

**BIOMEDICAL & VETERINARY SCIENCES
GRADUATE PROGRAM**



ANNOUNCES

The Master of Science Seminar and Examination of

Audrey Keebaugh

“Evaluation of hemostasis in hyperthyroid cats”

Friday, June 12th, 2020

10:00 AM

VMIA Classroom 220

Zoom link - <https://virginiatech.zoom.us/j/96914131112>

Bio



Audrey Keebaugh grew up in Southern California and obtained a bachelor of science degree in Neurobiology from the University of California, Irvine in 2010. She then obtained a Doctor of Veterinary Medicine degree from Western University of Health Sciences in 2015. After graduation, she completed a rotating internship at Angell Animal Medical Center in Boston and then completed an internal medicine specialty internship at Animal Specialty Group in Los Angeles. She is currently a third-year small animal internal medicine resident at the Virginia-Maryland College of Veterinary Medicine. Upon completion of her residency, she will be joining the small animal internal medicine faculty as an assistant professor at the Virginia-Maryland College of Veterinary Medicine.

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VMCVM Office of Research and Graduate Studies

Lay Language Abstract

In feline hyperthyroidism, there is a predisposition for thrombus formation. An alteration of hemostasis has been documented in hyperthyroid humans, but despite reports of thrombus formation in hyperthyroid cats, the underlying mechanism is currently unknown. Hyperthyroidism can lead to cardiac abnormalities that could possibly contribute thrombus formation, although thrombus formation has previously occurred in hyperthyroid cats with normal hearts.

The goal of this study was to evaluate markers of hemostasis in hyperthyroid cats presenting for radioiodine therapy to evaluate for presence of hypercoagulability. Twenty-five hyperthyroid cats were evaluated with hemostasis panels and echocardiograms. The results were compared to a group of 13 healthy cats. Markers of hemostasis and echocardiograms in 7 hyperthyroid cats were also compared to results 6 months or greater post-radioiodine therapy.

There was evidence of altered hemostasis and hypercoagulability in hyperthyroid cats. The alterations noted resolved after radioiodine therapy and do not appear to be solely attributed to cardiac abnormalities seen in hyperthyroid cats.

Publications

Keebaugh AE, Demonaco SM, Grant DC, et al. Prevalence of, and factors associated with, positive urine cultures in hyperthyroid cats presenting for radioiodine therapy. Epub ahead of print 2020. DOI: 10.1177/1098612X20926090.

Keebaugh AE, Redman-Bentley D, Griffon DJ. Influence of leash side and handlers on pressure mat analysis of gait characteristics in small-breed dogs. *J Am Vet Med Assoc* 2015; 246: 1215–1221.

Poster Presentations

“Evaluation of hemostasis in hyperthyroid cats” - ACVIM Forum 2020

“Prevalence of and factors associated with positive urine cultures in hyperthyroid cats presenting for radioiodine therapy” - VMCVM 30th annual research symposium 2019

Awards and Academic Achievements

Bente Flatland Resident Award – 2019

Examination Graduate Committee

Major Advisor/Chair:

Stefanie DeMonaco, DVM, MS, DACVIM
Assistant Professor
Small Animal Clinical Sciences

Graduate Advising Committee Members:

David Panciera, DVM, MS, DACVIM
Anne Hunter Professor of Veterinary Medicine
Small Animal Clinical Sciences

Jonathan Abbott, DVM, DACVIM (Cardiology)
Associate Professor
Small Animal Clinical Sciences
University of Tennessee College of Veterinary Medicine

Katie Boes, DVM, MS, DACVP
Associate Professor
Biomedical Sciences & Pathobiology



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