FOCUS 3

a. Advanced analytics b. Imaging modalities c. Intreptation of clinical examination d. Novel diagnostic techniques e. Behavior

Publications and Presentations

Textbook Chapters

Nelson B, Goodrich L. Elbow and shoulder. Hinchcliff, Kaneps, and Goer, Equine Sports Medicine and Surgery, 3rd edition. Saunders Elsevier. Accepted.

Refereed Publications

Acutt E, Zhou T, Mama K, Nelson B, Selberg K, Barrett M. Contrast administration via ultrasound-guided injection of the cranial tibial artery results in contrast enhancement of the soft tissues of the metatarsus in horses undergoing CT. Veterinary Radiolology: Ultrasound 2023 September; 64(5):904-912. Epub July. PMID: 37406620.

Barrett M, Goorchenko G, Frisbie D. Comparison of Ultrasound and Magnetic Resonance Imaging for Identifying Soft Tissue Abnormalities in the Palmar Aspect of the Equine Digit. Animals (Basel) 2023 July; 13(14):2328. PMID: 37508105.

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Hinkle F, Selberg K, Frisbie D, Barrett M. Radiographic changes of the proximal third metatarsal bone do not Barton C, Hughes K, Cowan C, Nout-Lomas Y, Nelson B. predict presence or severity of proximal suspensory An Unusual Cause of Femoral Nerve Paresis in a Horse: desmopathy in a predominately Quarter Horse Disseminated B Cell Lymphoma With Plasmacytoid population. Equine Veterinary Journal 2023 January; Differentiation and Direct Neuronal Invasion. Journal of 55(1):24-32. PMID: 35092318. Equine Veterinary Science 2023 July; 126:104502. Epub April. PMID: 37120116.

Improve the Detection of Neuro-Musculoskeletal Disease

> Bisazza K, Nelson B, Sikes K, Nakamura L, Easley J. Computed Tomography Provides Improved Quantification of Trabecular Lumbar Spine Bone Loss Compared to Dual-Energy X-Ray Absorptiometry in Ovariectomized Sheep. Journal of Bone and Mineral Research Plus 2023 August; 7(12):e10807. PMID: 38130759.

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Esselman A, Johnson S, Frisbie D, Barrett M, Zhou T, Contino E. Substantial variability exists in the interpretation of survey radiographs among equine veterinarians. Equine Veterinary Journal. In Press.

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Leal R, Lambrechts N, Crowley J, Griffin J 4th, Karnia J, Torres B, Maritato K, Kieves N, Duerr F. Comparison of radiographic scoring systems for assessment of bone healing after tibial plateau leveling osteotomy in dogs. Frontiers Veterinary Science 2023 April; 10:1147386. PMID: 37089406.

Luedke L, Mohammed H, Ducharme N. Decreasing polymethyl methacrylate bone cement concentration extends working and setting times in vitro. American Journal of Veterinary Research 2023 September; 84(12). PMID: 37739393.

Stewart H, Easley J, Selberg K, Puttlitz C, Nakamura L, Johnson J, Kawcak C. Experimental models of bone marrow lesions in ovine femoral condyles. Veterinary Surgery 2023 February; 52(2):284–298. PMID: 36523261.

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Research Abstracts, Presentations, Proceedings

Barton C, Hector R, Hendrickson D, Kawcak C, Nelson B, Goodrich L. Fasting horses perioperatively decreases manure production and increases time to manure output post-operatively. American College of Veterinary Surgeons Surgical Summit. Louisville, KY.

Bisazza K, Nelson B, Sikes K, Easley J. Quantitative Computed Tomography Shows Sustained Trabecular Bone Density Loss Compared To Dual X-ray Absorptiometry In A Sheep Model Of Osteoporosis. Orthopaedic Research Society. Dallas, TX. Poster.

Contino E, Kawcak C and Daglish J. The prevalence of lameness in FEI equine athletes and its correlation to performance. Proceedings 69th Annual Convention American Association of Equine Practitioners. San Diego, CA. **Crawford L, Moore B, Haussler K, Nout-Lomas Y, Story M, Aboellail T.** Molecular investigations of ganglionitis in performance horses with clinical signs of axial skeletal pain. Annual Meeting of the American College of Veterinary Pathologists. Chicago, IL.

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Johnson J, Gadomski B, Labus K, Stewart H, Nelson B, Seim H, Regan D, von Stade D, Kelly C, Horne P, Gall K, Easley J. Novel 3D Printed Lattice Structure Titanium Cages Evaluated In An Ovine Model Of Interbody Fusion. Orthopaedic Research Society. Dallas, TX. Poster.

Haussler K. a. Applied functional anatomy of the equine axial skeleton; b. Functional anatomy of the equine skin and fascia; c. Veterinary chiropractic principles, terminology, and biomechanics; d. Examination of the head and cervical spine; e. Pathology of the equine spine and pelvis; f. Examination of the thoracolumbar spine; g. Examination of the sacropelvic and sacrocaudal regions. Focus on the Equine Spine: Base Course (Part 1). Kootwijkerbroek, The Netherlands.

Haussler K. a. Functional anatomy review: Head, neck & cranial thoracic regions; b. Functional anatomy review: Trunk and pelvic regions; c. Equine spinal examination review. Equine Rehabilitation Certificate Program. College of Veterinary Medicine, University of Tennessee, Knoxville, TN.

Haussler K. a. Practical training–Head and neck techniques; b. Understanding and differentiating pain behaviors in horses. The Art & Science of Spinal Manipulation Therapy for The Advanced Practitioner, Applied Biomechanics and Rehabilitation Academy (ABnR), Lüsche, Germany.

Haussler K. a. Introduction and course objectives; b. Cervical anatomy; c. Cervical biomechanics; d. Cervical pathology; e. Case presentations; f. Physical examination; g. Medical and surgical treatment; h. Cervical rehabilitation. Equine Neck Pain and Dysfunction, Equine-Librium College, Plettenberg Bay, South Africa.

Haussler K. a. Functional anatomy and clinical biomechanics of the equine cervical spine; b. Spinal pathology of the cervical and cervicothoracic regions; c. Soft tissue and Joint mobilization of the cervical region and cervicothoracic junction; d. Joint mobilization of the cervical region. Proceedings of the Equine-Librium College, Symposium on Equine Neck Pain and Dysfunction. Plettenberg Bay, South Africa. King M. Down to the Core: An In-Depth Examination of Equine Core Fitness. Platinum Performance. Webinar.

King M. Influence of Lameness of Multifidus Muscle, Implications for Back Function. Online Pet Health. Virtual Lecture.

King M. Influence of Lameness of Multifidus Muscle, Implications for Back Function. American College of Veterinary Sports Medicine and Rehabilitation Symposium. Charlotte, NC.

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Nout-Lomas Y. Neurological examination in Large Animals. AVMA, Denver, CO.

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Nout-Lomas Y. Diagnosis, Treatment and Management of Equine Neurologic Disorders for the Field Practitioner. Merck Animal Health Intervet Canada Corp, Canada.

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Smanik L, Selberg K, Kawcak C, Stewart H, Goodrich

L. Computed tomography and fluoroscopy versus radiographic guidance for internal fixation of simulated dorsomedial-plantarolateral central tarsal bone fractures in non-racehorses. Veterinary Orthopaedic Society Conference. Big Sky, Montana.

Solum G, Johnson S, Contino E. Characterization of radiographic lesions in western performance horses with lameness localized to the fetlock joint. Proceedings 69th Annual Convention American Association of Equine Practitioners.

Story M. Diagnosing and managing back pain, including surgery. Facilitator. American Association of Equine Practitioners Annual Convention. Virtual.

Story M. Diagnosing and managing back pain, including surgery, Facilitator. American Association of Equine Practitioners Annual Convention. San Diego, CA.

Story M. Cervical pain in the horse; what we know and do not know. American College of Veterinary Surgeons. Lexington, KY.

Story M. Arriving at a diagnosis of primary neck pain. Locomotion in Practice. Utrecht University, The Netherlands.

Story M. The role of feed and supplements in joint homeostasis. Locomotion in Practice. Utrecht University, The Netherlands.

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