines the full range of procedures and techniques essential to diagnosis and treatment from clinical signs and diagnosis to nutritional support and pharmacologic management of disease. - Clear explanations of current diagnostic modalities include laboratory tests, molecular methods, diagnostic imaging, endoscopy, and histopathology, also showing how to interpret and utilize results. - A strong clinical approach emphasizes need-to-know information for managing the common and not-so-common G.I. clinical problems of everyday practice. - Full-color photographs and illustrations depict concepts, conditions, and procedures. - An evidence-based medicine perspective reflects the latest research as well as the modern practice of veterinary medicine. - Logical, coherent, and consistent internal organization makes this a reader-friendly edition. - Problem-based algorithms help in diagnosing every G.I. clinical problem from A to Z. - A stand-alone section on the pharmacologic approach to G.I. disease offers quick and easy drug reference.

cat abdominal anatomy: Atlas of Surgical Approaches to Soft Tissue and Oncologic Diseases in the Dog and Cat Marije Risselada, 2020-06-23 This book offers practical guidance to making approaches for surgery to treat soft tissue and oncologic conditions in canine and feline patients. Every approach is outlined with step-by-step descriptions on how to handle the incision and covers indications and patient positioning. Detailed, high-quality medical illustrations are also included for each, and topics are logically laid out with images on the left and text on the right. Atlas of Surgical Approaches to Soft Tissue and Oncologic Diseases in the Dog and Cat starts with a chapter on oromaxillofacial approaches, followed by chapters covering the cervical area and ear, forelimb, hindlimb, thorax, and abdomen. The book finishes with complete coverage of the approaches to the perineal area and pelvic canal and digits and tail, making it an excellent guide for surgeons to plan and execute their approach to soft tissue and oncologic diseases. Describes the complete approach to surgical incisions for soft tissue and oncologic disease, with alternative positions or approaches where appropriate Provides a high-quality medical line drawing depicting each approach Offers practical guidance for surgeons to direct their approach during surgery Covers indications, patient positioning, and step-by-step summaries of each approach Follows a logical two-page layout with text on one side and illustrations on the other Atlas of Surgical Approaches to Soft Tissue and Oncologic Diseases in the Dog and Cat is an essential reference for any veterinary surgeon or clinician treating soft tissue and oncologic diseases surgically.

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cat abdominal anatomy: Radiography of the Dog and Cat M. C. Muhlbauer, S. K. Kneller, 2024-01-24 Radiography of the Dog and Cat A convenient and authoritative quick-reference guide to help you get the most from radiography of dogs and cats. In the newly revised second edition of Radiography of the Dog and Cat: Guide to Making and Interpreting Radiographs, the authors deliver

a thorough update to a celebrated reference manual for all veterinary personnel, student to specialist, involved with canine and feline radiography. The book takes a straightforward approach to the fundamentals of radiography and provides easy-to-follow explanations of key points and concepts. Hundreds of new images have been added covering normal radiographic anatomy and numerous diseases and disorders. This latest edition includes access to a companion website with review questions and answers. Readers of the book will also find: An expanded positioning guide along with images of properly positioned radiographs. Numerous examples of radiographic artifacts with explanations of their causes and remedies. Detailed explanations of many contrast radiography procedures, including indications, contraindications, and common pitfalls. Comprehensive treatments of Musculoskeletal, Thoracic, and Abdominal body parts, including both normal and abnormal radiographic appearances and variations in body types. Perfect for veterinary practitioners and students, the second edition of Radiography of the Dog and Cat: Guide to Making and Interpreting Radiographs is also a valuable handbook for veterinary technical staff seeking a one-stop reference for dog and cat radiography.

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ontogenetic and phylogenetic comparison, will impart an interest to the study of adult human morphology, such as the subject, considered solely in the narrow field of its own limitations, could never arouse. The book represents part of the course in visceral anatomy as developed during the past fourteen years at Columbia University. The sections dealing with the morphology of the vertebrate ileo-colic junction and with the structural details of the human cæcum and appendix are considered somewhat more fully, as warranted by the extensive material available. The illustrations are for the greater part taken from preparations in the Morphological Museum of the University. Wherever practicable the direct photographic reproduction of the actual preparation is given. In the case of preparations not suitable for this purpose, careful drawings have been made which offer in every instance a faithful and correct interpretation of the conditions presented by the actual object. A number of the embryonic illustrations are taken from the standard text-books on the subject, due credit being given to their source. I desire to express my sincere thanks to Dr. Edward Leaming, of the Department of Photography and to Mr. M. Petersen, artist of the Anatomical Department of the University, for their skilful and thoroughly reliable work in the preparation of the illustrations. George S. Huntington.

cat abdominal anatomy: About cats Nicolae Sfetcu, 2014-04-29 A guide for the cat lovers about the cat behavior, cat attractants, cat breeds, cat health and food, type of cats, cats as pets, fictional cats, films about cats, historical cats. A book full with pictures of the most important cat breeds, tips and advice for cat behavior, cat diseases and how to take care of the cats. The cat, also called the domestic cat or house cat, is a small feline carnivorous mammal of the subspecies *Felis silvestris catus*. Its most immediate pre-domestication ancestor is the African wild cat, *Felis silvestris lybica*. The cat has been living in close association with humans for at least 3,500 years; the Ancient Egyptians routinely used cats to keep mice and other rodents (mostly rats) away from their grain (and also believed that cats were sacred to the goddess Bastet). The history of the domestic cat may stretch back even further, as 8,000-year-old bones of humans and cats were found buried together on the island of Cyprus.

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cat abdominal anatomy: Introduction to Animal and Veterinary Anatomy and Physiology, 4th Edition Victoria Aspinall, Melanie Cappello, 2019-12-11 A sound knowledge of anatomy and physiology is an essential basis for the effective clinical treatment of companion animals and farm animals alike. The fourth edition of this bestselling book continues to provide a comprehensive description of the anatomy and physiology of dogs and cats. The book builds on these foundations with detailed descriptions of exotic small species including birds, and domestic farm animals, including cows, sheep and pigs, as well as the horse.

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suborders give notice to biology, taxonomy, biogeography and food of the respective taxon. It is a characteristic of this book that different sections of the post-oesophageal tract are discussed separately from each other. Informations on form and function of organs of digestion in eutherians are discussed under comparative-anatomical aspects. The variability and diversity of anatomical structures represents the basis of functional differentiations.

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