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 College of Veterinary Medicine
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Employment/Positions:

July 2024-Present: Dean, College of Veterinary Medicine, Arkansas State University
 July 2024-Present: Professor with Tenure, Arkansas State University
 January 2022-July 2024: Associate Dean for Educational Strategy, Louisiana State University
 July 2021-July 2024: Associate Professor with Tenure, Louisiana State University
 September 2020-December 2021: Director of Education, Louisiana State University
 August 2017-July 2021: Assistant Professor, Louisiana State University
 February 2013-August 2017: Assistant Professor, University of Calgary
 September 2011-February 2013: Graduate Research Assistant, Oklahoma State University
 July 2008-July 2011: Resident, Equine Internal Medicine, Oklahoma State University
 June 2007-July 2008: Intern, Large Animal Medicine and Surgery, University of Georgia

Education:

<u>Degree</u>	<u>Conferring Institution</u>	<u>Year</u>
Graduate Certificate, <i>Teaching in the Health Professions</i>	Louisiana State University	2019
PhD, <i>Veterinary Biomedical Sciences</i>	Oklahoma State University	2013
DVM	Washington State University	2007
BS, <i>Veterinary Science</i>	Washington State University	2004
Undergraduate Studies	Montana State University	1999-2003

Professional Certifications:

FEI Treating Veterinarian (2013-2016)
 Diplomate, American College of Veterinary Internal Medicine (Large Animal): 2011

Teaching—Louisiana State University

<u>Course</u>	<u>Title</u>	<u>Role</u>	<u>Dates</u>		<u>Hrs/Year (average)</u>
VMED 5002	Problem Based Learning	Facilitator	11/2018	4/2024	10 h discussion
VMED 5010	Healer’s Art	Facilitator	09/2019	11/2019	16 h discussion
			02/2022	04/2022	16 h discussion
		Co-	09/2019	11/2019	10 h

		Coordinator	02/2022	04/2022	10 h
VMED 5010	Advanced Equine Respiratory Disease	Instructor	03/2018	03/2018	2 h lab 2 h lecture
VMED 5010	Advanced Equine GI	Instructor	01/2019	01/2021	1 h lecture 2 h lab
VMED 5010	Advanced Equine Urogenital	Instructor	02/2019	02/2021	1 h discussion
VMED 5010	Clinical Experiences	Coordinator	08/2023	Present	30 h
VMED 5010	Service Learning	Co-Coordinator	08/2023	Present	20 h
VMED 5011	Advanced Veterinary Anesthesia and Surgery	Coordinator	08/2023	11/2023	60 h
VMED 5113	Veterinary Physiology 3	Instructor	01/2023	04/2024	2 h lecture
VMED 5125	Basic and Applied Anatomy III	Instructor	01/2020	03/2020	4 h lab
VMED 5181	Veterinary Professional Development	Instructor/Facilitator	09/2023	09/2023	2 h workshop 4 h lab
VMED 5182	Veterinary Professional Development 2	Facilitator	01/2024	Present	4 h lab
VMED 5150	Clinical Skills 1	Examiner	12/2019	04/2023	8 h OSCE
VMED 5250/5251	Clinical Skills 2	Coordinator	08/2022	12/2023	40 h
VMED 5251	Clinical Skills 2	Examiner	11/2019	04/2023	8 h OSCE
VMED 5270	Clinical Pathology and Diseases of the Hemolymphatic System	Instructor	09/2017	11/2022	2 h lecture

VMED 5273	Endocrine and Metabolic Diseases	Instructor	09/2017	12/2023	3 h lecture
VMED 5310	Clinical Skills Lab	Evaluator	01/2018	09/2019	4 h lab
VMED 5350	Clinical Skills Lab	Instructor Coordinator Evaluator	08/2020 08/2020 12/2020	12/2023 04/2023 Present	15 h lab 200 h 20 h
VMED 5362	Diseases of Horses	Instructor	09/2017	11/2022	4 h lecture
VMED 5362	Diseases of Horses	Coordinator	08/2018	12/2019	30 h
VMED 5371	Business Management	Coordinator	03/2024	05/2024	15 h
VMED 5372	Immunology and Infectious Diseases	Instructor	01/2018	01/2024	1 h lecture
VMED 5458	Equine Medicine	Instructor	09/2017	09/2020	2 months/year
VMED 5463	Equine Ambulatory	Instructor	09/2017	09/2020	3 months/year
VMED 5463	Advanced Small Animal Clinical Skills	Coordinator	05/2023	06/2023	4 weeks/year
VMED 5436	Advanced Large Animal Clinical Skills	Instructor	07/2023	07/2023	8 hours
VMED 5463	Advanced Small Animal Clinical Skills	Instructor	05/2023	05/2023	9 hours
VCS 7002	Research Techniques	Coordinator	05/2020	08/2020	10 h
VCS 7003	Special Topics	Instructor	09/2018	12/2018	6 h discussion
VCS 7201	Advanced Gastroenterology	Instructor	02/2019	04/2020	2 h lecture
VCS 7211	Advanced Respiratory and Cardiac Diseases	Instructor	02/2020 02/2023	04/2020 04/2023	3 h lecture 2 h discussion

VCS 7206	Urogenital Medicine and Surgery	Instructor	02/2018	12/2018	2 h lecture 4 h lab
VCS 7301	Curriculum Design and Program Evaluation for Healthcare Education	Instructor & Coordinator	01/2022	03/2022	50 hours
VCS 7302	Student Assessment in Health Professions Education	Instructor & Coordinator	03/2022	05/2022	50 hours
VMED 8000	Thesis Research	Instructor	09/2018	12/2018	40 h contact
VMED 9000	Dissertation Research	Instructor	05/2020	08/2023	60 h contact
PAVE and ECFVG	Equine Endocrinology and Equine Colic	Instructor	05/2018	10/2018	11 h lecture
NAVLE review	Antibiotics and Equine Endocrinology	Instructor	10/2018 01/2023	09/2019	2 h lecture 1 h lecture
BRCC	Veterinary Technician Students	Instructor	09/2018	09/2018	2 h lab

Teaching—University of Calgary

<i>Course</i>	<i>Title</i>	<i>Role</i>	<i>Dates</i>	<i>Hrs/Year</i>
VETM 300	Clinical Presentations	Instructor	11/2013 04/2017	3 h lecture
VETM 305	Clinical Skills	Instructor	09/2013 04/2017	9 h lab
VETM 307	Professional Skills	Instructor	01/2015 04/2015	6 h lab
VETM 360	Intro to Vet Med	Instructor	09/2015 04/2017	4 h field
VETM 400	Clinical Presentations	Instructor	01/2014 04/2017	12 h lab
VETM 405	Clinical Skills	Coordinator	02/2015 12/2015	60 h lab
VETM 405	Clinical Skills	Instructor	09/2013 04/2017	15 h lab
VETM 407	Professional Skills	Instructor	01/2014 04/2017	3 h lab
VETM 443	Clinical Pharmacology	Coordinator	08/2016 04/2017	15 h lecture
VETM 443	Clinical Pharmacology	Instructor	09/2013 04/2017	9 h lecture

VETM 460	Applied Nutrition	Instructor	09/2013	04/2017	1.5 h lecture
VETM 461	Outbreak Investigation	Instructor	10/2013	12/2015	8 h field
VETM 463	AoE: Investigative Medicine	Co-coordinator	03/2014	3/2014	10 h field
VETM 463	AoE: Investigative Medicine	Instructor	03/2014	03/2014	40 h field
VETM 463	AoE: Equine	Instructor	03/2015	04/2017	4 h field
VETM 500	Clinical Presentations	Instructor	01/2014	04/2017	4.5 h lecture
VETM 505	Clinical Skills	Instructor	09/2013	9/2016	15 h lab
VETM 507	Professional Skills	Instructor	01/2015	04/2017	12 h lab
VETM 507	Professional Skills	Integrated Research Project Instructor	08/2014	04/2015	90 h field
VETM 507	Professional Skills	IRP Co-coordinator	08/2014	04/2015	20 h lab
VETM 521	Equine Medicine and Sx	Instructor	03/2014	04/2017	3 h lecture
VETM 523	Anesthesiology and Therapeutics	Instructor	09/2013	04/2017	10 h lecture
VETM 590	Equine Internal Medicine Rotation	Instructor	05/2015	09/2015	1.5 wk contact time
VETM 590	Clinical Pharmacology Rotation	Coordinator	11/2016	11/2016	10 h
VETM 590	Clinical Pharmacology Rotation	Instructor	07/2013	11/2016	2 wk rotation/year
VETM 590	Sport Horse Medicine Rotation	Instructor	06/2013	04/2015	3 wks rotation/year
VETM 690	Equine Sports	Co-	01/2014	04/2014	15 h

	Medicine	coordinator			
VETM 690	Equine Sports Medicine	Instructor Banse H	01/2014	04/2014	16 h lecture
VETM 690	Nutritional Physiology	Instructor	03/2014	05/2014	5 h lecture

Other teaching/mentoring-related duties at University of Calgary:

Instructor, AAEP Student Chapter Dentistry Lab, March 2017. Taught regional anesthesia for dentistry to UCVM students (2 h).

Coached fourth year students during fourth year assessment weeks (~15 hours, 2016-2017)

Student Chapter AAEP advisor, Spring 2015-August 2017

Coordinated and served as a primary instructor for Equine Intern Clinical Skills Day, 2014 and 2015

Peer-Reviewed Publications:

Thompson RN*, Pearson E, McDonough P, Iannitti H, Van de Walle GR, **Banse H**, Perkins GA, Tomlinson JE. Equine gamma herpesvirus presence and viral load are not associated with equine glandular gastric disease. *Am J Vet Res* 2024.

<https://doi.org/10.2460/ajvr.23.12.0282>

Ireland JL, Lester A, **Banse H**. Factors affecting measurement of basal adrenocorticotrophic hormone in adult domestic equids: a scoping review. *Vet J* 2024; 304: 106071.

<https://doi.org/10.1016/j.tvjl.2024.106071>

Banse H, Kedrowicz A, Michel KA, Burton EN, Yvorchuk-St Jean K, Anderson J, Anderson S, Barr MC, Boller E, Chaney K, Inzana K, Matthew S, Rollins D, Salisbury SK, Schmidt P, Smith N, Trace C. Implementing competency-based veterinary education: A survey of AAVMC member institutions on opportunities, challenges, and strategies for success. *J Vet Med Educ* 2024; 51: 155-163. <https://doi.org/10.3138/jvme-2023-0012>

Chaney K, Hodgson J, **Banse H**, Danielson J, Gates C, Ilkiw J, Matthew S, Read E, Salisbury K, Taylor R. Words Matter: The importance of adhering to terminology when implementing competency-based veterinary education (CBVE). *J Vet Med Educ* 2024; 51: 151-154.

<https://doi.org/10.3138/jvme-2023-0022>

Paul LJ*, Ericsson A, Andrews FM, McAdams Z, Keowen M, St Blanc M, **Banse H**. Field study examining the mucosal microbiome in equine glandular gastric disease. *PLoS ONE* 18(12): e0295697. <https://doi.org/10.1371/journal.pone.0295697>

Banse HE, Del Piero F, Andrews FM, Garcia-Abarca N, Watanabe TTN, Characterization of gastrointestinal inflammatory cell type in equine glandular gastric disease. *Am J Vet Res*; 2023 <https://doi.org/10.2460/ajvr.23.06.0129>

Menzies Gow N, **Banse HE**, Duff A, Hart N, Ireland JL, Knowles E, McFarlane D, Rendle D. BEVA primary care clinical guidelines: Diagnosis and treatment of pituitary pars intermedia dysfunction. *Equine Vet J*. 2024; 56: 220-242. <https://doi.org/10.1111/evj.14009>

Warman S, Armitage-Chan E, **Banse H**, Khosa D, Noyes J, Read E. Preparing veterinarians to practice across the spectrum of care: an integrated educational approach. *Adv Small Anim Care* 2023; 4: 171-183. <https://doi.org/10.1016/j.yasa.2023.04.004>

Paul LJ*, Ericsson AC, Andrews FM, McAdams Z, Keowen ML, St Blanc MP, **Banse HE**. Dietary and management factors influence the equine gastric microbiome. *Am Vet Med Assoc*, 2022; 260: 111-120. <https://doi.org/10.2460/javma.22.07.0277>

Banse HE, Baker RE, Domaracki C, McCauley C, Duhon B, Grandt B, Jackson K, Spangler DM, Hunt Ja. Teaching veterinary surgical skills: Comparison of massed versus spaced instruction. *Vet Surg*, 2022, 51: 1118-1125. <https://doi.org/10.1111/vsu.13870>

McMillan CJ, Read MR, Skorobohach B, Hecker KG, **Banse HE**. Building clinical skills teaching materials: A study of cognitive task analysis versus free recall instruction to teach canine indirect ophthalmoscopy. *J Vet Med Educ*, 2022, 49: 584-593. <https://doi.org/10.3138/jvme-2020-0139>

Rumfola E*, **Banse HE**, Atkins M, McGowan CM, Ireland JL. Approaches to endocrinopathic laminitis in the field: Results of a survey of veterinary practitioners in North America. *J Eq Vet Sci*, 2022; 11: 103856. <https://doi.org/10.1016/j.jevs.2021.103856>

St Blanc M, **Banse H**, Retif M, Arana-Valencia N, Keowen M, Garza F, Lui, C-C, Gray, L, Andrews F. Effects of supplements containing Turmeric and Devil's Claw on equine gastric ulcer scores and gastric juice pH. *Equine Vet Educ*, 2022, 34: 241-247. <https://doi.org/10.1111/eve.13404>

Paul L*, Ericsson A, Andrew FM, Keowen ML, Morales FY, Garza, F, Jr, **Banse H**. Comparison of the gastric microbiome in horses with and without equine glandular gastric disease (EGGD). *Vet Intern Med*, 2021, 35: 2458-2464. <https://doi.org/10.1111/jvim.16241>

Banse HE#, McMillan CJ#, Warren AL, Hecker KG, Wilson B, Skorobohach B, Carter RT, Lewin AC, Kondro D, Ungrin MD, Dorosz SG, Baker RE, Dehghanpir SD, Grandt BB, Hale Mitchell LK, Anderson SJ. Development of and validity evidence for a canine ocular model for training novice veterinary students to perform a fundic examination. *J Vet Med Educ*, 2021, 48: 620-628. <https://doi.org/10.3138/jvme-2020-0035>

Banse HE, Whitehead AE, McFarlane D, Chelikani P. Markers of muscle atrophy and impact of treatment with pergolide in horses with pituitary pars intermedia dysfunction and muscle atrophy. *Dom Anim Endocrinol*, 2021, Jul; 76: 106620. <https://doi.org/10.1016/j.domaniend.2021.106620>

Ricord M*, Andrews FM, Morales Yniguez FJ, Keowen M, Garza F, Jr. Paul L, Chapman A, and **Banse HE**. Impact of concurrent treatment with omeprazole on phenylbutazone-induced equine gastric ulcer syndrome (EGUS). *Equine Vet J*, 2021; 53:356-363.

<https://doi.org/10.1111/evj.13323> ***Selected by EVJ's Clinical Reviewer as one of the most clinically relevant to appear on EVJ's Early View section this month; Recognized as one of Wiley's most cited journal articles 2020-2021 and 2021-2022 in subject area*

Banse HE, Getachew F, Levy M, Smits J. Influence of season and pituitary pars intermedia dysfunction on hair cortisol concentration in horses. *Domest Anim Endocrinol* 2020, Jul; 72: 106375. <https://doi.org/10.1016/j.domaniend.2019.07.003>

Banse HE and Andrews FM. Equine glandular gastric disease: prevalence, impact and management strategies. *Vet Med (Auckl)*, 2019, 10: 69-76. <https://doi.org/10.2147/VMRR.S174427>

Moser K* and **Banse HE**. Comparison of the glucose and insulin responses of horses to two formulations of corn syrup. *Can Vet J*, 2019, 60: 637-643.

Banse HE, MacLeod H, Crosby C, Windeyer MC. Prevalence of and risk factors for equine glandular and gastric squamous disease in polo horses. *Can Vet J*, 2018, 59: 880-884.

Pedersen SK*, Cribb AE, Windeyer MC, Read EK, French D, **Banse HE**. Risk factors for equine glandular and squamous gastric disease in showjumping Warmbloods. *Equine Vet J*, 2018, 50: 747-751.

Banse HE, Schultz N, McCue ME, Geor R, McFarlane D. Comparison of two methods for measurement of equine adrenocorticotropin. *J Vet Diagn Invest*, 2018, 30: 233-237.

Pedersen SK*, Cribb AE, Read EK, French D, **Banse HE**. Phenylbutazone induces equine glandular gastric disease without decreasing prostaglandin E2 concentrations. *J Vet Pharmacol Ther*, 2018, 41: 239-245.

UCVM Class of 2016*, **Banse H**, Cribb AE. Comparative efficacy of oral meloxicam and phenylbutazone in two experimental pain models in the horse. *Can Vet J* 2017, 58: 157-167.

McFarlane D, **Banse H**, Knych HK, Maxwell LK. Pharmacokinetic and pharmacodynamic properties of pergolide mesylate following long-term administration to horses with pituitary pars intermedia dysfunction. *J Vet Pharmacol Ther* 2017, 40: 158-162.

Banse HE, Frank N, Holbrook TC, McFarlane D. Relationship of skeletal muscle inflammation with obesity and obesity-associated hyperinsulinemia. *Can J Vet Res* 2016, 80: 217-224.

Banse HE, Frank N, Kwong GPS, McFarlane D. Relationship of skeletal muscle oxidative stress with obesity and obesity-associated hyperinsulinemia. *Can J Vet Res* 2015, 79: 329-38, 2015.

Vivancos M*, Barker J*, Engbers S*, Fischer C*, Frederick J*, Friedt H*, Rybicka JM*, Stastny T*, **Banse H**, Cribb AE. Pharmacokinetics and bioequivalence of two meloxicam oral dosage formulations in healthy adult horses. *Can Vet J* 2015, 56: 730-736.

Banse HE, Woolums AW, Step DL. A review of host pulmonary defenses with reference to cattle. *Bovine Practitioner*, 2014. 48: 13-24.

Banse HE, McCann J, Yang F, Wagg C, McFarlane D. Comparison of two methods for measurement of equine insulin. *J Vet Diagn Invest*, 2014, 26: 527-530. doi: 10.1177/1040638714536560.

Banse HE, McFarlane D. Comparison of three methods for evaluation of insulin regulation in obese and non-obese horses. *J Eq Vet Sci*, 2014, 34: 742-748. doi: 10.1016/j.jevs.2014.01.001.

Banse HE, Holbrook TC. Use of duodenal ultrasonography to detect alterations in intestinal motility of endurance horses (short communication). *Comp Exerc Physiol*, 2013, 9: 125-128.

Banse HE, Tennent-Brown B, Mueller POE. Left dorsal displacement of the large colon manifested by increased gamma-glutamyl transferase activity in a horse. *Compend Contin Educ Vet*, 2012; 34: available online.

Banse H, Holbrook TC, Gilliam LL, et al. Right ventricular and saphenous vein thrombi associated with sepsis in a Quarter Horse foal. *J Vet Intern Med*, 2012; 26: 178-182.

Cramer SD, Love B, Ritchey JW, **Banse H**. Clinical snapshot: Colitis in a paint gelding. *Compend Contin Educ Vet*, 2011; 33: available online.

Banse HE, Gilliam LL, House AM, et al. Gastric and enteric phytobezoars caused by ingestion of persimmon in equids. *J Am Vet Med Assoc* 2011; 239: 1110-1116.

McKenzie EC, Riehl J, **Banse H**, et al. Prevalence of diarrhea and enteropathogens in racing sled dogs. *J Vet Intern Med* 2010; 24, 97-103.

McKenzie E, Lupfer C, **Banse H**, et al. Hypogammaglobulinemia in racing Alaskan sled dogs. *J Vet Intern Med* 2010; 24, 179-184.

Banse HE, McKenzie EC, Nelson S Jr, et al. Assessment of serum antibody titers against canine distemper virus, canine adenovirus type II, and canine parvovirus in Alaskan sled dogs before and after a long-distance race. *J Am Vet Medical Assoc* 2008; 232, 1669-1673.

Banse HE, Sides RH, Ruby BC, et al. Effects of endurance training on VO_{2max} and submaximal blood lactate concentrations of untrained sled dogs. *Eq Comp Exerc Physiol* 2007; 4, 89-94.

Cox C, Ruby B, **Banse H**, et al. Hydration status of dog sled drivers during the 2003 Iditarod 1049 mile dogsled race. *Int J Circumpolar Health*, 2006; 65, 45-54.

*Student first author

#Equal first authors

Invited Review Papers

Banse H and Paul L. A review of equine glandular gastric disease. *Equine Veterinary Education*, 2024. <https://doi.org/10.1111/eve.14028>

Paul L and **Banse H**. Mechanisms and risk factors contributing to equine gastric ulcer syndrome. *UK Vet Equine*, 2024. <https://doi.org/10.12968/ukve.2024.8.4.158>

Banse HE. Clinical commentary: Management of phytobezoars. *Equine Veterinary Education*, 2020; 32: 515-517. <https://doi.org/10.1111/eve.13114>

Book Chapters (written):

Kritchevsky J, **Banse H**. Glucose Tolerance Tests. In: Lavoie JP, ed. *Blackwell's Five Minute Veterinary Consult (Equine)*, 3rd Edition. Hoboken, NJ: John Wiley and Sons, 2019.

Banse H, Kritchevsky J. Insulin Levels/Insulin Tolerance Test. In: Lavoie JP, ed. *Blackwell's Five Minute Veterinary Consult (Equine)*, 3rd Edition. Hoboken, NJ: John Wiley and Sons, 2019.

Levy M, **Banse H**. Pituitary Pars Intermedia Dysfunction. In: Lavoie JP, ed. *Blackwell's Five Minute Veterinary Consult (Equine)*, 3rd Edition. Hoboken, NJ: John Wiley and Sons, 2019.

Banse HE. Gastric Impaction. In: Kim Sprayberry and Ed Robinson, eds. *Current Therapy in Equine Medicine*, Volume 7. St. Louis, MO: Elsevier; 2015.

Banse HE, Barton MH. Diseases and Disorders: Clover toxicosis. In: David Wilson, ed. *Clinical Veterinary Advisor: The Horse*. St. Louis, MO: Elsevier; 2011.

Banse HE, Barton MH. Diseases and Disorders: Chronic megalocytic hepatopathy. In: David Wilson, ed. *Clinical Veterinary Advisor: The Horse*. St. Louis, MO: Elsevier; 2011.

Banse HE, Barton MH. Diseases and Disorders: Cholelithiasis. In: David Wilson, ed. *Clinical Veterinary Advisor: The Horse*. St. Louis, MO: Elsevier; 2011.

Book Chapters (edited):

Consulting Editor, Endocrine. In: Lavoie JP, ed. *Blackwell's Five Minute Veterinary Consult (Equine)*, 3rd Edition. Hoboken, NJ: John Wiley and Sons, 2019.

Abstracts and Proceedings:

Banse H, Carter R, Redmond J, Dean H, Grandt B, Jackson K, Baker R, McMillan CM. Comparison of free recall versus cognitive-task-analysis based instruction of fundoscopy in novice veterinary students. Accepted to International Veterinary Simulation in Teaching (InVeST) Conference, August 2024, Guildford, United Kingdom.

Banse H, **Baker R**, Redmond J. Creation of a clinical skills elective rotation to support day one readiness for veterinary practice. Presented at the Veterinary Educator Symposium, October 2023, Amarillo, TX (25 min).

Paul L, Ericsson A, Andrews F, **Banse H** (2023). Bile acid profiling of pyloric gastric fluid in horses with equine glandular gastric disease. Presented at the ACVIM Forum, June 2023, Philadelphia, PA.

Redmond JS, **Banse HE**, Baker RE, Jackson KS, Hunt J. Comparison of massed versus spaced instruction for teaching equine nasogastric intubation and rectal exam in veterinary students. Presented at International Veterinary Simulation in Teaching (InVeST) Conference, February 2023, Grenada, West Indies.

Banse H, Baker R, Domaracki C, McCauley C, Duhon B, Grandt B, Jackson K, Spangler D, Hunt J. Is 'one session, one skill' better? The impact of spaced versus massed instruction of core surgical skills on cognitive load, skill acquisition, and skill retention in novice veterinary students. Presented at the Veterinary Educator Collaborative, July 2022, Manhattan, KS.

Banse H, Kedrowicz A, Michel K, Burton E, Yvorchuk K, Anderson J, Anderson S, Barr M, Boller E, Chaney K, Inzana K, Matthew S, Rollins D, Salisbury S, Schmidt P, Smith N, Trace C. Implementing CBVE: Opportunities, challenges, and strategies for success. Poster abstract presented at the Veterinary Educator Collaborative, July 2022, Manhattan, KS.

Paul L*, Ericsson A, Andrews F, Keowen M, St Blanc M, **Banse H**. (2021). Pilot field study comparing the microbiome in horses with and without equine glandular gastric disease. Poster abstract presented at the 13th International Colic Symposium, July 2021 (virtual).

Banse HE, Andrews FM, St. Blanc M, Keowen ML, Garza F, Paul L, Whitfield-Cargile C. Impact of concurrent treatment with omeprazole on gastrointestinal health in horses. Poster abstract presented at the 13th International Colic Symposium, July 2021 (virtual).

Banse H, Gibbons, Like B, Welborn N, Boudreaux B, Dehghanpir S, Collins B, Bourgeois J, Taboada J. Information resource selection in veterinary medicine: implications for teaching information literacy skills to DVM students. Short communication presented the Veterinary Schools Council Veterinary Education Symposium, July 2021 (virtual).

Patel M*, Chapman A, Hazard N, Fletcher J, **Banse H**. ACTH stability in frozen equine plasma. Poster abstract presented at the Veterinary Scholars Program Symposium, July 2021 (virtual).

Ricord M*, Andrews F, Morales Yniguez FJ, Keowen M, Garza F, Paul L, and **Banse H**. Impact of concurrent treatment with omeprazole on phenylbutazone-induced gastric ulceration in horses. Presented at the 66th Annual American Association of Equine Practitioners' Convention, November 2020, Las Vegas, NV.

St Blanc M, **Banse H**, Retif M, Arana-Valencia N, Keowen M, Garza F, Lui, C-C, Gray, L, Andrews F. Effects of supplements containing Turmeric and Devil's Claw on equine gastric ulcer scores and gastric juice pH. Presented at the 66th Annual American Association of Equine Practitioners' Convention, November 2020, Las Vegas, NV.

Rumfola E, **Banse H**, Ireland J, McGowan C. Survey of perspectives on veterinary diagnosis and management of laminitis in the field. Poster abstract presented at the Veterinary Scholars Program Symposium, July 2020 (virtual).

Paul L*, Ericsson A, Andrews F, Keowen M, St Blanc M, **Banse, H**. Comparison of the gastric microbiome in horses with and without equine glandular gastric disease: preliminary analysis of a field study. ePoster at the ACVIM Forum, June 2020, Baltimore, MD.

Banse H, Chapman A, Hazard N, Fletcher J. ACTH stability in frozen equine plasma. Presented at the 4th Global Equine Endocrine Symposium, January 2020, Gut Ising, Germany.

Banse H, Whitehead A, McFarlane D, Chelikani P. Comparison of skeletal muscle mass and skeletal muscle proteolysis in horses with and without PPID. Presented at the 4th Global Equine Endocrine Symposium, January 2020, Gut Ising, Germany.

Banse HE, Terumi Negrao Watanabe T*, Abarca-Garcia N*, Andrews F, Cruz-Sanabria J, Morales Yniguez FJ, Keowen M, Del Piero F. Relationship of gastric and small intestinal inflammation in equine gastric disease. Presented at the British Equine Veterinary Association Congress, September 2019, Birmingham, England.

Banse HE, McMillan CM, Anderson S, Hecker K, Skorobohach B, Carter R, Lewin A, Baker R, Dehghanpir S, Hale L, Grandt B, Kondro D*, Dorosz S, Ungrin M, Warren A. Validation of a canine ocular simulator for use in fundic examination. Short communication presented at the Veterinary Schools Council Veterinary Education Symposium, July 2019, Harpenden, England.

Paul L*, **Banse H**, Andrews F, Keowen M, Morales Yniguez FJ, Garza F and Ericsson A. Comparison of the gastric fluid and glandular mucosal microbiome in horses with and without equine glandular gastric disease. Presented at the Dorothy Havemeyer Foundation Workshop: Focus on Colic, August 2019, Granby, CO.

Cresci L*, Ericsson A, Lascola K, Johnson P, Martin L, LaCarubba A, Shaffer S*, **Banse H**, Paul L*, Barrell E. Identification of disease diagnostic and prognostic biomarkers in the equine gastrointestinal microbiome. Poster abstract presented at the Veterinary Scholars Program Symposium, July 2019, Worcester, MA.

Ricord M*, Andrews F, Morales Yniguez FJ, Keowen M, Garza F, Paul L, and **Banse H**. Impact of concurrent treatment with omeprazole on phenylbutazone-induced gastric ulceration in horses. Poster presented at the Veterinary Scholars Program Symposium, July 2019, Worcester, MA.

Paul L*, **Banse H**, Andrews F, Keowen M, Morales Yniguez FJ, Garza F and Ericsson A. Comparison of the gastric microbiome in horses with and without equine glandular gastric disease. Presented at the ACVIM Forum, June 2019, Phoenix, AZ.

Garcia-Abarca N*, **Banse H**, Terumi Negrao Watanabe T*, Andrews F, Cruz-Sanabria J., Morales Yniguez F.J., Keowen M., and Del Piero F. Relationship of endoscopic appearance, macroscopic, and histopathologic findings in equine glandular gastric disease. Poster presented at the ACVIM Forum, June 2019, Phoenix, AZ.

Paul L*, **Banse H**, Andrews F, Keowen M, Morales Yniguez FJ, Garza F and Ericsson A. Comparison of the gastric microbiome in horses with and without equine glandular gastric disease. Poster presented at Phi Zeta Day, February 2019, Baton Rouge, LA.

Garcia-Abarca N*, **Banse H**, Terumi Negrao Watanabe T*, Andrews F, Cruz-Sanabria J., Morales Yniguez F.J., Keowen M., and Del Piero F. Relationship of endoscopic appearance, macroscopic, and histopathologic findings in horses with and without equine glandular gastric disease. Poster presented at Phi Zeta Day, February 2019, Baton Rouge, LA

Connard S*, **Banse H**, Baker R, Del Piero F. Case report: Lymphoma in a Thoroughbred mare. Poster presented at the 64th Annual American Association of Equine Practitioners' Convention, December 2018, San Francisco, CA.

McMillan CM, **Banse HE**, Read M, Ungrin M, Kondro D*, Dorosz S, Skorobohach B. Comparison of the technical and decision-making steps of fundoscopy performed on a live dog compared to a 3D printed model. Presented at the InVeST Conference, October 2018, Knoxville, TN.

Garcia-Abarca N*, Watanabe T*, Del Piero F, Andrews F, Cruz-Sanabria J, **Banse H**. Relationship between endoscopic and histopathologic findings of the gastric glandular mucosa in horses. Poster abstract presented at the Veterinary Scholars Program Symposium, August 2018, College Station, TX.

Shaffer SK*, Johnson PJ, Austin SM, Lascola K, Wilkins PA, Blikslager AT, Davis E, Beard L, **Banse H**, Barrell E, Ericsson AC. Equine intestinal microbiome: the future of enteric disease prognostics. Poster abstract presented at the Veterinary Scholars Program Symposium, August 2018, College Station, TX.

Moser K* and **Banse HE**. Comparison of insulin and glucose responses in horses using two different formulations of corn syrup. Presented at the ACVIM Forum, June 2018, Seattle, WA.

Banse HE and Whitehead AE. How to diagnose and treat EGGD. Presented at the 64th Annual American Association of Equine Practitioners' Convention, November 2017, San Antonio, TX.

Moser K* and **Banse HE**. Evaluation of a Canadian formulation of corn syrup used in an oral sugar test for the diagnosis of equine insulin dysregulation. Poster abstract presented at the Summer Undergraduate Research Experience Program, August 2017, Calgary, AB.

Banse H, McFarlane D, Chelikani P. Clinical and endocrine parameters in horses with pituitary pars intermedia dysfunction treated with pergolide. Research report presented at the ACVIM Forum, June 2017 National Harbor, MD.

Banse H and McFarlane D. Comparison of seasonal TRH stimulation test results in horses with PPID treated with Prascend® or placebo. Dorothy Havemeyer International Equine Endocrine Summit Poster Abstract, January 2017, Coral Gables, FL.

Pedersen SK*, Cribb AE, Read EK, French D, **Banse HE**. Impact of phenylbutazone on equine gastric glandular prostaglandin concentration and ulcer score. Presented at the ECEIM Congress, November 2016, Helsinki, Finland.

Pedersen SK*, Read EK, French D, Cribb A, **Banse H**. Prevalence and risk factors for gastric ulceration in showjumping warmbloods. Presented at the ACVIM Forum, June 2015, Indianapolis, IN.

Banse H, Levy M, Getachew, F, Chrenek A, Crosby C, Gruber C, Schaal S, Whitehead A, Smits J. Hair cortisol in PPID. ACVIM Forum Poster Abstract, June 2015, Indianapolis, IN.

MacLeod H*, Windeyer C, Crosby C, **Banse H**. Prevalence and risk factors for gastric ulceration in polo horses. ACVIM Forum Poster Abstract, June 2015, Indianapolis, IN.

Banse HE, McFarlane D. Transcriptional regulation of proteolysis in skeletal muscle of aged, underweight horses. Presented at the 2nd Dorothy Havemeyer Foundation Geriatric Workshop/3rd Equine Endocrine Summit, Middleburg, VA, November 2014.

McFarlane D, **Banse HE**, Yang F, Maxwell D. Pharmacokinetics and pharmacodynamics of pergolide mesylate after chronic administration in horses with PPID. Presented at the ACVIM Forum, June 2014, Nashville, TN.

McFarlane D, **Banse HE**, Yang F, Maxwell D. Pharmacokinetics and pharmacodynamics of pergolide mesylate after chronic administration in horses with PPID. Presented at the European Equine Endocrinology Symposium, May 2014, Windsor, England.

McFarlane D, **Banse H**, Yang F. Response of serum insulin, oral sugar testing, and body weight in horses treated with Prascend. Presented at the European Equine Endocrinology Symposium, May 2014, Windsor, England.

McFarlane D, **Banse HE**, Frederic J, Yang F. The use of ACTH response to TRH stimulation for monitoring horses with PPID and those receiving pergolide treatment. European Equine Endocrinology Symposium, May 2014, Windsor, England.

Banse HE, McCann J, McFarlane D. Comparison of two immunoassays for detection of serum insulin in horses. Presented at the ACVIM Forum, June 2013, Seattle, WA.

Banse HE, McFarlane D, Frank N. Skeletal muscle oxidative stress in horses with equine metabolic syndrome. Presented at the Equine Endocrinology Summit, September 2012, Boston, MA.

Banse HE, Holbrook TC, Frank N, McFarlane D. Relationship between circulating inflammatory biomarkers and TNF- α concentrations in skeletal muscle of horses with equine metabolic syndrome. Equine Endocrinology Summit Poster Abstract, September 2012, Boston, MA.

Banse HE, Holbrook TC, Frank N, McFarlane D. Systemic and tissue inflammatory biomarkers in equine obesity. Presented at the 2012 ACVIM Forum: Equine Endocrinology Special Interest Group, June 2012, New Orleans, LA.

Banse HE, McFarlane D, Frank N. Absence of oxidative stress in the skeletal muscle of obese horses. Presented at the 2012 ACVIM Forum, June 2012, New Orleans, LA.

Banse HE, McFarlane D. Association of body condition score with metabolic regulatory gene expression and mitochondrial content in skeletal muscle of horses. Presented at the 2011 ACVIM Forum, June 2011, Denver, CO.

Elfenbein JR, House AM, Pusterla N, Carr E, **Banse H**, et al. A retrospective evaluation of erythrocytosis in horses with liver disease. 2011 ACVIM Forum Poster Abstract, June 2011, Denver, CO.

Banse HE, McFarlane D. Relationship of metabolic gene expression and mitochondrial content with body condition score in horses. Presented at the 7th Annual Harold Hamm Oklahoma Diabetes Center Research Retreat, November 2010, Oklahoma City, OK.

Banse HE, House AM, Gilliam LL, et al. Persimmon phytobezoars in horses associated with colic, weight loss, and diarrhea: thirteen cases (2001-2008). Presented at the 56th Annual American Association of Equine Practitioners' Convention, December 2009, Las Vegas, NV.

McKenzie EC, Lupfer C, Pастey M, **Banse H**, et al. Serum total globulin and IgA, IgE, IgG, and IgM concentrations in Alaskan sled dogs participating in the Iditarod Trail Sled Dog Race. 2008 ACVIM Forum Poster Abstract, June 2008, San Antonio, TX.

Banse HE, McKenzie, EC, Nelson S Jr., et al. Serum antibody titers to distemper, infectious hepatitis, and parvovirus of Alaskan sled dogs before and after the Iditarod Trail Sled Dog Race. 2007 ACVIM Forum Poster Abstract, June 2007, Seattle, WA.

Banse HE, Nelson S Jr., and Foreyt WJ. Prevalence pilot study of gastrointestinal parasites in Iditarod sled dogs. Presented at the Eighth Biennial Meeting and Congress of the International Sled Dog Veterinary Medical Association, September 2006, Grand Junction, CO.

*Student/trainee author
Presenting author

Other Publications

AAVMC Spectrum of Care Initiative Task Force, Ashbran K, Brodsky JE, **Banse HE**, Eckman S, Englar R, Fedesco H, Fingland R, Grguric M, Huston C, Khosa D, Noyes, J., Read EK, Stull, J, Warman, S, Zimmel, D. (2024). *The spectrum of care education model*. In AAVMC Spectrum of Care Initiative Task Force, H.N. Fedesco & J.E. Brosky (Eds.), Enhancing spectrum of care preparation in veterinary education programs: An implementation strategies guide (pp. 10-22). Washington D.C.: American Association of Veterinary Medical Colleges.

AAVMC Council on Outcomes-based Veterinary Education, Chaney KP, Hodgson JL, **Banse HE**, Danielson JA, Foreman JH, Kedrowicz AA, Meekins JM, Read EK, Salisbury SK, Taylor RM, Frost JS. (2024) *CBVE 2.0 Model*. Washington, DC: American Association of Veterinary Medical Colleges. <https://www.doi.org/10.17605/OSF.IO/9NTV5>

Lay Publications

Banse H. Test type and timing for decisions for PPID horses. *The Horse*, May, 2022.

Banse H. Testing for PPID: Challenges of interpretation. *The Horse*, January, 2020; p 8.

Banse H. Turmeric for horses? Consultants column, *Equus*, Spring, 2020.

Other Lay Media

Concurrent treatment with phenylbutazone and omeprazole in horses. *Horses in the Morning Podcast*, February 2021.

AState College of Veterinary Medicine. Arkansas AgCast Podcast, Arkansas Farm Bureau, July 2024.

Continuing Education/Professional Development Presentations-LSU Vet Med

Banse H. Using entrustable professional activities in clinical teaching. (29 x 1 h) Workshop for LSU VTH faculty, house officers, and technicians. 2022-Present.

Banse H. Making the most of the clinical teaching moment: tips and tricks. (1 h) LSU SVM House Officers, February 2024

Baker R and **Banse H.** Providing effective feedback. (2 h) LSU Vet Med House Officers, August 2023.

Baker R and **Banse H.** Providing effective feedback. (2 h) Presented to LSU Vet Med student Emerging Leaders Academy, January 2023.

Banse H. Antimicrobial pharmacology. (1 h) LSU SVM Technician Continuing Education Seminar, August 2022.

Banse H and Boudreaux B. Peer observation and evaluation of teaching. (3 h) Workshop for LSU SVM faculty, February 2022.

Banse H. Aligning objectives with assessments. (1 h) LSU SVM faculty, November 2021.

Banse H. How do I make the most of my objectives? (1 h) LSU SVM faculty, September 2021.

Banse H, Baker R, Leise B. Providing effective feedback. (2 h) LSU SVM faculty and staff, August 2021.

Domaracki C, Dehghanpir S, Baker R, **Banse H.** House officer feedback training workshop. (3 h) LSU SVM House Officers, July 2019, 2020, and 2021.

Banse H. Antimicrobial therapy in horses: Back to basics (1 h). LSU SVM Equine Health Studies Program Rounds, January 2021.

Taboada J, **Banse H.** Item analysis workshop. (1 h) LSU SVM Faculty, October 2019

Banse H. Making the most of the clinical teaching moment: Tips and Tricks. (1 h) LSU SVM Equine Health Studies Program Faculty and House Officers, February 2019

Banse H. Applying antimicrobial susceptibility testing (1 h). LSU SVM Equine Health Studies Program Rounds, November 2018.

Table Topics/Panel Discussions

Management of Gastric Ulcers (1.5 h). Co-facilitated question and answer session on equine gastric ulcer syndrome, American Association of Equine Practitioners Virtual Round Table, December 2023.

Management of Gastric Ulcers (1.5 h). Co-facilitated question and answer session on equine gastric ulcer syndrome, 69th Annual American Association of Equine Practitioners Convention, San Diego, CA, December 2023.

Fat, Fuzzy, or Foundered: Approach to diagnosis and management of horses with endocrine disease (1.5 h). Co-facilitated question and answer session on equine endocrine disease. American Association of Equine Practitioners Virtual Wednesday Round Table, August 2022.

Metabolic diseases (1.5 h). Co-facilitated question and answer session on equine metabolic diseases. 67th Annual American Association of Equine Practitioners Convention, Nashville, TN, December 2021.

Presentations-Regional or National

Equine glandular gastric disease: uncovering potential mechanisms. **Banse H.** Invited plenary Speaker, Spring Research Conference, April 2024, Stephens College, Columbia MO.

SOCI Workshop: Making Curricular Changes to Enhance Spectrum of Care Pedagogy. Fedesco H, **Banse H**, Brodsky J (1 h). AAVMC Annual Conference, Washington DC, April 2024.

Remediation in a competency-based curriculum (30 min). Read E and **Banse H.** AAVMC Annual Conference, Washington DC, April 2024.

Developing a competency-based employer survey: an AVMA-AAVMC Collaboration (30 min). **Banse H**, Tornquist S, Parker P, Brodsky J. AAVMC Annual Conference, Washington DC, April 2024.

CIVME and AVE: Development of organizations to support communities of practice among educators (1 h). **Banse H**, Hammond J, Fogelberg K. AAVMC Annual Conference, Washington DC, April 2024.

Equine glandular gastric disease: approach to diagnosis and management (45 min). **Banse H** and Paul L. American Association of Equine Practitioners Annual Convention, December 2023.

Approaches to development of methods to implement assessment of entrustable professional activities: perspectives from multiple institutions. (50 min) Burton E, Rollins D, **Banse H.** Presented at the Veterinary Educator Symposium, Amarillo, TX, September 2023

Development of a curricular thread to support day one readiness for clinical reasoning and evidence-based veterinary practice. (25 min) **Banse H**, Redmond J, Muir A, Mitchell M, Taboada J, Welborn M, Gaschen F, Sasaki E, Rademacher N, St. Blanc A, Welborn N, Dehghanpir S, Tully T, Collins B, Riggs L. Presented at the Veterinary Educator Symposium, Amarillo, TX, September 2023.

More than one way to revise a curriculum: experiences incorporating the CBVE Framework in curriculum revision efforts at three different institutions. (50 min) Schmidt P, Burton E, **Banse H.** Presented at the Veterinary Educator Symposium, Amarillo, TX, September 2023.

Operationalizing CBVE on the clinic floor: Using milestones and EPAs to guide student progress. (45 min) **Banse H.** SEVEC Educator Bootcamp, Knoxville, TN July 2023.

Procedural skills training: promoting readiness for practice. (1.5 h) **Banse H.** SEVEC Educator Bootcamp, Knoxville TN July 2023.

SEVEC peer evaluation training team workshop. (3 h) Conner B, **Banse H**, Hofmeister E, Sheats MK, Watson J. SEVEC Educator Bootcamp, Knoxville TN July 2023.

Assessment of EPAs to encourage feedback on the clinic floor. (1.5 h) **Banse H**, Burton E, and Read E. CBVE Summer Workshop, Columbus, OH June 2023.

Opportunities for assessment. (1.5 h) Foreman J, **Banse H**, Chaney K, Hodgson J. CBVE Summer Workshop, Columbus, OH, June 2023.

Remediation. Read E and **Banse H**. (1.5 h). CBVE Summer Workshop, Columbus, OH, June 2023.

Translating competency-based veterinary education into residency training. **Banse H** and Chaney K. (1 h) ACVIM Forum, Philadelphia, PA, June 2023.

Competency-based Education: current status at several schools of veterinary medicine. **Banse H**, Burton E, Schmidt P. (1.5 h). Education Day, College of Veterinary Medicine, University of Minnesota, St. Paul, MN, May 2023.

Planning for the Future: Evaluating Veterinary Workforce Demand. **Banse H**, Roush J, Schleining J, Chaney K, Stough-Hunter A, Navarre C, Boudreaux B, Shivley J, Anderson S, Ward J, Althouse G, Garden O. (30 min) AAVMC Annual Conference, Washington DC, March 2023.

Revisiting the AAVMC's Veterinary Competency-based Veterinary Education Model: CBVE 2.0. **Banse H**, Read E, Chaney K, Hodgson J. (1 h) AAVMC Annual Conference, Washington DC, March 2023.

Creation of a dashboard to support the assessment of EPAs in veterinary student training. **Banse H**, Khalil N. (30 min). AAVMC Annual Conference, Washington DC, March 2023.

Equine glandular gastric disease: new insights into etiologies. Paul L and **Banse H**. American College of Veterinary Internal Medicine Virtual Forum, September 2022

Diagnosing, managing, and feeding the PPID horse. Adams A, Bamford N, Harris P, **Banse H**. (2 h) American College of Veterinary Internal Medicine Forum, Austin, TX, June 2022.

CBVE Update and Implementation of EPAs. Chaney K and **Banse H**. (2.5 h) Presented at the Primary Care Veterinary Educator's Conference, Stillwater, OK, April 2022.

Development of pre-clinical milestones to support competency-based curricular redesign. **Banse H**, Welborn N, Baker R, Chapman A, Baker D, Dehghanpir S, Dugas T, Godfrey J, Green H III, Johnson S, Langohr I, Hale-Mitchell L, Mitchell M, Mirza M, Osborn M, Scully C, Taboada J, Vatta A, Watkins D, Boudreaux B. (30 min) AAVMC Annual Conference, Washington, DC, March 2022.

Aging Gracefully: How to manage the geriatric horse. **Banse H.** (1 h) CanWest Veterinary Conference, virtual, October 2021.

Pain or Inflammation? How to approach NSAID selection in horses. **Banse H.** (1 h) CanWest Veterinary Conference, virtual, October 2021.

Equine glandular gastric disease: Lesions or ulcers. **Banse H.** (1 h) CanWest Veterinary Conference, virtual, October 2021.

Approach to diagnosis of endocrinopathic laminitis. **Banse H.** (1 h). Southwest Veterinary Symposium, San Antonio, TX, September 2021.

Approach to management of endocrinopathic laminitis. **Banse H.** (1 h) Southwest Veterinary Symposium, San Antonio, TX, September 2021.

Antimicrobials in equine practice: how to choose which one to use. **Banse H.** (1 h) Southwest Veterinary Symposium, San Antonio, TX, September 2021.

New insights into equine glandular gastric disease. **Banse H.** (1 h). Southwest Veterinary Symposium, San Antonio, TX, September 2021.

NSAID selection in horses: a case-based approach. **Banse H.** (1 h) AVMA Convention, virtual, July, 2021.

NSAID-induced gastrointestinal disease: pathophysiology and treatment. **Banse H.** (1 h) ACVIM Forum, virtual, June 2021.

Aging gracefully: Care of the geriatric horse. (1 h). LVMA Winter Meeting, Baton Rouge, LA, April 2021.

The coughing horse: how to choose and interpret respiratory diagnostics. **Banse H.** (1 h). LVMA Winter Meeting, Baton Rouge, LA, April 2021.

Exploring models for educational development in the Southeast Veterinary Education Consortium. Clouser S, **Banse H.**, Lane I, Bailey M, Fogelberg K. (30 min) Presented at AAVMC Annual Conference, virtual, March 2021

Donkeys are not just long-eared horses. **Banse H.** (1 h) AVMA Convention, virtual, August 2020.

Improving performance: providing effective feedback to trainees. **Banse H.**, Domaracki C, Baker R, Dehghanpir S. (1 h) ACVIM pre-Forum specialty day, Baltimore, MD, June 2020.

Diagnosis and management of endocrinopathic laminitis. **Banse H.** (1 h) LVMA Winter Meeting, Lafayette, LA, January 2019.

How to manage laminitis in the field. **Banse H.** (0.75 h). CanWest Veterinary Conference, Banff, AB, October 2017.

How to manage colic in the field. **Banse H.** (0.75 h). CanWest Veterinary Conference, Banff, AB, October 2017.

Approach to colic management in the field. **Banse H.** (1 h) Iowa Veterinary Medical Association Conference, Des Moines, IA, February 2017.

NSAIDs: A review. **Banse H.** (1 h) Iowa Veterinary Medical Association Conference, Des Moines, IA, February 2017.

NSAIDs: A case-based approach to selection. **Banse H.** (1 h) Iowa Veterinary Medical Association Conference, Des Moines, IA, February 2017.

Antimicrobials: a review. **Banse H.** (1 h) Iowa Veterinary Medical Association Conference, Des Moines, IA, February 2017.

Antimicrobials: A case-based approach to selection. **Banse H.** (1 h) Iowa Veterinary Medical Association Conference, Des Moines, IA, February 2017.

When and which NSAID to use. **Banse H.** (1 h) Alberta Horse Conference, Edmonton, AB, January 2017.

Differentiating infection from inflammation: interpreting CBCs and inflammatory markers. **HE Banse** and AE Whitehead. (1 h) CanWest Veterinary Conference, Banff, AB, October 2016.

The coughing horse: performing and interpreting airway diagnostics. **HE Banse** and AE Whitehead. (1 h) CanWest Veterinary Conference, Banff, AB, October 2016.

What to do with those Is and Rs: applying antimicrobial susceptibility testing. **HE Banse** and AE Whitehead. (1 h) CanWest Veterinary Conference, Banff, AB, October 2016.

Basic Equine Thoracic and Abdominal Ultrasound. AE Whitehead and **HE Banse** (4 h wet lab). CanWest Veterinary Conference, Calgary, AB October 2016.

Infectious or inflammatory? Interpreting respiratory diagnostics. **Banse HE.** (1 h) Saskatchewan Veterinary Medical Association Conference, Saskatoon, SK, September 2016.

FPT, sepsis, or neonatal encephalopathy? How to tell and what to do. **Banse HE.** (1 h) Saskatchewan Veterinary Medical Association Conference, Saskatoon, SK, September 2016.

Approach to colic management in the field. **Banse HE.** (1 h) Saskatchewan Veterinary Medical Association Conference, Saskatoon, SK, September 2016.

Review of non-steroidal anti-inflammatory drug selection in horses. **Banse HE** and Cribb AE (25 min). American Association of Equine Practitioners 61st Annual Convention, Las Vegas, NV, December 2015.

Medication use and abuse in equine performance: Focus on FEI, Equine Canada, and the Calgary Stampede. **Banse H.** (0.5 h) Plenary Speaker; Saskatoon International Workshop on Laboratory and Regulatory Analysis. Calgary, AB, June 2015.

Cresty Necks and Foundered Feet: Differentiating PPID from EMS. **Banse H.** (2.5 h) CanWest Veterinary Conference, Banff, AB, October 2014.

Fat founder and the easy keeper: current thoughts on equine metabolic syndrome. **Banse H.** (1 h) Oklahoma Veterinary Medical Association Summer Seminar, Stillwater, OK, June 2011.

Community Outreach

Panel discussion on the equine veterinary industry and admission to veterinary school to pre-vet students. **Banse H,** Gilliam L, Easterwood L. (1 h). LVMA Equine. September 2022.

Equine Expert Panel: Equine Gastric Ulcer Syndrome. Sykes B, **Banse H,** Marlin D. (2.5 h). Legacy Equine Nutrition, panel discussion for horse owners (virtual). October 2021.

Equine cardiology. (1.5 h). Student Canadian Veterinary Medical Association Symposium, University of Calgary. Instructed laboratory sessions for veterinary students (years 1-3): January 2017.

Equine Emergencies. (3 h). Student Canadian Veterinary Medical Association Symposium, University of Calgary. Instructed laboratory sessions for veterinary students (years 1-3): January 2017.

New insights into equine gastric ulcer syndrome (EGUS). **Banse H.** (0.75 h). Horse Health Day, University of Calgary. Presented to horse owners and pony club members. October 2016

IBK: Assessing antimicrobial efficacy. **Banse H.** (0.5 h). Infectious Bovine Keratitis (IBK) Rounds, University of Calgary. Presented to cattle producers and veterinarians. November 2015.

Equine intestinal parasites and deworming strategies. **Banse H.** (1 h). Horse Health Day, University of Calgary: Presented to horse owners and pony club members. October 2015.

Care of the geriatric horse. **Banse H.** (0.75 h). Horse Health Day, University of Calgary. Presented to horse owners and pony club members. November 2014.

Lameness Locator. (4 x 1 h). Vet-U-Can, University of Calgary. Demonstrated the use and clinical implications of the lameness locator in diagnosis of equine lameness to the public. October 2014.

Colic. (6 h). Horse Health Day, University of Calgary. Instructed horse owners on diagnosis and treatment of medical colic (6 h). October 2013.

Research Funding (grants and contracts):

Bile acid profiling of pyloric gastric fluid and serum in horses with and without glandular gastric disease. Paul L, **Banse H**. American Quarter Horse Foundation, 2022. Budget: \$19,816.

Comparison of learner performance: free recall versus CTA-based instruction. McMillan C, **Banse H**, Williams M, Ramey K, Carter R, Hecker K. Veterinary Education Research Fund, University of Calgary, 2022. Budget: \$8,400

Investigation of genetic risk alleles for pituitary pars intermedia dysfunction. McCue M, McFarlane D, Hughes L, Paradis MR, Schott H, van Eps A, Kritchevsky J, **Banse H**. Morris Animal Foundation, 2020. Budget: \$58,959 USD.

Is “one session, one skill” always better? The impact of number of skills taught per clinical skills laboratory session on learner cognitive load and skill retention. **Banse H**, Baker R, Domaracki C, Hunt, J. Southeast Veterinary Education Consortium Veterinary Education Research Grant, 2020. Budget: \$2,480 USD.

Impact of concurrent treatment with omeprazole and phenylbutazone on gastrointestinal health in horses. **Banse H**, Whitfield-Cargile C, Ericsson A, Andrews F. EHSP Charles V. Cusimano Research Grants (LSU SVM), 2020. Budget: \$8,000 USD.

Impact of the combination of phenylbutazone and omeprazole on the equine gastrointestinal tract. Whitfield-Cargile C, **Banse H**, Coleman M, Chamoun A. Texas A & M Veterinary Large Animal Clinical Sciences Grant, 2020. Budget: \$12,500 USD.

How does distribution of clinical skills instruction impact learner cognitive load and skill retention? **Banse H**, Baker R, Domaracki C, Hunt J, LSU SVM Education Research Grant, 2020. Budget: \$4,800 USD.

Comparison of the gastric microbiome in horses with and without EGGD (field study). **Banse H**, Paul L*, Andrews F, Ericsson A. Boehringer Ingelheim Animal Health, 2019-2022. Budget: \$64,647 USD.

Comparison of the gastric microbiome in horses with and without equine glandular gastric disease (EGGD). Paul L*, **Banse H**, Andrews F, Ericsson A. EHSP Charles V. Cusimano Research Grants (LSU SVM), 2018. Budget: \$5,000 USD.

Impact of teaching with a high-fidelity simulated model and cognitive task analysis-based teaching methods on veterinary student ophthalmoscopy skills. McMillan C, **Banse H** (Co-PI), Skorobohach B, Read M, Hecker K, Ungrin M, Kondro D*, Carter R. Veterinary

Education Research Fund (University of Calgary) and LSU SVM internal funding, 2018. Budget: \$7,400 USD.

Impact of concurrent treatment with omeprazole on phenylbutazone-induced gastric ulceration in horses. **Banse H**, Chapman A, Andrews F. EHSP Charles V. Cusimano Research Grants (LSU SVM), 2018. Budget: \$10,000 USD.

Characterization of inflammatory cell infiltrate in equine glandular gastric disease (EGGD) **Banse H**, Andrews F, Watanabe T*, Del Piero F. USDA 1433 (LSU SVM), 2018. Budget: \$7,000 USD.

ACTH stability in frozen equine plasma. **Banse H**, Chapman A, Fletcher J. Source: Boehringer-Ingelheim Vetmedica, 2018-2020. Budget: \$13,125 USD

Comparison of Karo Light and Crown Light syrup for assessment of insulin regulation in horses. **Banse H**. Source: Boehringer-Ingelheim Vetmedica, 2017. Budget: \$16,908 CDN

Simulated ophthalmoscopy model: validity and cognitive task analysis. McMillan C, **Banse H** (Co-PI), Ungrin M, Read M, Hecker K, Skorobohach B, Kondro D*. Veterinary Education Research Fund, University of Calgary Faculty of Veterinary Medicine, 2016. Budget: \$9,400 CDN.

Seasonal regulation of hair cortisol concentration in horses with pituitary pars intermedia dysfunction. **Banse H**, Levy M, Smits J, Chrenek A, and Crosby C. Source: Clinical Research Fund, University of Calgary Faculty of Veterinary Medicine, 2015. Budget: \$18,350 CDN

Impact of Prascend® on regulation of skeletal muscle protein metabolism in PPID-associated muscle atrophy. **Banse H**, McFarlane D. Source: Boehringer-Ingelheim Vetmedica, 2015. Budget: \$20,900 CDN

Regulation of protein metabolism in muscle atrophy of horses with pituitary pars intermedia dysfunction. **Banse H**, Chelikani P. University Research Grants Committee, University of Calgary, 2014. Budget: \$15,000 CDN

Impact of phenylbutazone on prostaglandin concentration in equine gastric glandular mucosa. **Banse H**, Pedersen S*, French D, Read E, Cribb A. Source: Clinical Research Fund, University of Calgary Faculty of Veterinary Medicine, 2014. Budget: \$15,337 CDN

Metabolic gene expression and mitochondrial content in horses with equine metabolic syndrome. **Banse HE**, McFarlane D. Source: American Quarter Horse Foundation Young Investigator Award, 2011. Budget: \$17,670 USD

Metabolic gene expression and mitochondrial function in horses with equine metabolic syndrome. **Banse HE**, McFarlane D. Source: Research Advisory Committee, Oklahoma State University, 2011. Budget: \$3,000 USD

Effect of a fifty mile race on duodenal motility in endurance-trained horses. Holbrook TC, **Banse HE** (Co-PI). Source: Research Advisory Committee and Veterinary Clinical Sciences, Oklahoma State University, 2010. Budget: \$4,025 USD

Serum antibody titers to core vaccinations in endurance sled dogs. Hinchcliff, KW, **Banse HE**, Nelson S Jr. Source: International Sled Dog Veterinary Medical Association and Fort Dodge, Inc, 2006. Budget: \$4,600 USD

Prevalence pilot study of gastrointestinal parasites in Iditarod sled dogs. **Banse HE**, Nelson S Jr. Source: International Sled Dog Veterinary Medical Association and State of Alaska Department of Environmental Health, 2005. Budget: \$4,000 USD

*Student/trainee

Honors and Awards:

Teacher of the Year (Class of 2023), 2022

Teacher of the Year (Class of 2022), 2021

Dean's Teacher Merit Honor Roll

- 2024 (Years 1, 3, 4)
- 2023 (Years 2, 3)
- 2022 (Years 2, 3)
- 2021 (Years 2, 3, 4)
- 2020 (Years 2, 4)
- 2019 (Years 2, 3, 4)
- 2018 (Year 3)

Faculty Fellow, LSU Learning and Teaching Collaborative, 2020-2021

- Appointed as one of 12 faculty campus-wide to lead professional development in instruction across LSU

OSU Phi Zeta Research Day, 1st Place, Graduate Student Clinical/Applied Research, 2012

EQUUS Foundation Research Fellow, 2011

Philanthropic Educational Organization Scholar Award, 2011

Phi Zeta (inducted, 2007)

Research Scholar, Washington State University, 2004-2006

Summer Research Fellowship, Washington State University, 2005

Professional Service

2021-Present **Spectrum of Care Initiative Task Force/Working Group, AAVMC**

2023-Present **Graduate Outcomes Assessment Task Force, AAVMC**

2023-Present **ACVIM Forum Program Committee: Assistant Chair (2023); Chair (2024)**

2022-Present **Council on Outcomes-Based Veterinary Education (COVE**

2023-Present **Co-Chair, "Advocate" Sub-Group, AAVMC's Competency-Based Veterinary Education Working Group**

2023-2024 **AAVMC's Spectrum of Care Change Agents**

2022-2024 **Secretary, Academy of Veterinary Educators (AVE)**

2022-2024 **Continuing Education Committee, Academy of Veterinary Educators: Chair (2022-2023); Member (2023-2024)**

2020-2024 **Member, Southeast Veterinary Education Collaborative (SEVEC) Steering Committee**

2022-2024 **AAVMC's Academic Affairs Committee**

2021-2024 **SEVEC Veterinary Education Research Committee**

2023 **Rapid Blueprinting Advisory Committee, International Council for Veterinary Assessment (ICVA)**

2022-2023 **SEVEC Peer Evaluation of Teaching Committee**

2020-22; 2017-19 **Equine Programs Committee, American Association of Equine Practitioners (AAEP)**

2022 **Co-Chair, Faculty Development and Curriculum, "Catalyze" Sub-Group, AAVMC's Competency-Based Veterinary Education (CBVE) Working Group**

2022 **Reviewer, Equine Guelph Research Committee**

2020-2022 **American Association of Veterinary State Boards (AAVSB) Program for Assessment of Veterinary Education Equivalence (PAVE) Committee (AAVC representative)**

2021 **Reviewer, Hong Kong Jockey Club Equine Welfare Research Foundation**

2014-2021 **Scientific Advisory Council, Horses and Humans Research Foundation**

2018-2020 **ACVIM Case Report/Case Writing Assessment Committee**

2017 **Reviewer, DuMont Equine Research Fund, University of Saskatchewan**

2014-2017 **ACVIM (LA) Credentials Committee**

2012-2016 **ACVIM Equine Forum Planning Committee**

LSU Service: University

2022-2023 **Courses and Curriculum Committee; monthly meetings; reviewed all new courses campus-wide**

LSU Service: SVM

01/24-07/24 **Search Committee Chair, Director of Clinical Reasoning Education**

01/23-03/24 **Search Committee Chair, Assistant/Associate Professor and Director of Surgical Skills**

01/22-07/24 **Led curriculum redesign teams organized by thread (e.g, clinical skills, clinical reasoning) or body system (e.g., cardiovascular, nervous) in development of integrated, cross-disciplinary courses for the new curriculum (years 1-3)**

10/20-07/24 **Deans' Council**

09/19-07/24 **Courses and Curriculum Committee (ex-officio)**

09/19-07/24 **Scholastic Standards Committee (ex-officio)**

06/18-07/24 **VCS Research Committee**

03/24-04/24 **Peer Review Committee**

03/24-05/24 **Search Committee Chair, Instructor of Anesthesiology**

12/23-4/24 **Search Committee Chair**, Director of Education for Veterinary Technology

04/23-01/24 **Search Committee Chair**, Assistant Professor of Curricular Analytics

04/23-08/23 **Search Committee Chair**, Instructional Designer

03/23-05/23 **Search Committee**, Administrative Assistant

03/23-08/23 **Search Committee**, Assistant Professor of Pathology and Clinical Skills

01/23-04/23 **Search Committee Chair**, Assistant Professor and Director of Clinical Skills

05/22-04/23 **Search Committee Chair**, Assistant Professor of Veterinary Practice Skills

05/22-01/23 **Search Committee Chair**, Chair and Associate/Assistant Professor of Veterinary Practice Skills

04/20-05/23 **Co-Chair, Clinical Skills Program**

06/18-12/22 **LSU Vet Med Teaching and Learning Academy**; founder

07/19-08/22 **Chair, Curriculum Review Committee**

01/22-05/22 **Director, Graduate Certificate in Teaching in the Health Professions Program**; oversight of two students in the program

02/22-04/22 **Search Committee**, Assistant Professor of Equine Medicine

07/21 **Search Committee**, Curriculum and Academic Coordinator

09/20 **Search Committee**, Clinical Skills Technician

2018-2022 Interviewed applicants for admission to LSU SVM (6 hours/year)

2017-2022 Reviewed ~15 folders of applicants for admission to LSU SVM/year

06/20 **Search Committee**, Clinical Skills Instructor

02/18 **Search Committee**, Theriogenology Instructor

University of Calgary Service

02-06/17 **Search Committee**, Assistant Dean-Admissions

05/15-06/17 **Admissions Committee**

04/15-06/17 **UCVM Undergraduate and Teaching Awards Committee**

01/14-06/17 **Second Year Teachers' Committee**

02/2016 **Graduate Awards Committee**

04-07/15 **Search Committee**, VCDS Department Head

04-07/15 **Search Committee**, Large Animal Surgeon

10/14-12/15 **Internship Committee**

08/14-12/15 **Internship Research Fund Review**

04/14 **Veterinary Education Research Fund Review**

12/13-4/14 **4th year Assessment Review Committee**

01-04/14 **Area of Emphasis Review Committee**

05-07/13 **Search Committee**, Equine Performance Horse Health

05-07/13 **Search Committee**, VCDS Department Head

Students/House Officers Supervised and Graduate Committee Memberships

Graduate students/House Officers advised

Advisor (PhD) and Residency Mentor: Linda Paul, DVM, Diplomate, ACVIM-LA, PhD (PhD Student and Equine Internal Medicine Resident, LSU SVM 07/2018-12/2023)

**Selected as the EQUUS Foundation for the Horse Research Fellow, 2022*

Internship Advisor: Lindsay Knott, DVM (Intern, Equine Medicine and Surgery, 2018-2019)

Supervisor (equivalent to Advisor): Sarah Pedersen, DVM, MSc (MSc student and Sport Horse Medicine Clinical Fellow, University of Calgary 06/2013-07/2017)

Graduate Committee Memberships:

Kalie Beckers (DVM/PhD student, 08/19-04/23)

Rizaldy Zapata (PhD student, 09/13-08/17)

Arashdeep Singh (PhD student, 09/13-08/17)

Dean's Representative:

Yunxia Wang (PhD student, 01/2018-08/2023)

External Examiner (Thesis):

Kate Kemp (PhD student, University of Queensland, 2024)

Summer research students (DVM and undergraduate):

Meera Patel (LSU SVM Class of 2023), 2021 (Funding: Summer Scholars Program)

Elizabeth Rumfola (LSU SVM Class of 2022), 2020 (Funding: Summer Scholars Program)

Megan Ricord (LSU SVM Class of 2021), 2019 (Funding: Summer Scholars Program)

Nicolas Garcia-Abarca (LSU SVM Class of 2020), 2018 (Funding: Equine Health Studies Program)

Kira Moser (UCVM Class of 2019), 2017 (Funding: Summer Undergraduate Research Experience)

Kirianna Crowe (BS, University of British Columbia, 2016), 2015

Heath MacLeod (UCVM Class of 2017), 2014 (Funding: VCDS Department)

Faculty Development—Leadership and DEI

Building Capacity on Campus with the Change Leadership Toolkit, University of Southern California-Rossier Pullias Center for Higher Education; Fall 2023-Spring 2024

Leadership Academy, American Association of Veterinary Medical Colleges; Fall 2023-Spring 2024

Vet Med Advanced Leadership Academy, LSU Vet Med; November 2022

Summer Leadership Institute, LSU; August 2022

Controversial Issues, NCBI; April 2021

Welcoming Diversity, NCBI; April 2021

Crucial Conversations; November 2019