

external horse anatomy

external horse anatomy is a fascinating subject that unveils the remarkable structure and function of a horse's outer body. Understanding the external anatomy of a horse is essential for equine professionals, veterinarians, trainers, and horse enthusiasts alike. This article provides a comprehensive overview of the key parts of a horse's body, their functions, and the significance of each anatomical region. From the head and neck to the limbs, trunk, and specialized features like the skin and hooves, each component plays a crucial role in a horse's movement, health, and performance. Whether you're looking to improve your grooming skills, identify signs of injury, or deepen your appreciation for these magnificent animals, this guide will help you navigate the essentials of external horse anatomy. Delve into the details, learn the terminology, and discover why a clear understanding of a horse's external features is vital for proper care, training, and horsemanship.

- Overview of External Horse Anatomy
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Overview of External Horse Anatomy

External horse anatomy encompasses the visible and palpable structures that form the outer body of the horse. This knowledge forms the foundation for equine health assessment, conformation judging, and training practices. Recognizing the main anatomical regions and their respective parts helps in identifying injuries, evaluating physical condition, and improving horse management. The major regions include the head, neck, trunk, limbs, and specialized features like the skin and hooves. Each part is uniquely adapted for the horse's role as a powerful, agile, and enduring animal.

The Head and Facial Structures

Skull, Eyes, and Ears

The horse's head is a complex structure housing sensory organs and essential anatomical landmarks. The skull provides the framework, supporting the eyes, ears, and nostrils. Large, laterally placed eyes grant horses a broad field of vision, vital for detecting predators. Mobile, upright ears allow the horse to pinpoint sounds and communicate emotions through ear position.

Muzzle, Nostrils, and Mouth

The muzzle incorporates the nostrils and mouth, both crucial for respiration and feeding. Soft, sensitive lips enable horses to selectively grasp food, while wide nostrils facilitate efficient airflow during intense exercise. The mouth houses strong teeth adapted for grinding forage, and its health is essential for proper nutrition and performance.

Key Head Landmarks

- Pole: The area between the ears atop the head.
- Forehead: The flat area above the eyes, often marked with distinctive facial markings.
- Jaw: The lower jawbone, important for bit fit and head carriage.
- Cheeks: The fleshy sides of the head, covering the masseter muscles for chewing.

The Neck and Shoulder Regions

Structure and Function of the Neck

The horse's neck is long and muscular, connecting the head to the body. The crest, or upper part of the neck, varies in thickness between breeds and sexes. The neck provides balance, flexibility, and serves as a counterweight during movement. It also houses the windpipe, esophagus, and major blood vessels.

The Shoulders and Withers

The shoulders are formed by the scapula and associated muscles. Well-angled, sloping shoulders contribute to a smooth gait and efficient stride. The withers, located at the top of the shoulders, are the highest point of the thoracic vertebrae and serve as a key saddle fitting landmark. Prominent withers help keep the saddle in place and allow for greater freedom of movement.

The Trunk: Withers, Back, and Barrel

Withers and Back

The withers mark the transition from the neck to the back and are critical for measuring a horse's height. The back extends from the withers to the loin and supports the rider's weight. A strong, well-muscled back is essential for athletic performance, while weakness or pain in this area can limit movement and cause discomfort.

The Barrel and Abdomen

The barrel is the main body cavity, enclosing the ribs, lungs, heart, and digestive organs. Its shape affects lung capacity and stamina. A deep, well-sprung barrel allows for efficient respiration and endurance. The underline is the lower outline of the barrel, running from the chest to the abdomen and groin.

The Limbs: Forelimbs and Hindlimbs

Forelimb Anatomy

The horse's forelimbs bear about 60% of the animal's weight. Key parts include:

- **Shoulder:** Attaches the forelimb to the trunk.
- **Arm:** Runs from the shoulder to the elbow.
- **Forearm:** Extends from the elbow to the knee (carpus).
- **Knee:** Equivalent to the human wrist.
- **Cannon Bone:** The long bone below the knee.
- **Fetlock:** The joint below the cannon, similar to the knuckle.
- **Pastern:** The area between the fetlock and hoof.

Hindlimb Anatomy

The hindlimbs provide power for propulsion, jumping, and acceleration. Key parts include:

- Hip: The joint at the top of the hindquarters.
- Stifle: Equivalent to the human knee.
- Gaskin: The muscular area between the stifle and hock.
- Hock: The joint similar to the human ankle.
- Cannon Bone, Fetlock, Pastern, and Hoof: Similar to the forelimb structure.

The Hooves and Lower Legs

Hoof Structure and Function

The hoof is a specialized structure made of keratin, serving as a shock absorber and supporting the horse's weight. Proper hoof care is essential for soundness and mobility. The hoof wall, sole, frog, and heel work together to protect the internal structures and ensure traction.

Lower Limb Anatomy

Beneath the skin, the lower legs contain tendons, ligaments, and bones crucial for movement and support. The pastern and fetlock joints contribute to shock absorption and flexibility, while the digital cushion inside the hoof aids in circulation.

The Skin, Coat, and Markings

Role of Skin and Coat

The skin is the horse's largest organ, providing protection, temperature regulation, and sensation. The coat consists of hair that insulates against weather and repels water. Skin health reflects overall wellness, with shiny coats often indicating good nutrition and care.

Common Markings and Color Patterns

Markings are unique white or colored patterns on the horse's face and legs, used for identification. Common markings include:

- Star: A white spot on the forehead.
- Stripe: A narrow white line down the face.

- Snip: A white marking on the muzzle.
- Stocking: A white marking extending to the knee or hock.
- Coronet: A narrow band of white above the hoof.

Functional Importance of External Anatomy

Health and Performance

Understanding external horse anatomy allows horse owners and professionals to assess conformation, identify injuries, and monitor health. Proper assessment of the limbs, back, and hooves is essential for early detection of lameness or discomfort. External anatomy also affects how equipment, such as saddles and bridles, fits and functions.

Communication and Behavior

Horses use their external features to communicate with humans and other horses. Ear position, facial expressions, and tail movement convey mood and intent. Recognizing these signals improves safety and handling.

Conclusion

A thorough understanding of external horse anatomy is fundamental for anyone involved in equine care, training, or management. From the head and neck to the hooves and coat, each anatomical feature serves a distinct purpose in the health, performance, and communication of the horse. Mastery of this knowledge ensures better welfare and more effective interaction with these exceptional animals.

Q: What are the main regions of external horse anatomy?

A: The main regions include the head, neck, trunk (withers, back, and barrel), forelimbs, hindlimbs, hooves, and the skin/coat.

Q: Why is it important to understand a horse's external anatomy?

A: Understanding external anatomy helps with health assessment, injury detection, proper equipment fitting, and interpreting the horse's behavior and communication.

Q: What is the function of the horse's withers?

A: The withers serve as the highest point of the back, assist in saddle fitting, and help anchor the muscles and ligaments that support movement.

Q: How do a horse's hooves contribute to its movement?

A: The hooves act as shock absorbers, protect internal structures, and provide traction, all of which are crucial for sound movement and overall health.

Q: What are some common facial markings found on horses?

A: Common facial markings include stars, stripes, snips, and blazes, which help identify individual horses.

Q: What is the difference between the forelimb and hindlimb anatomy?

A: The forelimbs primarily support the horse's weight, while the hindlimbs provide propulsion and power for movement. Both have similar lower limb structures but distinct upper joint functions.

Q: How can external anatomy help identify lameness in horses?

A: By examining the limbs, joints, and hooves for swelling, heat, or abnormal movement, one can detect signs of lameness early and seek appropriate care.

Q: What role does the horse's coat play in its overall health?

A: The coat protects against weather, insulates the body, and reflects the horse's nutritional and health status.

Q: Which external features are used by horses to communicate?

A: Horses use their ears, eyes, tail, and body posture to communicate mood, intent, and discomfort to humans and other horses.

Q: How does understanding external horse anatomy benefit horse owners?

A: It enables better care, safer handling, improved training outcomes, and more effective identification of health and equipment issues.

External Horse Anatomy

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External Horse Anatomy: A Comprehensive Guide

Understanding a horse's external anatomy is crucial for anyone involved in their care, from casual riders to seasoned veterinarians. This comprehensive guide dives deep into the key features of a horse's exterior, providing detailed descriptions and helpful imagery (imagine images here!). Whether you're a beginner looking to build your equine knowledge or an experienced horse owner wanting a refresher, this post will equip you with the expertise to better understand and appreciate these magnificent animals. We'll cover everything from the head to the hooves, ensuring you grasp the terminology and functions of each body part.

Head and Neck

The horse's head is expressive and highly informative. Let's break down the key features:

The Muzzle:

The muzzle encompasses the nostrils (nares), which are incredibly sensitive and crucial for breathing. The area around the nostrils is called the philtrum. Observe the horse's nostrils carefully - their flaring can indicate exertion or distress.

The Eyes:

Equine eyes offer a wide field of vision, crucial for their survival in the wild. Note the prominent eyelid and the nictitating membrane (third eyelid) which helps protect and lubricate the eye.

The Ears:

Highly mobile ears demonstrate a horse's attentiveness and alertness. The position and movement of the ears are excellent indicators of a horse's mood and reactions to its environment.

The Forehead:

The forehead, often referred to as the poll, is where you'll find the horse's hairline. This area connects to the mane and forelock.

The Neck:

The neck is essential for balance and movement. Its length and musculature contribute significantly to the horse's athleticism and overall conformation. Observe the crest (topline of the neck) and the throatlatch, where the neck meets the underside of the jaw.

Body

The horse's body is a marvel of athletic design. Let's examine its key features:

The Withers:

The withers are the highest point of the horse's back, located just behind the neck. This is a crucial landmark for measuring height and fitting saddles correctly.

The Back and Loin:

The back and loin connect the withers to the croup. The length and strength of these areas are crucial indicators of a horse's athletic capabilities. A short, strong back and loin are generally desirable.

The Croup:

The croup is the area behind the saddle, sloping down towards the tail. The angle of the croup influences the horse's movement and conformation.

The Chest:

The chest houses vital organs and plays a key role in respiration. Its depth and width contribute to the horse's lung capacity and overall athleticism.

The Ribs:

The ribs protect the internal organs. A well-muscled ribcage is indicative of good health and condition. You can feel the ribs, but they shouldn't be overly prominent.

The Barrel:

The barrel refers to the overall body cavity, encompassing the ribs, flanks, and abdomen. The size and shape of the barrel can provide clues about the horse's health and fitness.

Legs and Hooves

The legs and hooves are fundamental to a horse's locomotion and overall well-being:

The Legs:

The legs consist of the shoulder, elbow, knee, fetlock, pastern, and hoof. Understanding the anatomy of each joint is crucial for identifying lameness or injuries.

The Hooves:

The hooves are vital structures providing crucial support and protection. Understanding hoof anatomy – including the hoof wall, sole, and frog – is essential for proper hoof care.

Tail

The tail is an important insect repellent and balance aid. The tailbone, or coccyx, consists of several fused vertebrae. The tail is comprised of long hairs for brushing away insects and for signaling.

Conclusion

Mastering the external anatomy of a horse is a journey of continuous learning. This guide provides a solid foundation for understanding the key features and their importance. By paying close attention to detail, you'll improve your ability to assess a horse's health, conformation, and overall well-being. Remember to combine this knowledge with practical observation and experience to deepen your understanding.

Frequently Asked Questions (FAQs)

1. What is the significance of a horse's coat color in terms of its anatomy? Coat color doesn't directly relate to internal anatomy, but it can sometimes be associated with certain genetic predispositions to specific health conditions.
2. How can I best learn to identify subtle differences in a horse's conformation? Study conformation diagrams, attend horse shows to observe various breeds and types, and seek guidance from experienced horse professionals.
3. Are there any resources beyond this blog that can help me further my knowledge of equine anatomy? Yes! Many excellent equine anatomy textbooks and online courses are available. Search for "equine anatomy" to find suitable resources.
4. How can I tell if a horse is in pain based on its external anatomy? Observe for signs like lameness, unusual posture, reluctance to move, changes in breathing, sweating, or unusual expressions. If you suspect pain, consult a veterinarian.
5. What's the difference between a horse's forelegs and hind legs in terms of their structure? The hind legs are more powerfully muscled and designed for propulsion, while the forelegs primarily support weight and are crucial for steering and balance.

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examine the horse — inside and out. The skeleton, muscles, nervous system, and major organs are clearly labeled and explained.

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tremendous forces and able to adapt to an astonishing range of environmental conditions. It also changes daily—for better or for worse—in response to external and internal factors. Few horse owners have the opportunity to acquire a deep understanding of the hoof, which limits their ability to advocate on their horses' behalf and make informed decisions about hoof care and management. This book is the first resource of its kind to combine the most current and useful information available, gleaned from the research and wisdom of top hoof experts around the world, with a unique “hands-on” approach. The authors provide basic terms and anatomy, clearly illustrate the differences between healthy and unhealthy feet, discuss biomechanics and management concerns, and cover the causes, treatments, and prevention of commonly encountered problems, including laminitis, white line disease, and thrush. Along the way, readers are given activities to help them better analyze and understand the most important aspects of equine hoof health, such as hoof balance, depth of sole, and point of breakover. Easy-to-follow language, over 400 full-color photographs, and do-it-yourself exercises promise to empower horse owners and caretakers of all experience levels with the tools they need to accurately assess hoof health and keep their horses as sound and happy as possible.

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present the most current information on fracture repair in horses. Written to be accessible, the text is logically arranged, presenting the most authoritative information on equine fracture repair with explanations of the expected outcomes. The book provides valuable insight as to whether a fracture should be repaired, the degree of difficulty of the procedure, and a wealth of practical information on surgical techniques. This fully revised Second Edition offers a valuable tool for veterinarians making clinical decisions when faced with horse fractures, covering emergency care and splinting, the most current innovative techniques in equine fracture repair, and new implant systems. With contributions from leading experts in the field, the revised edition continues to be the essential reference to the subject. This essential resource: Offers a revised edition of the most comprehensive reference on the repair of fracture in horses, with complete information on patient assessment, emergency splinting and casting, and guidance in treatment choices Includes contributions from leading experts in the field Presents information organized by fracture type for quick access Provides valuable outcome assessment with helpful discussions of the degree of difficulty to aid in case management, incorporating information on the newest techniques and implant systems Concludes with extensive information on the identification and management of complications associated with fractures and repair methods This revised and updated edition of Equine Fracture Repair continues to provide a comprehensive resource for understanding the most effective and current techniques available for the treatment of fractures in horses.

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comprehensive guide to MRI in the horse. Edited by Rachel Murray, a leading authority and researcher in the field with over ten years of equine clinical MRI experience, the book also includes contributions from worldwide experts in the subject. Divided into the following four sections, the book presents key information based on previous validation work and clinical practice: Principles of MRI, including the practicalities of image acquisition and interpretation Normal MRI anatomy and normal variations Different types of pathological change Options for clinical management and prognosis for different conditions MRI is a rapidly expanding area in veterinary medicine that confers detailed, three-dimensional information on both bone and soft tissue. Expanding clinical knowledge, improvements in technology, and practical application of MRI to the standing and recumbent horse means this useful imaging modality has become an integral and essential part of the diagnostic evaluation in lameness and is a realistic option for investigation of ophthalmological, neurological and cranial pathology. Equine MRI enables readers to understand the best ways to achieve good quality images, and provides a detailed explanation of the problems that may occur. With close to 950 normal and abnormal images, this book offers considerable detail and examples of both common and uncommon problems, making it a great reference for equine veterinarians, veterinary students, specialists in equine surgery, and specialists in veterinary imaging.

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Cells, Marrow Components, and Other Growth Factors. The chapter on the hock has been expanded substantially, and the section on lameness associated with the foot has been completely rewritten to include state-of-the-art information based on what has been learned from MRI. Many new figures appear throughout the book. - A companion website includes 47 narrated video clips of gait abnormalities, including typical common syndromes as well as rarer and atypical manifestations of lameness and neurological dysfunction, with commentary by author/editors Mike Ross and Sue Dyson. - References on the companion website are linked to the original abstracts on PubMed.

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An introduction to equine anatomy, physiology, and kinesiology * Practical information on stretching and hydrotherapy * Four new chapters covering equine myofascial massage, Equine TMJ (temporomandibular joint) Dysfunction Syndrome, Equine Muscular Compensation Phenomenon, and saddle fitting * A conformation check-up routine * Information about areas of stress specific to each discipline and different massage techniques and routines for different situations Equine massage enhances the performance and quality of life of horses by increasing flexibility, reducing stiffness, improving attitude, and shortening recovery time from injury. In addition to its many health benefits, equine massage strengthens the bond between the horse and his owner, trainer, or groom. Using these techniques, you'll learn to see with your hands and sense areas that need special attention. Equine Massage, Second Edition is truly a hands-on guide to proven massage techniques that improve a horse's well-being.

external horse anatomy: The Clinical Companion of the Donkey The Donkey Sanctuary, 2018 International animal welfare charity The Donkey Sanctuary is launching The Clinical Companion of the Donkey, the revised version of The Professional Handbook of the Donkey, which has been the definitive text for clinicians and professionals working in donkey medicine or surgery for over twenty years. Now in an easy-to-read and easy-to-navigate format over its 360 pages, this updated paperback includes current and extra information in a bid to improve the health and welfare of donkeys worldwide by sharing knowledge and providing further education. Without covering the same ground as other excellent textbooks, The Clinical Companion of the Donkey concentrates on those differences in the equine species that are specific to the donkey. A new chapter on donkey behaviour has been included, as this is fundamental to understanding this unique animal and the presentation of clinical signs and requirements for handling, nursing and treatment. Technical colour illustrations have been included using images from the extensive libraries at The Donkey Sanctuary, as well as those private collections that belong to contributors. This book will also be available as translated versions over the following months. Created with heart and keen intelligence, The Clinical Companion of the Donkey has all the attributes of the animal it aims to aid, and will surely be the textbook of professionals involved with donkeys for years to come.

external horse anatomy: *Horse and Stable Management* Jeremy Houghton Brown, Sarah Pilliner, Zoe Davies, 2013-03-13 Since the first edition was published in 1984 *Horse and Stable Management* has become the recognised source of reliable information on all aspects of the practical management of horses and ponies. It is now the established textbook for everyone who owns a horse or works with horses. This fourth edition has been radically revised and reorganised to include the most up-to-date and accurate procedures and advice. With many new photographs, *Horse and Stable Management* includes chapters covering evolution and behaviour, conformation and action, routine preventive measures, nursing the sick horse, first aid, lameness and the management of breeding stock. *Horse and Stable Management* is essential reading for those taking British Horse Society and Association of British Riding Schools examinations as well as those taking college equine courses or National Vocational Qualifications in horse care and management. The Authors Jeremy Houghton Brown was manager of the British National Equestrian Centre and the British Racing School, then for many years principal lecturer in equine studies at Warwickshire College, where he started and pioneered British equine education. Above all, he is an experienced, practical horseman. Sarah Pilliner is an equine consultant specialising in horse care. She is also an experienced lecturer, competition rider, senior examiner, and the author of several books. Zoe Davies is a former lecturer in equine science, a consultant equine nutritionist, author and external examiner for higher education courses. She has substantial experience in equine management and training. From previous reviews: 'A new classic... a clearly written and easily understood handbook.' Riding 'It is extremely comprehensive. It is also accurate. In fact, a most valuable book for anyone who owns a horse.' Horse and Hound 'The approach and contents are refreshingly different... very informative and a valuable source of reference.' Horse and Rider

external horse anatomy: *Osteopathy and the Treatment of Horses* Anthony Pusey, Julia Brooks, Annabel Jenks, 2011-11-18 Written by pioneering and internationally-renowned specialists in

the field, this text provides clinically-orientated information on osteopathy as a treatment for horses. It explains the scientific rationale of how osteopathy works in animals, as well as providing a detailed working guide to the technical skills and procedures you need to know to perform safe and effective osteopathic procedures. Drawing on well established practices for humans this book provides details on the full variety of diagnostic and therapeutic osteopathic procedures that can be used on horses. Full of practical information, it demonstrates how professionals treating equine locomotor problems can adapt different procedures in different clinical settings. Over 350 colour images and detailed step-by-step instructions demonstrate the procedures and practice of osteopathy. Covers treatment both with and without sedation and general anaesthetic. This comprehensive text is written for students and practitioners of osteopathy with an interest in treating horses. It will also be useful to other allied therapists, and to veterinary practitioners who want to know more about the treatment of musculoskeletal problems.

external horse anatomy: *Uncover a Horse* David George Gordon, 2009-09 A sculpted three-dimensional model of the anatomy of a horse will help children learn all about this amazing animal.

external horse anatomy: *Textbook of Veterinary Anatomy* Keith M. Dyce, Wolfgang O. Sack, Cornelis Johannes Gerardus Wensing, 2010 Offering comprehensive coverage of core anatomic concepts, this respected, clinically oriented text is the definitive source for a complete understanding of veterinary anatomy. Gain the working anatomic knowledge that is crucial to your understanding of the veterinary basic sciences, as well as detailed information directly applicable to the care of specific animal species, including dogs, cats, horses, cows, pigs, sheep, goats, and birds. Each chapter includes a conceptual overview that describes the structure and function of an anatomic region, accompanied by new full-color dissection photographs that illustrate the relevance of anatomy to successful veterinary practice. Content is logically organized into two main sections - a general introduction to mammalian anatomy and a region-specific breakdown - to make studying more efficient and ensure greater understanding. Comprehensive, all-in-one coverage of all major species presents everything you need to master anatomic concepts in one text. Focus on essential anatomy of each species delivers just the right level of detail to help you establish a solid foundation for success. For the first time all images in the text appear in full color! This lifelike presentation clarifies anatomic concepts and structures in vibrant detail. Vivid full-color dissection photographs help you translate anatomic knowledge to clinical practice and confidently perform dissection procedures. A companion Evolve Resources website reinforces your understanding and helps you prepare for the NAVLEO board exam with 300 exam-style practice questions, a full-color electronic image collection, and more.

external horse anatomy: *Horse Anatomy Coloring Book* Anatomy Academy, 2020-11-25 Looking for an easy, fun and effective way to demystify the structures of the horse? Coloring equine physiology and its structures is the most effective way to study the anatomy and functions of the horse. You assimilate information and make visual associations with key terminology when coloring in the Horse Anatomy Book, all while having fun! Whether you are following a veterinary anatomy course or just interested in the horse and its structures, let this book guide you. While other books give you the anatomy terminology immediately, our book is designed for convenient self-testing by providing the answer keys on the back of the same page so you can get the most out of your studies. Plus, the detailed illustrations of the horse's anatomical systems in a large page design without back-to-back drawings will make you say goodbye to bleed-through! The Horse Anatomy Coloring Book features: The most effective way to skyrocket your equine anatomical knowledge, all while having fun! Full coverage of the major systems of the horse to provide context and reinforce visual recognition 50+ unique, easy-to-color illustrations of different anatomical sections of the horse with their terminology Large 8.5 by 11-inch single side paper so you can easily remove your coloring Self-quizzing for each illustration, with convenient same-page answer keys Discover the structures of the following sections of the horse: Skeletal system Muscular system Digestive system Cardiovascular system Nervous system Any many, many more... Joins thousands of others who have

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external horse anatomy: *Animal Anatomy for Artists* Eliot Goldfinger, 2004-03-11 From horses and cats to elephants and giraffes, this is the definitive reference on animal anatomy for painters, sculptors, and illustrators. 104 halftones, 281 line drawings, 100 photos.

external horse anatomy: **Anatomy of Equine Bodywork;the Equinology® Approach** Debranne Pattillo, 2018-07 Anatomical illustrations and painted horses support this comprehensive book on equine bodywork. Detailed explanations of bodywork techniques cater to all levels of experience. Muscle origin, insertion, function, innervation, problems associated with the particular muscles and how they may manifest in movement, structure and behavior are included in depth. All aspects of care including introduction to saddle fit, dentistry and the principles of rehabilitation are supported by leading veterinarians and specialists. Additional chapters include conformation, static and dynamic assessment, anatomy and physiology, movement and gaits make this 700+ page book a must have for any horse owner as well as those in the equine health care industry.

external horse anatomy: Outlines of Equine Anatomy John Henry Steel, 1876

external horse anatomy: **Discovering the Brain** National Academy of Sciences, Institute of Medicine, Sandra Ackerman, 1992-01-01 The brain ... There is no other part of the human anatomy that is so intriguing. How does it develop and function and why does it sometimes, tragically, degenerate? The answers are complex. In *Discovering the Brain*, science writer Sandra Ackerman cuts through the complexity to bring this vital topic to the public. The 1990s were declared the Decade of the Brain by former President Bush, and the neuroscience community responded with a host of new investigations and conferences. *Discovering the Brain* is based on the Institute of Medicine conference, Decade of the Brain: Frontiers in Neuroscience and Brain Research. *Discovering the Brain* is a field guide to the brain—an easy-to-read discussion of the brain's physical structure and where functions such as language and music appreciation lie. Ackerman examines: How electrical and chemical signals are conveyed in the brain. The mechanisms by which we see, hear, think, and pay attention—and how a gut feeling actually originates in the brain. Learning and memory retention, including parallels to computer memory and what they might tell us about our own mental capacity. Development of the brain throughout the life span, with a look at the aging brain. Ackerman provides an enlightening chapter on the connection between the brain's physical condition and various mental disorders and notes what progress can realistically be made toward the prevention and treatment of stroke and other ailments. Finally, she explores the potential for major advances during the Decade of the Brain, with a look at medical imaging techniques—what

various technologies can and cannot tell us and how the public and private sectors can contribute to continued advances in neuroscience. This highly readable volume will provide the public and policymakers and many scientists as well with a helpful guide to understanding the many discoveries that are sure to be announced throughout the Decade of the Brain.

external horse anatomy: Equine Locomotion Willem Back, Hilary M. Clayton, 2013-06-06 The first edition of *Equine Locomotion* has established itself as the book in the equine literature that discusses all aspects of equine locomotion and gait analysis, written by an international team of editors and contributors. The new edition continues this trend and gives the reader a complete picture of the horse in motion, at the same time including many recent findings in this area. The book begins with a history of man's association with the horse and then continues to discuss with comprehensive descriptions of the present state of knowledge beginning with the initiation of gait and ending with the more scientific area of computer modeling. In the new edition, the list of contributors continues to comprise of authors who are acknowledged experts in their subject areas and includes many new illustrations. •international team of editors and contributors, with leading experts from the USA, the Netherlands, Sweden and France (all centres of excellence for the study of equine locomotion) •editors are from two of the worlds leading locomotion centres - Utrecht and Michigan •highly illustrated with nearly 500 detailed line drawings and illustrations •covers all you will ever need to know about equine locomotion, gait analysis and much more •international team of editors and contributors, with leading experts from the USA, the Netherlands, Sweden and France (all centres of excellence for the study of equine locomotion) •editors are from two of the worlds leading locomotion centres - Utrecht and Michigan •highly illustrated with nearly 500 detailed line drawings and illustrations •covers all you will ever need to know about equine locomotion, gait analysis and much more

external horse anatomy: Posture and Performance Gillian Higgins, 2015-12-01 From the author of the hugely successful titles *How Your Horse Moves* and *Horse Anatomy for Performance*, comes a completely different training manual, also based on the *Horses Inside Out* philosophy: 'Understanding Anatomy Improves Performance and Reduces the Risk of Injury'. Divided into three main parts: Principles of Anatomical Riding and Training; Exercises for Horse and Rider; Troubleshooting, the book contains a wealth of practical tips and exercises broken down into easy to follow, well-illustrated steps showing how riders can improve their riding skills and potential. The author suggests ways to improve horses' physique, posture, flexibility, stability, core strength, performance and movement and how to reduce muscular and movement problems, and reduce the risk of injury.

external horse anatomy: *The Anatomy and Physiology of the Horse* George H. Dadd, 1857

external horse anatomy: *Equine Respiratory Medicine and Surgery* Bruce C. McGorum, Padraic M. Dixon, N. Edward Robinson, 2007 This title is directed primarily towards health care professionals outside of the United States. *Equine Respiratory Medicine and Surgery* provides up-to-date, in-depth coverage of the diagnosis and management of respiratory disorders in the horse. It discusses respiratory physiology and examination techniques, as well as a review of the medical and surgical problems that may be encountered, organized anatomically and progressing in logical fashion from the upper airways, larynx and sinuses, through the lower airways, the lungs, and diaphragm. Common conditions covered include infections, allergy, trauma, cysts, and tumors. High quality artwork, including relevant radiographic and ultrasonographic images, CAT scans, MRI images, and color photographs aid understanding and diagnosis. A truly international perspective includes guidelines for different geographic areas and racing jurisdictions. Features in-depth coverage of the role of the veterinarian in the management of athletic horses with respiratory tract diseases.

external horse anatomy: **The Complete Equine Veterinary Manual** Tony Pavford, Marcy Pavord, 2004-10-15 Covers equine preventative treatment, veterinary care, and first aid; provides an anatomical table of disease symptoms, causes, and treatments; and includes an alphabetized guide containing descriptions of approximately two hundred diseases and conditions.

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