

CURRICULUM VITAE

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K A T R I N A L A F F E R T Y , B F A , C V T , V T S (A N E S T H E S I A)

PROFILE

Meticulous professional with a strong background in exotic and zoo animal veterinary nursing. Experienced in education of both veterinary professionals and the general public. Dependable, level-headed and adaptable. Self-motivated with high energy, initiative, and focus. Keen insight into the needs and views of others; able to listen and identify issues or problem areas and form solutions satisfactory to all parties. Able to work calmly and efficiently in high stress environments. Extensive training in veterinary safety protocols; conscientious of the safety of both staff and animals at all times.

EDUCATION

Associate of Applied Science in Veterinary Medical Technology, 2005; Joliet College (accredited AVMA), Joliet, Illinois

Selected achievements:

President's list, all semesters; Secretary, Student Veterinary Technician Club; graduated summa cum laude

Bachelor of Fine Arts in Theatre Studies/Minor in Educational Psychology 2001; DePaul University (accredited NCACS HLC), Chicago, Illinois

Selected achievements:

Dean's honor roll, all semesters; volunteer for Inner City Reading; graduated summa cum laude

PROFESSIONAL EXPERIENCE

**Director, Veterinary Technician Internship Program 1/11-present
University of Wisconsin Veterinary Medical Teaching Hospital, Madison, Wisconsin**

Responsible for working with veterinary technician programs.

- Coordinate with technician schools (local and national) to provide internship and preceptor training
- Complete dedication to teaching veterinary technician students
- Create orientation materials and schedules for rotating veterinary technician students
- Act as contact person/hospital-wide liaison for rotating students
- Supervise, direct, and evaluate multiple clinical program coordinators
- Conduct entrance and exit interviews and final student intern evaluations

Veterinary Technician 6/05 – present

University of Wisconsin Veterinary Medical Teaching Hospital, Anesthesia and Pain Management Dept, Madison, Wisconsin

Class 3 (Senior Level) Veterinary Technician Specialist in the area of anesthesia and pain management.

- Anesthetize wide variety of species: large animal, small animal, exotics, and zoo species with competence and efficiency
- Monitor anesthesia and recovery and provide emergency care for a wide variety of species
- Place intravenous catheters, collect laboratory specimens, and assist with diagnostic testing
- Observe and report normal and aberrant behaviors and changes; provide modifications if needed
- Provide on-site care for zoo animals at various AZA accredited facilities in conjunction with a veterinary team
- Operate, clean, and maintain anesthetic machines and veterinary monitors
- Provide training and refresher courses for veterinary staff and students

- Maintain appropriate medical, dental, and anesthetic records for all patients
- Restrain and medicate a wide variety of species
- Take primary after hours on-call shifts for emergency cases
- Clean and maintain animal care facilities to meet AAHA accreditation

Adjunct Faculty Member, 9/11-4/12, Globe University, Madison, WI

Responsible for instruction of veterinary technician students.

- Develop, prepare, and instruct students on up-to-date class material
- Create, administer, and grade evaluation criteria to assess student progress
- Motivate students to complete course learning objectives by involvement in applicable learning activities
- Teach courses including Advanced Anesthesia and Math for Veterinary Professionals

Veterinary Assistant 8/03 - 3/05 , All Creatures Great and Small Veterinary Practice, Downers Grove, Illinois

Responsible for providing client services and assisting veterinarian and animal nursing staff.

- Educate clients on surgical and non-surgical procedures, medical treatments, animal nutrition, and husbandry
- Assist veterinarian with examinations, treatments, and surgical procedures
- Restock and order medical supplies as needed
- Maintain appropriate records for all patient visits
- Provide patient care for healthy and critical cases including after-hours care for hospitalized patients

ADDITIONAL PROFESSIONAL ACTIVITIES

Application Review Committee 2010 to present—review application packets of candidates seeking VTS in anesthesia

Veterinary Technician Specialty (Anesthesia)--Board certification in September 2009

Pain Management Club 2008 to present--Guest lecturer for veterinary student organization

Shelter Medicine Club 2005 to present--Assistance with anesthesia for spay and neuter labs

Clinical Trial 2007-2008: Effect of Local Anesthetic on Retrobulbar Block on Postoperative Pain Following Enucleation of Canine Eyes: A Randomized Double-masked Clinical Trial

Performance of retrobulbar block and administration of study medication during clinical trial .

Duncan Research Laboratory 10/06 – 8/08

Anesthesia for research MRI scans on both normal and compromised patients. Complete adherence to study protocols.

Veterinary Technician Externship 3/05 – 5/05; University of Wisconsin Veterinary Medical Teaching Hospital, Madison, Wisconsin

8 week externship with rotations through the anesthesia, critical care, and special species departments

Veterinary Technician Externship 5/04 – 7/04; Willowbrook Wildlife Center, Glen Ellyn, Illinois

10 week externship in wildlife treatment center. Exposure to a wide variety of native and non-native wildlife species.

Assistance with Blandings turtle tracking project.

WRITTEN WORKS

Pain Management for Veterinary Technicians and Nurses (working title)

Responsible for analgesic information for exotics and lab animals; Veterinary Technician Textbook for Wiley-Blackwell Publishing; release date TBD

Small Animal Internal Medicine for Veterinary Technicians and Nurses

Responsible for anesthetic information in several chapters; Veterinary Technician Textbook for Wiley-Blackwell Publishing; released August 2012

New Employee Training Manual

Revised and expanded basic training manual for newly hired anesthesia technicians

Exotic Animal Anesthesia Training Manual

Created individual manuals containing basic anesthetic information for several exotic species. Used department-wide for exotic animal anesthetic procedures.

PRESENTATIONS

Speaker—CVC San Diego; October 31-November 2, 2013

Speaker—Atlantic Coast Veterinary Conference; October 15-19, 2013

Speaker/Lab Instructor—International Veterinary Emergency and Critical Care Society Annual Convention; September 8-11, 2013

Speaker—Midwest Veterinary Conference; February 20-23, 2013

Speaker—University of Wisconsin School of Veterinary Medicine; November 16, 2012

Super Tech II: The Sequel: Innovative Veterinary Techniques for the Veterinary Technician

Speaker—Wisconsin Veterinary Technician Association Annual Convention; October 13, 2012

Speaker—American Veterinary Medical Association Annual Convention; August 3-5, 2012

Speaker/Lab Instructor—University of Wisconsin School of Veterinary Medicine; *Dental Skills*; December 3, 2011

Speaker—Southwest Veterinary Symposium; September 30-October 1, 2011

Speaker/Lab Instructor—International Veterinary Emergency and Critical Care Society Annual Convention; September 14-18, 2011

Speaker: University of Wisconsin School of Veterinary Medicine; *Back to Basics with Anesthesiology*; February 26, 2011

Presentation/Wet Lab at Covance, Inc. ; January 14, 2011

Lecture and instruction on proper intubation, catheterization, and monitoring techniques in rabbits

Speaker—American College of Veterinary Surgeons; October 21-23, 2010

Speaker—University of Wisconsin Madison Medical School; May 26, 2009

University of Wisconsin School of Veterinary Medicine; Advance Ultrasound Techniques May 2-3, 2009

Provided sedation and monitoring for volunteer animals used during wet lab portion of continuing education seminar

Speaker—University of Wisconsin School of Veterinary Medicine; *Super Tech: Innovative Veterinary Techniques for the Veterinary Technician*; March 21, 2009

Speaker – Wisconsin Veterinary Technician Association Annual Convention; October 16-19, 2008

Speaker – University of Wisconsin School of Veterinary Medicine; *No Pain BIG Gain: Innovations in Pain Management Techniques for the Small Animal or Special Species Patient*; August 1, 2008

PROFESSIONAL MEMBERSHIPS

Wisconsin Veterinary Technician Association
Association of Zoo Veterinary Technicians

North American Veterinary Technician Association
Academy of Veterinary Technician Anesthetists

LICENSURE

State of Wisconsin: License Number 9901623-051

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K A T R I N A L A F F E R T Y , B F A , C V T , V T S (A N E S T H E S I A)

Bio:

Ms. Lafferty is a 2001 graduate from DePaul University in Chicago, IL with her BFA in Theatre. She returned to school and graduated with her degree in Veterinary Technology in 2005. She was accepted into the Academy of Veterinary Technician Anesthetists in 2009.

Currently Ms. Lafferty is a Senior Technician in the Anesthesia and Pain Management Department at the University of Wisconsin-Madison, School of Veterinary Medicine, where she has worked since 2005. She is also the director of the Veterinary Technician Student Internship Program at the UW-Madison. She is extremely involved in the education of veterinary students, veterinary technician students, veterinary interns and residents. She has also written several articles and book sections and has been involved in a number of continuing education sessions across the country.

Ms. Lafferty loves all aspects of anesthesia and has anesthetized everything from a 2 day old calf, to a 4 week old kitten, to a 60 year old tortoise, not to mention dogs, alpaca, horses, rabbits, penguins, and a host of other species. Her passion is anesthesia and pain management, particularly in exotic species.

*All lectures can be adapted to fit conference theme and requirements—just ask!
References and lecture samples gladly provided upon request.*

Exotic Animal Anesthesia Lectures:

Pain Recognition and Analgesia in Small Mammals

In a time when exotic patients comprise more and more of a client base, it is important to be able to provide excellent veterinary care. Recognizing painful behaviors and situations for pocket pets can be extremely challenging, as is knowing what types of analgesia are available, appropriate, and safe. This lecture covers painful behaviors in rabbits, ferrets, and rodents. It covers analgesic drug choices, when and how they can be safely used. There is also discussion on special techniques and delivery methods for analgesics such as constant rate infusions, local blocks, and epidurals.

You Gotta Know How to Hold ‘em: Exotic Animal Restraint

Covers restraint techniques for rabbits, ferrets, birds, rodents, and reptiles. Discusses how to deal with calm, feisty, and fractious animals, while keeping both the patient and the restrainer safe. Also deals with restraint techniques for various procedures such as venipuncture, injections, and oral administration of medications.

Rabbit Anesthesia and Analgesia

Covers the basics of rabbit anesthesia. Includes information on injection sites, catheter placement, intubation, monitoring choices, and recovery. Also covers basic information on drug choices for sedation and pain management as well as emergency drugs.

Reptile Anesthesia and Analgesia

Covers the basics of reptilian anesthesia. Discusses the basic anatomic differences between reptiles and mammals in regards to anesthesia. Includes information on injection sites, catheter placement, intubation, monitoring choices, and recovery. Also covers basic information on drug choices for sedation and pain management as well as emergency drugs.

Avian Anesthesia and Analgesia

Avian anesthesia can be a frightening prospect for even the most seasoned veterinary professional. This lecture covers the basics of avian anesthesia. It discusses the basic anatomic differences between birds and mammals in regards to anesthesia. Discusses appropriate handling of a variety of avian species. Also included is information on injection sites, venipuncture, catheter placement, intubation, monitoring choices, and recovery. Covers information on drug choices for sedation, anesthesia, and pain management as well as emergency drugs.

Crash Course: Anesthesia for Rabbits, Ferrets and Rodents

In the world of veterinary medicine, pocket pets are an increasing part of the clientele and owners expect high quality care for their pet, regardless the species. Exotics anesthesia can be one of the most intimidating parts of work with an exotic animal client base. This lecture will cover the most important elements of rabbit, ferret, and rodent anesthesia. It will discuss information on injection sites, catheter placement, intubation, monitoring choices, and recovery. It will also cover information on drug choices for sedation and pain management as well as emergency drugs.

Small Mammal Critical Care

In a veterinary clinic, specialty or otherwise, it can be any species that comes through the door on a given day; knowing how to adapt the type of critical care to the type of small mammal can turn a life-threatening situation into a life-saving one. This lecture will cover the basics for critical care in small mammals. Relevant anatomic and physiologic differences will be discussed as well as how to accurately examine and triage patients. Catheter placement, fluid therapy, general diagnostics, and nutritional needs will be covered. Also discussed will be what supplies are truly needed for small mammal emergencies.

Basic to Intermediate Level Lectures:

What is that beeping? Understanding and Choosing the Right Monitors for Your Clinic.

Monitors can be intimidating. They beep when they shouldn't and are silent when there is an issue. They can be expensive and hard to understand. How do you know which

monitors are right for your needs? This lectures discusses the basic principles of monitoring as well as different kinds of monitors, from non-invasive (pulse oximetry, capnometry, etc.) to invasive (arterial blood pressure, central venous pressure, etc.).

Client Communication: The Anesthesia Talk

Whether in private practice, a referral hospital, or an academic institution, clients bringing their pets in for treatment still have the same fear: Anesthesia. The concerns expressed by many clients can be alleviated with good communication between the anesthesia staff and owners. An appropriate discussion dealing with the risks and necessities of anesthesia, complications, and what to expect after anesthesia can go a long way in building a trusting, educated, dedicated client base.

Anesthesia Monitoring for GI Emergencies

GI emergencies are one of the most common emergency presentations. Patients presenting with gastrointestinal disorders or dysfunctions—gastric dilatation volvulus, hemoabdomen, intestinal/abdominal foreign body, gastrointestinal perforation, etc—routinely require general anesthesia to facilitate complete examination, obtain necessary diagnostic testing or imaging, or for surgical intervention. Specific considerations regarding the type of gastrointestinal dysfunction should be made for each step in the anesthetic process from premedication and induction to the recovery and postoperative phases. Good anesthetic monitoring during critical GI procedures can mean the difference between life and death.

Anesthetic Considerations for Dentistry Cases

General anesthesia is required for the vast majority of dental procedures we perform in pets. This allows us to immobilize the patient, complete a thorough examination and treatment, and to prevent any pain. A large percentage of patients coming in for dental procedures are geriatric, many with co-existing morbidities. Considerations have to be made for all facets of the anesthetic period, from premedication, through induction and intubation, intra- and post-operatively. Despite the fact that for the majority of patients the benefits of a dental procedure far outweigh the risks of anesthesia, general anesthesia is the primary concern for pet owners.

Case by Case: Creating the Right Drug Protocols for Your Canine and Feline Patients

Anesthetic patients should be evaluated on a case-by-case basis and an anesthetic protocol created for the individual situation. That being said, it can be overwhelming and intimidating to pick the right drug combination from the multitude of available choices. This lecture will briefly review available drug choices and considerations for premedication and induction as well as intra- and post-procedural analgesia and sedation. Several case studies will be discussed for canine and feline patients encompassing both routine and emergency cases. This lecture is designed to provide interactive discussion with the attendees.

Case by Case: Creating the Right Drug Protocols for Your Exotic Mammal and Avian Patients

Anesthetic patients should be evaluated on a case-by-case basis and an anesthetic protocol created for the individual situation. That being said, it can be overwhelming and intimidating to pick the right drug combination from the multitude of available choices. This lecture will briefly review available drug choices and considerations for premedication and induction as well as intra- and post-procedural analgesia and sedation. Several case studies will be discussed for exotic animal and avian patients encompassing both routine and emergency cases. This lecture is designed to provide interactive discussion with the attendees.

Intermediate to Advanced Level Lectures:

Breathe in, Breathe out: The Ins and Outs of Capnography

A capnograph can be the anesthetist's best friend. Knowing the ins and outs of capnography and understanding what the capnograph is showing can be the difference between life and death. Capnography provides early warning for a number of life-threatening situations: malignant hyperthermia, cardiovascular collapse, endotracheal tube blockage or misplacement, as well as hyper- or hypo-ventilation and hyper-/hypocarbica. This lecture will cover the many uses of capnography, including as a ventilation guide, intubation confirmation tool, and critical early alert system.

Beyond the Bag: Mechanical Ventilation Explained

There are many instances when mechanical ventilation is necessary—and even life-saving. The purpose of this lecture is to give the attendee an understanding of the mechanics behind adequate ventilation and how to recognize when a ventilator is needed. Also discussed will be the ins and outs of choosing appropriate settings on any ventilator machine. Defined and discussed will be the methods and modes of ventilatory support and additional supplemental techniques including positive expiratory pressure and continuous positive airway pressure.

Blood Gas Interpretation: The Nuts and Bolts of Analyzing Blood Gas Samples

Once upon a time, blood gas analysis was a monitoring tool primarily used in academic or high level referral centers. However, with the increasing availability—and decreasing cost of blood gas machines—analysis of blood gas samples is becoming more commonplace. This lecture will cover appropriate sample collection, analysis of arterial and venous samples, as well as definition and discussion of respiratory, metabolic, and acid base status of the patient.

Epidural Analgesia and Drug Choices

Often epidural anesthesia and analgesia are underutilized in the veterinary world as part of a multi-modal approach to pain management. Topics discussed will include anatomy and placement technique of epidurals and epidural catheters, various drug choices and combinations for different situations, and potential complications. There will be discussion of alternative and new thoughts in epidural drug protocols. Also discussed will be three case studies utilizing different drug combinations.

Opioids: So Many Choices, So Little Time

Opioids are the cornerstone for excellent pain management in veterinary patients. To adequately utilize the many opioids available, it is important to understand how opioids work. It is also essential to know what drugs are out there and what drugs are appropriate in different situations. Topics discussed will include method of action, different opioid choices, important cautions and contraindications, and special procedures involving opioid analgesia.

Backs and Brains: Anesthesia for Neurologic Cases

Many patients presenting with neurologic disorders will require anesthesia for at least some stage of the diagnostic and treatment process. The vast majority of neurologic cases presenting for anesthesia will fall into the categories of either neurologic disease--“brains” or disc disease--“backs.” For each group there needs to be an understanding of relevant anatomy and physiology, selection criteria for appropriate pre-medication, creation of an intra-operative anesthetic plan, understand and selecting correct monitoring parameters, using suitable intra-and post-operative analgesics, and preparation for recovery in a variety of critical cases.

CRI Usage for Anesthesia and Analgesia

Pain management in veterinary patients has come a long way. There are a myriad of analgesic drugs available and numerous techniques exist to further provide top-notch analgesia and pain management to animals undergoing even the most painful surgeries. Constant rate infusions (CRIs) are increasing in their usage, thanks in large part to their wide versatility. There are pharmacologic agents used as CRIs that can provide analgesia, maintain anesthesia, and provide blood pressure support if needed. Topics will include discussion of choices, dosages, and side effects for analgesic, anesthetic, and pressor supporting drugs as well as discussion of equipment required.