

shockwave therapy for horses

Shockwave Therapy for Horses: A Revolutionary Approach to Equine Healing

Shockwave therapy for horses has rapidly gained recognition among veterinarians and horse owners as an innovative, non-invasive treatment method that promotes healing and alleviates pain in equine athletes. Whether your horse is dealing with tendon injuries, arthritis, or chronic pain, shockwave therapy offers a promising alternative to traditional treatments by harnessing the body's natural regenerative abilities. In this article, we'll dive deep into what shockwave therapy entails, how it works, its benefits, and what you can expect if you're considering this treatment for your equine companion.

What Is Shockwave Therapy for Horses?

Shockwave therapy is a cutting-edge treatment that uses high-energy sound waves to stimulate healing in damaged tissues. Originally developed for human medicine, particularly for kidney stones and musculoskeletal injuries, this technology has since been adapted for veterinary use, including equine care. The therapy involves delivering focused acoustic waves to the injured area, encouraging increased blood flow, tissue regeneration, and pain relief.

Unlike other modalities such as laser therapy or ultrasound, shockwave therapy penetrates deeper into tissues, making it especially effective for conditions involving bones, tendons, and ligaments. The treatment is typically performed using a handheld device that emits controlled shockwaves directly onto the affected site.

How Does Shockwave Therapy Work in Horses?

Understanding the science behind shockwave therapy for horses helps clarify why it has become a favored option for various equine injuries. When the acoustic waves reach the damaged tissue, they induce a series of biological responses:

Stimulating Circulation and Cell Repair

The shockwaves increase blood flow in the treated area, which brings in oxygen and essential nutrients necessary for tissue repair. This boost in circulation also helps remove waste products from the injury site, accelerating the healing process.

Promoting Collagen Production

Collagen is a vital protein that forms the structural framework of tendons and ligaments.

Shockwave therapy encourages fibroblast activity, the cells responsible for collagen synthesis, which helps strengthen and rebuild damaged connective tissues.

Reducing Pain and Inflammation

One of the standout benefits of shockwave therapy is its ability to modulate pain signals. The therapy triggers the release of endorphins—natural painkillers produced by the body—while also decreasing inflammation, providing relief to horses suffering from chronic or acute pain.

Common Conditions Treated with Shockwave Therapy

Veterinarians employ shockwave therapy for a wide range of equine conditions, especially those that respond slowly to conventional treatments or are prone to re-injury. Some of the most common uses include:

- **Tendon and ligament injuries:** Shockwave therapy helps repair strains, tears, and desmitis (inflammation of ligaments) by accelerating tissue regeneration.
- **Osteoarthritis and joint pain:** The therapy reduces inflammation and stimulates cartilage repair, improving mobility and comfort.
- **Bone fractures and healing:** It can be used to support bone remodeling and speed up recovery after fractures.
- **Navicular syndrome:** Shockwave therapy addresses pain linked to this complex hoof condition by enhancing blood flow and reducing inflammation in affected tissues.
- **Back and muscle pain:** The treatment relaxes tight muscles and eases chronic soreness, beneficial for performance horses.

The Procedure: What to Expect During Shockwave Therapy

If you're considering shockwave therapy for your horse, understanding the treatment process can help you feel more at ease and prepared.

Pre-Treatment Assessment

Your veterinarian will typically perform a thorough examination, including diagnostic imaging such as ultrasound or X-rays, to identify the exact location and extent of the injury. This ensures the shockwaves are targeted precisely where they're needed.

The Treatment Session

During the session, the horse is usually standing and may be lightly sedated if necessary to keep it calm and still. A gel is applied to the treatment area to improve the transmission of shockwaves. The handheld device is then placed against the skin, delivering acoustic pulses. Each session typically lasts 10 to 20 minutes, depending on the injury's size and severity.

Number of Sessions

Most horses require multiple treatments—usually between three to six sessions spaced a week apart—to achieve optimal results. Your veterinarian will tailor the treatment plan based on your horse's response and progress.

Benefits of Shockwave Therapy for Equine Athletes

Shockwave therapy offers several advantages over traditional treatment methods, making it an attractive option for horse owners and trainers:

- **Non-invasive and drug-free:** Unlike surgery or long-term medication, shockwave therapy avoids the risks associated with invasive procedures and drug side effects.
- **Stimulates natural healing:** By encouraging the body's own regenerative processes, it promotes more sustainable recovery.
- **Minimal downtime:** Horses often experience rapid pain relief and can return to light work shortly after treatment.
- **Versatility:** Effective for a broad range of musculoskeletal problems, making it suitable for various disciplines including racing, jumping, and dressage.
- **Cost-effective:** While not inexpensive, shockwave therapy can reduce overall rehabilitation time and costs by speeding up healing.

Potential Side Effects and Considerations

While shockwave therapy is generally safe, it's important to be aware of possible side effects and limitations:

Mild Discomfort

Some horses may show temporary sensitivity or mild swelling at the treatment site immediately following the session. This usually resolves within a day or two.

Not a Standalone Cure

Shockwave therapy is most effective when combined with appropriate rest, rehabilitation exercises, and other veterinary care. It's not a magic bullet but rather a valuable component of a comprehensive treatment plan.

Contraindications

Certain conditions, such as infections or tumors at the treatment site, may preclude the use of shockwave therapy. Pregnant mares and horses with bleeding disorders should also avoid this treatment.

Integrating Shockwave Therapy into Your Horse's Care Routine

To maximize the benefits of shockwave therapy, consider the following tips:

- **Work closely with your veterinarian:** A tailored treatment and rehabilitation plan ensures the best outcomes.
- **Monitor your horse's response:** Keep track of improvements and any adverse reactions to adjust the approach as needed.
- **Combine with physical therapy:** Controlled exercise and stretching can complement the healing stimulated by shockwave treatments.
- **Maintain proper nutrition:** Supporting tissue repair through a balanced diet rich in vitamins and minerals is essential.

Shockwave therapy for horses represents a significant advancement in equine veterinary medicine. By leveraging technology that stimulates the healing process naturally and effectively, it offers hope to horses struggling with injuries and chronic conditions. If your equine friend is facing a stubborn injury or pain that's limiting performance, discussing shockwave therapy with your veterinarian could open the door to quicker recovery and improved quality of life.

Frequently Asked Questions

What is shockwave therapy for horses?

Shockwave therapy for horses is a non-invasive treatment that uses acoustic waves to promote healing in injured tissues, reduce pain, and stimulate blood flow.

How does shockwave therapy benefit horses?

It helps accelerate the healing process of musculoskeletal injuries, reduces inflammation and pain, and improves tissue regeneration in horses.

What types of equine injuries can shockwave therapy treat?

Shockwave therapy is commonly used to treat tendon and ligament injuries, bone fractures, arthritis, back pain, and hoof-related issues in horses.

Is shockwave therapy safe for horses?

Yes, when performed by a trained veterinarian, shockwave therapy is generally safe with minimal side effects such as temporary soreness at the treatment site.

How many shockwave therapy sessions does a horse typically need?

The number of sessions varies based on the injury but usually ranges from 3 to 6 treatments spaced 1 to 2 weeks apart.

Can shockwave therapy be used alongside other treatments?

Yes, it is often combined with other therapies such as rest, medication, and physical rehabilitation to enhance recovery outcomes.

How quickly can owners expect to see results from

shockwave therapy?

Some horses show improvement within a few days, but full benefits often appear after multiple sessions over several weeks.

Are there any contraindications for shockwave therapy in horses?

Shockwave therapy is not recommended for horses with infections, cancerous lesions, or over areas with open wounds or fractures that are not stable.

Does shockwave therapy cause pain or discomfort to horses?

Most horses tolerate the treatment well, though some may experience mild discomfort during the procedure or soreness afterward.

How much does shockwave therapy for horses typically cost?

Costs vary depending on location and severity of injury but generally range from \$200 to \$500 per session.

Additional Resources

Shockwave Therapy for Horses: An In-Depth Review of Its Applications and Effectiveness

Shockwave therapy for horses has emerged as a prominent treatment modality within equine veterinary medicine, particularly for managing musculoskeletal disorders and soft tissue injuries. As the equine industry continues to evolve with advancements in therapeutic techniques, shockwave therapy offers a non-invasive option aimed at promoting healing and alleviating pain in affected horses. This article explores the scientific basis, clinical applications, benefits, and limitations of shockwave therapy for equine patients, providing a comprehensive understanding for veterinarians, trainers, and horse owners alike.

Understanding Shockwave Therapy in Equine Medicine

Shockwave therapy, also known as extracorporeal shockwave therapy (ESWT), involves the delivery of high-energy acoustic waves to targeted areas of tissue. Originally developed for human medicine, particularly for breaking down kidney stones, shockwave therapy has been adapted for veterinary use over the past two decades. In horses, it primarily targets chronic tendon and ligament injuries, osteoarthritis, and other soft tissue

pathologies.

The therapy operates by generating mechanical pulses that stimulate cellular activity and enhance blood circulation within the treated region. This biological response facilitates tissue regeneration and accelerates the healing process. Additionally, shockwave therapy is thought to modulate pain by desensitizing nerve endings and reducing inflammation.

Types of Shockwave Devices and Treatment Protocols

There are two main types of shockwave devices used in equine therapy: focused and radial. Focused shockwave devices deliver energy deep into the tissue with precision, making them suitable for treating ligament tears and joint-related conditions. Radial devices emit waves at a more superficial level, ideal for soft tissue inflammation and muscle soreness.

Treatment protocols vary based on the injury's severity and location but generally involve multiple sessions spaced over several weeks. Each session lasts between 5 to 15 minutes, during which the horse may require sedation to minimize discomfort and ensure precise application.

Clinical Applications and Effectiveness

Shockwave therapy for horses is most commonly applied to conditions such as:

- Tendonitis and tendon tears
- Desmitis (ligament inflammation)
- Osteoarthritis in joints
- Bone fractures and remodeling
- Myofascial trigger points and muscle injuries

Research and clinical case studies have demonstrated promising outcomes, particularly in chronic tendon injuries which historically posed therapeutic challenges. For instance, a 2018 study published in the Equine Veterinary Journal indicated that horses treated with ESWT showed improved tendon fiber organization and reduced lameness compared to control groups receiving conventional therapies.

Moreover, shockwave therapy is increasingly used as an adjunct to traditional treatments such as rest, anti-inflammatory medications, and physical rehabilitation. When combined, these approaches can enhance recovery rates and reduce the risk of reinjury.

Comparisons with Other Treatment Modalities

Compared to corticosteroid injections or surgical interventions, shockwave therapy offers a non-invasive alternative with fewer side effects and a lower risk profile. Corticosteroids, while effective at reducing inflammation, may weaken tendon structures if overused, potentially increasing the chance of rupture. Surgery, on the other hand, entails prolonged recovery times and carries inherent procedural risks.

In contrast, shockwave therapy can be administered repeatedly with minimal complications. However, it is not a panacea; its efficacy depends on accurate diagnosis, appropriate case selection, and integration within a broader treatment plan.

Benefits and Drawbacks of Shockwave Therapy for Horses

Advantages

- **Non-Invasive Treatment:** Shockwave therapy avoids surgical risks and reduces the need for long-term medication.
- **Accelerated Healing:** Promotes tissue regeneration and enhances blood flow to damaged areas.
- **Pain Management:** Effectively decreases pain and improves comfort, facilitating earlier return to activity.
- **Versatility:** Applicable to various musculoskeletal conditions, including chronic and acute injuries.
- **Reduced Recovery Time:** Often shortens rehabilitation compared to traditional therapies alone.

Limitations and Considerations

- **Variable Outcomes:** Not all horses respond equally; some cases may show minimal improvement.
- **Cost:** Equipment and treatment sessions can be expensive, potentially limiting accessibility.

- **Need for Sedation:** Some horses require sedation during treatment, introducing minor risks.
- **Limited Evidence for Certain Conditions:** While effective for tendon injuries, evidence for other uses like osteoarthritis is still emerging.
- **Contraindications:** Should not be used over growth plates in young horses or areas with active infections or tumors.

Current Trends and Future Directions

The adoption of shockwave therapy in equine practice continues to grow, driven by both empirical evidence and positive anecdotal experiences. Innovations in device technology, such as portable units and enhanced imaging guidance, are making treatments more precise and accessible in field settings.

Ongoing research aims to refine treatment protocols, optimize energy settings, and combine shockwave with other regenerative therapies like platelet-rich plasma (PRP) or stem cell injections. Such multimodal approaches could further enhance healing outcomes and expand the range of treatable conditions.

Furthermore, veterinary professionals emphasize the importance of individualized treatment plans, recognizing that factors like injury chronicity, horse age, and workload impact therapy success. Integrating objective diagnostic tools such as ultrasound and MRI aids in monitoring healing progress post-therapy.

Shockwave therapy for horses represents a significant advancement in managing equine musculoskeletal health. While not universally applicable, its ability to facilitate non-invasive healing and pain relief offers tangible benefits in equine sports medicine and rehabilitation. As research deepens and clinical experience broadens, shockwave therapy is poised to become a staple in comprehensive equine healthcare strategies.

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topics in areas that have seen significant advances in the last 5 years. Content emphasizes the practical aspects of diagnosis and treatment and provides details for therapeutic regimens. Arranged primarily by body system, the text also features sections on infectious diseases, foal diseases, nutrition, and toxicology. With this cutting-edge information all in one reliable source, you'll increase your awareness of key therapies in less time. Focuses on the latest therapy for equine diseases, emphasizing detailed discussions and the most reliable and current information. Organized approach to important problems brings you up-to-date, practical information organized by organ system. Concise, easy-to-read format saves you time; most articles provide essential information in 2 to 5 pages. Renowned group of contributors share their expertise on the timely topics you need to know about. Photos enhance information. Line drawings illustrate important concepts. NEW! Emerging topics include issues such as disinfection in equine hospitals; complimentary modalities to traditional medicine; chemotherapy for oncological diseases; and protecting yourself with medical records. Each section has NEW topics including medical management of critically ill foals in the field; oral cavity masses; radiology of sinuses and teeth; biochemical tests for myocardial injury; protozoal myeloencephalitis update; management of bladder uroliths; skin grafting; managing the high-risk pregnancy; shock wave therapy; and more!

shockwave therapy for horses: Diagnosis and Management of Lameness in the Horse

Michael W. Ross, Sue J. Dyson, 2010-10-29 Covering many different diagnostic tools, this essential resource explores both traditional treatments and alternative therapies for conditions that can cause gait abnormalities in horses. Broader in scope than any other book of its kind, this edition describes equine sporting activities and specific lameness conditions in major sport horse types, and includes up-to-date information on all imaging modalities. This title includes additional digital media when purchased in print format. For this digital book edition, media content may not be included. - Cutting-edge information on diagnostic application for computed tomography and magnetic resonance imaging includes the most comprehensive section available on MRI in the live horse. - Coverage of traditional treatment modalities also includes many aspects of alternative therapy, with a practical and realistic perspective on prognosis. - An examination of the various types of horses used in sports describes the lameness conditions to which each horse type is particularly prone, as well as differences in prognosis. - Guidelines on how to proceed when a diagnosis cannot easily be reached help you manage conditions when faced with the limitations of current diagnostic capabilities. - Clinical examination and diagnostic analgesia are given a special emphasis. - Practical, hands-on information covers a wide range of horse types from around the world. - A global perspective is provided by a team of international authors, editors, and contributors. - A full-color insert shows thermography images. - Updated chapters include the most current information on topics such as MRI, foot pain, stem cell therapy, and shock wave treatment. - Two new chapters include The Biomechanics of the Equine Limb and its Effect on Lameness and Clinical Use of Stem 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.

shockwave therapy for horses: Equine Sports Medicine and Surgery - E-Book Kenneth W Hinchcliff, Andris J. Kaneps, Raymond J. Geor, Emmanuelle Van Erck-Westergren, 2023-12-15 Get evidence-based guidelines to keeping athletic horses healthy and physically fit! Equine Sports Medicine and Surgery, 3rd Edition provides a comprehensive guide to exercise physiology and training within a clinical context, along with a detailed review of all diseases affecting horses participating in racing and competition. Not only does this text discuss the physiological responses of each body system to exercise, but it covers nutritional support, the prevention of exercise-induced disorders and lameness, and modification of training regimens. New to this edition are topics such

as drug effects on performance and the use of cloud-based technologies for monitoring performance, as well as new content on exercise physiology, welfare, conditioning, farriery, behavior, and vision. Written by an expert team of international authors, each print purchase of this authoritative, all-in-one resource comes with an ebook! - NEW! Chapters in this edition include: - History of Equine Exercise Physiology - Welfare of Equine Athletes in Sport and the Social License to Operate - The Connected Horse (focusing on innovative, cloud-based technologies used to monitor athletic horses) - Conditioning of the Equine Athlete - Principles of Sport Horse Farriery - Epidemiology and Control of Infectious Respiratory Disease in Populations of Athletic Horses - Behavior and Behavioral Abnormalities in Athletic Horses - Vision and Disorders of Vision in Performance Horses - Detection of Drug Use in Athletic Horses - Drug Effects on Performance of the Equine Athlete - Comprehensive coverage is based on sound research and evidence-based practice and provides an understanding of the physiologic processes underlying the responses of horses to exercise and physical conditioning — from musculoskeletal and respiratory disorders to nutrition and physical rehabilitation. - International perspective on equine athletics includes guidelines pertinent to different geographic areas and racing jurisdictions. - More than 1,000 images include medical illustrations and clinical photos depicting equine anatomy, testing, and treatment scenarios, as well as radiographic, ultrasonographic, CAT, and MRI imaging to support understanding and diagnosis. - Coverage of abnormalities of the upper airway is now divided into two chapters: Disease of the Nasopharynx and Diseases of the Larynx and Trachea. - Coverage of diseases of the heart is divided into two chapters: Arrhythmias and Abnormalities of the Cardiac Conduction System and Structural Heart Disease, Cardiomyopathy, and Diseases of Large Vessels. - eBook version, included with print purchase, gives you the power to access all the text, figures, and references, with the ability to search, customize your content, make notes and highlights, and have content read aloud.

shockwave therapy for horses: Rehabilitation of the Equine Athlete, An Issue of Veterinary Clinics of North America: Equine Practice Melissa R. King, Elizabeth J. Davidson, 2016-04-20 Drs. Melissa King and Elizabeth Davidson have put together a comprehensive list of topics on the Rehabilitation of the Equine Athlete. Articles include: Principles and Practical Applications of Equine Rehabilitation, Physiotherapy Assessment, Biomechanics of Rehabilitation, Joint Mobilization/Manual Therapy, Hydrotherapy, Advancements in the Rehabilitation of Bone Injuries, Returning to a High Level of Performance Following a Joint Injury, Advancements in the Rehabilitation of Tendon and Ligament Injuries, Rehabilitating Equine Athletes with Muscle Injuries, and more!

shockwave therapy for horses: Adams and Stashak's Lameness in Horses Gary M. Baxter, 2020-06-30 Die vollständige aktualisierte 7. Auflage dieses Klassikers und renommierten Referenzwerks zu Lahmheit bei Pferden Die Neuauflage des praxisorientierten Fachbuchs zu Lahmheit bei Pferden wurde durchgängig aktualisiert und enthält nun noch umfassendere Informationen zur objektiven Beurteilung von Lahmheit, zu sportmedizinischen Aspekten, Rehabilitation, Behandlungsoptionen und Imaging-Techniken. Das Buch enthält Beiträge von weltweit führenden Spezialisten des Fachgebiets und beschäftigt sich mit der funktionalen Anatomie, Untersuchung, bildgebenden Verfahren und Lahmheit der distalen und proximalen Extremitäten, dem Achsenskelett, Muskel- und Knochenerkrankungen, Therapien, nutzungsbezogenen Erkrankungen, Lahmheit bei Jungpferden und Hufbeschlag. Mehr als 1.700 Abbildungen erläutern die Textinhalte und machen dieses Buch zu einem weitreichenden Referenzwerk zu sämtlichen Aspekten der Lahmheit bei Pferden. Auch in der 7. Auflage ist Adams and Stashak's Lameness in Horses das Standardwerk für Veterinärfachärzte, Veterinärmediziner, Klinker und Studenten. Auf der begleitenden Website stehen eine Fülle von Videos zur Verfügung die die Untersuchungsmethoden Schritt für Schritt sowie ausgewählte Anästhesieverfahren von Nerven und Gelenken zeigen. - Vollständig aktualisierte Neuauflage dieses Standardwerks zu Lahmheit bei Pferden. - Bietet noch mehr Informationen zur objektiven Beurteilung von Lahmheit, zu sportmedizinischen Aspekten, Rehabilitation, Behandlungsoptionen und Imaging-Techniken. - Enthält mehr als 1.700 Abbildungen, die die Textinhalte erläutern. - Die Autoren sind weltweit

führende Experten des Fachgebiets. - Begleitende Website mit Videos und Schritt-für-Schritt-Anleitungen. Adams and Stashak's Lameness in Horses ist ein Muss, das in keiner Handbibliothek von Veterinärmediziner*innen für Großtiere und Pferde, Veterinärtechniker*innen für Pferde und Studenten, die sich mit Lahmheit bei Pferden beschäftigen, fehlen darf.

shockwave therapy for horses: Physical Rehabilitation for Veterinary Technicians and Nurses Mary Ellen Goldberg, Julia E. Tomlinson, 2024-02-21 Physical Rehabilitation for Veterinary Technicians and Nurses A must-own guide for veterinary professionals specializing in physical rehab Physical rehabilitation is a vital aspect of veterinary medicine. A successful program of rehabilitation is one of the most important determinants of long-term patient outcomes after surgery or serious illness, and veterinary patients are no exception. Veterinary technicians and nurses specializing in physical rehabilitation therefore constitute a potentially critical component of any veterinary practice and/or care team. Physical Rehabilitation for Veterinary Technicians and Nurses provides a clear, accessible overview of this subject for prospective veterinary rehabilitation professionals. Brimming with insights stemming from both research and practical experience, and now updated to reflect a wave of new research since the first edition, this book promises to equip readers with the knowledge required to make themselves indispensable in veterinary practice. Readers of the second edition of Physical Rehabilitation for Veterinary Technicians and Nurses will also find: Practical tips and tricks connected to the role of a technician on a rehabilitation team New or updated coverage of subjects including canine fitness, shockwave protocols, underwater treadmill exercises, and many more Guidance ideal for training programs and certifications from the most important institutes and technician schools Physical Rehabilitation for Veterinary Technicians and Nurses is ideal as an introduction for prospective technicians and nurses, as well as a reference handbook for practicing veterinary technicians and nurses.

shockwave therapy for horses: Tendon Healing: A Comprehensive Guide for Horse Owners and Trainers Pasquale De Marco, 2025-04-05 In the world of equine athletics, tendon injuries are a dreaded reality, casting a shadow over the aspirations of horse owners, trainers, and veterinarians alike. As intricate and resilient as they are, tendons, the robust cords connecting muscles to bones, are susceptible to damage under the immense forces generated during athletic endeavors. Tendon Healing: A Comprehensive Guide for Horse Owners and Trainers emerges as a beacon of knowledge, guiding readers through the complexities of tendon injuries in horses. With contributions from leading equine veterinarians and experts, this comprehensive guide unveils the causes, symptoms, diagnosis, treatment, and prevention of these debilitating conditions. Delving into the intricacies of tendon healing, this book unravels the biological cascade that leads to tissue repair and remodeling. It emphasizes the significance of nutrition, proper hoof care, and a meticulously crafted rehabilitation program in optimizing healing outcomes. Prevention, as they say, is worth a pound of cure. Tendon Healing: A Comprehensive Guide for Horse Owners and Trainers dedicates a significant portion to addressing the preventive measures that can significantly reduce the risk of tendon injuries. From implementing sound training practices to ensuring proper nutrition and hoof care, this book provides a roadmap for proactive tendon health management. For cases where tendon injuries do occur, Tendon Healing: A Comprehensive Guide for Horse Owners and Trainers offers a thorough exploration of the available treatment options. Both medical and surgical interventions are meticulously detailed, along with their respective indications, advantages, and potential complications. With its reader-friendly approach and wealth of practical guidance, Tendon Healing: A Comprehensive Guide for Horse Owners and Trainers empowers horse owners, trainers, and professionals involved in equine care to make informed decisions regarding the management of tendon injuries. It serves as an invaluable resource for preserving the health and performance of these majestic creatures. If you like this book, write a review!

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surgical treatments. With contributions from nationally and internationally recognized pioneers in the field, this groundbreaking text offers an overview of joint structure and function and translates the latest information on basic joint pathobiology into practical application for the clinician. Step-by-step guidance on injection techniques and medications, along with a survey of practical arthroscopic surgery and developments, make it a truly indispensable reference for all equine veterinarians treating sports and racing horses. UNIQUE! Unprecedented, state-of-the-art coverage of the pathology, pathogenesis, and clinical diagnosis of traumatic and degenerative joint disease, so you stay in the know. Section on general principles of joint pathobiology provides the background to evaluate and interpret the diagnostic and surgical aspects of disease. Explores treatments for traumatic arthritis and osteoarthritis and other joint entities, offering a broad range of options and up-to-date recommendations for problematic decisions. Addresses recent advances and results in arthroscopic surgery for the acute injury and results including fragment removal, fragment fixation, and synovectomy. Discussion of current research provides insight for difficult cases and calls out the directions in which future arthritis research is headed. More than 325 photographs and line drawings help engage and guide you through procedures and treatments. NEW! Full color throughout with new artwork and a range of new images including radiographs showing both the normal and the disease progression. NEW! Practical step-by-step approach demonstrates the authors' preferred injections methods and shows underlying anatomic correlations. NEW and UPDATED! Restructured and substantially revised to emphasize treatment options, making it a practical, concise, and accessible reference and text. NEW! All-new chapters on drugs and new biological therapies, including stem cells, IRAP, and PRP and thoroughly updated coverage of HA and corticosteroids. NEW! Covers advanced imaging, giving you the latest information available. NEW! Expert advice from Dr. McIlwraith, three new co-editors, and new contributors - all distinguished specialists in the field of joint disease in the horse. Lameness and surgical clinicians describe how to approach the various, specific disease conditions. Equine specific radiologists provide their opinions on the best imaging techniques for defining the disease and making interpretations.

shockwave therapy for horses: Integrative Medicine, An Issue of Veterinary Clinics of North America: Equine Practice, E-Book Kevin K. Haussler, 2022-11-07 In this issue of Veterinary Clinics: Equine Practice, guest editor Kevin K. Haussler brings his considerable expertise to the topic of Integrative Medicine. - Provides in-depth reviews on the latest updates in Integrative Medicine, providing actionable insights for veterinary practice. - Presents the latest information on this timely, focused topic under the leadership of experienced editors in the field; Authors synthesize and distill the latest research and practice guidelines to create these timely topic-based reviews.

shockwave therapy for horses: Fractures in the Horse Ian Wright, 2022-05-02 Fractures in the Horse ist ein umfassendes zeitgemäßes Referenzwerk zu Frakturen beim Pferd. In den ersten 15 Kapiteln werden Grundlagen behandelt wie: * Struktur und Funktion der Knochen, physiologische Aspekte der Anpassung, Stressschutz und ultrastrukturelle Morphologie * Die Pathophysiologie von Knochenbrüchen, insbesondere die wesentlichen Merkmale von Knochenversagen, verschiedene Brucharten, Belastungsmerkmale, Spannung und Dehnung. * Die Epidemiologie von Frakturen mit geographischer, disziplinärer und pferdespezifischer Inzidenz, Risikofaktoren und Varianten sowie Vorhersagbarkeit. * Bildgebende diagnostische Verfahren wie Röntgen, Ultraschall, Szintigraphie, Magnetresonanztomographie, Computertomographie und Positronenemissionstomographie. * Behandlung akuter Frakturen, präoperative Planung, Anästhesie und Analgesie, Versorgung von stehenden Frakturen und Umgang mit Komplikationen. * Chirurgische Ausrüstung und Reparaturtechniken, externe Koaptation und Rehabilitation. In den 22 weiteren Kapiteln werden sämtliche klinisch relevanten Frakturen behandelt. Beschrieben werden jeweils die relevante Anatomie, die Frakturtypen, Inzidenz und Ursachen, klinische Merkmale und Erscheinungsformen, Bildgebung und Diagnose, Behandlung akuter Frakturen sowie Behandlungsoptionen und -techniken. Zudem enthalten die Kapitel eine Dokumentation der verfügbaren Ergebnisse sowie durchgängig Empfehlungen des Autors. Fractures in the Horse ist ein aktuelles Referenzwerk für

alle, die sich mit Pferdemedizin beschäftigen. Es ist als Handbuch für Chirurgen, Diagnostiker, Assistenzärzte und Ärzte in Ausbildung geeignet. Tierärzten dient es als Nachschlagewerk für die Behandlung von Frakturen und vermuteten Frakturen in der Praxis, bei der Beratung der Tierhalter und der Entscheidungsfindung. Einzelne Kapitel sind auch für Anästhesisten, Chirurgen und klinisches Personal, das für die bildgebende Diagnostik zuständig ist, von Interesse.

shockwave therapy for horses: *Advances in the Diagnosis and Treatment of Equine Tendon and Ligament Injuries, An Issue of Veterinary Clinics of North America: Equine Practice* Sushmitha Durgam, 2025-08-28 In this issue of Veterinary Clinics of North America: Equine Practice, guest editor Dr. Sushmitha Durgam brings her considerable expertise to the topic of Equine Tendon and Ligament Injuries. Top experts provide comprehensive and up-to-date guidance on tendon/ligament structure/extracellular matrix composition and the role in tendon/ligament function. This issue covers injury mechanisms and biological process that warrant considerations for incorporating and developing therapeutics, cutting-edge diagnostic tools and modalities, and current medical and surgical therapies and rehabilitation strategies for managing tendon and ligament injuries. - Contains 13 relevant, practice-oriented topics including structure-function relationships in the aging superficial digital flexor tendon: implications for injury; current and emerging quantitative imaging modalities for equine tendon/ligament injury diagnosis; techniques for equine tendon tenorrhaphy; evidence related to intratendinous/intrasynovial anti-inflammatories on tendon/ligament homeostasis and healing; and more - Provides in-depth clinical reviews on equine tendon and ligament injuries, offering actionable insights for clinical practice - Presents the latest information on this timely, focused topic under the leadership of experienced editors in the field. Authors synthesize and distill the latest research and practice guidelines to create clinically significant, topic-based reviews

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Melbourne on behalf of Australian Veterinary Journal, March 2015 Invaluable protocols for conservative and postoperative treatment ensure the successful healing of dogs and their return to full mobility. Printable medical record forms on the companion website, including client information worksheets, referral forms, orthopedic evaluation forms, and more, can be customized for your veterinary practice. Six completely updated chapters on exercising dogs define the basic principles of aquatic and land-based exercise and how they may be applied to dogs, as well as how physical therapy professionals can adapt common human exercises to dogs. Numerous chapters on therapeutic modalities, including therapeutic lasers, illustrate how physical therapy professionals can adapt common human modalities to dogs. Physical examination chapters offer comprehensive information on orthopedics, neurology, and rehabilitation. New chapters keep you up to date with coverage of joint mobilization, rehabilitation of the athletic patient, biomechanics of rehabilitation, and physical therapy for wound care. A companion website includes 40 narrated video clips of various modalities and exercises used to correct problems with lameness, hip disorders, and gait analysis, plus downloadable and printable orthopedic, neurologic, and physical rehabilitation forms, in addition to a client information worksheet, referral form and letter, and a daily flowsheet form.

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