

Curriculum Vitae

Brenda L. Mulherin, BS, DVM, DAVDC

Current position: Clinical Professor
Section Leader of the Dentistry and Oral Surgery Service
Department of Veterinary Clinical Sciences
Lloyd Veterinary Medical Center
College of Veterinary Medicine
Iowa State University

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EDUCATION:

Bachelor of Science Iowa State University, College of Agriculture
Animal Science
1994-1998

Doctor of Veterinary Medicine Iowa State University College of Veterinary Medicine
Ames, Iowa
1998-2002
Iowa License Number: 6898 (expiration: 6-30-2020)
Wisconsin License Number: 6526-50 (expiration: 12-31-19-Inactive)

Residency University of Wisconsin-Madison, School of Veterinary Medicine
Residency Certificate in Veterinary Dentistry and Surgery 2010-2014

SPECIALTY BOARDS:

Diplomate, American Veterinary Dental College, (AVDC), 2015

PROFESSIONAL HONORS AND AWARDS:

2020-Promoted to Clinical Professor
2016-Promoted to Associate Clinical Professor
2014-Clinical Teaching Excellence Award
2012-John Sowers Memorial Veterinary Dental Resident Award, University of Wisconsin-Madison
2001-Dr. Allison and Dr. Thomas Sullivan Scholarship
1998-H. Geodes Sternway Scholarship

CURRENT POSITION RESPONSIBILITY STATEMENT-ISU (DISTRIBUTION OF ASSIGNMENTS):

Professional Practice, Outreach and Clinical Teaching	70%
Research and Scholarly Activity	15%
Institutional Service	10%
Didactic Teaching	5%

PROFESSIONAL PRACTICE ACTIVITIES:

Section Leader, Dentistry and Oral Surgery Service

Faculty Dentist, Hixson-Lied Small Animal Hospital, Lloyd Veterinary Medical Center (1 of 1 dentist on staff)

Professional Practice equivalent of 36 weeks/year

July 2014-Present

Includes patient management and surgical treatment of local and referred cases, in-house consultations, telephone consultations and client communication and follow-up (phone calls and e-mail communication), and radiographic interpretation of dental radiographs from referring veterinarians

PROFESSIONAL EXPERIENCE:

Iowa State University College of Veterinary Medicine, Veterinary Clinical Sciences, Clinician, Primary Care, Dentistry, Hixson-Lied Small Animal Hospital, Lloyd Veterinary Medical Center, Clinician 2008-2014

University of Wisconsin-Madison School of Veterinary Medicine, Department of Surgical Sciences
Dentistry and Oral Surgery Resident 2010-2014

Veterinary Medical Group of Des Moines, Animal Medical Clinic, Animal Care Clinic West/Metro Cat Hospital, Vista Veterinary Centre, Associate Veterinarian 2006-2008

Eastern Iowa Veterinary Specialty Center, Small Animal Emergency, Relief Veterinarian 2006-2008

Charles City Animal Clinic, Associate Veterinarian 2005-2006

Mokena Animal Clinic, Ltd, Associate Veterinarian 2002-2005

Animal Emergency of Mokena, Small Animal Emergency, Relief Veterinarian, 2004-2005

RESEARCH AND SCHOLARLY ACTIVITIES:

REFEREED (PEER-REVIEWED) PUBLICATIONS:

Mulherin BL Submitted April 2020 to Today's Veterinary Practice Case Reports. Today's Veterinary Practice.

Mulherin BL, White R. Unerupted supernumerary mandibular fourth premolar tooth in a dog. Submitted to J Vet Dent. May 2019. Accepted. JOVD-19-0020.R2.

Mulherin BL, Riha J. Regional Anesthesia for the Dentistry and Oral Surgery Patient. Today's Veterinary Practice. January/February 2019, vol 9, number 1.

Mulherin BL. *Surgical Skills: Tips to avoid tooth extraction complications*. Today's Veterinary Practice. September/October 2017, vol 7, number 5.

Mulherin BL, Ewing JR, Miles K. *Diagnostic imaging of oronasal fistulas in a dachshund*. J Small Anim Pract. 2017 May 29. doi: 10.1111/jsap.12692. PMID:28556234

Mulherin BL, Snyder CJ, Soukup JW. *Retrospective evaluation of canine and feline maxillomandibular trauma cases; comparison of lunar cycle and seasonality with non-maxillomandibular traumatic injuries (2003-2012)*. Vet Comp Orthop Traumatol. 2014;27(3):198-203. doi: 10.3415/VCOT-13-06-0075. Epub 2014 Feb 26.

Mulherin BL, Snyder CJ, Soukup JW. *Retrospective evaluation of canine and feline maxillomandibular trauma cases; a comparison of signalment with non-maxillomandibular traumatic injuries (2003-2012)*. Vet Comp Orthop Traumatol. 2014;27(3):192-7. doi: 10.3415/VCOT-13-06-0074. Epub 2014 Feb 26.

Soukup JW, Mulherin BL, Snyder CJ. *Prevalence and nature of dentoalveolar injuries among patients with maxillofacial fractures*. J Small Anim Pract. 2013 Jan;54(1):9-14.

Mulherin BL, Snyder CJ, Soukup JW. *An alternative symphyseal wiring technique*. J Vet Dent. 2012 Fall;29 (3):176-84.

BOOK CHAPTERS:

Mulherin BL. *Surgical Principles and pain management*. In Atlas of Oral and Maxillofacial Surgery in Dogs and Cats, July 2020, submitted for review.

Van Vertloo L, Mulherin BL. *Feline Chronic Gingivostomatitis and Eosinophilic Granuloma Complex*. In Veterinary Clinical Immunology, 2018, submitted for review.

NON-REFEREED PUBLICATIONS FOR PROFESSIONALS:

Mulherin BL. *Featured Topic: Deciduous Teeth Extractions*. Vet Pulse. March 2015:vol 2: no 1.

REVIEWER: PROFESSIONAL AND SCIENTIFIC PUBLICATIONS:

Journal of the American Veterinary Medical Association: 2016-1
2018-2

Journal of Small Animal Practice: 2016-1
2017-1
2018-1
2019-1
2020-1

Vet Record: 2019-1

Book Review: 2019-1, Wiggs's Veterinary Dentistry Principles and Practice, Second Edition. Heidi B. Lobprise and Johnathon R. (Bert) Dodd. 522 pages. 2019. John Wiley and Sons, Inc., Blackwell.

OTHER PROFESSIONAL ACTIVITIES:

Expert witness: 2019, Patent infringement

NON-REFEREED EDUCATIONAL VIDEOS FOR NON-PROFESSIONALS:

2017 Mulherin BL. How to Brush Your Cat's Teeth <https://vimeo.com/212628116>
Mulherin BL. How to Brush Your Dog's Teeth <https://vimeo.com/211369027>
Mulherin BL. How to Recognize Dental Problems in Cats <https://vimeo.com/211370689>
Mulherin BL. How to Recognize Dental Problems in Dogs <https://vimeo.com/211372395>

NON-REFEREED PUBLICATIONS FOR NON-PROFESSIONALS:

Swanson D, Mulherin BL. *Tip-Top Spark Plugs*. Pugs. (Editors of Dog Fancy). 2011: vol 23:3rd edition; pg 54-60.

PROFESSIONAL PRESENTATIONS:

*Proceedings prepared for presentation
Invited Presentations/Laboratory Instructor

NATIONAL MEETINGS:

November 2018 **Veterinary Dental Forum**, Phoenix, AZ.

Pearls of Wisdom for Extracting Dog Teeth. 275 veterinarians, 1 hour. *
Feline Extraction Laboratory, Laboratory Instructor, 25 veterinarians, 4 hours. #

July 2018 **American Veterinary Medical Association**, Denver, Colorado.

Introduction to Dental Radiographic Positioning. 100 veterinarians, 1 hour. *#
Regional Anesthesia for the Dentistry and Oral Surgery Patient. 200 veterinarians and technicians, 1 hour. *#
Pearls of Wisdom on Extracting Dog Teeth. 250 veterinarians, 1 hour. *#
Pearls of Wisdom on Extracting Cat Teeth. 250 veterinarians, 1 hour. *#
Introduction to Dental Radiographic Positioning. 75 veterinarians, 1 hour. *# (Repeat lecture)

September 2017 **Veterinary Dental Forum**, Nashville, TN.

Feline Extraction Laboratory, Laboratory Instructor, 20 veterinarians, 4 hours. #
Regional Nerve Blocks. Laboratory Instructor, 30 veterinarians and veterinary technicians, 2 hours. #

October 2016 **Veterinary Dental Forum**, Minneapolis, MN.

Feline Extraction Laboratory, Laboratory Instructor, 45 veterinarians, 4 hours. #

September 2016 **Veterinary Dental Forum**, Minneapolis, MN.

Regional Nerve Blocks. Laboratory Instructor, 15 veterinarians and veterinary technicians, 2 hours. #

A Dog's Life; Review of Canine Dentistry. 30 veterinarians and veterinary technicians, 1 hour. *

Regional Nerve Blocks. Laboratory Instructor, 10 veterinarians and veterinary technicians, 2 hours. #

October 2015 **Veterinary Dental Forum**, Monterey Bay, California.

Ortho II Laboratory. Laboratory Instructor, 30 veterinarians, 4 hours. #

Feline Extraction Laboratory, Laboratory Instructor, 40 veterinarians, 4 hours. #

November 2014 **Veterinary Dental Forum**, Atlanta, Georgia.

Canine and Feline Maxillomandibular and Non-maxillomandibular Trauma Cases: Comparison of Lunar Cycle and Seasonality. 25 veterinarians, 30 minutes. *

Canine and Feline Maxillomandibular and Non-maxillomandibular Trauma Cases: Comparison of Signalment with Non-maxillomandibular Traumatic Injuries. 30 veterinarians, 30 minutes. *

Ortho II Laboratory. Laboratory Instructor, 40 veterinarians, 4 hours. #

Feline Extraction Laboratory, Laboratory Instructor, 45 veterinarians, 4 hours. #

October 2013 **Veterinary Dental Forum**, New Orleans, Louisiana.

Feline Dentistry: The Skinny on the Kitty. 264 veterinarians and veterinary technicians, 1 hour. *

Feline Extraction Laboratory, Laboratory Instructor, 30 veterinarians, 4 hours. #

November 2011 **Veterinary Dental Forum**, Boston, MA.

Feline Extraction Laboratory, Laboratory Instructor, 41 veterinarians, 4 hours. #

October 2010 **Veterinary Dental Forum**, San Antonio, Texas.

Regional Anesthesia and Pain Management Lecture and Lab. 45 veterinarians and veterinary technicians, 3 hours. *

September 2010 **Veterinary Dental Forum**, San Antonio, Texas.

Ortho II Laboratory. Laboratory Instructor, 40 veterinarians, 4 hours. #

STATE MEETINGS:

February 2017 **Winter Iowa Veterinary Medical Association**, Altoona, Iowa.

Regional Anesthesia. 150 veterinary technicians, veterinarians and veterinary students, 1 hour. *#

Oral Examination and Charting for the Veterinary Technician. 150 veterinary technicians, veterinarians and veterinary students, 1 hour. *#

Veterinary Radiology. 150 veterinary technicians, veterinarians, veterinary students, 1 hour. *#

LOCAL MEETINGS (OUTSIDE OF IOWA):

March 2020 **Vet On It, LLC**. Omaha, Nebraska *Canine Canines to Feline Fangs; Veterinary Dentistry and Oral Surgery*. 8 hour virtual CE meeting, over 70 veterinarians

Oral Examination and Dental Charting, over 70 veterinarians, 1 hour. *#

The Skinny on the Kitty-dentition occlusions and malocclusions, over 70 veterinarians, 1 hour. *#

A Dog's Life-dentition, periodontal disease and tooth fractures, over 70 veterinarians, 1 hour. *#

Regional Anesthesia for Canine and Feline Patients, over 70 veterinarians, 1 hour. *#
Pearls of Wisdom on Surgical Extractions, over 70 veterinarians, 1 hour. *#
50 Shades of Grey-An Introduction to Dental Radiographic Positioning and Interpretation, over 70 veterinarians, 1 hour. *#
50 Shades Darker-Dental Radiographic Interpretation, over 70 veterinarians, 1 hour. *#
50 Shades Free-Dental Radiography-A Case based interpretation and treatment, over 70 veterinarians, 1 hour. *#

October 2018 **Minnesota Veterinary Institute Dentistry Series**, St. Paul, MN. University of Minnesota.

Basic Feline Extraction Lab. Laboratory Instructor. 36 veterinarians, 6 hours. #

Advanced Feline Extraction Lab. Laboratory Instructor. 36 veterinarians, 6 hours. #

April 2017 **MU Dental CE Weekend**, University of Missouri College of Veterinary Medicine, Columbia, Missouri.

Canine Extractions and Regional Anesthesia Lab. Laboratory Assistant. 32 veterinarians and veterinary students, 6 hours. #

Advanced Extractions Lab. Laboratory Assistant. 32 veterinarians and veterinary students, 6 hours. #

Oral Examination and Charting for the Veterinary Technician. 38 Veterinary Technicians, 1 hour. *#

Veterinary Radiology Positioning for the Veterinary Technician. 38 Veterinary Technicians, 1 hour. *#

Regional Anesthesia. 38 Veterinary Technicians, 1 hour. *#

April 2015 **MU Zoetis Dental CE Weekend**. University of Missouri, Columbia, Missouri.

When to Perform Crown Amputations. 60 veterinarians, technicians, and veterinary students, 30 minutes. #

Retained Tooth Roots. 60 veterinarians, technicians, and veterinary students, 30 minutes. #

Canine Extractions and Regional Anesthesia Lab. Laboratory Assistant. 60 veterinarians and veterinary students, 6 hours. #

Advanced Extractions Lab. Laboratory Instructor. 60 veterinarians and veterinary students, 6 hours. #

April 2014 **MU Zoetis Dental CE Weekend**. University of Missouri, Columbia, Missouri.

Canine Extractions and Regional Anesthesia Lab. Laboratory Assistant. 50 veterinarians and veterinary students, 6 hours. #

Advanced Extractions Lab. Laboratory Instructor. 50 veterinarians and veterinary students, 6 hours. #

August 2013 **University of Wisconsin-School of Veterinary Medicine**, Madison, Wisconsin.

Veterinary Dentistry Techniques for the General Practitioner and the Veterinary Technician.

The Complete Oral Examination and Basics of Oral Charting, 21 veterinarians and 21 technicians and assistants, 1 hour. *#

Veterinary Radiology, 21, veterinarians and 21 technicians/assistants, 1 hour. *#

Local Anesthesia Lab, Closed Root Planing, and Perioceutic Application, 21 veterinarians, 2 ½ hours. #

Dental Scaling, Polishing and Oral Charting Lab, 21 technicians/assistants, 2 hours. #

Simple and Surgical Extractions Lab, 21 veterinarians and 21 technicians/assistants, 2 ½ hours. #

January 2012 **University of Wisconsin-Madison School of Veterinary Medicine**, Madison, Wisconsin.

Dental Radiology; Interpretation of Dental Radiographs, Artifacts and Pathology. 18 radiology residents and faculty and Dentistry and Oral Surgery Residents and Faculty, 1 hour.

September 2012 **University of Wisconsin School of Veterinary Medicine**, Madison, Wisconsin.
Canine Acanthomatous Ameloblastoma. 45 faculty, residents, and veterinary students at UW-Madison School of Veterinary Medicine, 30 minutes.

September 2011 **University of Wisconsin-Madison School of Veterinary Medicine**, Madison, WI.
Osteoradionecrosis and Other Oral Consequences of Radiation Therapy. Resident rounds with Oncology Service and Dentistry and Oral Surgery, 19 faculty, residents, and graduate students, 1 hour.

December 2010 **Wisconsin Veterinary Medical Association**, University of Wisconsin, Madison, WI.
Surgical Extractions Laboratory. Laboratory Instructor, 35 veterinarians, 4 hours. #

October 2010 **Wisconsin Veterinary Medical Association** University of Wisconsin, Madison, WI.
Advanced Periodontal Disease Therapy. Laboratory Instructor, 35 veterinarians, 4 hours. #

LOCAL MEETINGS (WITHIN IOWA):

June 2020 **Vet Med Webinar Series**, Iowa State University College of Veterinary Medicine Ames, Iowa *Making the World a Better Place One Smile at a Time; Periodontal Disease in Your Dog and Cat*. Virtual Meeting 13 veterinarians, 10 veterinary students, 7 pet owners, 1 hour.

August 2019 **Linn County Veterinary Association**, Cedar Rapids, Iowa *50 Shades Darker; Radiographic Interpretation*. 25 veterinarians, 2 hours. #

April 2019 **ISU-IVS Partners in Progress CE Event**, Botanical Gardens, Des Moines, Iowa
Pearls of Wisdom on extracting dog and cat teeth. 22 veterinarians, 1 hour. *

September 2017 **Central Iowa Veterinary Technician Association**, Ankeny, Iowa.
Feline Dentistry. 25 veterinary technicians, 1 ½ hours. #

April 2016 **Greater Des Moines Veterinary Medical Association (GDVMA)**, West Des Moines, Iowa.
Digital Dental Radiology Laboratory. Laboratory Instructor, 18 general practitioners, 3 hours. #

May 2015 **Greater Des Moines Veterinary Medical Association (GDVMA)**, Urbandale, Iowa.
Pearls of Wisdom. 15 veterinarians, 2 hours. #

December 2012 **DMACC (Des Moines Area Community College)**, Veterinary Technical College, Ankeny, Iowa.
Dental Radiology Lecture, 30 veterinary technician students, 1 hour. #

August 2012 **Iowa State University College of Veterinary Medicine**, Ames, Iowa.
Veterinary Dentistry Techniques for the General Practitioner and the Veterinary Technician.
The Complete Oral Examination and Basics of Oral Charting, 13 veterinarians and 18 technicians/assistants, 1 hour. *
Dental Radiology and Positioning, 13 veterinarians and 18 technician/assistants, 1 hour. *
Evaluation of Dental Radiographs, 13 veterinarians and 18 technicians/assistants, 1 hour. *

Local Anesthesia Lab, Closed Root Planing, and Periosteal Application, 13 veterinarians, 2 ½ hours.
Dental Scaling, Polishing and Oral Charting Lab, 18 technicians/assistants, 2 hours
Simple and Surgical Extractions Lab, 13 veterinarians and 18 technicians/assistants, 2 ½ hours.

December 2011 **DMACC (Des Moines Area Community College)**, Veterinary Technical College, Ankeny, Iowa.
 Dental Radiology Lecture, 30 veterinary technician students, 1 hour. #
 Dental Radiology Wet Lab, 30 veterinary technician students, 3 hours. #

October 2011 **Iowa State University College of Veterinary Medicine**, Ames, Iowa.
Osteoradionecrosis and Other Oral Consequences of Radiation Therapy. Pathophysiology Rounds, 29 veterinarians, faculty and graduate students, 1 hour.

<u>Meeting Type</u>	<u>Number of meetings</u>	<u>Number of lectures</u>	<u>Number of laboratories</u>
National	11	11	14
State	1	3	0
Local (outside of Iowa)	11	18	13
Local (within Iowa)	10	11	5

TEACHING:

Instructor of Record:

VCS 480 Veterinary Dentistry, 8 contact hours/year, 2 hours lecture, 6 hours lab, 2009-Present
 VCS 482 Veterinary Dentistry and Oral Surgery Rotation, 13, 2 week rotations/year, 2016-Present

Adjunct Instructor:

VCS 463 Primary Care Rotation 8 contact hours/rotation March 2020-Present
 VCS 407 Feline Internal Medicine, 1 contact hour/year, 2011-Present
 VCS 405 Pet Bird and Exotic Species Medicine, 1 contact hours/year, 2012-2020
 VCS 395 Small Animal Surgery, 1 contact hour/year, 2013-Present
 VCS 451 Advanced Junior Surgery, 3 contact hours, 2016
 VCS 463 Primary Care Rotation, 26, 2 week rotations/year, 2008-2015

Lecturer:

VCS 463 Primary Care Rotation, 1 contact hour/rotation, 26 hours/year, 2015-2020

INTRAMURAL CLUB ACTIVITIES (Contact hours spent in lecture and lab activities)

- 2020 **SCF4VD (Student Chapter Foundation for Veterinary Dentistry)/Feline Medicine Club**
 Oral Examination, Regional Anesthesia in the Feline Patient. 21, 1st-3rd year students, 3 hours.
- 2019 **SCF4VD (Student Chapter Foundation for Veterinary Dentistry)**
 Oral Examination, Scaling, Polishing and Local Anesthesia, 22, 1st-3rd year students, 3 hours.

- 2018 **SCF4VD (Student Chapter Foundation for Veterinary Dentistry)/Feline Medicine Club**
 Oral Examination, Regional Anesthesia in the Feline Patient, 22, 1st-3rd year students, 3 hours.
 Oral Examination, Scaling, Polishing and Local Anesthesia, 15, 1st-3rd year students, 3 hours.
- 2017 **SCAVDS (Student Chapter of American Veterinary Dental Society)/Feline Medicine Club**
 Oral Examination, Regional Anesthesia in the Feline Patient, 38 1st-3rd year students, 3 hours.
SCAVDS (Student Chapter of American Veterinary Dental Society)
 Oral Examination, Scaling, Polishing and Local Anesthesia, 17 1st-3rd year students, 3 hours.
 Dental Radiographic Interpretation, 40 1st-3rd year students, 1 hour.
Shelter Medicine Club
 Tom Cat Neuter Clinic, 45 1st-3rd year students, 4 hours.
- 2016 **SCAVDS (Student Chapter of American Veterinary Dental Society)/Feline Medicine Club.**
 Oral Examination, Regional Anesthesia in the Feline Patient, 30 1st-3rd year students, 3 hours.
 Oral Examination, Scaling, Polishing and Local Anesthesia, 30 1st-3rd year students, 3 hours.
- 2015 **SCAVDS (Student Chapter of the American Veterinary Dental Society) and Feline Club**
 Oral Examination, Regional Anesthesia in the Dental Patient, 40 1st-3rd year students, 3 hours.
 Oral Examination, Scaling, Polishing and Local Anesthesia, 40 1st-3rd year students, 3 hours.
- 2014 **SCAVDS (Student Chapter of Veterinary Dental Society)**
 Oral Examination, Regional Anesthesia in the Dental Patient, 41 1st-3rd year students, 3 hours.
 Introduction to Veterinary Dentistry, 65, 1st-3rd year students, 1 hour.
 Oral Examination, Scaling, Polishing and Local Anesthesia, 21, 1-3rd year students, 3 hours.
Topic Rounds-4th year rotations
 Dental Radiology Interpretation, 36, 4th year veterinary students, 1 hour.
- 2013 **Student Chapter of the American Veterinary Dental Society**
 Oral Examination, Scaling, Polishing and Local Anesthesia, 20, 1-3rd year veterinary students, 3 hours.
- 2012 **Topic Rounds-4th year rotations**
 Canine and Feline Dentistry, 45, 4th year veterinary students, 1 hour.
Student Chapter of the American Veterinary Dental Society
 Feline Tooth Resorption, 36, 1-3rd year veterinary students, 1 hour.
- Canine Club**
 Canine Dentistry, 15, 1-3rd year veterinary students, 1 hour.
- Feline Club**
 Feline Dentistry, 25, 1-3rd year veterinary students, 1 hour.
- 2009 **Topic Rounds-4th year rotations**
 Zoonotic Diseases in Small Animals, 55, 4th year veterinary students, 1 hour.

EXTRAMURAL CLUB ACTIVITIES (Contact hours spent in lecture and lab activities)

2016 **Chinese/Taiwanese visiting veterinary students**

Dental Jeopardy, 22 visiting veterinary students, 20 ISU 4th year veterinary students 1 hour.
General Canine and Feline Dentistry, 22, Chinese/Taiwanese visiting veterinary students, 1 ½ hours.
General Canine and Feline Oral Examination and Regional Anesthesia Wet Lab. 22 visiting veterinary students, 2 hours.

SAVMA (Student American Veterinary Medical Association) Symposium, Ames, Iowa.

Feline Dentistry, 50, 1st-4th year veterinary students around the country, 1 hour.*

Canine Dentistry. 50, 1st-4th year veterinary students around the country, 1 hour.*

Canine Dentistry and Oral Surgery Extraction Techniques. Laboratory Coordinator and Instructor, 40 1st-4th year veterinary students around the country, 3 hours.

Canine Dentistry and Oral Surgery Extraction Techniques. Laboratory Coordinator and Instructor, 30 1st-4th year veterinary students around the country, 3 hours (Repeat lab).

2015 **MU Dental Extraction Wet Lab.** University of Missouri College of Veterinary Medicine, Columbia, Missouri. Laboratory Assistant. 120 Veterinary Students, 4 hours.

2014 **MU Dental Extraction Wet Lab.** University of Missouri College of Veterinary Medicine, Columbia, Missouri. Laboratory Assistant. 120 Veterinary Students, 4 hours.

2014 **University of Wisconsin-Madison School of Veterinary Medicine**, Madison, WI.

Acanthomatous Ameloblastoma, Bow-Meow Bagels-Purina. 15, 1-3rd year veterinary students, 1 hour.

2011 **University of Wisconsin-Madison School of Veterinary Medicine**, Madison, WI.

Feline Tooth Resorption, Bow-Meow Bagels-Purina. 20, 1-3rd year veterinary students, 1 hour.

INTRAMURAL LECTURES (Contact hours spent in lecture):

2019 Oral Examination and Dental Charting, 11 veterinarians, technicians, animal caretakers, 1 ½ hours.

Introduction to Radiographic Positioning, 11 veterinarians, technicians, animal caretakers, 1 ½ hours.

Regional Anesthesia, 11 veterinarians, technicians, animal caretakers, 1 ½ hours.

Introduction to Radiographic Interpretation, 4 veterinarians, 1 ½ hours.

Feline Dentistry, 4 veterinarians, 1 hour.

Canine Dentistry, 4 veterinarians 1 ½ hours.

Pearls of Wisdom on Surgical Extractions in the Dog and Cat, 4 veterinarians, 1 ½ hours.

2016 Oral Examination and Dental Charting, 10, veterinary technicians, 1 hour.

2011 Feline Dentistry Technician Rounds, 20, veterinary technicians, 1 hour.

EXTRAMURAL LECTURES TECHNICIANS (Contact hours spent in lecture):

2011 **DMACC (Des Moines Area Community College)**, Veterinary Technical College, Ankeny, Iowa.
Dental Radiology Lecture and Laboratory. 28, veterinary technician students, 4 hours.

OUTREACH:

- 2018 **USDA AgDiscovery**, Ames, Iowa.
Canine and Feline Oral Examination, Oral Pathology and Regional Anesthesia Wet Lab and Lecture. 16 high school students, ages 15-17, 4 hours.
- 2015 **Iowa State Fair**, Des Moines, Iowa.
Pet Wellness and First Aid. Vet Camp, 60, children ages 10-18, 3 hours.
- 2014 **Ames Lions Club**, Ames, Iowa.
The Whole Tooth and Nothing but the Tooth. Ames Lions Club, 27 club members, 1 ½ hours.
- 2013 **Iowa State University Animal Science Department Pre-Vet Club**, Ames, Iowa.
Veterinary Dentistry, 20, undergraduate students, 1 hour.
- 2013 **Boone Veterinary Hospital**, Boone, Iowa.
The whole tooth and nothing but the tooth; Dental Disease and Home Care for your pet.
15 dog and cat owners, 1 hour.
- 2009 **Iowa State Fair**, Des Moines, Iowa.
Pet first aid. 145, adults and children, 3 hours.
- 2005 **First Presbyterian Church Near Ely**, Ely, Iowa.
Common zoonotic diseases of small and large animals. 15, adult, 1 hour.
- 2004 **Lemont-Bromberek Oakwood Elementary School**, Lemont, Illinois.
My job as a veterinarian, 150, 1st grade students, 1 hour.
- 2002 **Johnson School of the Arts**, Cedar Rapids, Iowa.
My job as a veterinarian, 40, 1st and 2nd grade students, 1 hour.
- 1997 **Iowa State University College of Agriculture** Teaching Assistant, Animal Reproduction Lab, Ames, Iowa.
28, 2nd year undergraduate pre-vet students.

INTERNATIONAL OUTREACH (To non-professionals and veterinarians, translated in Chinese by interpreter)

2018 **Telemedicine Lecture**, China. Mulherin BL: Dental Disease in Your Pet. 1500 pet owners.*

2019 **Telemedicine Lecture**, China. Mulherin BL: Periodontal disease in Dogs and Cats. 200 pet owners.

INSTITUTIONAL SERVICE:

PROFESSIONAL SOCIETY AND ASSOCIATION MEMBERSHIPS

2009-Present	Member-Phi Zeta, Iowa State University College of Veterinary Medicine
2002-Present	Member-AVMA, American Veterinary Medical Association
2002-Present	Member-IVMA, Iowa Veterinary Medical Association
2002-2005, 2008-Present	Member-AAHA, American Animal Hospital Association
2008-Present	Member-AVDS, American Veterinary Dental Society
2002-Present	Veterinary Accreditation, USDA, APHIS, VS, September 2002

SERVICE IN PROFESSIONAL ASSOCIATIONS:

2010-Present	Member-Veterinary Dental Educators
2015-Present	Member-Exam Committee, American Veterinary Dental College
2018-Present	Member-Exam Committee- American Veterinary Dental College Subcommittee on Educational Resources

PROFESSIONAL LICENSES HELD:

Iowa 2002-Present
Wisconsin-2010-2019 (Inactive)
Illinois-2002-2005 (Inactive)
National Accreditation Category I- 2002-present: Renewal date 4/30/21

FACULTY ACTIVITIES:

A. COLLEGE SERVICE ACTIVITIES:

1. 2019-Present CVM Advancement of Term Faculty Committee
2. 2016-Present CVM Curriculum Committee Member

B. DEPARTMENT SERVICE ACTIVITIES:

1. 2019-Present Promotion and Advancement-Chair
2. 2018-Present Promotion and Advancement Committee
3. 2018-Present Promotion and Advancement- Assistant Chair
4. 2017-Present Non-Tenure Eligible Faculty Review Committee
5. 2017-2018 Rotating Internship Committee-Evaluation Tracker
6. 2017-Present Surgery Education Task Force
7. 2017-Present Surgical Education Improvement Committee
8. 2016-Present VCS Curriculum Committee Chair
9. 2016-Present Rotating Internship Committee-Committee Member
10. 2015-Present VCS Curriculum Committee- Committee Member
11. 2015-Present Safe Haven for Paws-Contact
12. 2014-Present Section Head-Dentistry and Oral Surgery
13. 2010-Present Employee of the Season- Committee Member
14. 2016-2017 Faculty Search Committee (Primary Care)
 - i. Successful Search: Jennifer Scaccianoce
15. 2014-2015 Faculty Search Committee (Primary Care)
 - i. Successful Search: Joyce Carnevale

- 16. 2014-2015 Spectrum-Safe Zone Group Ally
- 17. 2012-2013 Faculty Search Committee (Primary Care)
 - i. Successful Search: Bryce Kibbel

A. FACULTY INVOLVEMENT IN STUDENT ORGANIZATIONS:

- 1. 2016-Present Faculty Advisor-SC4VD, Student Chapter of the Foundation for Veterinary Dentistry
- 2. 2011-2016 Faculty Advisor-SCAVDS, Student Chapter of the American Veterinary Dental Society (Iowa State University College of Veterinary Medicine)

B. FACULTY MENTORSHIP:

- 1. Rebecca Walton, Assistant Clinical Professor
- 2. Jennifer Scaccianoce, Assistant Clinical Professor

C. HOUSE OFFICER MENTORSHIP:

- 1. Joanna Kaplan (2015 graduate UC. Davis)
- 2. Emily Strzok (2013 graduate U of Minnesota)

D. VETERINARY ADVISEE MENTORSHIP (2016-present)

- a. Graduated veterinary students-4 graduates
- b. Current 4TH year veterinary students-4 veterinary students
- c. Current 3rd year veterinary students-3 veterinary students
- d. Current 2nd year veterinary students-2 veterinary students
- e. Current 1ST year veterinary students-2 veterinary students

E. OTHER:

- a. External Reviewer for Promotion to Associate Professor and Tenure Candidate for Colorado State University 2018
- b. External Reviewer for Dentistry and Oral Surgery Curriculum Core Competencies for Colorado State University 2019
- c. Attendance at Senior Banquet: 2012, 2015, 2016, 2107, 2018, 2019
- d. Attendance at Graduation: 2009, 2010, 2011, 2012, 2015, 2016, 2017, 2018, 2019
- e. Attendance at White Coat Ceremony 2009, 2015

F. COVID-19 CONTRIBUTIONS

- a. Scheduling all remaining visiting scholars into virtual rotations
 - i. Recruiting and managing virtual rotations for students in an expedient nature
- b. Covid-19 and VM4 Student Preceptorship Experience and Guidelines
- c. Offering Dentistry and Oral Surgery Education through the Primary Care Service for visiting scholars
- d. Offering Dentistry and Oral Surgery education through the Primary Care Service for all 4th year students
- e. Input regarding education for resuming fall education for VM1-VM3 students
- f. Attended almost all Section Leader meetings
- g. June 2020 **Vet Med Webinar Series**, Iowa State University College of Veterinary Medicine Ames, Iowa *Making the World a Better Place One Smile at a Time; Periodontal Disease in Your Dog and Cat*. Virtual Meeting 13 veterinarians, 10 veterinary students, 7 pet owners, 1 hour.