

2021 Refereed Publications

1. **Temple-Wong MM, Raleigh AR, Frisbie DD, Sah RL, McIlwraith CW.** Effects of an articular cartilage lubrication with a viscosupplement in vitro and in vivo following osteochondral fractures in horses. *Am J Vet Res.* 2021 Aug;82(8):611-618. PMID: 34296945.
2. **Acutt EV, Contino EK, Frisbie DD, Barrett MF.** Deep digital flexor tendon lesions in the pastern are associated with the presence of distal tendinopathy. *Equine Vet J.* 2021 May 29. PMID: 34050982.
3. **Johnson SA, Valdés-Martínez A, Turk PJ, Wayne McIlwraith C, Barrett MF, McGilvray KC, Frisbie DD.** Longitudinal tendon healing assessed with multi-modality advanced imaging and tissue analysis. *Equine Vet J.* 2021 Jun 8. PMID: 34101888.
4. **Story MR, Haussler KK, Nout-Lomas YS, Aboellail TA, Kawcak CE, Barrett MF, Frisbie DD, McIlwraith CW.** Equine Cervical Pain and Dysfunction: Pathology, Diagnosis and Treatment. *Animals (Basel).* 2021 Feb PMID: 33562089; PMCID: PMC7915466.
5. **Estrada McDermott J, Pezzanite L, Goodrich L, Santangelo K, Chow L, Dow S, Wheat W.** Role of Innate Immunity in Initiation and Progression of Osteoarthritis, with Emphasis on Horses. *Animals (Basel).* 2021 Nov 13;11(11):3247. PMID: 34827979; PMCID: PMC8614551.
6. **Haussler KK, Hesback AL, Romano L, Goff L, Bergh A.** A systematic review of musculoskeletal mobilization and manipulation techniques used in veterinary medicine. *Animals* 11; 2787.
7. **Stewart HL, Kawcak CE, Inscoe CR, Puett C, Lee YZ, Lu J, Zhou OZ, Selberg KT.** Comparative evaluation of tomosynthesis, computed tomography, and magnetic resonance imaging findings for metacarpophalangeal joints from equine cadavers. *Am J Vet Res.* 2021 Nov;82(11):872-879.
8. **Stewart HL, Siewerdsen JH, Nelson BB, Kawcak CE.** Use of cone-beam computed tomography for advanced imaging of the equine patient. *Equine Vet J.* 2021 Sep;53(5):872-885.
9. **Nelson BB, Stewart RC, Kawcak CE, Freedman JD, Patwa AN, Snyder BD, Goodrich LR, Grinstaff MW.** Quantitative evaluation of equine articular cartilage using cationic contrast-enhanced computed tomography. *Cartilage,* 2021 Apr;12(2):211-221.
10. **Nelson BB, Lawless SP, McIlwraith CW.** Slab fractures of the third carpal bone involving both radial and intermediate facets and outcomes after surgical repair in racing Quarter Horses. *Equine Vet J.* Accepted. 2021.
11. **Ford MG, Nelson BB, Ford TS, Souza CRS, Easley JT, Hackett ES.** Complications in foals undergoing surgical repair for uroperitoneum. Accepted. *J Equine Vet Sci* December 2021.
12. **Ellis KL, King MR, Seabaugh K.** Retrospective analysis of horses with ultrasound evaluation of the sacroiliac

region and response to sacroiliac joint injection: 42 cases. *J Equine Vet Sci.* 2021; 102

2020 Refereed Publications

1. **Hoaglund EL, Barrett MF.** Magnetic resonance imaging changes of the navicular bursa following navicular bursoscopy in seven horses. *Equine Veterinary Education.* 2020
2. **Ellis K, Barrett MF, Selberg K, Frisbie D.** Magnetic Resonance Imaging and histopathological evaluation of equine oblique sesamoidean ligaments. *Equine Vet J.* Accepted Author Manuscript.
3. **Koch DW, Barrett MF, Jackman BR, MacDonald D, Goodrich LR.** Comparison of lameness outcomes in horses with acute or chronic digital lameness that underwent magnetic resonance imaging. *New Zealand Veterinary Journal.* 25 March 2020; Accepted.

2019 Refereed Publications

1. **Aldrich ED, Goodrich LR, Contino EK, Kawcak CE, Barrett MF, King MR, Valdés-Martínez A.** Usefulness of caudomedial-cranio-lateral oblique radiographic views for the diagnosis of injury to the origin of the cranial cruciate ligament in two horses. *JAVMA.* 2019;254(4):508-511.
2. **Hoaglund L, Barrett M, Daglish J, Contino E.** Intermediate patellar ligament desmopathy often occurs in conjunction with stifle abnormalities, *Vet Rad and Ultrasound,* 60, 416-22.
3. **Dadone L, Olea-Popelka F, Stout E, Foxworth S, Klaphake E, Johnston MS, Han S, Barrett MF.** Clinical conditions found radiographically in the front feet of reticulated Giraffe (*Giraffa camelopardalis reticulata*) in single zoo. *Journal of Zoo and Wildlife Medicine.* 2019
4. **Ellis KL, Barrett MF, Selberg KT, Frisbie DD.** Magnetic Resonance Imaging and histopathological evaluation of equine oblique sesamoidean ligaments. *Equine Vet J.* 2019 Nov 30. PMID: 31785167.
5. **Nelson BB, Mäkelä JTA, Lawson TB, Patwa AN, Barrett MF, McIlwraith CW, Hurtig MB, Snyder BD, Moorman VJ, Grinstaff MW, Goodrich LR, Kawcak CE.** Evaluation of equine articular cartilage degeneration after mechanical impact injury using cationic contrast-enhanced computed tomography. *Osteoarthr Cartil.* May 2019.
6. **Pezzanite L, Bass L, Kawcak C, Goodrich L, Moorman V.** The relationship between sagittal hoof conformation and hindlimb lameness in the horse. *Equine Vet J.* 2019; 51: 464-469.
7. **Sidky EY, Stewart HL, Kawcak CE, McIlwraith CW, Duff MC, Pan X.** Bone sparsity model for computed tomography image reconstruction. In: *Proc.SPIE.* Vol 11072. ; 2019.

- Stewart RC, Nelson BB, Kawcak CE, Freedman JD, Snyder BD, Goodrich LR, Grinstaff MW.** Contrast-Enhanced Computed Tomography Scoring System for Distinguishing Early Osteoarthritis Disease States: A Feasibility Study. *J Orthop Res.* 2019.

2021 Research Abstracts/Presentations/Proceedings

- Smanik L, Selberg K, Kawcak C, Stewart H, Goodrich L.** Computed tomography versus radiographic guidance for internal fixation of central tarsal bone fractures in non-racing horses. Poster presented at: Large Animal Resident's Post Session, American College of Veterinary Surgeons Virtual Surgery Summit; Awarded 2nd place.

2020 Research Abstracts/Presentations/ Proceedings

- Ellis KL, Seabaugh K, King MR.** Retrospective analysis of horses with ultrasound evaluation of the sacroiliac region and response to sacroiliac region injection: 42 cases. Proceedings American College of Veterinary Surgeons. Washington, DC. Oral Presentation.
- Hurley E, Santangelo KS, Sikes KJ.** The Role of Toll-Like Receptor 4 in Murine Model of Tendinopathy. *Colorado State University, Celebrate Undergraduate Research.* Fort Collins, CO [College Honors Award]

2019 Research Abstracts/Presentations/Proceedings

- Barrett MF.** How to Perform Ultrasound-Guided Intra-Arterial Stem Cell Injection of the Median Artery. American Association of Equine Practitioners Proceedings.
- Barrett MF.** Imaging Beyond the Foot: Pastern, Fetlock, and Tendon Sheath. American Association of Equine Practitioners Proceedings.
- Burnett DJ, Frisbie DD, Jordan S, Sikes KJ.** Research and Development of a cyclic loading device to induce an overuse injury on equine Superficial Digital Flexor Tendon explants. *Colorado State University, Celebrate Undergraduate Research.* Fort Collins, CO.
- Adrian C, Haussler K, Kawcak CE, Reiser RF, Riegger-Krugh C, Palmer RH, McIlwraith CW, Taylor R.** Gait and electromyographic alterations due to early onset of injury and eventual rupture of the cranial cruciate ligament in dogs: a pilot study. 46th Annual Veterinary Orthopedic Society Conference, Breckenridge, CO.
- Sikes KJ, McConnell A, Smith S, Frisbie DD, Santangelo K.** Altered Gait Parameters Following Injury in a Novel Rat Quadriceps Myotendinous Junction Model. *University of Colorado Anschutz Medical Campus Orthopaedic Research Symposium.* Denver, CO.
- Sidky KY, Stewart HL, Kawcak CE, McIlwraith CW, Duff MC, Pan X.** Bone sparsity model for computed

tomography image reconstruction. Fully 3D 2019, Philadelphia, PA.

- Stewart H, Kawcak CE.** Physiologic effects of immobilization of the equine distal limb. CVBMS Research Day, Fort Collins, CO.
- Posukonis M, Kawcak CE.** Fracture characterization via computed tomography in Thoroughbred racehorses. CVBMS Research Day, Fort Collins, CO.

2021 Oral Presentations

- Kawcak C.** History, Performance & Physical Examination, Diagnostic Analgesia: Looking Beyond Textbooks, Navigating the Complexity of Therapeutics, Parts 1&2. Oregon Veterinary Conference, Virtual.
- Kawcak C.** Post-Mortem Surveillance Program. Colorado Racing Commission. Virtual.
- Kawcak C.** What is bone edema, bone bruise? The Science, the Histology, the Outcome. Equine Regenerative Medicine and Orthobiologics Summit, Virtual.

2020 Oral Presentations

- McIlwraith CW.** Celtic Advanced Life Science Innovation Network, Ireland Webinar. "Autologous conditioned serum (IRAP and IRAP II) Research and Clinical Use in Equine Orthopaedics."

2019 Oral Presentations

- Contino E.** Ultrasound of the Cervical Spine and Stifle wetlab, American Association of Equine Practitioners and International Society of Equine Locomotor Pathology, Fort Collins, CO.
- Contino E.** Musculoskeletal Ultrasound wetlab, American Association of Equine Practitioner's Focus on Sports Medicine Meeting, Meeting Chair, Fort Collins, CO.
- Contino E.** Diagnosing Back and SI Pain- Clinical Features and Diagnostic Imaging, Florida Association of Equine Practitioner's 15th Annual Promoting Excellence Symposium, Fort Myers, FL.
- Contino E.** A Look at Non-traditional Causes of Poor Performance, Florida Association of Equine Practitioner's 15th Annual Promoting Excellence Symposium, Fort Myers, FL.
- Contino E.** Diagnostic Anesthesia, Texas Equine Veterinary Association's Summer Symposium, Marble Falls, TX.
- Contino E.** Imaging and Treatment of Neck, Back & Pelvis, Texas Equine Veterinary Association's Summer Symposium, Marble Falls, TX.
- Contino E.** Diagnosis and Treatment of Proximal Suspensory Disease, Texas Equine Veterinary Association's Summer Symposium, Marble Falls, TX.

8. **Kawcak C.** Characterizing Personal Tissue Stress in the Athlete. Veterinary Innovation Summit. Fort Collins, CO.
9. **Kawcak C.** Joint Disease- what do we know? Rood and Riddle Equine Hospital Intern Symposium. Lexington, KY.
10. **Kawcak C.** Advances in Diagnostic Imaging of Equine Injuries. Savannah River National Laboratories. Aiken, SC.
11. **Kawcak C.** Fact Finding: History, Physical Exam and Diagnostic Analgesia. AAEP Focus Meeting. Fort Collins, CO.
12. **McIlwraith CW.** Australasian Musculoskeletal Imaging Group, Queenstown Keynote Lecture “Intra-articular biologic therapies for post traumatic osteoarthritis and cartilage repair”
13. **McIlwraith CW.** Adaptive Design Workshop, CSU TMI Musculoskeletal Therapies – Translational Adaptive Design (M-TAD) Network – “Current problems in musculoskeletal disease” and discussant.