

***Louisiana State University Residency Program  
in Veterinary Anesthesia and Analgesia  
2019 - 2022***

**School of Veterinary Medicine  
Louisiana State University**

3-year program

Department of Veterinary Clinical Sciences  
School of Veterinary Medicine  
Louisiana State University  
Baton Rouge, LA 70803-8410

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## **1. Introduction**

The LSU Veterinary Anesthesia and Analgesia residency program is a three-year program funded by the LSU- Department of Veterinary Clinical Sciences (LSU-VCS). The program is designed to provide 3 continuous years of training in veterinary anesthesia and analgesia. This program will fulfill the requirements for the American College of Veterinary Anesthesia and Analgesia (ACVAA) certifying examination.

This program complies with the ACVAA requirements as outlined in the “ACVAA Residency Training Standards”.

The LSU VCS portion of the training program will utilize faculty of LSU VCS and other participating departments as mentors.

Clinical facilities of the Veterinary Teaching Hospital (VTH) will be the primary training location. The resident will also be involved in research and a graduate program within the VCS department.

## **2. Objectives**

2.1 To prepare the resident to function as a qualified practitioner of veterinary anesthesiology and pain management at the highest level of performance that society expects of an individual identified as a specialist.

Upon completion of training, the individual should have:

- 2.1.1 A broad understanding of veterinary anesthesiology and analgesia.
- 2.1.2 An understanding of the changes in physiology induced by diseases and abnormalities of various organ systems and their effects on anesthetic management and life support.
- 2.1.3 An expert’s level of understanding in:
  - i.* the anesthetic management of animal patients of all species for elective surgical and diagnostic procedures
  - ii.* the anesthetic management of animal patients for emergency procedures, critical patient care and resuscitation
  - iii.* the pharmacology of anesthetic agents, sedatives, analgesics, anti-inflammatory agents, drugs affecting cardiovascular and respiratory function, neuromuscular blocking agents, and drugs used to manage other medical conditions
  - iv.* patient monitoring and monitoring equipment
  - v.* pain management
  - vi.* management of ventilation
  - vii.* management of fluid therapy, electrolyte and metabolic disturbances
  - viii.* local and regional anesthesia techniques

- ix. diagnostic test results
- x. anesthesia equipment

- 2.1.4 To provide opportunity for residents to learn in-depth the fundamentals of basic science as applied to the practice of anesthesiology.
- 2.1.5 To provide experience in preanesthetic, perianesthetic and immediate postanesthetic care for animals in areas that constitute the components of veterinary anesthesiology.
- 2.1.6 To provide a suitable environment to facilitate training. Such an environment requires a commitment by mentors, support staff and administration, appropriate resources and facilities, and appropriate animal caseload
- 2.1.7 To provide didactic and tutorial teaching, training and experience through the house officer rounds and seminars as well as with student rounds and courses in Phases I and II.
- 2.1.8 To provide experience in designing and conducting clinical research projects and preparation and submission of scientific articles for publication and/or presentation.
- 2.1.9 To provide experience in presenting at national or international meetings and conferences.
- 2.1.10 To provide the opportunity to participate in graduate level courses relevant to the field of veterinary anesthesia and analgesia.
- 2.1.11 Prepare the resident for training and/or graduate study or entry into a high quality specialty practice or academic institution.
- 2.1.12 To satisfy the requirements to be eligible for examination by the American College of Veterinary Anesthesia and Analgesia

### **3. Prerequisites**

- 3.1 Be a graduate of a college or school of veterinary medicine accredited or approved by the AVMA, or possess a certificate issued by the Educational Commission for Foreign Veterinary Graduates (ECFVG), or be legally qualified to practice veterinary medicine in some state, province, territory or possession of the United States, Canada, or other country.
- 3.2 Has completed one year of general clinical practice of veterinary medicine or a rotating internship prior to the start of an anesthesia residency program.
- 3.3 Fulfill the requirements for admission to the LSU Graduate School.
- 3.4 Have the goal to achieve board certification by the American College of Veterinary Anesthesia and Analgesia.
- 3.5 The candidate must have a satisfactory moral and ethical standing in the profession.

### **4. Faculty Mentor**

- 4.1. The resident will be assigned to a faculty mentor who has diplomate status in the specialty field of Anesthesia and Analgesia (DACVAA or DECVAA)
- 4.2. Responsibilities of the mentor include:
  - 4.2.1. Direction and coordination of the clinical program;
  - 4.2.2. Advice toward research, publications, and preparation for Specialty Board examinations
  - 4.2.3. General counseling.

### **5. House Officer Rounds and Seminar Program**

The House Officer Rounds are designed to provide the resident the opportunity to receive and present interesting, unusual, or difficult clinical case material utilizing a problem oriented approach to professional colleagues. The resident will participate with the other VCS house officers on a rotating basis and will make 2 presentations during each year of the program. Residents have the option to present 1 case report and 1 seminar or to do two seminars each year (see seminar description below).

The House Officer Seminar series is designed to provide the resident with the opportunity to research and present scientific information to professional colleagues.

- 5.1 2 seminars will be prepared and given in each year of the residency. One seminar will be a 20 minutes presentation, and 1 seminars will be a 12 minutes presentation (research abstract or specific topic).
- 5.2 One seminar topic will relate to original research conducted by the resident.
- 5.3 Attendance: The resident is required to attend and participate in the following:
  - 5.3.1 VMED 7001 (VCS Seminar); Grand Rounds; House Officer Rounds; other seminars that are requirements of the resident's home department and/or section.
- 5.4 VCS HO Rounds/Seminar Policy
  - 5.4.1 HO attendance at all HO Rounds/Seminar sessions is required.
  - 5.4.2 Attendance will be taken at the beginning of each session.
  - 5.4.3 HO will be required to present an additional seminar if they have more than one unexcused absence or come late to the seminar more than twice (unexcused) during the program year. All absences must be accounted for by completing a HO Leave Request Form and submitting it to the HOC chair.
  - 5.4.4 Excused absences include the following: illness, annual leave, attendance or participation in a continuing education program, presentation of a student lecture, scheduled out-rotation or special service requirements per request of advisor. All other absences are unexcused unless deemed excusable by the HO advisor.

## **6. Teaching Program**

- 6.1. Throughout the program residents will be viewed as role models by both interns and professional students. They should always present themselves in a professional manner.
- 6.2. The resident will participate in clinical instruction and in the evaluation of Phase II veterinary students assigned to the section.
- 6.3. The resident will participate in preclinical didactic lecture and laboratory instruction as assigned by his/her mentor.

## **7. Board Certification**

- 7.1. An important credential in veterinary medicine is board certification in a specialty area. One of the objectives of the program is to prepare the resident for certification by the ACVAA.
- 7.2. In order to qualify for examination the resident should refer to the published requirements of the college (<http://www.acvaa.org>).
- 7.3. It is solely the responsibility of the resident to submit any material and fees required by the college for registration for board examinations.

## **8. Clinical Program**

A total of three years of supervised training is required, this time includes clinical training, graduate coursework, research, guided study, seminars, etc. Vacation will be taken in accordance with LSU rules and regulations, but should be at least two weeks (10 working days) per year. There will be no more than two weeks per year of sick leave during each year of training. Any absence from training in excess of those specified will require that the trainee's total training time be lengthened to the extent of the absence.

A minimum of 94 weeks of clinical weeks under direct supervision of an ACVAA or ECVAA boarded anesthesiologist is also required. Supervision by non-ACVAA or ECVAA Diplomates for clinical weeks will not count toward the required 94 weeks of clinical activity stipulated in the ACVAA Residency Training Standards.

During the entire course of training, a Resident must have access to Mentors either by phone or by direct supervision to assist in after-hours emergencies.

Each Resident should be expected to serve as Chief of Service for a minimum of 4 weeks (does not need to be consecutive) in their final year of residency. Mentors must be available for consultation during that time

Clinical training at other institutions (external rotations) will be allowed as deemed appropriate by the resident mentor. A faculty member with appropriate expertise and qualifications will be designated at the host institution and will assume responsibility for the resident's supervision during that time.

Residents should attend regional, national and/or international medical and/or veterinary medical meetings supporting advanced education in the art and science of Veterinary Anesthesiology, Pain Management or appropriately related fields with the advice and approval of his/her faculty mentor and the house officer committee (ACVAA residency program requirement). Resident will be strongly encouraged to present his/her research project.

## 8.1. **Year I Resident's Program**

- 8.1.1. Minimum of 34 weeks of clinical training
- 8.1.2. The resident will participate in the instruction of Phase II students and interns. Participation in SVM student laboratories will be assigned.
- 8.1.3. The resident will participate in house officer rounds, ward rounds, journal club, special topic conferences, seminars, and other scheduled conferences of the VTC. He/She will attend other scheduled seminars in the SVM as time permits.
- 8.1.4. The resident is encouraged to attend and participate in continuing education meetings sponsored by the SVM or by local and regional veterinary organizations.
- 8.1.5. The resident will participate in emergency duty under the supervision of the responsible anesthesiologist.
- 8.1.6. The resident will keep a case log as outlined by the ACVAA Residency Training Standards.
- 8.1.7. The resident will complete the graduate program requirements as outlined below.
- 8.1.8. The resident is required to prepare a research proposal; review it with his/her faculty mentor, and submit it for funding consideration.
- 8.1.9. The resident will register with the ACVAA within 90 days of starting the program

## 8.2. **Year II Resident's Program**

- 8.2.1. Minimum of 30 weeks of clinical training
- 8.2.2. The resident will participate in the instruction of Phase II students and interns. Participation in SVM student laboratories will be assigned.
- 8.2.3. The resident will participate in house officer rounds, ward rounds, journal club, special topic conferences, seminars, and other scheduled conferences of the VTC. He/She will attend other scheduled seminars in the SVM as time permits.



- 8.2.4. The resident is encouraged to attend and participate in continuing education meetings sponsored by the SVM or by local and regional veterinary organizations.
- 8.2.5. The resident will participate in emergency duty under the supervision of the responsible anesthesiologist.
- 8.2.6. The resident will keep a case log as outlined by the ACVAA Residency Training Standards.
- 8.2.7. The resident will complete the graduate program requirements as outlined below.
- 8.2.8. The resident will hold a portion of the Phase II student rounds in anesthesia.
- 8.2.9. A minimum of 1 hour of lecture will be presented in Phase I and be observed by an anesthesiologist.
- 8.2.10. The resident will begin or continue the research project if funding has been obtained.

### **8.3. Year III Resident's Program**

- 8.3.1. Minimum of 30 weeks of clinical training
- 8.3.2. The resident will participate in the instruction of Phase II students and interns. Participation in SVM student laboratories will be assigned.
- 8.3.3. The resident will participate in house officer rounds, ward rounds, journal club, special topic conferences, seminars, and other scheduled conferences of the VTC. He/She will attend other scheduled seminars in the SVM as time permits.
- 8.3.4. The resident is encouraged to attend and participate in continuing education meetings sponsored by the SVM or by local and regional veterinary organizations.
- 8.3.5. The resident will participate in emergency duty under the supervision of the responsible anesthesiologist.
- 8.3.6. The resident will keep a case log as outlined by the ACVAA Residency Training Standards.
- 8.3.7. The resident will complete the graduate program requirements as outlined below.

- 8.3.8. The resident will hold a portion of the Phase II student rounds in anesthesia.
- 8.3.9. A minimum of 1 hour of lecture will be presented in Phase I and be observed by an anesthesiologist.
- 8.3.10. The resident will submit one manuscript based on their research project to a refereed journal for publication.
- 8.3.11. The resident will perform anesthesia emergency as backup for the hospital shared with the other anesthesiologists.
- 8.3.12. The resident will be assigned a minimum of 4 weeks as the primary anesthesiologist with faculty back up.

## **9. Graduate Program:**

Residents will be required to participate in the Master's Program of the Department of Veterinary Clinical Sciences. The master's degree is part of the SVM graduate program administered through the Department of Veterinary Clinical Sciences. Course work in VCS augments the clinical training and preparation for ACVAA boards.

### 9.1. Admission requirements:

- 9.1.1. Residents should have a current GRE score (within 5 years) with a combined verbal and quantitative GRE score of at least 300.
- 9.1.2. GPA of at least 3.00 based on a 4.00 grading system or equivalent
- 9.1.3. A satisfactory score on the Test of English as a Foreign Language (TOEFL) or the International English Testing System (IELTS). TOEFL score of at least 550 (paper-based), 213 (computer-based) or 79 (internet-based) or an IELTS score of 6.5 if English is not a first language.  
Demonstration of satisfactory verbal communication skills.

Application deadline to the LSU Graduate School Fall Semester is May 15, and for the spring semester is October 15. Admission requirements and additional information can be found in the VCS Graduate Handbook (<http://www1.vetmed.lsu.edu/VCS/PDFs%20and%20Word%20Docs/item68261.pdf>), and the LSU Graduate School web page (<http://sites01.lsu.edu/wp/graduateschool/>). Application to LSU graduate school can be made at the following link: [www.lsu.edu/gradapply](http://www.lsu.edu/gradapply).

The resident will select or be assigned a major professor. The major professor must be a member (associate or full) of the Department of Veterinary Clinical Sciences Graduate Faculty.

Resident should register for no more than 6 (six) credits per semester. Tuition expenses are covered by the program, however additional fees may apply.

## **10. Evaluation and Reappointment**

10.1. A written critique will be provided by the block mentor at the end of each assigned block through the E\*Value software. Every two weeks the house officer will assign a faculty mentor to evaluate them for their current rotation. That faculty member will then be able to write an evaluation. It is the resident's responsibility to assign these mentors through E\*Value. A summary evaluation will be made quarterly by the faculty in conjunction with the resident's advisor. The critique will cover:

10.1.1. Professional ability; to include theoretical knowledge and application of that knowledge, clinical skills, tutorial skills, and scholarly activity.

10.1.2. Hospital services; to include communication skills, patient care, medical record quality, emergency duty quality, and adherence to VTH&C protocol.

10.1.3. Personal characteristics; to include responsibility, initiative, interaction with faculty, staff and students, deportment and leadership

10.2. The resident will meet with his or her mentor on a quarterly basis to discuss their progress and written block evaluations.

10.3. In May of each year, the House Officer Committee will review the year's critiques. Following that review, the committee will make a recommendation to the Head of the Department of Veterinary Clinical Sciences to:

10.3.1.1. Continue the appointment for another year with or without probation

10.3.1.2. Award the certificate upon satisfactory completion of the program.

10.3.1.3. Not to reappoint the resident, with a minimum of 30 days' notice of termination. At the discretion of the House Officer Committee and in consultation with the resident's service, guidelines can be formulated that if met, may allow the resident to be re-instated at the end of the specified period.

10.4. The resident will be asked each year to make an assessment of the program with suggestions for improvement. The evaluation form will be handed out

and completed by the given deadline as a mandatory part of the requirements for continuation or completion of their program

## **11. House Officer Committee**

The committee is comprised of a representative of each house officer program, the VCS Head (ex officio), and the Director of the VTH (ex officio). It will be responsible for:

- 11.1. Annual review of the resident's progress (in the ninth month of each year).
- 11.2. Annual recommendation for reappointment of the resident or program completion

## **12. Employment and Benefits**

- 12.1. Louisiana State University classifies residents as University employees. As such, they (and their eligible dependents) qualify for the Louisiana State University Baton Rouge health insurance and retirement plans. The School of Veterinary Medicine also provides malpractice insurance coverage. *The salary (not a stipend) is published in the Directory of Internships and Residencies as published by the American Association of Veterinary Clinicians (www.virmp.org).* Salary is payable in monthly increments. Retirement contributions are withheld from each paycheck. No social security tax is withheld. Federal and state income tax is withheld. The resident may be eligible to petition the IRS for exemption from federal tax on part of his/her salary.
- 12.2. The Veterinary Teaching Hospital and Clinics operates year round. The resident will share with other house officers/technicians on emergency duty rotation. The rotation will commit the resident to a share of evening, weekend and holiday duty on a scheduled basis. Overall the resident will be assigned 96-120 after hours shift per year (includes weekday night, weekend day + night, holidays). When serving in the role of primary clinician the resident will be taken out of the primary on call rotation.
- 12.3. Reappointment to the second and third years of the residency program is contingent upon satisfactory completion of the previous year's requirements.
- 12.4. The University offers accrual of annual leave following either the University accrual rate (14 hrs/month with a maximum accumulation of 176 hours) or the Civil Service Schedule rate (8 hrs/month with no maximum accumulation). Sick leave time accrual is 8 hrs/month. All leave, except illness and emergencies, should be scheduled and approved 30 days in advance. The absence must be requested through "workday" and be approved by the

supervisor. Leave will be granted on an individual basis taking into account the reason for the requested absence and the needs of the service and hospital. Leave for personal business is to be taken during elective or research blocks. Emergency absence such as for illness or a death in the immediate family should be brought to the attention of the clinician to whom the resident is assigned as soon as the resident learns that he/she will be absent. The absent should be requested through workday as soon as possible.

12.5. International applicants will be responsible for VISA expenses.

### **13. Applications**

Candidates may apply for the Residency in Anesthesiology by submitting:

- 13.1. a standard residency online application (V.I.R.M.P. application), and/or
- 13.2. the following documents to the LSU-VCS:
  - 13.2.1. A statement of objectives for the residency and subsequent career goals.
  - 13.2.2. A transcript of his/her academic record.
  - 13.2.3. Three letters of reference from individuals currently familiar with the applicant's professional status.
  - 13.2.4. A curriculum vitae

## 14. Appendices

### 14.1. VCS House Officer Rounds Evaluation Form

House Officer: \_\_\_\_\_

Date: \_\_\_\_\_ Topic: \_\_\_\_\_

Evaluator: \_\_\_\_\_

	<b>Evaluation</b> E = excellent G = good N = needs improvement	<b>Comments</b>
<b>Case Selection</b>		
Complexity of case	_____	_____
Appropriate case follow-up	_____	_____
<b>Content</b>		
Format of presentation	_____	_____
Discussion	_____	_____
Conclusions	_____	_____
Use of problem-oriented approach	_____	_____
<b>Delivery</b>		
Clarity of speech	_____	_____
Rate of delivery	_____	_____
<b>Effectiveness of visual presentation</b>		
Use of visual aids	_____	_____
Body language/enthusiasm	_____	_____
<b>Questions handled appropriately</b>	_____	_____

**Additional Comments:**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## 14.2 VCS Seminar Evaluation

Presenter: \_\_\_\_\_ Date: \_\_\_\_\_

Audience: \_\_\_\_\_

Title/Topic: \_\_\_\_\_

<b>Evaluation Criteria:</b>	<b>Points</b>	<b>Evaluation</b>
1. Definition of Subject: introduction, importance, clinical significance	0-5 pts	_____
2. Organization:	0-15 pts	_____
3. Quality of material:	0-15 pts	_____
4. Presence: Speaking ability		
a. Clarity	0-10 pts	_____
b. Rate of delivery	0-10 pts	_____
c. Enthusiasm, expressiveness	0-10 pts	_____
5. Support materials:		
b. Visual aids	0-10 pts	_____
6. Appropriate summary?	0-5 pts	_____
7. Presentation consistent with audience level?	0-10 pts	_____
8. Questions/discussion handled appropriately?	0-10 pts	_____
	Total	_____

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Evaluator: \_\_\_\_\_





## 14.4 House Officer Evaluation Form

House Officer  
Block  
Block Mentor

Name  
Block  
Mentor

### Professional Ability

1. Theoretical Knowledge
2. Knowledge Application
3. Diagnostic/Surgical Skills
4. Patient Care
5. Thoroughness

Select Rating

---

Select Rating

Select Rating

Select Rating

Select Rating

### Personal Characteristics

1. Clinician Communication
2. Student Communication
3. Staff Communication
4. Independent Study & Initiative
5. Awareness of Current Literature
6. Contribution to Student Education
7. Performance Under Stress
8. Ability to Accept Criticism
9. Organizational Skills
10. Ability to Work in a Team
11. Reliability
12. Motivation
13. Attendance at Seminars & Rounds
14. Presentation at Seminars & Rounds
15. Ability to Make Independent Decisions

Select Rating

Select Rating

Select Rating

Select Rating

Select Rating

Select Rating

Select Rating

Select Rating

Select Rating

Select Rating

Select Rating

Select Rating

Select Rating

Select Rating

Select Rating

Select Rating

### Hospital Service

1. Completion of Duties
2. Quality of Work

Select Rating

Select Rating

- 3. Emergency Services Duties Select Rating
- 4. Communication with Veterinarians Select Rating
- 5. Client Communication Select Rating
- 6. Referral Letters & Record Keeping Select Rating
- 7. Acceptance of Service & Case Responsibility Select Rating
- 8. Adherence to VTH&C Protocol Select Rating

Strengths

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Source
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Improvements

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General Comments

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Type Signature

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No

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Save