

Curriculum Vitae

ELIZABETH M. COLLAR

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EDUCATION/TRAINING

PhD	Comparative Health Sciences Oregon State University	2020
Graduate Certificate (GCCUT)	Certificate in College and University Teaching Oregon State University	2019
DACVS-LA	Large Animal Surgery Board Certification by the American College of Veterinary Surgeons	2018
Certificate of Completion	Large Animal Surgical Residency Oregon State University, College of Veterinary Medicine	2017
DVM	Veterinary Medicine, Equine Emphasis University of Minnesota, College of Veterinary Medicine	2007-2011
BS	Veterinary Science University of Minnesota	2008

PROFESSIONAL EXPERIENCE

Department of Large Animal Clinical Sciences University of Tennessee, College of Veterinary Medicine <i>Assistant Professor of Equine Surgery, Knoxville, TN</i>	Jan 2020-present
Tacoma Equine Hospital <i>Consulting Equine Surgeon, Tacoma, WA</i>	March 2019-present
Oregon State University, Veterinary Teaching Hospital <i>Consulting Equine Surgeon for ORDSP, Corvallis, OR</i>	Sept 2019-March 2022
Marion duPont Scott Equine Medical Center <i>Locum Equine Surgeon, Leesburg, VA</i>	July-September 2022
Montana Equine Medical and Surgical Center <i>Consulting and Locum Equine Surgeon, Three Forks, MT</i>	July 2017-2021
Department of Clinical Sciences Oregon State University, Veterinary Teaching Hospital <i>Large Animal Emergency Surgeon and Graduate Teaching Assistant, Corvallis, OR</i>	July 2017-Dec 2019
Paton and Martin Veterinary Services <i>Equine Surgery and Hospitalist Locum, Aldergrove, BC, CAD</i>	June 2018-Oct 2018
Department of Large Animal Clinical Sciences Virginia-Maryland College of Veterinary Medicine <i>Large Animal Surgery Locum, Blacksburg, VA</i>	July 2017-Aug 2017

Department of Clinical Sciences Oregon State University, Veterinary Teaching Hospital <i>Large Animal Surgery Resident and Graduate Teaching Assistant, Corvallis, OR</i>	July 2014-July 2017
Department of Surgical and Radiological Sciences University of California, Davis, School of Veterinary Medicine <i>Staff Research Veterinarian, Davis, CA</i>	May 2013-July 2014
J.D. Wheat Veterinary Orthopedic Research Laboratory University of California, Davis, School of Veterinary Medicine <i>Staff Research Veterinarian, Davis, CA</i>	July 2012-May 2013
Hagyard Equine Medical Institute <i>Equine Surgery Intern, Lexington, KY</i>	June 2011-June 2012
University of Minnesota, Large Animal Hospital and Equine Center <i>Veterinary Technician, Saint Paul, MN</i>	2007-2011
University of Minnesota Equine Center <i>Research Assistant, Saint Paul, MN</i>	July-Aug 2010
University of Minnesota Equine Center <i>Research Assistant, Saint Paul, MN</i>	Oct 2009-April 2010
Equine Sports Medicine <i>Veterinary Assistant, Prairie Meadows Racetrack, Altoona, IA</i>	May-Aug 2008-2009

SUPPLEMENTAL SPECIALTY TRAINING

AO Faculty Education Program, online/in person hybrid/Wayne, PA	June-July 2023
AO/ASIF Advanced Techniques of Equine Fracture Management Course, Columbus, OH	April 2017
Texas A&M, College Station, TX: Pathology with Dr. Roy Pool, 1 week	November 2016
Circle Oak Equine, Petaluma California: Imaging with Dr. Sarah Puchalski, 2 weeks	October 2015 and 2016
Hagyard Equine Medical Institute, Lexington, KY: Surgery, 1 week	May 2016
AO/ASIF Principles of Equine Fracture Management Course, Columbus, OH	April 2016
UC Davis, Davis, CA: Diagnostic Imaging, 1 week	October 2015
Colorado State University, Fort Collins, CO: Anesthesia, 2 weeks	February 2015
Oregon State University, Corvallis, OR: Large Animal Internal Medicine, 2 weeks	October 2014
ISELP Module on The Equine Pelvis, Lexington, KY	October 2011

TEACHING EXPERIENCE

Department of Large Animal Clinical Sciences University of Tennessee, College of Veterinary Medicine <i>Assistant Professor of Equine Surgery, Knoxville, TN</i>	Jan 2020-present
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<u>Year</u>	<u>Term</u>	<u>Course</u>	<u>Type/Hours</u>
2024	Fall	VMP 835 Principles and Practices of Surgery Course Coordinator Instruction of 2 nd year veterinary students in principles of surgery.	Lecture: 4 hrs Lab: 24 hrs Additional course efforts: 40 hrs
		Large Animal Surgery Reading Rounds Instruction in large animal surgery for residents and post DVM graduate students.	Lecture/Facilitated discussion: 14 hrs

	VMP 850 and ANSC 515 Reproductive System Instruction of 3 rd year veterinary and graduate students in equine reproductive surgery.	Lecture: 1 hr
	VMC 823 Equine Surgery, Lameness, and Rehabilitation Rotation Clinical supervision and teaching of 3 rd /4 th year veterinary students on equine surgery, lameness and rehabilitation rotation.	Clinical: 20 wks/yr
Summer	VMC 823 Equine Surgery, Lameness, and Rehabilitation Rotation Clinical supervision and teaching of 3 rd /4 th year veterinary students on equine surgery, lameness and rehabilitation rotation.	Clinical: 20 wks/yr
	Large Animal Surgery Reading Rounds Instruction in large animal surgery for residents and post DVM graduate students.	Lecture/Facilitated discussion: 14 hrs
	Veterinary Student Summer Research Mentor: Chessa Brown Subchondral Bone Disease and Treatment Outcomes in Non-Racing Horses.	
	Veterinary Student Summer Research Mentor: Natalie Azzolini Pharmacodynamics of Intravenous and Oral Esomeprazole in Horses Administered Phenylbutazone and Dexamethasone.	
	Veterinary Student Summer Research Mentor: Ellie Lewis Equine Deep Digital Flexor Tendon, Navicular Bone, and Navicular Bursa Lesion.	
Spring	VMP 830 Alimentary System Instruction of 2 nd year veterinary students in equine alimentary surgery.	Lecture: 2 hrs
	VMC 823 Equine Surgery, Lameness, and Rehabilitation Rotation Clinical supervision and teaching of 3 rd /4 th year veterinary students on equine surgery, lameness and rehabilitation rotation.	Clinical: 20 wks/yr
	CEM 515 Topics in Large Animal Surgery Course Coordinator Instruction in large animal surgery for residents and graduate students. Large animal surgery reading rounds.	Lecture/Facilitated discussion: 14 hrs
	CEM 613 Large Animal Surgery Journal Club Facilitated discussion and instruction in journal article evaluation of large animal surgery related peer-reviewed journal articles for residents and post DVM graduate students.	Facilitated discussion: 14 hrs
	ABLE (Application-Based Learning Exercise)- Equine surgical colic.	Facilitated discussion: 2 hours
	SCAAEP Club Lab- Distal limb anatomy and limb dissection.	Lab: 5 hours
2023 Winter	VMC 823 Equine Surgery, Lameness, and Rehabilitation Rotation Clinical supervision and teaching of 4 th year veterinary students on equine surgery, lameness and rehabilitation rotation.	Clinical: 20 wks/yr

	<p>Large Animal Surgery Reading Rounds Instruction in large animal surgery for residents and post DVM graduate students.</p>	Lecture/Facilitated discussion: 3 hrs
Fall	<p>VMP 835 Principles and Practices of Surgery Course Coordinator Instruction of 2nd year veterinary students in principles of surgery.</p>	<p>Lecture: 4 hrs Lab: 24 hrs Additional course efforts: 40 hrs</p>
	<p>Large Animal Surgery Reading Rounds Instruction in large animal surgery for residents and post DVM graduate students.</p>	Lecture/Facilitated discussion: 14 hrs
	<p>VMP 850 and ANSC 515 Reproductive System Instruction of 3rd year veterinary and graduate students in equine reproductive surgery.</p>	Lecture: 1 hr
	<p>VMC 823 Equine Surgery, Lameness, and Rehabilitation Rotation Clinical supervision and teaching of 3rd/4th year veterinary students on equine surgery, lameness and rehabilitation rotation.</p>	Clinical: 20 wks/yr
	<p>CEM 613 Large Animal Surgery Journal Club Facilitated discussion and instruction in journal article evaluation of large animal surgery related peer-reviewed journal articles for residents and post DVM graduate students.</p>	Facilitated discussion: 14 hrs
Summer	<p>VMC 823 Equine Surgery, Lameness, and Rehabilitation Rotation Clinical supervision and teaching of 3rd/4th year veterinary students on equine surgery, lameness and rehabilitation rotation.</p>	Clinical: 20 wks/yr
	<p>CEM 613 Large Animal Surgery Journal Club Facilitated discussion and instruction in journal article evaluation of large animal surgery related peer-reviewed journal articles for residents and post DVM graduate students.</p>	Facilitated discussion: 14 hrs
	<p>Large Animal Surgery Reading Rounds Instruction in large animal surgery for residents and post DVM graduate students.</p>	Lecture/Facilitated discussion: 14 hrs
	<p>Veterinary Student Summer Research Mentor: Chessa Brown Clinical effect of multidose oral administration of firocoxib and t-TUCB alone and in combination for the treatment of osteoarthritis in horses</p>	
	<p>Veterinary Student Summer Research Mentor: Demi Striligas Outcomes and Complications of the Equine Phallectomy – a 15 Year Retrospective.</p>	
Spring	<p>CEM 618 Bone Physiology Developed Course / Course Coordinator Instruction of graduate students in current issues, trends, and topics in bone physiology and related topics.</p>	<p>Lecture: 9 hours Lab/Facilitated Discussion: 7 hours</p>
	<p>VMP 840 Musculoskeletal System Instruction of 2nd year veterinary students in equine musculoskeletal diseases, treatments, and surgeries. Recorded distal</p>	Lecture: 5 hrs

limb dissection.

VMP 830 Alimentary System
Instruction of 2nd year veterinary students in equine alimentary surgery. Lecture: 2 hrs

VMC 823 Equine Surgery, Lameness, and Rehabilitation Rotation
Clinical supervision and teaching of 3rd/4th year veterinary students on equine surgery, lameness and rehabilitation rotation. Clinical: 20 wks/yr

CEM 515 Topics in Large Animal Surgery
Course Coordinator
Instruction in large animal surgery for residents and graduate students. Large animal surgery reading rounds. Lecture/Facilitated discussion: 14 hrs

CEM 613 Large Animal Surgery Journal Club
Facilitated discussion and instruction in journal article evaluation of large animal surgery related peer-reviewed journal articles for residents and post DVM graduate students. Facilitated discussion: 14 hrs

SCAAEP Club Lab- Distal limb anatomy and limb dissection. Lab: 5 hours

2022 Winter VMC 823 Equine Surgery, Lameness, and Rehabilitation Rotation
Clinical supervision and teaching of 4th year veterinary students on equine surgery, lameness and rehabilitation rotation. Clinical: 20 wks/yr

Large Animal Surgery Reading Rounds
Instruction in large animal surgery for residents and post DVM graduate students. Lecture/Facilitated discussion: 3 hrs

Fall VMP 835 Principles and Practices of Surgery
Course Coordinator
Instruction of 2nd year veterinary students in principles of surgery. Lecture: 4 hrs
Lab: 24 hrs
Additional course efforts: 40 hrs

CEM 515 Topics in Large Animal Surgery
Course Coordinator
Instruction in large animal surgery for residents and graduate students. Large animal surgery reading rounds. Lecture/Facilitated discussion: 14 hrs

VMP 850 and ANSC 515 Reproductive System
Instruction of 3rd year veterinary and graduate students in equine reproductive surgery. Lecture: 1 hr

VMP 884 Large Animal Clinical Skills
Instruction of 2nd year veterinary students in equine distal limb anatomy and palpation and basic lameness evaluation skills. Lab: 4 hrs

VMC 823 Equine Surgery, Lameness, and Rehabilitation Rotation
Clinical supervision and teaching of 3rd/4th year veterinary students on equine surgery, lameness and rehabilitation rotation. Clinical: 20 wks/yr

CEM 613 Large Animal Surgery Journal Club
Facilitated discussion and instruction in journal article evaluation of large animal surgery related peer-reviewed journal articles for residents and post DVM graduate students. Facilitated discussion: 14 hrs

Summer	VMC 823 Equine Surgery, Lameness, and Rehabilitation Rotation Clinical supervision and teaching of 3 rd /4 th year veterinary students on equine surgery, lameness and rehabilitation rotation.	Clinical: 20 wks/yr
	CEM 613 Large Animal Surgery Journal Club Facilitated discussion and instruction in journal article evaluation of large animal surgery related peer-reviewed journal articles for residents and post DVM graduate students.	Facilitated discussion: 14 hrs
	Large Animal Surgery Reading Rounds Instruction in large animal surgery for residents and post DVM graduate students.	Lecture/Facilitated discussion: 14 hrs
	Veterinary Student Summer Research Mentor: Rebekah Johnson Pharmacokinetics and Pharmacodynamics of Intravenous and Oral Esomeprazole in Horses.	
Spring	VMP 840 Musculoskeletal System Instruction of 2 nd year veterinary students in equine musculoskeletal diseases, treatments, and surgeries. Recorded distal limb dissection.	Lecture: 5 hrs
	VMP 830 Alimentary System Instruction of 2 nd year veterinary students in equine colic surgery.	Lecture: 2 hrs
	VMC 823 Equine Surgery, Lameness, and Rehabilitation Rotation Clinical supervision and teaching of 3 rd /4 th year veterinary students on equine surgery, lameness and rehabilitation rotation.	Clinical: 20 wks/yr
	CEM 613 Large Animal Surgery Journal Club Facilitated discussion and instruction in journal article evaluation of large animal surgery related peer-reviewed journal articles for residents and post DVM graduate students.	Facilitated discussion: 14 hrs
	Large Animal Surgery Reading Rounds Instruction in large animal surgery for residents and post DVM graduate students.	Lecture/Facilitated discussion: 14 hrs
2021 Winter	VMC 823 Equine Surgery, Lameness, and Rehabilitation Rotation Clinical supervision and teaching of 4 th year veterinary students on equine surgery, lameness and rehabilitation rotation.	Clinical: 20 wks/yr
	Large Animal Surgery Reading Rounds Instruction in large animal surgery for residents and post DVM graduate students.	Lecture/Facilitated discussion: 3 hrs
Fall	CEM 515 Topics in Large Animal Surgery Course Coordinator Instruction in large animal surgery for residents and graduate students. Large animal surgery reading rounds.	Lecture/Facilitated discussion: 14 hrs
	VMP 850 and ANSC 515 Reproductive System Instruction of 3 rd year veterinary and graduate students in equine reproductive surgery.	Lecture: 1 hr
	VMP 835 Principles and Practices of Surgery	Lab: 24 hrs

Course Co-Coordinator
Instruction of 2nd year veterinary students in principles of surgery.
Coordinate lab for the course.

VMC 823 Equine Surgery, Lameness, and Rehabilitation Rotation
Clinical supervision and teaching of 3rd/4th year veterinary students
on equine surgery, lameness and rehabilitation rotation. Clinical: 20 wks/yr

CEM 613 Large Animal Surgery Journal Club
Facilitated discussion and instruction in journal article evaluation
of large animal surgery related peer-reviewed journal articles for
residents and post DVM graduate students. Facilitated
discussion: 14 hrs

CEM 613 Regenerative Medicine Journal Club
Course Co-Coordinator
Facilitated discussion and instruction in journal article evaluation
of regenerative medicine related peer-reviewed journal articles for
residents and post DVM graduate students. Facilitated
discussion: 14 hrs

Summer VMC 823 Equine Surgery, Lameness, and Rehabilitation Rotation
Clinical supervision and teaching of 3rd/4th year veterinary students
on equine surgery, lameness and rehabilitation rotation. Clinical: 20 wks/yr

CEM 613 Large Animal Surgery Journal Club
Facilitated discussion and instruction in journal article evaluation
of large animal surgery related peer-reviewed journal articles for
residents and post DVM graduate students. Facilitated
discussion: 14 hrs

Large Animal Surgery Reading Rounds
Instruction in large animal surgery for residents and post DVM
graduate students. Lecture/Facilitated
discussion: 14 hrs

Veterinary Student Summer Research Mentor: Rebekah Johnson
Investigation into the Pharmacokinetics and Pharmacodynamics of
Epidural Triamcinolone in the Horse.

Spring VMP 840 Musculoskeletal System
Instruction of 2nd year veterinary students in equine
musculoskeletal diseases, treatments, and surgeries. Lecture: 5 hrs

VMC 823 Equine Surgery, Lameness, and Rehabilitation Rotation
Clinical supervision and teaching of 3rd/4th year veterinary students
on equine surgery, lameness and rehabilitation rotation. Clinical: 20 wks/yr

CEM 613 Large Animal Surgery Journal Club
Facilitated discussion and instruction in journal article evaluation
of large animal surgery related peer-reviewed journal articles for
residents and post DVM graduate students. Facilitated
discussion: 14 hrs

Large Animal Surgery Reading Rounds
Instruction in large animal surgery for residents and post DVM
graduate students. Lecture/Facilitated
discussion: 14 hrs

2020 Winter VMC 823 Equine Surgery, Lameness, and Rehabilitation Rotation
Clinical supervision and teaching of 4th year veterinary students
on equine surgery, lameness and rehabilitation rotation. Clinical: 20 wks/yr

	Large Animal Surgery Reading Rounds Instruction in large animal surgery for residents and post DVM graduate students.	Lecture/Facilitated discussion: 3 hrs
Fall	CEM 515 Topics in Large Animal Surgery Developed Course / Course Coordinator Instruction in large animal surgery for residents and graduate students. Large animal surgery reading rounds.	Lecture/Facilitated discussion: 14 hrs
	VMP 850 and ANSC 515 Reproductive System Instruction of 3 rd year veterinary and graduate students in equine reproductive surgery.	Lecture: 1 hr
	VMP 830 Alimentary System Instruction of 2 nd year veterinary students in equine colic surgery.	Lecture: 2 hrs
	VMP 835 Principles and Practices of Surgery Instruction of 2 nd year veterinary students in principles of surgery.	Lab: 22 hrs
	VMC 823 Equine Surgery, Lameness, and Rehabilitation Rotation Clinical supervision and teaching of 4 th year veterinary students on equine surgery, lameness and rehabilitation rotation.	Clinical: 20 wks/yr
	CEM 613 Large Animal Surgery Journal Club Facilitated discussion and instruction in journal article evaluation of large animal surgery related peer-reviewed journal articles for residents and post DVM graduate students.	Facilitated discussion: 14 hrs
Summer	VMC 823 Equine Surgery, Lameness, and Rehabilitation Rotation Clinical supervision and teaching of 4 th year veterinary students on equine surgery, lameness and rehabilitation rotation.	Clinical: 20 wks/yr
	CEM 613 Large Animal Surgery Journal Club Facilitated discussion and instruction in journal article evaluation of large animal surgery related peer-reviewed journal articles for residents and post DVM graduate students.	Facilitated discussion: 14 hrs
	Large Animal Surgery Reading Rounds Instruction in large animal surgery for residents and post DVM graduate students.	Lecture/Facilitated discussion: 14 hrs
	Veterinary Student Summer Research Mentor: Chandler Hawk Investigation into Bone Density of the Epiphyses of the Lumbar Spine in the Horse.	
Spring	VMC 823 Equine Surgery, Lameness, and Rehabilitation Rotation Clinical supervision and teaching of 4 th year veterinary students on equine surgery, lameness and rehabilitation rotation.	Clinical: 20 wks/yr
	Large Animal Surgery Reading Rounds Instruction in large animal surgery for residents and post DVM graduate students.	Lecture/Facilitated discussion: 14 hrs

Large Animal Emergency Surgeon and Graduate Teaching Assistant, Corvallis, OR

<u>Year</u>	<u>Term</u>	<u>Course</u>	<u>Type/Hours</u>
2019	Spring	VMC 725 Principles and Techniques of Surgery Instruction of 2nd year veterinary students in principles of surgery. Development of online lab.	Lab: 18 hrs
	Winter	VMC 724 Large Animal Surgery Instruction of veterinary students in large animal surgery.	Lab: 10 hrs
	All Year	VMC 782 Large Animal Emergency Lecture and clinical instruction for 4 th year veterinary students during and on emergency case work-up, surgery, and management.	Lecture: 60 hrs/yr (5 hrs/month) Clinical: 12 wks/yr
2018	Spring	VMC 744 Advanced Equine Lameness Lecture in equine lameness for 4th year veterinary students.	Lecture: 0.5 hr
		VMC 725 Principles and Techniques of Surgery Instruction of 2 nd year veterinary students in principles of surgery.	Lab: 12 hrs
		VMB 742 Veterinary Integrated Problem Solving Seminar and guided discussion in problem solving with integration of clinical cases and basic sciences for 2 nd year veterinary students.	Facilitated discussion: 4 hrs
	Winter	VMC 724 Large Animal Surgery Instruction of veterinary students in large animal surgery.	Lab: 40 hrs
	All Year	VMC 782 Large Animal Emergency Lecture and clinical instruction for 4 th year veterinary students during and on emergency case work-up, surgery, and management.	Lecture: 60 hrs/yr (5 hrs/month) Clinical: 12 wks/yr
		VMC 734 Large Animal Clinical Surgery I Clinical supervision and teaching of 4 th year veterinary students on large animal surgery after hours.	Clinical: 12 wks/yr
		Oregon State University senior veterinary student research mentor. Oregon State University undergraduate student research mentor. Oregon State University large animal surgery resident and clinical fellow mentor, including monthly after hours arthroscopy, fracture, and general surgery instruction.	
2017	Fall	VMB 740 Veterinary Integrated Problem Solving Seminar and guided discussion in problem solving with integration of clinical cases and basic sciences for 1 st year veterinary students.	Facilitated discussion: 8 hrs
	All Year	VMC 782 Large Animal Emergency Lecture and clinical instruction for 4 th year veterinary students during and on emergency case work-up, surgery, and management.	Lecture: 60 hrs/yr (5 hrs/month) Clinical: 12 wks/yr
		VMC 734 Large Animal Clinical Surgery I Clinical supervision and teaching of 4 th year veterinary students on large animal clinical surgery after hours.	Clinical: 12 wks/yr
		Oregon State University senior veterinary student research mentor. Oregon State University undergraduate student research mentor. Oregon State University large animal surgery resident mentor,	

including monthly after hours arthroscopy instruction.

Montana Equine Medical and Surgical Center

July 2017-December 2019

Equine Surgery and General Practice Locum, Three Forks, MT

- Lecture and clinical teaching of interns and veterinary students. Organize and facilitate monthly journal club rounds.

Paton and Martin Veterinary Services

June 2018-October 2018

Equine Surgery and Hospitalist Locum, Aldergrove, BC, CAD

- Clinical and laboratory teaching of interns and veterinary students.

Department of Large Animal Clinical Sciences

July 2017-August 2017

Virginia-Maryland College of Veterinary Medicine

Large Animal Surgery Locum, Blacksburg, VA

<u>Year</u>	<u>Term</u>	<u>Course</u>	<u>Type/Hours</u>
2017	Summer	VM 9504 Large Animal Clinical Services Clinical supervision and teaching of 4 th year veterinary students on large animal clinical surgery.	Lecture: 1 hr Clinical: 2 wks
		Clinical teaching of large animal surgery residents.	

Department of Clinical Sciences

July 2014-July 2017

Oregon State University, Veterinary Teaching Hospital

Large Animal Surgery Resident and Graduate Teaching Assistant, Corvallis, OR

<u>Year</u>	<u>Term</u>	<u>Course</u>	<u>Type/Hours</u>
2017	Spring	VMC 744 Advanced Equine Lameness Lecture and laboratories in equine lameness for 4th year veterinary students.	Lecture: 0.5 hrs Lab: 2 hrs
		VMC 725 Principles and Techniques of Surgery Instruction of 2 nd year veterinary students in principles of surgery.	Lab: 4 hrs
		VMB 775 Practice Management Lecture for 3 rd year veterinary students.	Lecture: 1 hr
	Winter	VMC 724 Large Animal Surgery Instruction of veterinary students in large animal surgery.	Lab: 4 hrs
	All Year	VMC 782 Large Animal Emergency Clinical instruction for 4 th year veterinary students during emergency case work-up, surgery, and management.	Clinical: 20 wks/yr
		VMC 734 Large Animal Clinical Surgery I Practical laboratories or theory tutorials (8-12 hours) per 4 th year student rotation block (1 month). Clinical supervision and teaching of 4 th year veterinary students on large animal clinical surgery.	Clinical: 42 wks/yr
		Oregon State University senior veterinary student research mentor. Oregon Student Chapter of the AAEP Mentor: Practical laboratory teaching for veterinary students.	
2016	Fall	VMC 742 Camelid Medicine and Surgery Elective Assisting in camelid surgical and procedural laboratories for 4th year veterinary students.	Lab: 8 hrs

		VMC 779 Equine Sports Medicine: Practical bandaging and splinting laboratory for 4th year veterinary students and local veterinarians.	Lab: 3 hrs
Spring		VMC 744 Advanced Equine Lameness Lecture and laboratories in equine lameness for 4th year veterinary students.	Lecture: 0.5 hrs Lab: 2 hrs
		VMC 725 Principles and Techniques of Surgery Instruction of 2 nd year veterinary students in principles of surgery.	Lab: 4 hrs
Winter		VMC 724 Large Animal Surgery Instruction of veterinary students in large animal surgery.	Lab: 4 hrs
All Year		VMC 782 Large Animal Emergency Clinical instruction for 4 th year veterinary students during emergency case work-up, surgery, and management.	Clinical: 20 wks/yr
		VMC 734 Large Animal Clinical Surgery I Practical laboratories or theory tutorials (8-12 hours) per 4 th year student rotation block (1 month). Clinical supervision and teaching of 4 th year veterinary students on large animal clinical surgery.	Clinical: 42 wks/yr
		Oregon Student Chapter of the AAEP Mentor: Practical laboratory teaching for veterinary students. Oregon Pre-Veterinary Club Mentor: Practical laboratory and clinical setting teaching.	
2015	Fall	VMC 742 Camelid Medicine and Surgery Elective Camelid castration laboratories for 4th year veterinary students.	Lab: 8 hrs
		VMC 779 Equine Sports Medicine: Practical bandaging and splinting laboratory for 4th year veterinary students and local veterinarians.	Lab: 3 hrs
Spring		VMC 744 Advanced Equine Lameness Equine lameness elective for 4th year veterinary students.	Lecture: 0.5 hrs Lab: 2 hrs
		VMC 725 Principles and Techniques of Surgery Instruction of 2 nd year veterinary students in principles of surgery.	Lab: 4 hrs
Winter		VMC 724 Large Animal Surgery Instruction of veterinary students in large animal surgery.	Lab: 4 hrs
All Year		VMC 782 Large Animal Emergency Clinical instruction for 4 th year veterinary students during emergency case work-up, surgery, and management.	Clinical: 20 wks/yr
		VMC 734 Large Animal Clinical Surgery I Practical laboratories or theory tutorials (8-12 hours) per 4 th year student rotation block (1 month). Clinical supervision and teaching of 4 th year veterinary students on large animal clinical surgery.	Clinical: 42 wks/yr
		Oregon Student Chapter of the AAEP Mentor: Practical laboratory teaching for veterinary students.	

Oregon Pre-Veterinary Club Instruction:
Practical laboratory and clinical setting teaching.

2014	Fall	VMC 742 Camelid Medicine and Surgery Elective Camelid castration laboratories for 4th year veterinary students.	Lab: 8 hrs
		VMC 779 Equine Sports Medicine: Practical bandaging and splinting laboratory for 4th year veterinary students and local veterinarians.	Lab: 3 hrs
	Winter	VMC 724 Large Animal Surgery Instruction of veterinary students in large animal surgery.	Lab: 4 hrs
	All Year	VMC 782 Large Animal Emergency Clinical instruction for 4 th year veterinary students during emergency case work-up, surgery, and management.	Clinical: 20 wks/yr
		VMC 734 Large Animal Clinical Surgery I Practical laboratories or theory tutorials (8-12 hours) per 4 th year student rotation block (1 month), including, but not limited to, nasogastric intubation, ultrasonography, rectal palpation, NAVLE preparation, limb dissection, and cadaver procedures. Clinical supervision and teaching of 4 th year veterinary students on large animal clinical surgery.	Clinical: 42 wks/yr
		Oregon Student Chapter of the AAEP Mentor: Practical laboratory teaching for veterinary students.	
		Oregon Pre-Veterinary Club Mentor: Practical laboratory and clinical setting teaching.	

Public Television

Filmed May 2009-Aired March 2010

Teen Mentor for Children's TV Show, TPT/PBS, Minneapolis, MN

- Mentor for teen age girls on the TV show SciGirls for PBS (episode "Horsing Around")

HONORS AND AWARDS

- 2024 Outstanding Graduate Research Mentor Award, University of Tennessee Graduate Student Senate.
- 2019 American Quarter Horse Foundation Racing Scholarship.
- 2017 MacVicar Scholar Award, Oregon State University.
Received for quality of research, impact on animal health, interdisciplinary strength, and academic standing.
- 2017 Graduate Student Research Award, Oregon State University.
Received for excellence in research.
- 2017 2nd Place: Oregon State University 2017 Scholars' Insights 3 minute thesis competition.
Received for presentation of the following research:
Collar, E.M., Huber M.J., Duesterdieck-Zellmer, K.F., Stieger-Vanegas, S.M., Iwaniec, U.T., Stover, S.M.
"3rd Carpal Bone Fractures: Can We Prevent Racehorse Breakdowns?"
- 2017 OSU AAVC sponsored resident: AAVC Residents' Professional Development and Leadership Conference.
- 2016 First Place, Outstanding Surgical Resident Competition, Large Animal Resident Research Presentation Award, American College of Veterinary Surgeons.

Collar, E.M., Huber, M.J., Iwaniec, U.T., Duesterdieck-Zellmer, K.F., Stover, S.M. Third Carpal Bone Fracture is Associated with Focal Subchondral Bone Porosity in Racehorses.

- 2016 2nd Place: Oregon State University 2016 Scholars' Insights 3 minute thesis competition.
Received for presentation of the following research:
Collar, E.M., Huber M.J., Iwaniec U.T., Duesterdieck-Zellmer K. F., Stover S.M. "3rd Carpal Bone Fractures: Can We Prevent Racehorse Breakdowns?"
- 2016 Mark S. Bloomberg Memorial Resident Research Award, Veterinary Orthopedic Society.
Received for submission of the following research:
Collar, E.M., Huber M.J., Iwaniec U.T., Duesterdieck-Zellmer K.F., Stover S.M.
Third Carpal Bone Fracture is Associated with Focal Subchondral Bone Porosity in Racehorses.
- 2016 Best Bloomberg Presentation, Veterinary Orthopedic Society.

MENTEE HONORS AND AWARDS

- 2024 Veterinary Student Mentee: Demi Striligas
University of Tennessee Graduate Student Senate Travel Award, Veterinary Orthopedic Society.
- 2024 Veterinary Student Mentee: Natalie Azzolini
Selection as AAVMC Boehringer Ingelheim Veterinary Student Scholar.
- 2024 PhD Student: Alexandra Carlson, DVM
Three Minute Thesis (3MT) Finalist and 3rd place winner, University of Tennessee.
- 2024 Veterinary Student Mentee: Chessa Brown
Gretchen Flo Student/Intern Research Award, Veterinary Orthopedic Society.
Clinical effect of multidose oral administration of firocoxib and t-TUCB alone and in combination for the treatment of osteoarthritis in horses.
- 2024 PhD Student: Alexandra Carlson, DVM
University of Tennessee Graduate Student Senate Travel Award, Veterinary Orthopedic Society.
- 2024 Veterinary Student Mentee: Chessa Brown
University of Tennessee Graduate Student Senate Travel Award, Veterinary Orthopedic Society.
- 2023 Veterinary Student Mentee: Chessa Brown
Phi Zeta Awardee for Excellence in Animal Health Research 1st place and UTCVM Research Day 1st Place
Veterinary Student Presentation, Clinical effect of multidose oral administration of firocoxib and t-TUCB
alone and in combination for the treatment of osteoarthritis in horses.
- 2023 PhD Student: Alexandra Carlson, DVM
UTCVM Research Day 2nd Place Graduate Student Presentation, Evaluation of soluble epoxide hydrolase
inhibitor in an in vitro osteoarthritis model with equine synovial fluid derived mesenchymal stem cells.
- 2023 PhD Student: Alexandra Carlson, DVM
University of Tennessee Graduate Student Senate Travel Award, Veterinary Orthopedic Society.
- 2022 Veterinary Student Mentee: Rebekah Johnson
University of Tennessee Graduate Student Senate Travel Award, Veterinary Orthopedic Society.
- 2022 Resident Mentee: Rebecca Rifkin, DVM, PhD
Mark S. Bloomberg Memorial Resident Research Award, Veterinary Orthopedic Society.
- 2022 PhD Student: Alexandra Carlson, DVM

PUBLICATIONS

1. Collar, E.M. (May 2023). Battling the Equine Sarcoid. *dvm360*, 54(5), 48-49. <https://www.dvm360.com/view/battling-the-equine-sarcoid>
2. Collar, E.M. (2022), Equid elbow luxation and subluxation: Anatomical review and case management considerations. *Equine Vet Educ*, 34: 342-345. <https://doi.org/10.1111/eve.13572>
3. Collar, E.M., Duesterdieck-Zellmer, K.F., Huber, M.J., Semevolos, S.A., Parker, J.E. and Husby, K.A. (2021) Outcome of bilateral equid laparoscopic ovariectomies. *Vet. Surg.* 50, 975-983.
4. Collar, E.M., Watson, L.J., Whitmer, C. and Hansen, S. (2021), Successful closed reduction and conservative management with traumatic elbow luxation and medial collateral ligament rupture in an equid. *Equine Veterinary Education*, 33: e25-e29. <https://doi.org/10.1111/eve.13171>
5. Collar, E.M., Parker, J.E., Gorman, E.M., Russell, D.S. and Valentine, B.A. (2019), PCR for antigen receptor rearrangement (PARR) clonality testing in a horse with a solitary retropharyngeal lymphoma. *Equine Vet Educ*, 31: 413-418. <https://doi.org/10.1111/eve.12821>
6. Collar, E.M., Zavodovskaya, R., Spriet, M., Hitchens, P.L., Wisner, T., Uzal, F.A. and Stover, S.M. (2015) Caudal lumbar vertebral fractures in California Quarter Horse and Thoroughbred racehorses. *Equine Veterinary Journal*. 47, 573-579.

ABSTRACTS/PRESENTATIONS

An asterisk indicates presenting author.

1. Carlson, A.R.,* Brown, C., Hines, M., Aarsvold, S., Collar, E.M. (2024) Comparison of the Clinical Efficacy of Multidose COX-2 Selective and sEH Inhibitors Alone and in Combination for the Treatment of Equine Naturally Occurring Osteoarthritis. *Proc. Am. Ass. Equine Practnrs.* 70. Orlando, FL.
2. Carlson, A.R.,* Collar, E.M., Rivera-Orsini, M.A., Dhar,M. (2024) Combination of a Soluble Epoxide Hydrolase Inhibitor and Synovial Fluid-derived MSCs as a Potential Therapy for the Treatment of Osteoarthritis in Horses. *Proc. Am. Ass. Equine Practnrs.* 70. Orlando, FL.
3. Gray, L.M.,* Carlson, A.R., Miller, D.C, Sun, X., Dhar, M., Collar, E.M.* (2024) Safety and Stem Cell Viability of Intra-Articular Allogeneic Bone Marrow Derived Mesenchymal Stem Cell Injections in MHC-Mismatched Horses Utilizing Two Donors. *Proc. Am. Ass. Equine Practnrs.* 70. Orlando, FL.
4. Collar, E.M.,* Gray, L.M., Rivera-Orsini, M.A., Carlson, A.R., Dhar, M., Sun, X. (2024) Osteochondral Activity After Repeat Intra-Articular Allogeneic Bone Marrow Derived Mesenchymal Stem Cell injections in MHC-Mismatched Horses Utilizing Two Donors. *Veterinary Surgery.* Phoenix, AZ.
5. Collar, E.M.,* Gray, L.M., Carlson, A.R., Miller, D.C, Sun, X., Dhar, M. (2024) Safety and Stem Cell Viability of Intra-Articular Allogeneic Bone Marrow Derived Mesenchymal Stem Cell Injections in MHC-Mismatched Horses Utilizing Two Donors. *Veterinary Surgery.* Phoenix, AZ.
6. Carlson, A.R.,* Brown, C., Hines, M., Aarsvold, S., Collar, E.M. (2024) Comparison of the Clinical Efficacy of Multidose COX-2 Selective and sEH Inhibitors Alone and in Combination for the Treatment of Equine Naturally Occurring Osteoarthritis. *Veterinary Surgery.* Phoenix, AZ.
7. Carlson, A.R.,* Collar, E.M., Rivera-Orsini, M.A., Dhar,M. (2024) Evaluation of Soluble Epoxide Hydrolase Inhibitor to Prime Equine Synovial Fluid-derived Mesenchymal Stem Cells in an In Vitro Osteoarthritis Model. *Veterinary Surgery.* Phoenix, AZ.

8. Carlson, A.R.,* Collar, E.M., Rivera-Orsini, M.A., Dhar,M. (2024) Combination of a Soluble Epoxide Hydrolase Inhibitor and Synovial Fluid-derived MSCs as a Potential Therapy for the Treatment of Osteoarthritis in Horses. Veterinary Surgery. Phoenix, AZ.
9. Striligas, D.N.,* Schumacher, J., Adair, H.S., Jones, P.D., Collar, E.M. (2024) Use of a Distal Penile Urethrostomy with Partial Phallectomy in Standing Horses Including Cases of Repeat Partial Phallectomy with Neoplasia Recurrence and a Comparison to Other Techniques. Veterinary Surgery. Phoenix, AZ.
10. Azzolini, N.,* Hines, M., Johnson, R., Bergee, R.E., Collar, E.M. (2024) Pharmacodynamics of Intravenous and Oral Esomeprazole in Horses Administered Phenylbutazone and Dexamethasone. AAVMC Boehringer Ingelheim 2024 Veterinary Student Scholar Symposium. St. Paul, MN.
11. Brown, C.,* Aarsvold, S., Bergee, R.E., Collar, E.M. (2024) Subchondral Bone Disease and Treatment Outcomes in Non-Racing Horses. University of Tennessee College of Veterinary Medicine Research Symposium. Knoxville, TN.
12. Azzolini, N.,* Hines, M., Johnson, R., Bergee, R.E., Collar, E.M. (2024) Pharmacodynamics of Intravenous and Oral Esomeprazole in Horses Administered Phenylbutazone and Dexamethasone. University of Tennessee College of Veterinary Medicine Research Symposium. Knoxville, TN.
13. Collar, E.M.* (2024) Use of the LCP Distal Femur Plate for Veterinary Applications in the Fixation of a Displaced, Salter Harris Type I, Distal Femur Fracture in an Equid. Veterinary Orthopedic Society. 51. Lake Tahoe, CA.
14. Gray, L.M.,* Collar, E.M., Carlson, A.R., Miller, D.C., Dhar, M. (2024) Evaluation of safety and stem cell viability after repeat intra-articular allogeneic mesenchymal stem cell injections in MHC mismatched horses. Veterinary Orthopedic Society. 51. Lake Tahoe, CA.
15. Gray, L.M.,* Rivera, M.A., Carlson, A.R., Dhar, M., Collar, E.M. (2024) Evaluation of osteochondral activity after repeat intra-articular allogeneic mesenchymal stem cell injections in MHC mismatched horses. Veterinary Orthopedic Society. 51. Lake Tahoe, CA.
16. Carlson, A.R.,* Mulon, P.Y., Harper, D., Bussieres, G., Collar, E.M. (2024) Creation of a Subchondral Bone Disease Ovine Model Utilizing Impact Loading. Veterinary Orthopedic Society. 51. Lake Tahoe, CA.
17. Carlson, A.R.,* Collar, E.M., Dhar,M. (2024) Combination of a Soluble Epoxide Hydrolase Inhibitor and Synovial Fluid-derived MSCs as a Potential Therapy for the Treatment of Osteoarthritis in Horses. Veterinary Orthopedic Society. 51. Lake Tahoe, CA.
18. Carlson, A.R.,* Collar, E.M., Dhar,M. (2024) Evaluation of soluble epoxide hydrolase inhibitor to prime equine synovial fluid-derived mesenchymal stem cells in an in vitro osteoarthritis model. Veterinary Orthopedic Society. 51. Lake Tahoe, CA.
19. Brown, C.,* Carlson, A.R., Hines, M., Collar, E.M. (2024) Clinical Effect of Multidose Oral Administration of Firocoxib and t-TUCB Alone and in Combination for the Treatment of Naturally Occurring Osteoarthritis in Horses. Veterinary Orthopedic Society. 51. Lake Tahoe, CA.
20. Collar, E.M.,* Gray, L.M., Rivera, M.A., Dhar, M. (2024) Evaluation of safety, stem cell viability, and osteochondral activity after repeat intra-articular allogeneic mesenchymal stem cell injections in MHC mismatched horses. Orthopedic Research Society Annual Meeting. Long Beach, CA.
21. Carlson, A.R.,* Mulon, P.Y., Harper, D., Bussieres, G., Collar, E.M. (2024) Creation of a Subchondral Bone Disease Ovine Model Utilizing Impact Loading. Orthopedic Research Society Annual Meeting. Long Beach, CA.

22. Carlson, A.R.,* Brown, C., Hines, M., Collar, E.M. (2024) Comparison of the Clinical Efficacy of COX-2 Selective and sEH Inhibitors Using an Equine Model of Naturally Occurring Osteoarthritis. Orthopedic Research Society Annual Meeting. Long Beach, CA.
23. Carlson, A.R.,* Collar, E.M., Dhar,M. (2024) Evaluation of soluble epoxide hydrolase inhibitor in an in vitro osteoarthritis model with equine synovial fluid derived mesenchymal stem cells. Orthopedic Research Society Annual Meeting. Long Beach, CA.
24. Collar, E.M.* (January 2024) Evaluation of safety, stem cell viability, and osteochondral activity after repeat intra-articular allogeneic mesenchymal stem cell injections in MHC mismatched horses. AALAS Appalachian Branch 2024 Meeting. Knoxville, TN.
Invited Speaker
25. Collar, E.M.* (January 2024) Veterinary Nutrition and Health Continuing Education Conference for Livestock and Equids, Knoxville, TN
“Foals: Orthopedic Considerations in Early Weeks, Months, and Years”
Invited Speaker
26. Collar, E.M.* (January 2024) Veterinary Nutrition and Health Continuing Education Conference for Livestock and Equids, Knoxville, TN
“Gastric Ulcers: Bute, Dex, and Esomeprazole”
Invited Speaker
27. Brown, C.,* Carlson, A.R., Hines, M., Collar, E.M. (2023) Clinical Effect of Multidose Oral Administration of Firocoxib and t-TUCB Alone and in Combination for the Treatment of Naturally Occurring Osteoarthritis in Horses. University of Tennessee College of Veterinary Medicine Research Symposium. Knoxville, TN.
28. Carlson, A.R.,* Collar, E.M., Dhar,M. (2023) Evaluation of soluble epoxide hydrolase inhibitor in an in vitro osteoarthritis model with equine synovial fluid derived mesenchymal stem cells. University of Tennessee College of Veterinary Medicine Research Symposium. Knoxville, TN.
29. Smith, J.,* Collar, E.M., Johnson, R., Carlson, A.R., Gray, L., Gebert, J., Hines, M., Bergman, J., Cox, S. (June 2023) Investigation of the Pharmacokinetics of Esomeprazole After Intravenous and Oral Dosing in Horses. ACVIM Forum. 40. Philadelphia, PA.
30. Carlson, A.R.,* Collar, E.M. (2023) Safety and Feasibility of Intraarticular Ultrafiltration Probes for Serial Synovial Fluid Collection from Equine Metacarpophalangeal Joints – A Preliminary Study. Veterinary Orthopedic Society. 50. Big Sky, MT.
31. Collar, E.M.* (December 2022) Henton Veterinary Conference
“Foals: Orthopedic Considerations in Early Weeks, Months, and Years”
32. Collar, E.M.* (October 2022) Rehabilitation Strategies for Joint Related Injuries. AO VET NA Webinar.
Invited speaker.
33. Collar, E.M.,* Smith, J., Johnson R. (2022) Pharmacokinetics and Pharmacodynamics of Epidural and Intramuscular Triamcinolone in Horses with Chronic Lameness. Veterinary Surgery. Portland, OR.
34. April 2022 AAFC Residents’ Professional Development and Leadership Conference: Invited Speaker
“Early Career Faculty Panel”
35. Collar, E.M.,* Rifkin, R.E. (2022) Hematogenous Septic Arthritis in the Coxofemoral Joint of an Adult Horse. Proceedings of the World Veterinary Orthopaedic Congress and Veterinary Orthopedic Society. 49. Snowmass Village, CO.

36. Johnson R.M.,* Collar, E.M., Smith, J. (2022) Pharmacokinetics and Pharmacodynamics of Epidural and Intramuscular Triamcinolone in Horses with Chronic Lameness. Proceedings of the World Veterinary Orthopaedic Congress and Veterinary Orthopedic Society. 49. Snowmass Village, CO.
37. Collar, E.M.* (December 2021) Henton Veterinary Conference
“Sarcoids, Squamous Cell Carcinoma, and Melanomas: Treating Cutaneous Masses in Equids”
38. Collar, E.M.* (October 2021) University of Tennessee, Comparative and Experimental Medicine Seminar.
“Musculoskeletal Injuries in Racehorses”
39. Collar, E.M.* (October 2021) University of Tennessee, College of Veterinary Medicine, Faculty Research Showcase. “Subchondral Bone Disease and Osteoarthritis”
40. Collar, E.M.* (September 2021) Knoxville Veterinary Medical Association: Invited Speaker
“Equine Cutaneous Masses”
41. Collar, E.M.,* Russell, D.S., Huber, M.J., Duesterdieck-Zellmer, K.F., Stover, S.M. (2020) Investigation into Lumbosacral Vertebral Anatomy and Physcal Closure in Quarter Horses. Proc. Am. Ass. Equine Practnrs. 66. Virtual Convention.
42. Collar, E.M.,* Russell, D.S., Huber, M.J., Duesterdieck-Zellmer, K.F., Stover, S.M. (2020) Investigation into Lumbosacral Vertebral Anatomy and Physcal Closure in Quarter Horses. Scientific Presentation Abstracts. Veterinary Surgery. E-Podium Webinar.
43. Collar, E.M.* (April 2020) University of Tennessee, College of Veterinary Medicine, Horse Owners Conference. “Ovariectomy and Other Laparoscopic Procedures”
44. Collar, E.M.,* Russell, D.S., Huber, M.J., Duesterdieck-Zellmer, K.F., Stover, S.M. (2020) Investigation into Lumbosacral Vertebral Anatomy and Physcal Closure in Quarter Horses. Proceedings of the Veterinary Orthopedic Society. 47. Sun Valley, CO.
45. Collar, E.M.,* Duesterdieck-Zellmer, K.F., Huber, M.J., Semevolos, S.A., Parker, J.E., Husby, K.A. (2019) Outcome of Elective and Pathologic Equid Laparoscopic Ovariectomies. Scientific Presentation Abstracts. Veterinary Surgery. Las Vegas, NV.
46. Collar, E.M.,* Watson, L., Whitmer, C., Hansen, S. (2019) Successful Closed Reduction and Conservative Management of Traumatic Elbow Luxation and Medial Collateral Ligament Rupture in an Equid. Proceedings of the Veterinary Orthopedic Society. 46. Breckenridge, CO.
47. Collar, E.M.,* Aarsvold, S., Garcia, T.C., Puchalski, S.M., Stover, S.M. (2018) Mechanical and Microstructural Properties of Navicular Bones with a Range of Navicular Degeneration. Scientific Presentation Abstracts. Veterinary Surgery. Phoenix, AZ.
48. Collar, E.M.* (September 2018) Montana Equine Sport Horse Veterinary CE Event; Three Forks, MT
“Bisphosphonates”
49. Collar, E.M.,* Aarsvold, S., Garcia, T.C., Puchalski, S.M., Stover, S.M. (2018) Mechanical and Microstructural Properties of Navicular Bones with a Range of Navicular Degeneration. Proceedings of the Veterinary Orthopedic Society. 45. Snowmass Village, CO.
50. June 2017 MacVicar Scholar Award Lecture
Collar, E.M.,* Huber, M.J., Duesterdieck-Zellmer, K.F., Stieger, S.M., Iwaniec, U.T., Stover, S.M. (2018) Third Carpal Bone Fracture is Associated with Focal Subchondral Bone Porosity in Racehorses.
MacVicar Scholar Award received.
51. May 2017 Oregon State University 2017 Scholars’ Insights 3MT university and state competitions

“3rd Carpal Bone Fractures: Can We Prevent Racehorse Breakdowns?”

Second Place Award.

52. January 2017 OSU House Officer Seminar
“Equine Laparoscopy”
53. October 2016 OSU House Officer Seminar
“Equine Back Anatomy and Pathology”
54. October 2016 Northwest Equine Practitioner’s Association
“Third carpal bone fracture is associated with focal subchondral bone porosity in racehorses.”
“Intralesional 5-Fluorouracil use in equid cutaneous neoplasia in a referral practice.”
“Caudal lumbar vertebral fractures in California Quarter Horse and Thoroughbred racehorses, and the investigation into anatomy and growth plate closure.”
55. Collar, E.M.,* Huber, M.J., Iwaniec, U.T., Duesterdieck-Zellmer, K.F., Stover, S.M. (2016) Third Carpal Bone Fracture is Associated with Focal Subchondral Bone Porosity in Racehorses. Scientific Presentation Abstracts. Veterinary Surgery. 45, E23-E51. Seattle, WA.
ACVS Residents Forum - First Place Award.
56. May 2016 OSU House Officer Seminar
“Corticosteroids and the Horse”
57. Collar, E.M.,* Huber, M.J., Iwaniec, U.T., Duesterdieck-Zellmer, K.F., Stover, S.M. (2016) Third Carpal Bone Fracture is Associated with Focal Subchondral Bone Porosity in Racehorses. Proceedings of the Veterinary Orthopedic Society. 43. Big Sky, MT.
VOS Residents Forum - First Place Award.
VOS Residents Forum - Mark S. Bloomberg Award.
58. May 2016 Oregon State University 2016 Scholars’ Insights 3MT university and state competitions
“3rd Carpal Bone Fractures: Can We Prevent Racehorse Breakdowns?”
Second Place Award.
59. Collar, E.M.,* Duesterdieck-Zellmer, K.F., Parker, J.E., Huber, M.J., Semevolos, S.A., Husby, K.A. (2015) Intralesional 5-Fluorouracil use in equid cutaneous neoplasia in a referral practice. Scientific Presentation Abstracts. Veterinary Surgery. 44, E41-E73. Nashville, TN.
60. December 2015 OSU House Officer Seminar
“Intralesional 5-Fluorouracil (5FU): Use in Equid Cutaneous Neoplasia”
61. May 2015 OSU Bone Physiology Graduate Class
“Fracture Healing”
62. May 2015 OSU House Officer Seminar
“Catastrophic Musculoskeletal Injuries in Racehorses”
63. Collar, E.M.,* Zavodovskaya, R., Spriet, M., Hitchens, P.L., Wisner, T., Uzal, F.A., Stover, S.M. (2015) Caudal lumbar vertebral fractures in California Quarter Horse and Thoroughbred racehorses. Proceedings of the Veterinary Orthopedic Society. 42. Sun Valley, ID.
64. McKerney, E., Collar, E.M., Zavodovskaya, R., Stover, S.M.* (2015) Fatal Musculoskeletal Injuries of the Metacarpophalangeal and Metatarsophalangeal (Fetlock) Joints in California Racehorses: 185 Cases. Proceedings of the Veterinary Orthopedic Society. 42. Sun Valley, ID.

65. Collar, E.M.,* Zavodovskaya, R., Spriet, M., Hitchens, P.L., Wisner, T., Uzal, F.A., Stover, S.M. (2014) Caudal lumbar vertebral fractures in California Quarter Horse and Thoroughbred racehorses. Proc. Am. Ass. Equine Practnrs. 60. Salt Lake City, UT.
66. November 2014 OSU House Officer Seminar
“Equine Cutaneous Neoplasms: An Exercise in Persistence”
67. McKerney, E.,* Collar, E.M., Zavodovskaya, R., Stover, S.M. (2013) Fatal Musculoskeletal Injuries of the Metacarpophalangeal and Metatarsophalangeal (Fetlock) Joints in California Racehorses: 185 Cases. Proc. Am. Ass. Equine Practnrs. 59. Nashville, TN.

PUBLICATIONS IN PROGRESS

1. Collar, E.M., Huber, M.J., Duesterdieck-Zellmer, K.F., Stieger-Vanegas, S.M., Iwaniec, U.T., Jacques, K.L., Uzal, F.A., Stover, S.M. (2023) Third Carpal Bone Fracture is Associated with Focal Subchondral Bone Porosity in Racehorses.
Manuscript submitted and under review.
2. Carlson, A., Collar, E.M., Dhar, M. (2023) In Vitro Analysis of the Optimization of Stem Cell Therapy for the Treatment of Osteoarthritis Using Equine Synovial Fluid Derived Mesenchymal Stem Cells with a Soluble Epoxide Hydrolase Inhibitor.
Manuscript in progress.
3. Collar, E.M., Dhar, M., Gray, L.M. (2023) Investigation into Viability of Synovial Mesenchymal Stem Cells After Repeated Intra-Articular Allogeneic Stem Cell Injection in MHC-Mismatched Horses.
Manuscript in progress.
4. Collar, E.M., Dhar, M., Gray, L.M. (2022-2023) Evaluation of Safety and Osteochondral Activity After Repeat Intra-Articular Allogeneic Stem Cell Injections in MHC-Mismatched Horses.
Manuscript in progress.
5. Carlson, A.R., Collar, E.M. (2022-2023) Feasibility and safety of intraarticular ultrafiltration probes to collect synovial fluid in horses.
Manuscript in progress.
6. Collar, E.M., Smith, J., Johnson R. (2022-2023) Pharmacokinetics and Pharmacodynamics of Intravenous and Oral Esomeprazole in Horses.
Data acquisition in progress.
7. Carlson, A., Collar, E.M., Mulon, P.Y., Harper, D.P., Hespel, A. (2022-2023) Creation of a Subchondral Bone Disease Ovine Model Utilizing Impact Loading.
Manuscript in progress.
8. Collar, E.M., Smith, J., Johnson R. (2023) Pharmacokinetic and Pharmacodynamic Comparison of Epidural and Intramuscular Triamcinolone in Horses.
Manuscript in progress.
9. Collar, E.M., Russell, D.S., Huber, M.J., Duesterdieck-Zellmer, K.F., Stover, S.M. (2023) Investigation into Lumbosacral Spinal Anatomy and Growth Plate Closure in Quarter Horses.
Data analyses in progress.
10. Schultz, R.M., Collar, E.M., Puchalski, S.M. (2023) Contrast Uptake Patterns in Contrast Enhanced Computed Tomography (CE-CT) and a Review of CT/CE-CT Imaging of 202 Equine Distal Extremities with Pain Localized to the Foot.
Manuscript in progress.

11. Collar, E.M., Aarsvold, S., Garcia, T.C., Puchalski, S.M., Stover, S.M. (2023) Mechanical and Microstructural Properties of Navicular Bones with a Range of Navicular Degeneration.
Manuscript in progress.
12. Collar, E.M., Garcia, T.C., Spriet, M., Stover, S.M. (2023) Mechanical Properties of Equine Third Metacarpal Bones with Evidence of Dorsal Cortical Remodeling.
Data collection in progress.

PROFESSIONAL ACTIVITIES

AO Vet North America

<i>Provisional Faculty</i>	2020-present
<i>Member</i>	2016-present
<i>Faculty/Table Instructor- Principles of Equine Fracture Management</i>	April 2024

AO North America

<i>AO VET NA Nominating Committee</i>	2024-present
<i>Planning Committee for the Women in Surgery Conference at OneAO - LearnX</i>	2022-2023

University of Tennessee

<i>College of Veterinary Medicine Residency and Internship Evaluation Committee</i>	2022-present
<i>College of Veterinary Medicine Medical Records Committee</i>	2022-present
<i>College of Veterinary Medicine Research Committee</i>	2020-2023
<i>ACVS Resident Advisor</i>	2020-2024
<i>College of Veterinary Medicine Internal Grant Reviewer</i>	2020-present
<i>SACS ECC Faculty Search Committee</i>	2021
<i>UTCVM Assistant Dean for Students Search Committee</i>	2021
<i>LACS ECC Clinical Instructor Search Committee</i>	2020

American College of Veterinary Surgeons

<i>Maintenance of Certification Committee</i>	2022-present
<i>Diplomate Member</i>	2018-present
<i>Board Eligible Member</i>	2017-2018
<i>Resident Member</i>	2014-2017

Veterinary Orthopedic Society

<i>Member</i>	2014-present
<i>Scientific Program, Assistant Chair</i>	2024-present

American Association of Equine Practitioners- Member

2007-present

American Veterinary Medical Association- Member

2007-present

MENTORSHIP ACTIVITIES (UNIVERSITY OF TENNESSEE)

Graduate Students

<i>Sarah Desai</i>	<i>Major Professor – MS</i>	2024-present
<i>Alexandra Carlson, DVM</i>	<i>Major Professor – PhD</i>	2021-2024
<i>Layla Gray</i>	<i>Major Professor – MS</i>	2021-2024

Veterinary Students

<i>Natalie Azzolini</i>	<i>Research Mentor</i>	2024-present
<i>Maggie Ramsey (Class of 2027)</i>	<i>Faculty Mentor</i>	2023-present
<i>Chessa Brown</i>	<i>Faculty and Research Mentor</i>	2023-present
<i>Demitra Striligas</i>	<i>Research Mentor</i>	2023-present
<i>Alexandra Underwood (Class of 2026)</i>	<i>Faculty Mentor</i>	2022-present
<i>Sarah Hawk (Class of 2025)</i>	<i>Faculty Mentor</i>	2021-present

<i>Ellie Lewis</i>	<i>Research Mentor</i>	2024
<i>Rebekah Johnson (Class of 2024)</i>	<i>Faculty and Research Mentor</i>	2020-2024
<i>Chandler Hawk (Class of 2023)</i>	<i>Summer 2020 Research Mentor</i>	2020

Large Animal Surgery Residents

<i>Brittany Veerasammy, DVM, MS</i>	<i>Surgery Resident Mentor</i>	2022-present
<i>Remi Grzeskowiak, DVM, PhD</i>	<i>ACVS Resident Advisor and Mentor</i>	2020-2024
<i>Rebecca Rifkin, DVM, PhD</i>	<i>Surgery Resident Mentor</i>	2020-2022
<i>Hugo Almonte, DVM</i>	<i>Surgery Resident Mentor</i>	2020-2021
<i>Cailey Nichols, DVM</i>	<i>Surgery Resident Mentor</i>	2020-2021

Support Staff

<i>Lisa Amelse</i>	<i>Research Technician Supervisor</i>	2024-present
<i>Collin McCorkel</i>	<i>Research Technician Supervisor</i>	2021-2022

GRANT SUPPORT

1. Collar, E.M., Dhar, M. (2024-2025) Effect of Intra-Articular Allogeneic Mesenchymal Stem Cell Injections on Osteochondral Activity in Osteoarthritic Joints. UTK COE Research Award. \$14,961.60, Principal Investigator.
2. Collar, E.M., Carlson, A. (2024-2025) Evaluation of disease-modifying effects and multi-dose pharmacokinetics following oral administration of soluble epoxide hydrolase inhibitor and cyclooxygenase-2 selective inhibitor in horses with naturally occurring osteoarthritis. American Quarter Horse Foundation. \$40000, Principal Investigator.
3. Collar, E.M., Carlson, A. (2023-2024) Comparison of oral administration of firocoxib and t-TUCB alone and in combination for the treatment of osteoarthritis in horses. University of Tennessee Student/Faculty Research Award. \$5000, Principal Investigator.
4. Collar, E.M., Mulon, P.Y., Harper, D.P. (2021-2024) Creation of a Subchondral Bone Disease Ovine Model Utilizing Impact Loading. UTK COE Research Award. \$15000, Principal Investigator.
5. Carlson, A., Collar, E.M., Dhar, M. (2022-2023) In Vitro Analysis of the Optimization of Stem Cell Therapy for the Treatment of Osteoarthritis Using Equine Synovial Fluid Derived Mesenchymal Stem Cells with a Soluble Epoxide Hydrolase Inhibitor. AAEP Foundation for the Horse. \$20000, Principal Investigator.
6. Collar, E.M., Dhar, M., Gray, L.M. (2022-2023) Investigation into Viability of Synovial Mesenchymal Stem Cells After Repeated Intra-Articular Allogeneic Stem Cell Injection in MHC-Mismatched Horses. UTK TEVRO LACS Grant Award. \$5000, Principal Investigator.
7. Collar, E.M., Dhar, M., Gray, L.M. (2022-2023) Evaluation of Safety and Osteochondral Activity After Repeat Intra-Articular Allogeneic Stem Cell Injections in MHC-Mismatched Horses. UTK Regenerative Medicine Alliance Fund Grant Award. \$12000, Principal Investigator.
8. Smith, J., Carlson, A., Collar, E.M. (2022-2023) Pharmacokinetics, Distribution, and Bioavailability of the Soluble Epoxide Hydrolase Inhibitor, t-TUCB in Small Ruminants – Pilot Study. UTK TEVRO LACS Grant Award. \$5000, Co-Investigator.
9. Collar, E.M., Carlson, A. (2022-2023) Feasibility and safety of intraarticular ultrafiltration probes to collect synovial fluid in horses. University of Tennessee Student/Faculty Research Award. \$4998, Principal Investigator.
10. Collar, E.M., Smith, J. (2021-2022) Pharmacokinetic and Pharmacodynamic Comparison of Epidural and Intramuscular Triamcinolone in Horses. UTK TEVRO LACS Grant Award. \$5000, Principal Investigator.

11. Collar, E.M., Huber, M.J., Stover, S.M. (2016-2019) Investigation into Lumbosacral Spinal Anatomy and Growth Plate Closure in Quarter Horses. American Quarter Horse Foundation, Young Investigators Grant. \$11300, Principal Investigator.
12. Collar, E.M., Huber, M.J., Iwaniec, U.T., Duesterdieck-Zellmer, K.F., Stover, S.M. (2015-2018) Third Carpal Bone Fracture is Associated with Focal Subchondral Bone Porosity in Racehorses. OSU-CVM DCS Resident Research Grant. \$5000, Principal Investigator.

AD HOC MANUSCRIPT REVIEWER

Veterinary Surgery

Equine Veterinary Journal

Equine Veterinary Education

Journal of Equine Veterinary Science

Journal of Veterinary Diagnostic Investigation

Frontiers in Veterinary Science