

Curriculum Vitae

**DARCY BRITTAIN ADIN, DVM, DIP. ACVIM (CARDIOLOGY)**  
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**EDUCATION**

CORNELL UNIVERSITY, Ithaca, NY, Doctor of Vet. Med., GPA 3.9/4.0, rank 5/78 May 1996  
HARTWICK COLLEGE, Oneonta, NY, B. A., summa cum laude, Biology major May 1992

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**POST-GRADUATE TRAINING**

UNIVERSITY OF CALIFORNIA, DAVIS, Davis, CA, Residency in Cardiology 1997-1999  
VCA SOUTH SHORE ANIMAL HOSPITAL, S. Weymouth, MA, Rotating internship 1996-97

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**CERTIFICATION AND LICENSURE**

Diplomate ACVIM (Cardiology) May 2000  
Veterinary Medical License, State of Florida 2019-present  
Veterinary Medical License, State of North Carolina 2015-present

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**EMPLOYMENT**

UNIVERSITY OF FLORIDA, Gainesville, FL  
Clinical Professor, Cardiology 2021-present  
Clinical Associate Professor, Cardiology 2018-2021

NORTH CAROLINA STATE UNIVERSITY, Raleigh, NC 2015-2018  
Clinical Assistant Professor, Cardiology

MEDVET, MEDICAL & CANCER CENTER FOR PETS, Worthington, OH 2009-2014  
Cardiologist

VETERINARY SPECIALISTS OF ROCHESTER, Rochester, NY 2000-2001, 2006-2009  
Cardiologist

UNIVERSITY OF FLORIDA, Gainesville, FL  
Clinical Assistant Professor, Cardiology 2003-2006  
Clinical instructor in Cardiology 2001-2003

MISSION VALLEY VETERINARY CARDIOLOGY, Gilroy, CA, Mobile cardiologist 1999-2001

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**LEADERSHIP TRAINING AND EXPERIENCE**

Radically candid conversations workshop with Dr. Mia Cary Feb 10, 2023 (planned)  
Program director, Open Heart Program, University of Florida 2023-present  
Florida Interprofessional Workshop Series 2023 (spring)  
University of Florida Mentor Academy 2023 (spring)  
American Association of Veterinary Medical Colleges Leadership Academy 2022-2023  
Facilitation Training Workshop led by Jeffrey Cufaude 2022  
Committees Chaired:  
ACVIM Forum Planning Committee, Cardiology Program 2022-2023  
University of Florida, Open Heart Surgeon Search Committee 2022-2023  
University of Florida, Cardiology Search Committee 2021-2022

American Kennel Club Canine Health Foundation Review Panel	2019
ACVIM Cardiology Research Committee	2018-2019
ACVIM Residency Credentials Committee	2010-2011

### SERVICE

External reviewer for faculty promotion, Ross University School of Vet Med	2022
University of Florida Search Committee for Associate Dean of Research	2022
University of Florida Search Committee for Open Heart Surgeon, chair	2022-2023
University of Florida, Search Committee for Cardiology faculty, chair	2021-2022
Guest Editor Journal of Veterinary Cardiology, Canine Cardiomyopathies special issue	2021
Translational RAAS Interest Group, Scientific Advisory Panel	2020-present
University of Florida, Promotion and Tenure Committee	2020-2022
University of Florida, Veterinary Hospital Research Review Committee	2019-present
University of Florida, Search Committee for Anesthesia faculty	2021
ACVIM Forum Planning Committee, Cardiology Program (Chair, 2022-2023)	2019-2023
American Kennel Club Canine Health Foundation, Cardiology Review Panel, Co-Chair	2019
ACVIM Cardiology Research Committee (Chair 2018-2019)	2016-2019
Reviewer for Mayo Clinic Proceedings, Annals of Medicine, Biomedical Central (BMC)	2001-present
Journal of Veterinary Internal Medicine, Journal of Veterinary Cardiology Frontiers in Cardiovascular Medicine, PLOS ONE, Journal of Veterinary Science, Research in Veterinary Science, Journal of the American Veterinary Medical Association, The Veterinary Journal, NAVC Clinician's Brief, Journal of the American Animal Hospital Association, Veterinary Sciences	
Review Board of the Journal of Veterinary Cardiology	2010-present
Task force for the systematic and independent review of the cardiology certifying examination	2012
Residency Credentials Committee, ACVIM (Cardiology) (Chair 2010-2011)	2008-2011
University of Florida, Medical Records Committee	2005-2006
University of Florida, Intern Committee,	2001-2004
University of Florida, Instructional Committee	2003-2006
University of Florida, Steering Committee of the Mobile Equine Diagnostic Service	2004-2006

### REFFEREED PUBLICATIONS

1. Brethel S, Locker S, Girens R, Rivera P, Meurs K, Adin D. The effect of taurine supplementation on the renin-angiotensin-aldosterone system of dogs with congestive heart failure. Submitted 1/18/23 to Scientific Reports
2. Moy-Trigilio K, Keene BW, Barker P, Adin DB. Myocardial enhancement following agitated saline contrast study in a Boxer dog. *CASE (Cardiovascular Imaging Case Reports)* in review 11/2022.
3. Adin DB, Spalla M, Walden H, Gruntmeir J, Hernandez JA, Long M. Angiotensin-converting enzyme 2 in dogs with *Dirofilaria immitis*. *Parasites and Vectors* accepted 12/2022.
4. Smith CE, Parnell LD, Lai CQ, Rush JE, Adin DB, Ordovas JM, Freeman LM. Metabolomic profiling in dogs with dilated cardiomyopathy eating non-traditional or traditional diets and in healthy controls. *Scientific Reports* 2022;12:22585:1-14: <https://doi.org/10.1038/s41598-022-26322-8>.
5. Adin DB, Hernandez JA. Single breed sex influence on renin-angiotensin-aldosterone system metabolites and enzymes. *J Vet Intern Med* 2022;1-6: DOI: 10.1111/jvim.16589.
6. Oyama MA, Adin DB. Towards quantification of loop diuretic responsiveness for congestive heart failure. *J Vet Intern Med* 2022;1-10: <https://doi.org/10.1111/jvim.16590>.

7. Giorgi ME, Mochel JP, Yuan L, Adin DB, Ward JL. Risk factors for development of kidney injury after parenteral furosemide treatment of left-sided congestive heart failure in dogs. *J Vet Intern Med* 2022:1-11; DOI: 10.1111/jvim.16571
8. Adin DB, Haimovitz D, Freeman LM, Rush JE. Untargeted global metabolomic profiling of healthy dogs based on grain-inclusivity of diet and reevaluation after diet change in dogs with subclinical cardiac abnormalities. *Am J Vet Res*.2022;83(9):1-9. (Most engaging twitter post within the week after publication) [\(1\) AJVR on Twitter: "#Metabolomic pathway differences between dogs eating #grain-free vs. grain-inclusive diets highlight the important effect of diet in metabolomics analyses. Learn more: https://t.co/jxH0Lmxug @UFVetMed @tuftsvet @ACVIM#cardiology #nutrition https://t.co/b3VmSDC8HS" / Twitter](#)
9. Adin D, Stern J. Editorial: Canine cardiomyopathies. *J Vet Cardiol*, 2022 (40):1.
10. Freeman L, Rush J, Adin D, Weeks K, Antoon,K, Rosen S, Cunningham S, dos Santos L, Girens R, Goldberg R, Karlin E, Lessard D, Lopez K, Rouben C, Vereb M, Yang V. Prospective study of dilated cardiomyopathy in dogs eating non-traditional or traditional diets and in dogs with subclinical cardiac abnormalities, *J Vet Intern Med*, 2022:36(2):451–463.
11. Rivera P, Adin D. Multi-modal management of recurrent congestive heart failure in a dog. *Today's Veterinary Practice*. March/April 2022:61-67.
12. Haimovitz D, Vereb M, Freeman L, Goldberg R, Lessard D, Rush J, Adin D. Effect of diet change in healthy dogs with subclinical cardiac biomarker or echocardiographic abnormalities. *J Vet Intern Med*, 2022:early view DOI: 10.1111/jvim.16416:1–9.
13. Adin D, Atkins C, Friedenbergs S, Stern J, Meurs K. Prevalence of the Angiotensin-Converting Enzyme Gene Polymorphism in Dogs. *Canine Medicine and Genetics*, 2021:8(6):1-6. doi.org/10.1186/s40575-021-00105-2.
14. Adin D, Atkins C, Wallace G, Klein A. Effect of Spironolactone and Benazepril Administration on Furosemide-Induced Diuresis and Renin-Angiotensin-Aldosterone System Activation in Normal Dogs. *J Vet Intern Med*, 2021;35(3):1245-1254.
15. Adin D, Freeman L, Stepien R, Rush J, Tjostheim S, Kelliham H, Aherne M, Vereb M, Goldberg R. Effect of Diet Type on Circulating Taurine Concentrations, Cardiac Biomarkers, and Echocardiograms in Four Dog Breeds. *J Vet Intern Med*, 2021:35(2):771-779. <https://doi.org/10.1111/jvim.16075>.
16. Walker AL, DeFrancesco T, Bonagura JD, Atkins CE, Keene BW, Meurs K, Tou SP, Kurtz, K, Aona B, Barron L, McManamey A, Robertson J, Adin, DB. Association of diet on clinical outcomes in dogs with dilated cardiomyopathy and congestive heart failure. *J Vet Cardiol*, 2021:early view: <https://doi.org/10.1016/j.jvc.2021.02.001>.
17. O'Donnell K, Adin D, Atkins CE, DeFrancesco T, Keene BW, Tou S, Meurs KM. Absence of known feline MYH7 and MYBPC3 variants in a diverse cohort of cats with hypertrophic cardiomyopathy. *Animal Genetics*, 2021:52:542-544. <http://doi.org/10.1111/age.13074>.
18. Adin DB, Atkins CE, Londono L, Del Nero B. Correction of Serum Chloride Concentration in Dogs with Congestive Heart Failure. *J Vet Intern Med*, 2021:35(1):51-57.
19. Vereb MM, Adin DB, Tschosik ML. ECG of the month: Ashman's phenomenon during atrial fibrillation. *J Am Vet Med Assoc*, 2021:259(4):368-370.
20. Meurs KM, Atkins CE, Adin DB, Defrancesco T, Keene BW, Tou SP. Myxomatous mitral valve disease in the Miniature Schnauzer and Yorkshire Terrier, a retrospective study. *J Am Vet Med Assoc*, 2021:259(11):1428-1432.

21. Meurs KM, Keene BW, Williams B, Friedenberg SG, Tou S, Adin D, DeFrancesco T. A deleterious mutation in the ALMS1 gene in a naturally occurring model of hypertrophic cardiomyopathy in the Sphynx cat. *Orphanet Journal of Rare Disease*, 2021;16:1-7.
22. Meurs KM, Stern JA, Adin DB, Keene BW, DeFrancesco T, Tou SP. Assessment of PDK4 and TTN gene variants in 48 Doberman Pinschers with Dilated Cardiomyopathy. *J Am Vet Med Assoc*. 2020;257:1041-1044.
23. DeProspero D, Adin D. Visual Representations of Cardiac Arrhythmias in Dogs Using Lorenz Plots. *Am J Vet Res*. 2020;81:720-731.
24. M. Foster, R. Brugarolas, K. Walker, S. Mealin, Z. Cleghern, S. Yuschak, J. Condit, D. Adin, J. Russenberger, M. Gruen, BL Sherman, DL Roberts, and A. Bozkurt, Preliminary Evaluation of a Wearable Sensor System for Heart Rate Assessment in Guide Dog Puppies. *IEEE Sensors Journal* 2020;20(16);9449-59. 10.1109/JSEN.2020.2986159.
25. Adin D, Atkins C, Domenig O, DeFrancesco T, Keene B, Tou S, Stern J, Meurs K. Renin-angiotensin-aldosterone system profiling in dogs with an angiotensin-converting enzyme (ACE) gene polymorphism before and after ACE-inhibitor administration. *J Vet Intern Med*, 2020;34:600-606 (DOI: 10.1111/jvim.15746)
26. Adin D, Kurtz K, Atkins C, Papich M, Vaden S. Role of Electrolyte Concentrations and Renin-Angiotensin-Aldosterone Activation in the Staging of Canine Heart Disease. *J Vet Intern Med* 2019;34:53-64.
27. Adin D, Royal K, Adin C. Cross-sectional Assessment of Emotional Intelligence of 4th year Veterinary Students and Veterinary House Officers in a Teaching Hospital. *J Vet Med Educ*. 2019;13:1-9.
28. Schreeg M, Evans B, Allen J, Lewis M, Luckring E, Evola M, Richard D, Piner K, Thompson E, Adin D. Cardiac leiomyosarcoma in a cat presenting for bilateral renal neoplasia. *J Comparative Path*. 2019;168:19-24.
29. Meurs KM, Friedenberg SG, Saripalli C; Kolb J, Tonino P, Woodruff K, Olby N, Keene BW, Adin D, Yost O, DeFrancesco T, Lahmers S, Tou S, Shelton D, Granzier H. A Missense Mutation in the Titin Gene in Doberman Pinscher Dogs with Familial Dilated Cardiomyopathy. *Hum Gen*. 2019;138:515-24.
30. Brugarolas R, Yuschak S, Adin D, Roberts DL, Sherman BL, Bozkurt A. Simultaneous monitoring of canine heart rate and respiratory patterns during scent detection tasks. *IEEE Sensors J*. 2019;19:1454-1462.
31. Meurs K, Adin D, O'Donnell, Keene B, Atkins C, DeFrancesco T, Tou S. Myxomatous mitral valve disease in the miniature poodle, a retrospective study. *Vet J*. 2019;244:94-97.
32. Adin D, DeFrancesco T, Keene B, Tou S, Meurs K, Atkins C, Aona B, Kurtz K, Barron L, Saker K. Echocardiographic phenotype of DCM differs based on diet type. *J Vet Cardiol*. 2019;21:1-9.
33. Freeman LM, Stern JA, Fries R, Adin DB, Rush JE. Diet-associated dilated cardiomyopathy in dogs: what do we know? Letter to the Editor *JAVMA*. 2018;253:1390-1394:
34. McManamey A, Adin D, Manship A, Elfenbein J. ECG of the month. *JAVMA*. 2018;253:714-7.
35. Adin D, Atkins C, Papich M. Pharmacodynamic Assessment of Diuretic Efficacy and Braking in a Furosemide Continuous Infusion Model. *J Vet Card*. 2018;2:92-101.
36. Meurs KM, Friedenberg SG, Williams B, Keene BW, Atkins CE, Adin D, Aona B, DeFrancesco T, Tou S, Mackay T. Evaluation of genes associated with human myxomatous mitral valve disease in dogs with familial myxomatous mitral valve degeneration. *Vet J*. 2018;232:16-19.

37. Meurs KM, Olsen LH, Reimann MJ, Keene BW, Atkins CE, Adin D, Aona B, Condit J, DeFrancesco T, Reina-Doreste Y, Stern JA, Tou S, Ward J, Woodruff K. Angiotensin-converting enzyme activity in Cavalier King Charles Spaniels with an ACE gene polymorphism and myxomatous mitral valve disease. *Pharmacogenet Genomics*. 2018;28(2):37-40
38. Meurs KM, Stern JA, Atkins CE, Adin D, Aona B, Condit J, DeFrancesco T, Reina-Doreste Y, Keene BW, Tou S, Ward J, Woodruff K. Angiotensin-converting enzyme activity and inhibition in dogs with cardiac disease and an angiotensin-converting enzyme polymorphism. *J Renin Angiotensin Aldosterone Syst*. 2017;18(4).
39. Adin D, Johnson P, Kim C, Nguyenba T, Rosen S. Long-term Stability of a Compounded Suspension of Torsemide (5 mg/mL) for Oral Administration. *J Vet Intern Med*. 2017;31(6):1822-1826.
40. Aona B, Adin D, Advances in Feline Cardiac Diagnostics. *Today's Veterinary Practice*. 2017;7(6).
41. Adin D, Atkins C, Papich M, DeFrancesco T, Griffiths E, Penteado M, Kurtz K, Klein A. Furosemide continuous rate infusion diluted with 5% dextrose in water or hypertonic saline in normal adult dogs: a pilot study. *J Vet Cardiol*. 2017;19(1):44-56.
42. Jackson B, Adin D, Lehmkuhl L. Effect of atenolol on heart rate, arrhythmias, blood pressure and dynamic left ventricular outflow tract obstruction in cats with asymptomatic Hypertrophic Cardiomyopathy. *J Vet Cardiol* 2015;17 Suppl 1:S296-305.
43. Fox PR, Oyama MA, Hezzell MJ, Rush JE, Nguyenba TP, DeFrancesco TC, Lehmkuhl LB, Kellihan HB, Bulmer B, Gordon SG, Cunningham SM, MacGregor J, Stepien RL, Lefbom B, Adin D, Lamb K. Relationship of plasma N-terminal pro-brain natriuretic peptide concentrations to heart failure classification and cause of respiratory distress in dogs using a 2nd generation ELISA assay. *J Vet Intern Med* 2015;29(1):171-9.
44. Jackson B, Lehmkuhl L, Adin D. Heart rate and arrhythmia frequency of normal cats compared to cats with Hypertrophic Cardiomyopathy. *J Vet Cardiol* 2014;16(4):215-225.
45. Reynolds CA, Oyama MA, Rush JE, Rozanski EA, Singletary GE, Brown DC, Cunningham SM, Fox PR, Bond B, Adin DB, Williams RM, MacDonald KA, Malakoff R, Sleeper MM, Schober KE, Petrie JP, Hogan DF. Perceptions of quality of life and priorities of owners of cats with heart disease. *J Vet Intern Med* 2010;24(6):142-6.
46. Seibert RL, Maisenbacher HW 3<sup>rd</sup>, Prosek R, Adin DB, Arsenault WG, Estrada AH. Successful closure of left-to-right patent ductus arteriosus in three dogs with concurrent pulmonary hypertension. *J Vet Cardiol* 2010;12(1):67-73.
47. Shih AC, Maisenbacher HW, Barreirinha A, Adin DB, Schmidt MK, Prosek R, Estrada AH. Effect of routine cardiovascular catheterization on cardiac troponin I concentration in dogs *J Vet Card* 2009;11(Suppl 1): S87-92.
48. Adin DB, Diley-Poston L. Papillary muscle measurements in cats with normal echocardiograms and cats with left ventricular hypertrophy. *J Vet Intern Med* 2007;21(4);737-41.
49. Adin DB, Maisenbacher H, Ojeda N, Fiorello C, Estrada AH, Prosek R. Cardiac evaluation of Grevy's zebras (*Equus grevyi*). *Am J Vet Res*, 2007;68(2);148-152.
50. Musulin S, Adin DB. ECG of the month. *JAVMA*, 2006;229(4);505-507.
51. Maisenbacher H, Adin DB. ECG of the month. *JAVMA* 2006;229(1);40-42.
52. Adin DB, Oyama MA, Sleeper MM, Milner RJ. Comparison of canine cardiac troponin I concentrations as determined by 3 different analyzers. *J Vet Intern Med*, 2006;20(5);1136-42.

53. Tou SP, Adin DB. Echocardiographic estimation of systemic systolic blood pressure in dogs with mild mitral regurgitation. *J Vet Intern Med* 2006;20(5):1127-31.
54. Giguere S, Bucki E, Adin DB, Valverde A, Estrada AH. Assessment of noninvasive cardiac output measurement by partial carbon dioxide rebreathing or two-dimensional echocardiography by comparison to the lithium dilution method in anesthetized neonatal foals. *J Vet Intern Med*, 2005;19(5):737-43.
55. Adin DB, Milner RJ, Berger KD, Engel C, Salute M. Cardiac troponin I concentrations in normal dogs and cats using a bedside analyzer. *J Vet Card* 2005;7(1):27-32.
56. Tou, S, Adin DB, Castleman W. Mitral Valve Endocarditis Following Dental Prophylaxis in a Dog with Myxomatous Degeneration. *J Vet Intern Med* 2005;19(2):268-70.
57. Adin DB, McCloy K. Physiologic Valve Regurgitation in Normal Cats. *J Vet Card* 2005;7(1):9-14.
58. Adin, DB. The Enlarged Heart. *NAVC Clinician's Brief* May 2004:42-43.
59. Adin DB, France M. ECG of the Month. *JAVMA* 2004;224(8):1258-60.
60. Adin DB, Taylor AW, Hill RC, Scott KC, Martin FG. Intermittent bolus injection versus continuous infusion of furosemide in normal adult greyhound dogs. *J Vet Intern Med* 2003;17(5):724-6.
61. Adin DB, Hill RC, Scott KC. Short term compatibility of furosemide with crystalloid solutions. *J Vet Intern Med* 2003;17(5):632-6.
62. Phillips W, Giguere S, Franklin R, Hernandez J, Adin D, Peloso J. Cardiac troponin I in pastured and race-training thoroughbred horses. *J Vet Intern Med* 2003;17(4):597-9.
63. Adin CA, Gregory CR, Adin DB, Cowgill LD, Kyles AI, Perez R. Evaluation of three peripheral arteriovenous fistulas for chronic vascular access. *Vet Surg* 2002;31(5):405-411.
64. Adin DB, Kittleson MD, Hornof WJ, Kass PH. Efficacy of a single oral dose of isosorbide 5-mononitrate in normal dogs and in dogs with congestive heart failure. *J Vet Intern Med* 2001;15:105-111.
65. Adin, DB, Thomas, WP. Balloon Dilation of Cor Triatriatum Dexter in a Dog. *J Vet Intern Med* 1999;13:617-619.
66. Moise NS, Moon PH, Flahive WJ, Brittain D, Pride HI, Lewis BA, Zipes DP, Lee RJ, Gilmour RF Jr. Phenylephrine induced ventricular arrhythmias in dogs with inherited sudden death. *J Cardiovasc Electrophysiol* 1996;7(3):217-230.
67. Moise NS, Dugger DA, Brittain D, Flahive WJ, Riccio ML, Ernst S, Scarlett J, Mohammed HO, Morrison AR, Gilmour RF Jr. Relationship of ventricular tachycardia to sleep/wakefulness in a model of sudden cardiac death. *Ped Res* 1996;40:344-350.
68. Brittain D, Concannon PW, Flanders JA, Flahive WJ, Lewis BA, Meyers-Wallen V, Moise NS. Use of surgical intrauterine insemination to manage infertility in a colony of research German shepherd dogs. *Lab An Science* 1995;45(4):404-407.

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## BOOK CHAPTERS

Ames MK, Wood J, Adin D. Beyond Ace-inhibitors – modulation of the renin angiotensin aldosterone system to delay or manage congestive heart failure. In: *Veterinary Clinics of North America*, Submitted 1/25/23.

- Adin D and Atkins C. Cardiovascular Renal Disorders. In: Veterinary Critical Care Nephrology, Londono L, Ed. 2021.
- Adin DB. Heartworm Disease. In: Small Animal Infectious Diseases, Evanson and Weisse Editors, 2019.
- Adin DB. Canine and Feline Electrocardiography. In: McCurnin's Textbook for Veterinary Technicians, Canine and Feline Electrocardiography. Edition 9;2017:860-872.
- Adin DB, Adin CA. Vascular Ring Anomalies. In: Clinical Veterinary Advisor: Dogs and Cats, Cote E, ed. Elsevier, St. Louis, Missouri. 2007 (1<sup>st</sup> ed), 2011 (2<sup>nd</sup> ed), 3<sup>rd</sup> ed 2015:1144-46.
- Adin DB. Tricuspid Dysplasia. In: Current Veterinary Therapy XIV and XV. Bonagura J, ed. 2009, 2013.
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### ABSTRACTS

- Lee R, Huguet EE, Vilaplana Gross FR, Adin DB, Hernandez JA. Radiographic features of cardiogenic pulmonary edema in dogs with dilated cardiomyopathy: 52 cases. ACVR Annual Scientific Conference. Oct 2022, Reno, NV. Selected for oral presentation and selected for a Resident Award.
- Adin DB, Spalla M, Walden H, Gruntmeir J, Hernandez J, Long M. Angiotensin-converting enzyme 2 in dogs with *Dirofilaria immitis*. Presented at the 2022 American Heartworm Society 2022 Triennial Symposium, Sept 8-11, 2022, New Orleans, Louisiana.
- Vereb M, Atkins CE, Adin DB, Blondel T, Coffman M, Lee S, Guillot E, Ward J. Mitral Regurgitation Severity Index Predicts Outcome in Diverse Populations of Canine Myxomatous Mitral Valve Disease. Presented at the 2022 ACVIM Forum, Austin, Texas.
- Atkins CE, Adin DB, Blondel T, Guillot E, Vereb M, Ward J. Mitral Regurgitation Severity Index: A Simple Calculation for Classification and Prognostication? Presented at the 2022 ACVIM Forum, Austin, Texas.
- Kim MS, Adin D, Sleeper MS, Aherne M, Estrada A. Clinical application of novel heartworm removal forceps. Presented at the 2022 ACVIM Forum, Austin, Texas.
- Del Nero B, Aherne M, Meurs K, Clark J, Adin D. Vasovagal tonus index and conventional time-domain heart rate variability analysis in boxers with and without arrhythmogenic right ventricular cardiomyopathy. *J Vet Intern Med* 2021:35:2958A.
- Holbrook T, Lester G, Sleeper M, Adin D. Renin-Angiotensin-Aldosterone System Profiling in Horses Before and After Exercise. *J Vet Intern Med* 2021:35:2975A.
- Adin D, Atkins C, Del Nero, B. Insights from Corrected Chloride Calculation in Dogs with Congestive Heart Failure. *J Vet Intern Med*. 2020:34:2819A.
- Adin D, Atkins C, Friedenbergs S, Stern J, Meurs K. Prevalence of the Angiotensin-Converting Enzyme Gene Polymorphism in Dogs. *J Vet Intern Med*. 2020:34:2850A.
- Freeman L, Rush J, Adin D, Weeks K, Antoon K, Brethel S, Cunningham S, dos Santos L, Girens R, Karlin E, Lopez K, Rouben C, Vereb M, Yang V. Short-term Outcome of a Prospective Study of Diet-associated Dilated Cardiomyopathy (DCM) in Dogs. *J Vet Intern Med*. 2020:34:2819A.
- O'Donnell K, Adin D, Atkins C, DeFrancesco T, Keene B, Tou S, Meurs K. Prevalence of Maine Coon and Ragdoll Associated MYBPC3 Mutations in the Feline Population with Hypertrophic Cardiomyopathy. *J Vet Intern Med*. 2020:34:2859A.

- Hertzler J, Aherne M, Adin D. Clinical Usage and tolerability of Intravenous Pimobendan in Dogs Suffering from Acute Congestive Heart Failure. *J Vet Intern Med*. 2020;34:2857A.
- Atkins C, Adin D, Meurs K, Domenig O, DeFrancesco T, Glahn C. Renin-Angiotensin-Aldosterone System Activation in Cats Receiving Amlodipine. *J Vet Intern Med*. 2020;34:2846A.
- DeProspero D, Adin D. Visual Representations of Cardiac Arrhythmias in Dogs Using Lorenz Plots. *J Vet Intern Med*. 2020;34:399A.
- Adin D, Atkins C, Ru H, Wallace G. Delayed Electrolyte Depletion and Azotemia in a Furosemide Continuous Rate Infusion Model. *J Vet Intern Med*. 2020;34:345A.
- Meurs K, Keene B, Weidman J, Rosenthal S, DeFrancesco TC, Adin D, Tou S. Familial Ventricular Arrhythmias in the Rhodesian Ridgeback. *J Vet Intern Med* 2018;32:2176A.
- Adin D, DeFrancesco T, Keene B, Tou S, Meurs K, Atkins C, Aona B, Kurtz K, Barron L, Saker K. Echocardiographic phenotype of DCM differs based on diet. *J Vet Intern Med*:2018:32:5A.
- Meurs K, Adin D, Aona B, DeFrancesco T, Keene B, Reina Y, Stern J, Tou S, Ward, J, Woodruff K, Atkins C. Angiotensin Converting Enzyme Activity and Response to Enalapril in Dogs with an ACE Gene Polymorphism. *J Vet Intern Med*:2016:30:1428A.
- Adin D, DeFrancesco T, Atkins C, Kurtz K, Penteadó M. Comparison of Furosemide Infusion Diluted with 2.4% Hypertronic Saline versus Dextrose 5% in Water (D5W). *J Vet Intern Med*:2016:30:1424A.
- Giatis I, Nguyenba T, Lehmkuhl, Adin D, Wright K, Oyama M, Webber D. Use of torsemide in 17 cats with advanced congestive heart failure. *J Vet Intern Med*:2014:28:1008A.
- Fox PR, Oyama MA, Rush, JE, Nguyenba TP, DeFrancesco TC, Lehmkuhl LB, Kellihan HB, Bulmer B, Gordon SG, Cunningham S, MacGregor J, Stepien RL, Lefbom B, Adin D, Brown WA, Lamb K. Relationship of canine NT-ProBNP (BNP) to heart failure classification and respiratory distress. *J Vet Intern Med*:2014:28:1007A.
- Smouter B, Adin D, Lehmkuhl L, Nguyenba T, Meurs K, Maran B. Effect of atenolol on heart rate, arrhythmias, blood pressure and dynamic left ventricular outflow tract obstruction in cats with asymptomatic Hypertrophic Cardiomyopathy. *J Vet Intern Med*, 2012:26:715A
- Smouter B, Lehmkuhl L, Adin D, Nguyenba T. Heart rate and arrhythmia frequency of normal cats compared to cats with Hypertrophic Cardiomyopathy. *J Vet Intern Med*, 2012:26:714-715A
- Reynolds CA, Oyama MA, Brown D, Rush J, Rozanski E, Fox P, Adin D, Williams R, MacDonald K, Malakoff R, Schober KE, O'Sullivan ML, Singletary GE. Owner perceptions and priorities regarding quality and quantity of life in cats with heart disease. *J Vet Intern Med*, 2009:23:703A.
- Prosek R, Estrada AE, Adin DB. Comparison of sotalol and mexiletine versus stand alone sotalol in treatment of boxer dogs with ventricular arrhythmias. *J Vet Intern Med*, 2006:20(3);710-802A.
- Adin DB, Oyama MA, Sleeper MM, Milner RJ. Comparison of canine cardiac troponin I concentrations as determined by 3 different analyzers. *J Vet Intern Med*, 2006:20(3);710-802A.
- Tou SP, Adin DB. Echocardiographic estimation of systemic systolic blood pressure in dogs with mild mitral regurgitation. *J Vet Intern Med* 2005; 19(3):454A.
- Adin DB, McCloy K. Physiologic valve regurgitation in normal cats. *J Vet Intern Med* 2004; 18(3):A.
- Adin DB, Berger KD, Engel C, Milner R, Salute M. Cardiac enzyme concentrations in normal dogs and cats using a bedside analyzer. *J Vet Intern Med* 2004; 18(3):A.



Adin DB, Taylor AW, Hill RC, Scott KC, Martin FG. Intermittent bolus injection versus continuous infusion of furosemide in normal adult greyhound dogs. *J Vet Intern Med* 2003; 17(3):439A.

Adin CA, Gregory CR, Adin DB, Cowgill LD, Kyles AE, Perez R. Evaluation of three peripheral arteriovenous fistulas for chronic vascular access. *Vet Surg* 2000;29(5):456A

Adin CA, Gregory CR, Cowgill LC, Kyles AE, Adin DB. Diagnostic predictors of complications and survival following renal transplantation in cats. *Vet Surg* 2000;29(5):456A.

Adin DB, Thomas WP, Adin CA, Kass PH. Echocardiographic evaluation of cats with chronic renal failure. *J Vet Intern Med* 2000;14 (3):337A.

Adin DB, Kittleson MD, Hornof WJ, Kass PH, Jonsson UE. Evaluation of isosorbide mononitrate in dogs with heart failure. *J Vet Intern Med* 2000;14 (May-June)A.

Adin DB, Kittleson MD, Hornof WJ, Long C, Jonsson UE. Evaluation of isosorbide mononitrate in normal dogs. *J Vet Intern Med* 1999;13 (May-June)A.

Miller KE, Decker GE, Brittain D, Carpenter JF, Brooks RR. The class III antiarrhythmic NE-10064 suppresses ouabain -induced arrhythmias in guinea pigs. *Canad J Physiol and Pharm* 1994;72 (suppl 1): 82A.

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### SCIENTIFIC PRESENTATIONS

Adin DB, Hernandez J. Single breed sex influence on renin-angiotensin-aldosterone system metabolites and enzymes. Translational RAAS Interest Group Symposium, Chicago, Illinois September 23, 2022.

Adin DB, Spalla M, Walden H, Gruntmeir J, Hernandez J, Long M. Angiotensin-converting enzyme 2 in dogs with *Dirofilaria immitis*. Presented at the 2022 American Heartworm Society 2022 Triennial Symposium, Sept 8-11, 2022, New Orleans, Louisiana.

Adin DB. The role of hypochloremia in heart failure progression. 2022 ACVIM Forum, Austin Texas June 25, 2022.

Vereb M, Atkins CE, Adin DB, Blondel T, Coffman M, Lee S, Guillot E, Ward J. Mitral Regurgitation Severity Index Predicts Outcome in Diverse Populations of Canine Myxomatous Mitral Valve Disease. Presented at the 2022 ACVIM Forum, Austin, Texas.

Atkins CE, Adin DB, Blondel T, Guillot E, Vereb M, Ward J. Mitral Regurgitation Severity Index: A Simple Calculation for Classification and Prognostication? Presented at the 2022 ACVIM Forum, Austin, Texas.

Kim MS, Adin D, Sleeper MS, Aherne M, Estrada A. Clinical application of novel heartworm removal forceps. Presented at the 2022 ACVIM Forum, Austin, Texas.

Adin D. Modifiers of Myxomatous Mitral Valve Disease in Dogs. European College of Veterinary Internal Medicine Congress, virtual, Sept 3, 2021.

Haimovitz D, Adin D, Freeman L, Goldberg R, Vereb M, Rush J. Effect of Diet Change in Healthy Dogs with Subclinical Cardiac Biomarker or Echocardiographic Abnormalities. AKC CHF Parent Conference (virtual poster) Aug 14, 2021.

Del Nero B, Aherne M, Meurs K, Clark J, Adin D. Vasovagal tonus index and conventional time-domain heart rate variability analysis in boxers with and without arrhythmogenic right ventricular cardiomyopathy. Poster presentation (Del Nero), Virtual ACVIM Forum, June 2021.

Holbrook T, Lester G, Sleeper M, Adin D. Renin-Angiotensin-Aldosterone System Profiling in Horses Before and After Exercise. Poster presentation (Holbrook), Virtual ACVIM Forum, June 2021.

- Adin D, Atkins C, Del Nero, B. Insights from Corrected Chloride Calculation in Dogs with Congestive Heart Failure. Oral Research Report Presentation (Adin), Virtual ACVIM Forum, June 2020.
- Adin D, Atkins C, FriedenberG S, Stern J, Meurs K. Prevalence of the Angiotensin-Converting Enzyme Gene Polymorphism in Dogs. Poster presentation (Adin), Virtual ACVIM Forum Presentation, June 2020.
- Freeman L, Rush J, Adin D, Weeks K, Antoon K, Brethel S, Cunningham S, dos Santos L, Girens R, Karlin E, Lopez K, Rouben C, Vereb M, Yang V. Short-term Outcome of a Prospective Study of Diet-associated Dilated Cardiomyopathy (DCM) in Dogs. Oral Research Report Presentation (Freeman), Virtual ACVIM Forum, June 2020.
- O'Donnell K, Adin D, Atkins C, DeFrancesco T, Keene B, Tou S, Meurs K. Prevalence of Maine Coon and Ragdoll Associated MYBPC3 Mutations in the Feline Population with Hypertrophic Cardiomyopathy. Poster Presentation (Meurs), Virtual ACVIM Forum, June 2020.
- Hertzler J, Aherne M, Adin D. Clinical Usage and tolerability of Intravenous Pimobendan in Dogs Suffering from Acute Congestive Heart Failure. Poster Presentation (Aherne), Virtual ACVIM Forum, June 2020.
- Atkins C, Adin D, Meurs K, Domenig O, DeFrancesco T, Glahn C. Renin-Angiotensin-Aldosterone System Activation in Cats Receiving Amlodipine. Oral Presentation (Atkins), Virtual ACVIM Forum, June 2020.
- DeProspero D, Adin D. Visual Representations of Cardiac Arrhythmias in Dogs Using Lorenz Plots. Poster presentation (Adin), ECVIM Forum, Milan, Italy, September 2019.
- Adin D, Atkins C, Ru H, Wallace G. Delayed Electrolyte Depletion and Azotemia in a Furosemide Continuous Rate Infusion Model. Oral presentation (Adin), ECVIM Forum, Milan, Italy, September 2019.
- Adin D, DeFrancesco T, Keene B, Tou S, Meurs K, Atkins C, Aona B, Kurtz K, Barron L, Saker K. Echocardiographic phenotype of DCM differs based on diet. Oral presentation (Adin), ACVIM forum, Seattle, WA, June 2018.
- Adin D, Royal K, Adin C. Cross-sectional Assessment of Emotional Intelligence of 4th year Veterinary Students and Veterinary House Officers in a Teaching Hospital. Oral presentation (Adin), Primary Care Veterinary Educators and the Veterinary Educator Collaborative, Ithaca, NY, June 2018.
- Adin D, DeFrancesco T, Atkins C, Kurtz K, Penteado M. Comparison of Furosemide Infusion Diluted with 2.4% Hypertronic Saline versus Dextrose 5% in Water (D5W). Oral presentation (Adin), ACVIM forum, Denver, CO, June 2016.
- Giatis I, Nguyenba T, Lehmkuhl, Adin D, Wright K, Oyama M, Webber D. Use of torsemide in 17 cats with advanced congestive heart failure. Oral presentation (Giatis), ACVIM forum, Nashville, Tennessee, June 2014.
- Fox PR, Oyama MA, Rush, JE, Nguyenba TP, DeFrancesco TC, Lehmkuhl LB, Kelliham HB, Bulmer B, Gordon SG, Cunningham S, MacGregor J, Stepien RL, Lefbom B, Adin D, Brown WA, Lamb K. Relationship of canine NT-ProBNP (BNP) to heart failure classification and respiratory distress. Oral presentation (Fox) ACVIM Forum, Nashville, Tennessee June 2014.
- Smouther B, Adin D, Lehmkuhl L, Nguyenba T, Meurs K, Maran B. Effect of atenolol on heart rate, arrhythmias, blood pressure and dynamic left ventricular outflow tract obstruction in cats with asymptomatic Hypertrophic Cardiomyopathy. Oral presentation (Smouther), ACVIM forum, New Orleans, Louisiana, May 2012.
- Smouther B, Lehmkuhl L, Adin D, Nguyenba T. Heart rate and arrhythmia frequency of normal cats compared to cats with Hypertrophic Cardiomyopathy. Oral presentation (Smouther) ACVIM forum, New Orleans, Louisiana, May 2012.

- Reynolds CA, Oyama MA, Brown D, Rush J, Rozanski E, Fox P, Adin D, Williams R, MacDonald K, Malakoff R, Schober KE, O'Sullivan ML Singletary GE. Owner perceptions and priorities regarding quality and quantity of life in cats with heart disease. Oral presentation (Reynolds), ACVIM forum, Montreal, Quebec, May 2009.
- Prosek R, Estrada AE, Adin DB. Comparison of sotalol and mexiletine versus stand alone sotalol in treatment of boxer dogs with ventricular arrhythmias. Oral presentation (Prosek), ACVIM forum, Louisville, KY, May 2006.
- Adin DB, Oyama MA, Sleeper MM, Milner RJ. Comparison of canine cardiac troponin I concentrations as determined by 3 different analyzers. Poster ACVIM forum, Louisville, KY May 2006.
- Maisenbacher H, Paollilo J, Estrada AH, Adin DB, Prosek R. A doggone day in the cath lab: collaboration between pediatric and veterinary cardiologists in canines with congenital heart disease. Poster 4<sup>th</sup> World Congress in Pediatric Cardiology and Cardiothoracic Surgery, Buenos Aires, September 2005.
- Tou SP, Adin DB. Echocardiographic estimation of systemic systolic blood pressure in dogs with mild mitral regurgitation. Poster ACVIM forum, Baltimore, MD, June 2005.
- Adin DB, McCloy K. Physiologic valve regurgitation in normal cats. Poster ACVIM forum, Minneapolis, MN, June 2004.
- Adin DB, Berger KD, Milner R, Salute M. Cardiac enzyme concentrations in normal dogs and cats using a bedside analyzer. Poster ACVIM forum, Minneapolis, MN, June 2004.
- Adin DB, Taylor AW, Hill RC, Scott KC, Martin FG. Intermittent bolus injection versus continuous infusion of furosemide in normal adult greyhound dogs. Poster ACVIM forum, Charlotte, NC, June 2003.
- Adin DB, Thomas WP, Adin CA, Kass PH. Echocardiographic evaluation of cats with chronic renal failure. Oral presentation ACVIM forum, Seattle, WA, May, 2000.
- Adin DB, Kittleson MD, Hornof WJ, Kass PH, Jonsson UE. Evaluation of isosorbide mononitrate in dogs with heart failure. Poster ACVIM forum, Seattle, WA, May 2000.
- Adin DB, Kittleson MD, Hornof WJ, Long C, Jonsson UE. Evaluation of isosorbide mononitrate in normal dogs. Oral presentation ACVIM forum, Chicago, June 1999.

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## GRANTS

### ***Funded:***

Circulating surfactant protein B in dogs presenting for acute, decompensated congestive heart failure. ACVIM Cardiology Resident Research Competition Spring 2022. Role: Mentor to Dr. Catherine Georges (cardiology resident). \$13,999. Funded 2022-2024.

Does serum osmolarity correlate with the degree of mathematical correction of serum chloride concentration in dogs with heart disease? Florida Veterinary Scholars Program. Role: Co-mentor with Dr. Autumn Harris. Summer 2022 \$5000 student stipend supported by the Florida Veterinary Medical Association.

Candidate transgenes to treat cardiac cachexia. Florida Veterinary Scholars Program. Role: Co-mentor with Dr. Meg Sleeper. Summer 2022 \$5000 student stipend.

Tolerability and clinical efficacy of acetazolamide for treatment of hypochloremia in canine congestive heart failure. American Kennel Club Canine Health Foundation. 2022-2023. Role: PI \$99,913. Funded.

Single Breed Sex Influence on Renin-Angiotensin-Aldosterone System Metabolites and Enzymes: A Pilot Study. Translational RAAS Interest Group. 2021-2022. Role: PI. \$8870. Funded.

Darcy Brittain Adin, DVM, DACVIM (Cardiology)

Investigation into Subclinical Diet-Associated Dilated Cardiomyopathy in Four Dog Breeds – Longitudinal Evaluation of Dogs after Diet Change. Summer Veterinary Student Educational Grant. American Kennel Club Canine Health Foundation. 5/21-8/21, Role PI / mentor, Student, Dana Haimovitz. \$5500. Funded.

The Effect of Exogenous Taurine Supplementation on the Renin-Angiotensin-Aldosterone System of Dogs with Stable Congestive Heart Failure. CVM Fall Consolidated Faculty Research Development Award Grant Competition. 2019-2020. Role PI. \$10,000. Funded.

Investigation into Subclinical Diet-Associated Dilated Cardiomyopathy in Four Dog Breeds. American Kennel Club Canine Health Foundation. 2019-2021. Role PI. \$211,521.24, Funded.

Predicting Disease Stage and Diuretic Responsiveness in Dogs with Acquired Heart Disease. American Kennel Club Canine Health Foundation. 2017-2019. Role: PI. \$41,731. Funded

Predicting Disease Stage and Diuretic Responsiveness in Dogs with Acquired Heart Disease. American College of Veterinary Internal Medicine, Cardiology Resident Research. 2018-2019. Role: Co-PI with resident Dr. Kari Kurtz. \$14,220. Funded, returned because of AKC funding.

Effect of Spironolactone and Benazepril Administration on Furosemide-Induced Diuresis and Renin-Angiotensin-Aldosterone System Activation in Normal Dogs. CEVA Animal Health, Sponsored Research 2017-2019. Role: PI. \$83,296.

Cross-sectional and Longitudinal Assessment of Emotional Intelligence of Veterinarian Interns and Residents in a Teaching Hospital. Teaching Innovation Grant, North Carolina State University, 2017-2018. Role: PI \$2228.

Furosemide Continuous Rate Infusion vs. Furosemide Continuous Rate Infusion with Salt Supplementation in Normal Adult Dogs: A Pilot Study, NCSU CVM Intramural Grant 2016. Role: PI. \$20,751

24 Hr Holter Analysis of Cats with HCM pre and post atenolol therapy. 2010 ACVIM Cardiology Resident Research Grant. Advisor to Dr. Bethany Smouter Cardiology resident. \$7000.

Comparison of canine cardiac troponin I concentrations as determined by 3 different analyzers. 2005 Spring Consolidated Faculty Research Development Grant Award, University of Florida. \$3495.

Intermittent bolus injection vs. continuous infusion of furosemide in normal adult dogs: A pilot study. 2001 Fall Consolidated Faculty Research Development Grant Award, University of Florida. \$5694

Evaluation of Isosorbide-5 Mononitrate in normal dogs. 1998 Resident Research Grant Award, University of California, Davis. \$2000.

**Not funded:**

Negative pressure diuresis utilizing the JuxtaFlow system to treat congestive heart failure in Dobermans with dilated cardiomyopathy. Doberman Pinscher Health Foundation Grants Program Application 2022 \$13,046, not funded, Role: Co-I.

Influence of a functional renin-angiotensin-aldosterone system gene polymorphism on RAAS activity and response to RAAS suppression. Morris Animal Foundation. Role: Co-I. \$71,218, 2021, not funded, Role: Co-I

Continuous electrocardiographic monitoring to assess cardiac rhythm and heart rate variability in healthy and hospitalized goats. CVM Spring Consolidated Faculty Research Development Award Grant Competition. Role: Co-I. \$5893, 2021, not funded, Role: Co-I.

Serum renin-angiotensin-aldosterone system profiling and angiotensin-converting enzyme-2 activity in healthy and SARS-CoV-2 infected dogs and cats: A pilot study. 2021 CVM Spring Consolidated Faculty Research Development Award Grant Competition. Role: PI. \$13,618, 2021, Role Co-PI, not funded.

Investigation into the occurrence of acute kidney injury in dogs receiving intravenous furosemide for congestive heart failure. ACVIM Cardiology Resident Research Grant Competition Fall 2019, not funded. Role: Advisor to resident \$15,650.

The diagnostic utility of NT-pro-BNP for identification of cardiomyopathy in cats with urethral obstruction: a pilot study. Winn Feline Foundation, not funded, 2017. Role: Co-I \$20,224.

Comparison of Three Furosemide Methods for Canine Congestive Heart Failure. Waltham Foundation, not funded. 2017-2018. Role: PI. \$19,800.

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### CONTINUING EDUCATION LECTURES

VMX Veterinary Meeting and Expo, How I manage mitral valve disease (CEVA sponsor)	1/14/23
University of Florida, World Equestrian Center, Small Animal Hospital, Ocala, FL Managing mitral valve disease, beginning to end	8/25/22
University of Florida, Gainesville, FL, ER veterinarian cohort training Emergency Management of heart failure Diagnosis and recognition of arrhythmias (ER dog cohort training)	8/7/22
Vet On It (virtual), Nebraska, Iowa VMA Getting the most out of bloodwork for CHF patients Managing the ATE cat Diagnosis and management of arrhythmias during anesthesia Managing mitral valve disease: beginning to end	8/6/22
University of Florida, Referring Veterinarian Appreciation Day Beyond BUN and creatinine: What can the rest of the chemistry tell us about our CHF patients?	6/11/2022
Florida Veterinary Medical Association Regionals, Panama City Beach, FL Approach to cardiology in clinical practice Using cardiac biomarkers in clinical practice Cardiology emergency pearls Advances in the management of heart failure Arrhythmias during anesthesia: diagnosis and management Managing mitral valve disease from beginning to end Puzzling out the nutritional DCM question	11/13-14, 2021
Vet On It (virtual), Nebraska, Iowa VMA Approach to cardiology in clinical practice Cardiology emergency pearls The right diuretic at the right dose Using cardiac biomarkers in clinical practice	6/5/21
Veterinary Cardiovascular Society, United Kingdom (virtual) Puzzling out the nutritional DCM question in the US A closer look at serum chloride in dogs with congestive heart failure	4/23/21
CEVA, European Webinar Series (virtual) The right diuretic at the right dose: the Holy Grail? Diuresis in congestive heart failure: balancing evidence-based medicine the art of medicine	12/8/20 12/1/20
London Vet Show, London, United Kingdom	11/14/19

Update on Medical Management of Heart Failure in Dogs: Make Sure “Urine” the Know!

University of Florida, Gainesville, FL, Cavalier Health Day Food for thought in Veterinary Cardiology	10/19/19
Alachua County VMA, Gainesville, FL Food for Thought: Advances in Veterinary Cardiology	8/13/19
American Kennel Club Canine Health Foundation Parent Conference, St. Louis, MO Updates on Nutrition and Heart Disease Staging in Dogs	8//9/19
VET Festival, Surrey, United Kingdom Diuretic resistance OK Smarty Pants – How is your Emotional Intelligence? Using Cardiac Biomarkers in Clinical Practice Cardiology Emergency Pearls Approach to Cardiology in Clinical Practice	6/7/19-6/8/19
Front Line Emergency Care, Referral Hospital of Hickory, Hickory, NC Clinical Pearls for your next Cardiac Emergency	10/29/17
ASPCA Cornell Maddie’s Shelter Medicine Conference, Ithaca, NY Cardiology in the Shelter	7/17
North Carolina Veterinary Conference, Raleigh, NC Diuretic Resistance: Clinical Importance and Remedies Managing Mitral Valve Disease: From beginning to end (co-lecture Clarke Atkins)	11/16
North Carolina State University, Raleigh, NC Management of Refractory Heart Failure	4/15
Taiwan College of Veterinary Surgeons Autumn Conference, Taipei, Taiwan Sedation and Anesthesia Considerations for Dogs and Cats with Heart Disease	8/14
Genesee Valley VMA, Rochester, NY Companion Animal Cardiomyopathies Using Cardiac Biomarkers in Clinical Practice Treatment of Refractory Heart Failure	3/14
MedVet Medical and Cancer Center for Pets, Worthington OH Treatment of Refractory Heart Failure What’s new in Canine Dilated Cardiomyopathy? Managing Heart Failure and Arterial Thromboembolism Clinical Evaluation and Treatment of Cardiac Arrhythmias: An Overview Feline Hypertrophic Cardiomyopathy	2/14  8/11 3/10 9/09
Monroe Veterinary Association, Rochester, NY Update on Treatment of Congestive Heart Failure	4/08
Florida Veterinary Medical Association, Orlando, FL Interventional Veterinary Cardiology Recognition and Management of Supraventricular Tachyarrhythmias Recognition and Management of Ventricular Tachyarrhythmias Feline Cardiomyopathies Myxomatous Mitral Valve Degeneration Murmurs, Splits, Clicks and Gallops; The approach to abnormal heart sounds	9/5/03
University of Florida, Gainesville, FL, Seminar for Japanese Veterinary students	

The cardiac physical examination	3/03
Veterinary Echocardiography	12/01, 2/02
University of Florida, Gainesville, FL, Feline Medicine Club	1/03
Interpreting the Feline ECG: Challenging cases	
Cats: Murmurs, Meanings and Cardiomyopathies	3/02
University of Florida, Gainesville, FL, Canine Medicine Club	2/02
Canine heart sounds and physical examination	
North American Veterinary Conference Orlando, FL	1/02
Instruction in Echocardiography Laboratory	
Portland Veterinary Medical Association, Portland, OR	4/01
Murmurs, Splits, Clicks and Gallops: The approach to abnormal heart sounds	
Monterey Bay Veterinary Medical Association, Monterey Bay, CA	4/00
Pericardial Diseases of Dogs and Cats	

### TEACHING

POCUS lecture and lab to UF interns	University of Florida 4/25/22
Emergency Critical Care Group CE	University of Florida
Acute and Chronic CHF management	12/2021 and 2/2022
Anesthesia Resident Board Prep	University of Florida
Pacemakers	1/31/22
Recognition of echo phenotypes	3/28/22
VEM 5991 Individualized Investigation (Instructor 6 hours)	University of Florida 2021, 2022
VEM 5286 Clinical Pharmacology (2 hrs)	University of Florida 2021, 2022
Research Mentoring Workshop "Building a compelling grant story and highlighting Impact" (co-lecture with Dr. Kariyawasam)	University of Florida 2/2021
VEM 6936 Seminars in Medicine: 5 things you might not know about the RAAS	University of Florida 11/2020
ECG MEA Intern lecture series	University of Florida 6/2020
Pulmonary hypertension Intern lecture series	University of Florida 4/2021
VEM 6936 Seminars in Medicine – Pulmonary hypertension	University of Florida 12/2019
Board Review Anesthesia Residents – echocardiography	University of Florida May 2019
ECG review – anesthesia technicians	University of Florida May 2019

Board Review Internal Medicine Residents – Wiggers' diagrams	University of Florida April 2019
Resident Rounds and Great Cases, weekly	University of Florida Nov-2018-present
VEM 5862 Clinical Cardiology Rotation	University of Florida Nov 2018-present
VEM 5111G Cardiovascular Physiology, ECG laboratory	University of Florida January 2019, 2020
VEM 5301 Cardiopulmonary Course, 2 hrs Tachyarrhythmias	University of Florida 2019- present
VMC 972 Clinical Cardiology Rotation	North Carolina State University 2015-2018
VMB 952 Specialized Problem-Solving in Veterinary Medicine	North Carolina State University Fall 2016, 2017
VMC 937 Introduction to Physical Exam Skills - SA	North Carolina State University 2/17
ECG rounds for residents, bimonthly	MedVet , 2009-2014
VEM 5111H Cardiovascular Physiology, 1 hr Clinical Correlates	University of Florida 1/05
VEM 5286 Clinical Pharmacology, 2 hrs Case Studies in Cardiovascular Pharmacology	University of Florida 2/03, 2/04, 1/05, 1/06
VEM 6936 Seminars in Medicine, 1 hr each "Cardiac Biomarkers; Research and Clinical Applications" "Principles of Veterinary Echocardiography" "Mechanisms of Arrhythmogenesis: Relevance to Everyday Cardiology" "Endocarditis: Diagnostic and Treatment Challenges"	University of Florida 4/04 4/03 12/02 3/02
VEM 5251 Emergency Critical Care course, 2 hrs Emergency treatment of congestive heart failure Emergency treatment of congestive heart failure discussion	University of Florida 3/02- 3/06
VEM 5301 Cardiopulmonary course, 18 hrs lecture, two labs Heart failure pathophysiology I Heart failure pathophysiology II Acquired valvular disease Dilated cardiomyopathy Hypertrophic cardiomyopathy Management of Cardiac Disease Acquired cardiac disease discussion Congenital heart disease I Congenital heart disease II Fall 2001-2002 Congenital heart disease discussion Echocardiography and heart sounds laboratory Basic electrocardiography I Basic electrocardiography II Basic electrocardiography discussion	University of Florida Fall 2001-2005



Conduction disturbances  
 Bradyarrhythmias  
 Tachyarrhythmias  
 Large Animal Cardiology  
 ECG discussion  
 ECG laboratory

VEM 5301 Cardiopulmonary course, Coordinator	University of Florida Fall 2002-2005
VEM 5325 Small Animal Medicine course, 4 hrs lecture Thromboembolic disease Thromboembolic disease discussion Endocarditis Pericardial disease	University of Florida Spring 2002-2006
ECG rounds for interns and residents, biweekly	University of Florida 9/01 – 5/06
Cardiology rounds for interns, monthly	Vet Spec of Rochester 2/00 – 7/01, 8/06-11/08

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**MEMBERSHIPS**

Translational RAAS Interest Group	2019-present
North Carolina Veterinary Medical Society	2015-present
American Veterinary Medical Society	1996-present
American College of Veterinary Internal Medicine	2000-present
NYS Veterinary Medical Society	2006-2009

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**HONORS AND AWARDS**

UNIVERSITY OF FLORIDA, Gainesville, FL	
FVMA Clinical Investigator Award	2022
College Teacher of the Year	2004
Clinical Sciences SCAVMA Teacher of the Year	2003
Small Animal Clinician of the Year	2003
AMERICAN COLLEGE OF VETERINARY INTERNAL MEDICINE	
Young Investigator Research Award	1999
CORNELL UNIVERSITY, Ithaca, NY	
Gary Bolton Cardiology Award	1996
Merck Manual Award	1996
Phi Zeta, Veterinary Honor Society	1995
Ryman and Catherine Powell Scholarship Award	1994
American Kennel Club Educational Grant	1994
HARTWICK COLLEGE, Oneonta, NY	
NYS Empire State Scholarship of Excellence	1988-1992
Oyaron Scholarship	1988-1992
Dean's List	1988-1992
Faculty Scholar Award (highest departmental award)	1991
Women's Club Scholarship	1991
Deubler Biology Award	1990

Outstanding Freshman Biology Award

1989

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**STUDENT ADVISEES**

North Carolina State University, Raleigh, NC

Avery Goho  
Mallory Brown  
Lydia SixtaClass of 2020  
Class of 2021  
Class of 2018

University of Florida, Gainesville, FL

Karen Cooper  
Jamie Peyton  
Wendy McCulloch  
James Jackson  
Robert Schutrumpf III  
Tania Wadwha  
Nyrka Ojeda  
Lindsey Diley-Polston  
Jennifer GraczykClass of 2004  
Class of 2004  
Class of 2004  
Class of 2005  
Class of 2005  
Class of 2005  
Class of 2006  
Class of 2007  
Class of 2009**RESIDENT AND INTERN ADVISEES**

University of Florida

Karen Moy-Trigilio (Advisor)  
Catherine Georges (Advisor)  
Paulo Rivera  
Renee Girens  
Sara Brethel (Research Advisor)  
Camden Rouben  
Monica TchosisikIntern 2022-2023  
Cardiology resident 2021-present  
Cardiology resident 2020-present  
Cardiology resident 2019-present  
Cardiology resident 2018-2021  
Cardiology resident 2018-2020  
Cardiology resident 2018-2019

North Carolina State University, Raleigh, NC

Jessica Ward  
Kate Woodruff  
Yamir Reina-Doreste  
Brent Aona (Advisor)  
Kari Kurtz (Research Advisor)  
Lara Barron  
Gabriella Wallace (Advisor)  
Anna McNamane (outside mentor)Cardiology resident 2015  
Cardiology resident 2015-2016  
Cardiology resident 2015-2017  
Cardiology resident 2015-2018  
Cardiology resident 2016-2018  
Cardiology resident 2017-2018  
Intern 2017-2018  
ECC intern 2017-2018

MedVet Medical and Cancer Center for Pets, Worthington, OH

Bethany Smouter (Research Advisor)  
Dawn Webber  
Yanni GiatisCardiology resident 2009-2012  
Cardiol intern/resident 2010-14  
Cardiol intern/resident 2011-15

University of Florida, Gainesville, FL

Alexis Sequin  
Rita Hanel  
Paul Berdoulay  
Brian Luria  
Sandra Tou  
Laura Riordan  
Sarah Musulin (Advisor)Medicine resident 2001-02  
Medicine resident 2001-03  
Medicine resident 2001-04  
Medicine resident 2001-04  
Medicine resident 2002-05  
Medicine resident 2003-06  
Intern 2004-2005

Herb Maisenbacher

Cardiology resident 2004-06

### FACULTY MENTEES

Dr. Daniela Luethy (Clinical Assistant Professor, Large Animal Medicine)	University of Florida 2020-present
Dr. Jacob Wolf (Clinical Assistant Professor, Emergency and Critical Care) (co-mentor with Dr. Amy Alexander)	University of Florida 2021-present
Dr. Jennifer Repac (Clinical Assistant Professor, Integrative Medicine)	University of Florida 2022-present

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### MEDIA INVOLVMENT

The Washington Post "Grain-free, exotic dog food linked to heart disease"	August 2018
NBC Nightly News "Dog heart disease linked to grain-free food, FDA says"	August 2018
The NY Times "Grain free dog foods may be linked to heart disease"	July 2018
American Kennel Club Canine Health Foundation, Podcast: "What to expect when visiting a veterinary cardiologist"	May 2013
TV News 20, UF Vet News, UF Alligator, Gainesville Sun, & DVM magazine; "Prancer; Dog's heart repaired through collaboration with vet, human cardiologists"	September, 2003
Dog Fancy "Mending a Broken Heart"	March 2004
The Post: UF Health Science Center, Florida Veterinarian "UF veterinary cardiologists remove heartworms from cat in first-ever procedure for college"	March 2004
Veterinary Times (British newsletter) "Heartworm Breakthrough"	March 2004

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### OUTREACH

Project advisor for Olivia Rostkowski, 10<sup>th</sup> grade student at Monroe-Woodbury High School, Central Valley, NY enrolled in Scientific Research course through SUNY Albany. The project involves investigating current research surrounding the effect of grain-free diets in dogs with dilated cardiomyopathy. Poster presentation 5.27.22. The project runs from 2022-2024.

Presentation to Meadowbrook Elementary Students, Alachua county school 2019 and 2020  
Grades 1 and 2 "What does a veterinarian do?"