

## 2024 Kester News Hour Articles

**Serial injections of 4% polyacrylamide hydrogel have no detrimental effects in equine joints following clinical, histologic, and synovial biomarker evaluation** *Scott R. McClure, DVM, PhD, DACVS, DACVSMR1\**; *Maggie D. Peitzmeier, DVM, DACVS2*; *Bradley R. Jackman, DVM, MS, DACVS2*; *Richard B. Evans, PhD, PSTAT3*; *Courtney L. Ziegler, RVT4*; *Charan K. Ganta, DVM, PhD, DACVP5*; *AJVR-AVMA*

**Comparison of 18F-Sodium Fluoride Positron Emission Tomography and Computed Tomography for Imaging of the Fetlock in 25 Nonracehorses** *Charlene Pige1* | *Mathieu Spriet2* | *Marcos Perez-Nogues1* | *Scott Katzman2* | *Sarah Le Jeune2* | *Larry Galuppo2*; *Equine Vet J.* 2024;56:1008-1018

**Histologic and Cytologic Changes in Normal Equine Joints After Injection with 2.5% Injectable Polyacrylamide Hydrogel Reveal Low-Level Macrophage-Driven Foreign Body Response** *Jason Lowe, BVSc1\**; *Leigh de Clifford, BVSc2*; *Alan Julian, DACVP3*; *Marc Koene, DVM4*; *JAMVA, May2024;Vol 262, No5, 649-657.*

**Association of *Borrelia burgdorferi* with nuchal bursitis and elevated outer surface protein A-specific serum antibodies in horses of the northeastern United States** *Erin K. Pearson, DVM1*; *Cassandra Guarino, PhD2*; *Marta Cercone, DVM, PhD, DACVIM1*; *Thomas Divers, DVM, DACVIM, DACVECC1*; *Jenna Lambert, DVM, DACVS3*; *José García-López, VMD, DACVS4*; *Amy L. Johnson, DVM, DACVIM4*; *Julie B. Engiles, VMD, DACVP4,5*; *Richard Marconi, PhD6*; *Jade Smith, BS6*; *Kara Brown, VMD4*; *Toby Pinn-Woodcock, DVM, DACVIM2\**; *JAVMA; Nov2024;Vol 262, No11, 1476-1484*

**Multicenter study investigating long-term survival after synovial lavage of contaminated and septic synovial structures in horses presented to 10 UK referral hospitals** *Therese C. de Souza MA, VetMB, MVS, DipECVS, MRCVS1,2,3* | *John Burford VetMB, CertVA, CertES(Soft Tissue), PhD, SFHEA, FRCVS1* | *Evita Busschers DVM, MVR, FHEA, DACVS (Large Animal), DECVS, DACVSMR, MRCVS3* | *Sarah Freeman BVetMed, PhD, CertVA, CertVR, CertES, DipECVS, FHEA, FRCVS1* | *Joanna M. Suthers BVM&S, MPhil, CertES(Soft Tissue), DipECVS, MRCVS2*; *Veterinary Surgery*; 2024; 53:1083-1092

**Success rates and factors influencing pregnancy outcome after 464 transvaginal ultrasound-guided twin reductions in the mare** Jutta Sielhorst 1,2 | Sophie Baade2,3 | Kim-Carolin Neudeck 3 | Anna Tönissen2 | Karl Rohn4 | Fiona Hollinshead5 | Harald Sieme2; *Equine Vet J.*; 2024;56:726-734

**Proteomic analysis of sperm from fertile stallions and subfertile stallions due to impaired acrosomal exocytosis** Camilo Hernández-Avilés1\*, Luisa Ramírez-Agámez1, SusanT. Weintraub3, Charles F. Scoggin4, BrianW. Davis2, Terje Raudsepp2, Dickson D.Varner1 & Charles C. Love1; *Scientific Reports*; 2024; 14:12446

**Factors affecting pregnancy rates in mares bred with cryopreserved semen** L. Pasch a, D. Stefanovski b, T. Dobbie b, G. Lewis b, R.M. Turner b,\*; *J of Equine Vet Sci*; 141 (2024) 105167

**Obesity during Pregnancy in the Horse: Effect on Term Placental Structure and Gene Expression, as Well as Colostrum and Milk Fatty Acid Concentration** Morgane Robles 1,2,3,\*, Delphine Rousseau-Ralliard 1,2, Cédric Dubois 4, Tiphane Josse 1,2, Émilie Nouveau 1,2, Michele Dahirel 1,2, Laurence Wimmel 4, Anne Couturier-Tarrade 1,2 and Pascale Chavatte-Palmer 1,2,\*; *Vet Sci* 2023, 10, 691; <https://doi.org/10.3390/vetsci10120691>

**Long-term performance of show-jumping horses and relationship with severity of ataxia and complications associated with myeloencephalopathy caused by equine herpes virus-1** María de la Cuesta-Torrado1,2 | Ana Velloso Alvarez1,2 | Patricia Neira-Egea 2 | Juan Cuervo-Arango1,2; *J Vet Intern Med.* 2024;38:1799-1807

**Updated ACVIM consensus statement on equine herpesvirus-1** David P. Lunn1 | Brandy A Burgess2 | David C. Dorman3 | Lutz S. Goehring 4 | Peggy Gross 3 | Klaus Osterrieder 5 | Nicola Pusterla 6 | Gisela Soboll Hussey 7; *J Vet Intern Med.* 2024;38:1290-1299

**Detection of paroxysmal atrial fibrillation preceding persistent atrial fibrillation in a horse using an implantable loop recorder with remote monitoring** I. Vernemmen a, \*, G. Van Steenkiste a, A. Decloedt a, H. Meert b, U. Walser b, G. van Loon a; *J of Vet Cardiology.* 2024 52, 19-27

**Clinical findings and outcome predictors for multinodular pulmonary fibrosis in horses: 46 cases (2009-2019)** Amanda Craven<sup>1</sup> | Amy Todd-Donato<sup>1</sup> | Tracy Stokol<sup>2</sup> | Rachel Liepman<sup>3</sup> | Ilana Glasberg<sup>4</sup> | Pamela Wilkins<sup>4</sup> | Daniela Luethy<sup>5</sup> | David Wong<sup>6</sup> | Angelika Schoster<sup>7</sup> | Astrid J. van den Brom - Spierenburg<sup>8</sup> | Joy E. Tomlinson<sup>5,9</sup>; *J Vet Intern Med.* 2024;38:1842-1857

**An intronic copy number variation in Syntaxin 17 determines speed of greying and melanoma incidence in Grey horses** Carl-Johan Rubin<sup>1,2</sup>, McKaela Hodge<sup>3,12</sup>, Rakan Naboulsi<sup>4,11,12</sup>, Madeleine Beckman<sup>5</sup>, Rebecca R. Bellone<sup>6,7</sup>, Angelica Kallenberg<sup>6</sup>, Stephanie J'Usrey<sup>6</sup>, Hajime Ohmura<sup>8</sup>, Kazuhiro Seki<sup>9</sup>, Risako Furukawa<sup>10</sup>, Aoi Ohnuma<sup>10</sup>, Brian W. Davis<sup>3</sup>, Teruaki Tozaki<sup>10</sup>, Gabriella Lindgren<sup>4</sup> & Leif Andersson<sup>1,3</sup>; *Nature Communications.* 2024;15:7510; <https://doi.org/10.1038/s41467-024-51898-2>

**Congenital variants of the ventral laminae of the sixth and seventh cervical vertebrae are not associated with clinical signs or other radiological abnormalities of the cervicothoracic region in Warmblood horses** Sue Dyson<sup>1</sup> | Kathryn Phillips<sup>2</sup> | Shichen Zheng<sup>3</sup> | Monica Aleman<sup>3</sup>; *Equin Vet J.* 2024;1-12

**Neck pain but not neurologic disease occurs more frequently in horses with transposition of the ventral lamina from C6 to C7** C. S. Henderson, DVM<sup>1</sup>; M. R. Story, DVM, PhD, DACVS, DACVSMR<sup>1,2</sup>; Y. S. Nout-Lomas, DVM, PhD, DACVIM, DACVECC<sup>1,2\*</sup>; *JAVMA*, Sept 2024; Vol 262, No 9, 1215-1221

**Single-dose nonsteroidal anti-inflammatory drugs in horses have no impact on concentrations of cytokines or growth factors in autologous protein solution and platelet-rich plasma** Kara A. Brown, VMD, DACVSMR<sup>1</sup>; Elizabeth N. Gregorio, BA<sup>1</sup>; Dhvani Barot, BVSc<sup>1</sup>; Alexandra Usimaki, DVM<sup>1</sup>; Renata L. Linardi, DVM, PhD<sup>1</sup>; Jaclyn R. Missanelli, BS<sup>2</sup>; Youwen You, PhD<sup>2</sup>; Mary A. Robinson, VMD, PhD, DACVP<sup>1</sup>; Kyla F. Ortved, DVM, PhD, DACVS, DACVSMR; *Am J of Vet Research*; <https://doi.org/10.2460/ajvr.23.11.0258>

**Evidence of the clinical effect of commonly used intra-articular treatments of equine osteoarthritis** Anne Nedergaard | Lisa Emilia Carlsson | Casper Lindegaard; *Equine Vet Educ.* 2024;00:1-13

**Single injection of intra-articular autologous protein solution in horses with acute interleukin-1B-induced synovitis decreases joint pathology scores** *Alexandra Usimaki1 | Sarah A. Ciamillo1 | Dhvani Barot 1 | Renata L. Linardi1 | Julie B. Engiles 1,2 | Kyla F. Ortved 1; Equine Vet J. 2024;1-11*