

# Brennen McKenzie

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## EDUCATION

### **University of Pennsylvania, School of Veterinary Medicine**

Veterinariae Medicinae Doctoris

**Honors:** Magna Cum Laude, Dean's List, ACVR Excellence in Clinical Radiology Award, Morris Ziskind Public Health Prize, Excellence in Small Animal Clinics Award, Excellence in Clinical Laboratory Medicine Scholarship, Phi Zeta Veterinary Honor Society

### **London School of Hygiene & Tropical Medicine**

#### **University of London**

Master of Science in Epidemiology

### **San Francisco State University**

Master of Arts in Physiology and Behavioral Biology

### **University of California at Santa Cruz**

Bachelor of Arts in English Literature and Biology

**Honors:** Honors in the English Literature Major, Honors in the Comprehensive Examination for the Biology Major

### **2023 VIN Veritas Award**

“Honors those who serve truth and science with integrity and courage.”

## CURRENT EMPLOYMENT

### **Cellular Longevity, Inc., dba Loyal**

*Director of Veterinary Medicine*

### **Adobe Animal Hospital**

*Small animal and exotic companion animal clinician*

## PUBLICATIONS

Graves JL, **McKenzie BA**, Koch Z, Naka A, Spofford N and Morrison J (2023) Body weight, gonadectomy, and other risk factors for diagnosis of osteoarthritis in companion dogs. *Front Vet Sci* 10:1275964.

Chen FL, Ullal TV, Graves JI, Ratcliff ER, Naka A, **McKenzie BA**, Carttar TA, Super KM, Austriaco J, Weber SY, LaCroix-Fralish ML, Vaughn J. Evaluating instruments for assessing healthspan: a multi-center cross-sectional study on health-related quality of life (HRQL) and frailty in the companion dog. *Geroscience*. 2023 Feb 13. doi: 10.1007/s11357-023-00744-2. PMID: 36781597.

McKenzie BA, Chen FL. Assessment and Management of Declining Physical Function in Aging Dogs. *Top Companion Anim Med*. 2022 Nov-Dec;51:100732.

McKenzie, BA, Lacroix-Fralish, ML, Chen, F. The phenotype of aging in the dog: How aging impacts the health and wellbeing of dogs and their caregivers. *J Amer Vet Med Assoc*. 2022;260(9):963-970. <https://doi.org/10.2460/javma.22.02.0088>

McKenzie, BA. Comparative Veterinary Geroscience: Mechanism of molecular, cellular, and tissue aging in humans, laboratory animal models, and companion dogs and cats. *Amer J Vet Res*. 2022;83(6): <https://doi.org/10.2460/ajvr.22.02.0027>.

McKenzie, BA, Chen, FL, Gruen, ME, Olby, NJ. Canine Geriatric Syndrome: A Framework for Advancing Research in Veterinary Geroscience. *Front Vet Sci*. 2022;21(9):853743. 10.3389/fvets.2022.853743

- McKenzie, BA. Rational use of diagnostic and screening tests. *J Sm Anim Pract*. 2021;62(11):1016-21.
- McKenzie, BA. Why are so many pet owners not vaccinating? *Adv Sm Anim Med Surg*. 2020;33(6):1-4.
- McKenzie, BA. Evidence-based Medicine. Chapter in: *Pet-specific Care for the Veterinary Team*. Ed. Ackerman, L. New Jersey: John Wiley & Sons, Inc.; June, 2020.
- McKenzie, BA. *Placebos for Pets? The Truth about Alternative Medicine in Animals*. London, England: Ockham Publishing; 2019.
- Stull JW, Shelby J, Bonnett B, Block G, Budsberg S, Dean R, Dicks M, Forsgren B, Golab G, Hamil J, Kass PH, King L, Lund E, Maddux M, Mcfarland JM, **McKenzie B**, Moyer M, Olson P, Wittman T. Broadening access to veterinary care: Barriers and next steps to providing a spectrum of effective healthcare to our patients. *J Amer Vet Med Assoc*. 2018;253(11):1386-89.
- McKenzie, BA. Overdiagnosis. *J Amer Vet Med Assoc*. 2016;249(8):884-889.
- McKenzie, BA. Evidence-based veterinary medicine: What is it and why does it matter? *Equine Vet Edu*. 2014;26(9):451-452.
- McKenzie, BA. Veterinary clinical decision-making: cognitive biases, external constraints, and strategies for improvement. *J Amer Vet Med Assoc*. 2014;244(3):271-276.
- McKenzie, BA. Is complementary and alternative medicine compatible with evidence-based medicine? *J Amer Vet Med Assoc*. 2012;241(4):421-6.
- McKenzie, BA. Evaluating the benefits and risks of neutering dogs and cats. *CAB Reviews: Persp in Agricul, Vet Sci, Nutr, Nat Res*. 2010;5(45).
- McKenzie, BA. What's the Evidence? Glucosamine and chondroitin for canine osteoarthritis. *J Amer Vet Med Assoc*. 2010;237(12):1382-3.
- McKenzie, BA. (2012). Protecting public health is the responsibility of the government. In: Engdahl, S. (Ed.), *Alternative Therapies (Current Controversies)* (pp.130-7). Farmington Hills: Greenhaven Press. Adapted from "CAM and the Law, Part I: Introduction to the Issues," *ScienceBasedMedicine.org*, November 9, 2010.
- McKenzie, BA. (2012). The popularity of alternative medicine is exaggerated. In: Zott, LM. (Ed.), *Alternative Medicine (Opposing Viewpoints)* (pp.90-7). Detroit: Greenhaven Press. Adapted from "How Popular is Acupuncture?" *ScienceBasedMedicine.org*, March 25, 2011.

#### CONFERENCE PRESENTATIONS

Fetch, Long Beach, December, 2023

1. Measuring Frailty in Dogs and Cats
2. Let's Talk about Aging: What Can We Do About It in Dogs & Cats? (panel discussion)
3. Aging and Nutrition: Can Diet Extend Lifespan & Healthspan?

CVDL, León, México, September, 2023

1. Clinical Decision Making
2. Aging in Dogs and Cats
3. Overdiagnosis
4. Measuring Frailty in Dogs and Cats
5. Evidence-based Palliative & Hospice Care: Can We Get There?

ACVIM Forum, Pittsburgh, PA, June, 2023

1. Effects of Nutritional Interventions on Aging

Western Veterinary Conference, Las Vegas, NV, February, 2023

1. Evidence-based Small Animal Geriatric Medicine-Dogs
2. Evidence-based Small Animal Geriatric Medicine-Cats
3. Choosing Wisely: Things to Stop Doing in Your Practice (Maybe)
4. Evidence-based Palliative & Hospice Care: Can We Get There?

VMX, Orlando, FL, January, 2023

1. Aging in the Dog: Foundations of Canine Geriatric Medicine

Southwest Veterinary Symposium, Ft. Worth, TX, September, 2022

1. Masterclass-Canine Aging Biology

Fetch DVM360 Conference, Kansas City, MO, August, 2022

1. Aging in the Dog: Foundations of Canine Geriatric Medicine

Australian Veterinary Association Annual Conference, Broadbeach, QLD, Australia, May, 2022

1. EBVM and the role of the GP vet
2. Too much medicine? The allure of overdiagnosis

Western Veterinary Conference, Las Vegas, NV, March, 2018

1. Confused about Cannabis? A Look at the Evidence for Medical Marijuana in Pets
2. Ove, OVH, OMG! A Pragmatic Review of Neutering Options
3. Thinking about Testing: How to make Rational Choices about Using Diagnostic Tests
4. Placebos in Pets

American College of Veterinary Internal Medicine Forum, National Harbor, MD, June, 2017

1. Overdiagnosis: Don't Just Do Something, Stand There!
2. Reporting Quality and Risk of Bias in Veterinary Clinical Trials: A Systematic Review

Western Veterinary Conference, Las Vegas, NV, March, 2016

1. Don't Just Do Something, Stand There! The Perils of Overdiagnosis and Overtreatment.
2. The Laser Craze: What Is the Evidence for Low-level Laser Therapy?
3. Be All You Can Be: What Is Clinical Audit and How Can It Help You?
4. What You Know that Ain't So: Common Myths in Small Animal Practice 2016 Edition

Society for Theriogenology Annual Conference, San Antonio, TX, August, 2015

1. Principles of Evidence-based Medicine

Western Veterinary Conference, Las Vegas, NV, February, 2015

1. EBVM in the Trenches: Pragmatic Strategies for Implementing EBVM in General practice
2. Can We Trust the Scientific Literature in Veterinary Medicine?
3. What You Know that Ain't Necessarily So: An Evidence-based Exploration of Common Beliefs & Practices in Veterinary Medicine

EBVM 2014: 1<sup>st</sup> International Evidence-based Veterinary Medicine Network Conference, Windsor, U.K., October, 2014

1. EBVM in the Trenches: Pragmatic Strategies for Implementing EBVM in General Practice
2. Potential sources of bias in the veterinary literature: A systematic review of factors associated with reported positive treatment effects in published veterinary clinical trials.

Western Veterinary Conference, Las Vegas, NV, February, 2014

1. What is Evidence-Based Veterinary Medicine & Why Do We Need It?

2. Myths & Misconceptions About Evidence-Based Veterinary Medicine
3. The Future of Evidence-Based Veterinary Medicine: Challenges & Opportunities
4. Alternative Medicine and Evidence-Based Medicine: Are They Compatible?

American Board of Veterinary Practitioners Symposium, Phoenix, AZ, October, 2013

1. Myths & Misconceptions About Evidence-Based Veterinary Medicine
2. The Future of Evidence-Based Veterinary Medicine: Challenges & Opportunities
3. Clinical Decision Making: How We Do It & How We Can Improve It
4. Alternative Medicine and Evidence-Based Medicine: Are They Compatible?

The Sceptical Vet: Eminence or Evidence? An open symposium hosted by the Royal College of Veterinary Surgeons Charitable Trust, London, England, October, 2012.

1. Evidence-based Veterinary Medicine: A Global Perspective.

American Veterinary Medical Association Annual Conference, San Diego, CA, August, 2012

1. Can Complementary and Alternative Medicine be Evidence-based Medicine?
2. Inside the Issues Debate: Which is Better, Clinical Experience or Clinical Trials?

The Science Behind Alternative Medicine in Animal Health, 29<sup>th</sup> Annual Frank W. Jordan Seminar, School of Veterinary Medicine, Kansas State University, April, 2012

1. Science Works: Where We Go Wrong and how Evidence-based Medicine Can Set Us Right.
2. What is Complementary and Alternative Medicine and How Do We Evaluate It?
3. Applying a Science-based Approach to Evaluating Specific Alternative Therapies