

Last Updated July 2013

**Anesthesiology Residency Training Program  
School of Veterinary Medicine  
University of Wisconsin-Madison**



**SCHOOL OF  
VETERINARY MEDICINE**  
University of Wisconsin-Madison

*Advancing animal and human health with science and compassion*

**The University**

The University of Wisconsin – Madison is ranked 7<sup>th</sup> among the nation’s best public universities, with 41,000 students, 45 libraries containing 5.9 million volumes and set on 933 beautiful lakefront acres in the center of the city, adjacent to a 1262 acre arboretum. UW ranks 5<sup>th</sup> among universities in the amount of money spent on research and development and is 3<sup>rd</sup> in the number of doctorates granted. The UW Medical School, a short walk from the veterinary campus, is ranked in the top 2 percent of the nation’s major medical centers in 10 medical specialties. The veterinary school is located within view of the largest of Madison’s lakes and adjacent to one of the University’s 2 large recreational facilities.

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## **The City**

Madison is also home to the seat of state government, providing an eclectic, energized atmosphere. Madison offers both small town charm and a range of cultural and recreational opportunities usually found in much larger cities. And, with four lakes and over 200 parks, it is

one of the nation's most scenic cities. It has one of the few free zoos in the nation. Madison consistently ranks as one of the top places in the country to live, work, go to school and play.

Built on an isthmus in the midst of four glacial lakes, Madison offers an abundance of activities including sailing, fishing, swimming at thirteen area beaches, boating, dozens of public tennis courts, hiking, biking, (one of the best bike towns in the country), ice skating, jogging and golfing. Hunting, snowmobiling, skiing, sledding and canoeing are also popular.

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Introduction

a. Objectives

The objectives of this training program are to prepare the resident for the ACVAA board examination and subsequent academic appointment, private specialty practice, or possibly industry or zoological work depending on the resident's interest.

Training is provided in small, large and exotic animal species and in research and publication.

b. General nature of the residency program

The University of Wisconsin-Madison, School of Veterinary Medicine offers a 3 year clinical residency training program in veterinary anesthesiology. Based on the ACVAA requirements of minimal number of core species that are personally, directly managed by the resident (minimum = 300), 27 months of supervised clinical training in the 36 month residency are expected, with the remaining 9 months being devoted to research, rotations within other specialties, and vacation. Supervised clinical training includes approximately 13 months in Large Animal Anesthesiology and 14 months in Small Animal and Exotic Animal Anesthesiology. All of the above training is completed in the 36 months of the residency and can be accomplished on site. The resident will be eligible to submit their credentials for ACVAA board examination by September of their 3<sup>rd</sup> year, provided that an original research manuscript has been accepted by a peer-reviewed journal.

Two weeks (10 days) of vacation are granted annually. Vacation time should be divided between off clinic and on clinic weeks proportionally (50% of days from each). The program does not include an advanced degree.

c. length of the residency: 3 years.

d. start date of the residency : on or about July 15

e. size of the residency class: a total of 1-2 residents at a time.

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## **I. Application & Selection**

- a. As of 2010, resident selection is through the Veterinary Intern/Resident Matching Program sponsored by the AAVC. For forms, contact that office at 614 228 6599; fax 614 228 1216; email [gpkjnginc@aol.com](mailto:gpkjnginc@aol.com)
- b. An internship or one year of equivalent clinical experience is required prior to entering the residency. Resident selection is based on grades, professional experience, letter of intent, professional goals, and recommendations.
- c. Applicants must submit application form, college transcripts (including g.p.a. and class rank) and 3 letters of recommendation.
- d. Applications should be sent to the Chair, Department of Surgical Sciences, School of Veterinary Medicine, University of Wisconsin, 2015 Linden Dr., Madison, WI 53706. The University of Wisconsin-Madison is an equal opportunity employer. Applicants must return a completed Applicant Agreement form and a rank order list, along with application fee to VIRMP, 37 W. Broad St., Suite 480, Columbus, OH 43215.
- e. Application deadline to the matching service is on or about December 1.

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## **II. Objectives: University of Wisconsin Anesthesiology Residency Program**

The objectives of this training program are to prepare the resident for the ACVAA board examination and subsequent academic appointment, private specialty practice, or industry or zoological medicine depending on the individual's interests.

Training is provided in small, large and exotic animal species and in research and publication.

## **III. Training period:**

The total length of the training period is 36 months. By September of the 3<sup>rd</sup> year of residency, the resident can submit credentials for ACVAA board examination, provided that an accepted research manuscript is included in the credentials. If accepted for credentials, the resident will be able to sit the written portion of the ACVAA exam (usually held in early May) by late in the 3<sup>rd</sup> year of their residency.

The total duration of supervised clinical training in the program is 27 months, or approximately 3 weeks out of each month of the 36 month residency. Residents are scheduled for 1 off-clinic week/month for research or rotations within other clinical specialties. If a resident desires to spend longer than 1 week in an off-site rotation, that can be arranged within the context of total off clinic time.

The responsibilities of the resident in the non-clinical portion of the Program (9 months over 36 total months) are research, manuscript preparation, other clinical specialty rotations, board preparation, and vacation.

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**IV. Direction and Supervision:**

**Program Director:**

Lesley J. Smith DVM, DACVAA  
Clinical Professor of Anesthesiology



**Faculty:**

Rebecca Johnson DVM, MS, PhD, DACVAA  
Clinical Associate Professor of Anesthesiology



Lindsey Culp-Snyder DVM, MS, DACVAA  
Clinical Assistant Professor of Anesthesiology



Erin Wendt-Hornickle DVM, DACVAA, CVA  
Clinical Instructor, Anesthesia and Pain Management

*Information on each faculty's area of research interest and teaching responsibilities can be found at [www.vetmed.wisc.edu](http://www.vetmed.wisc.edu) in the Department of Surgical Sciences*

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## **V. Facilities:**

The section of anesthesiology has a large 6 station Small Animal Induction room, with adjacent workspace including 3 computers with on-line access, as well as storage space for up to 6 portable anesthetic machines. There are 6 OR's each equipped with state of the art anesthetic machines and monitoring equipment. Each monitoring station has the capability to perform ECG, pulse oximetry, 2 direct blood pressure ports, capnography, temperature, respiratory gases. In addition, all OR's have anesthetic machines that can perform mechanical ventilation, either in pressure or volume mode, and several machines can display pressure-volume loops. All machines are equipped with either isoflurane or sevoflurane vaporizers. The section also owns multiple fluid pumps, syringe pumps, forced air warmers, and portable monitors. The section also has a Large Animal Induction room with squeeze gate and adjacent work/prep room. Monitoring and equipment for the large animals is essentially the same as what is described above for small animal, but includes 3 large animal anesthetic machines, each with an isoflurane and sevoflurane vaporizer and ventilators.

The section of anesthesiology also provides anesthesia to the hospital for diagnostic imaging (CT, MRI, fluoroscopy, ultrasound, routine radiographs), as well as for exotic animals, outpatients, and patients that present for our state of the art tomotherapy services.



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## **VI. Clinical resources:**

The UW VMTH sees approximately 21,500 patients annually.

By species, the Anesthesiology Section anesthetizes on an annual basis approximately:

Companion Small Animals:	3500
Equine:	250
Bovine:	125
Camelid:	25
Exotic:	250

The VMTH has 6 small animal OR's and an 8 cage recovery room, 2 large animal OR's and 2 recovery stalls, a CCU with full-time coverage by a boarded criticalists, a CT, MRI, and tomotherapy units. In addition, there are facilities in the large animal barn for housing large bulls and anesthetizing them in the bull pens. The Special Species service involves the Anesthesiology Section in anesthesia of inpatient and outpatient exotic animals, and is affiliated with the Vilas and Milwaukee Zoos, where residents and faculty from the Anesthesiology Section can participate in anesthesia of larger exotic animals.

## **VII. Clinical Training content:**

Residents in Anesthesiology are scheduled for clinic duty approximately 3 out of every 4 weeks. During that time, they are responsible for directly managing small and large animal patients on an equal basis. In the 1<sup>st</sup> year of training, residents are directly supervised by faculty in case management. By the beginning of the 2<sup>nd</sup> year, residents are allowed a more supervisory role and are responsible for oversight of cases managed by students or technicians on a more regular basis, although still with faculty supervision. In the 3<sup>rd</sup> year, residents may be primarily responsible for the caseload in either small animal or large animal anesthesia, but this will depend on caseload and resident preparation, and will continue to be conducted with faculty input and presence.

Residents are responsible for primary on-call duty for emergency after hour's cases. On call duty is 33%. This duty is equally shared among the residents and technicians and includes responsibility for late cases. All after hour's duty will be assigned with faculty backup available. Residents are expected to live within a 15 minute drive of the VMTH.

In addition to clinical case management, Residents in Anesthesiology are expected to actively participate in weekly book chapter review with the Anesthesiology faculty. Suggested texts can be found at [www.ACVA.org](http://www.ACVA.org). Residents are also expected to participate in weekly Anesthesiology journal club. Residents are welcome to participate in Critical Care journal club. Learning opportunities at the UW Medical School Anesthesiology Service are supported.

As part of residency training, Anesthesiology residents will be asked to participate in didactic lectures and labs for undergraduate veterinary students as well as rounds presentations for 4<sup>th</sup> year students or residents from other sections. This should be a relatively small proportion of total resident responsibility and will be assigned with ample faculty mentoring.

Residents in Anesthesiology are encouraged to attend at least one CE meeting annually. Suggested meetings are the ACVAAA meeting, ASA meeting, ECVAA meeting, or IVECCS meeting. Others can be chosen with faculty consent.

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### **VIII. Research Environment and Training:**

The Anesthesiology faculty has a strong track record in research involving pain management in companion animals and in respiratory physiology. For specific publications, one should refer to [www.vetmed.wisc.edu](http://www.vetmed.wisc.edu)

The faculty has 2 research lab spaces, one of which is 200 square feet and is equipped with computers, dolorimetry testing devices, a centrifuge, freezer, refrigerator, DEA lock box, small rodent anesthesia station and minor surgery station. The second lab is equipped with computers, a small rodent anesthesia and surgery station, a whole-body unrestrained plethysmograph, and telemetered biopotential, pressure, activity and body temperature equipment.

Early in the 1<sup>st</sup> year of residency, the resident will discuss with the Anesthesiology faculty what interests they have from a clinical or basic science research standpoint that could lead to a viable project that would result in an accepted manuscript. An assigned faculty mentor will assist with project selection, grant writing if applicable, and data collection. Data analysis and manuscript preparation will be mentored by faculty. It is expected that the 1<sup>st</sup> year of the residency will largely involve discussion of project ideas and faculty strengths in supporting a project, examination of funding opportunities, proposal and animal care and use forms, and case recruitment if applicable. The 2<sup>nd</sup> year will be devoted to data collection and analysis, with manuscript preparation late in the 2<sup>nd</sup> year in anticipation of submitting ACVAA credentials.

### **IX. Resident Evaluation**

Anesthesiology residents will be evaluated by faculty every 6 months for performance and completion of goals. Unsatisfactory performance can result in termination of the residency. Should a resident's performance be unsatisfactory, a written evaluation may be submitted every 3 months in order to allow the resident to review their performance and make appropriate changes, if possible or necessary.

### **X. Literature resources**

The UW Medical School library is a 10 minute walk from the VMTH. Additionally, electronic access to journals is virtually unlimited at the UW. The SVM has a reading room that houses some textbooks and provides a quiet place for study. Residents are assigned a desk and computer in a shared office for use during off clinic time.

### **XI. Additional information**

Additional information on specific requirements of residency training in Anesthesiology can be found at [www.ACVA.org](http://www.ACVA.org). Interested individuals can contact Dr. Lesley Smith for more information at [smithl@svm.vetmed.wisc.edu](mailto:smithl@svm.vetmed.wisc.edu) or 608-265-9181