RESIDENCY IN VETERINARY ANESTHESIA AND ANALGESIA

Louisiana State University
School of Veterinary Medicine
Department of Veterinary Clinical Sciences
Veterinary Teaching Hospital

Revised September 2016
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RESIDENCY PROGRAM
IN
ANESTHESIA

Louisiana State University
School of Veterinary Medicine
Department of Veterinary Clinical Sciences
Veterinary Teaching Hospital

1.0 INTRODUCTION

1.1 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.

2.0 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:

2.2 A broad understanding of veterinary anesthesiology and analgesia.

2.3 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.

2.4 Upon completion of training, An expert’s level of understanding in:

2.4.1 The anesthetic management of animal patients of all species for elective surgical and diagnostic procedures.

2.4.2 The anesthetic management of animal patients for emergency procedures, critical patient care and resuscitation.

2.4.3 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.
2.4.4 Patient monitoring and monitoring equipment

2.4.5 Pain management

2.4.6 Management of ventilation

2.4.7 Management of fluid therapy, electrolyte and metabolic disturbances

2.4.8 Local and regional anesthesia techniques

2.4.9 Diagnostic test results

2.4.10 Anesthesia equipment

2.5 To provide opportunity for residents to learn in-depth the fundamentals of basic science as applied to the practice of anesthesiology.

2.6 To provide experience in preanesthetic, perianesthetic and immediate postanesthetic care for animals in areas that constitute the components of veterinary anesthesiology.

2.7 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.

2.8 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.

2.9 To provide experience in designing and conducting clinical research projects and preparation and submission of scientific articles for publication and/or presentation.

2.10 To provide experience in presenting at national or international meetings and conferences.

2.11 To provide the opportunity to participate in graduate level courses relevant to the field of veterinary anesthesia and analgesia.

2.12 Prepare the resident for training and/or graduate study or entry into a high quality specialty practice or academic institution.

2.13 To satisfy the requirements to be eligible for examination by the American College of Veterinary Anesthesia and Analgesia.

3.0 PREREQUISITES
3.1 Candidates must 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 Candidates must have completed a one year rotating internship or one year of general clinical practice of veterinary medicine.

3.3 Candidates must satisfy the requirements for admission to the LSU Graduate School.

3.4 Candidates must have the goal to achieve board certification by the American College of Veterinary Anesthesia and Analgesia.

3.5 Candidates must have a satisfactory moral and ethical standing in the profession.

4.0 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). The responsibilities of the mentor include the direction and coordination of the clinical program, advise on research, publications, and preparation for Specialty Board examinations and general counseling.

5.0 HOUSE OFFICER ROUNDS AND SEMINAR PROGRAM

5.1 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).

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

5.3 One seminar will be prepared and given in each year of the residency. The option to do two seminars instead of a case report and a seminar is possible.

5.4 One seminar topic will relate to original research conducted by the resident.
5.5 Attendance: The resident is required to attend and participate in the following: VMED 7001 (VCS Seminar), Grand Rounds, House Officer Rounds, other seminars that are requirements of the resident’s home department and/or section.

5.5.1 VCS HO Rounds/Seminar Policy

5.5.1.1 HO attendance at all HO Rounds/Seminar sessions is required.

5.5.1.2 Attendance will be taken at the beginning of each session.

5.5.1.3 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.

5.5.1.4 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.

6.0 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.

7.0 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.

8.0 CLINICAL PROGRAM
8.1 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.

8.2 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.

8.3 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.

8.4 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.

8.5 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.

8.6 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.

8.7 Year I Resident’s Program

8.7.1 Minimum of 34 weeks of clinical training

8.7.2 The resident will participate in the instruction of Phase II students and interns. Participation in SVM student laboratories will be assigned.

8.7.3 The resident will participate in house officer rounds, ward rounds, journal club, special topic conferences, seminars, and other scheduled conferences of the VTH. He/She will attend other scheduled seminars in the SVM as time permits.
8.7.4 The resident is encouraged to attend and participate in continuing education meetings sponsored by the SVM or by local and regional veterinary organizations.

8.7.5 The resident will participate in emergency duty under the supervision of the responsible anesthesiologist.

8.7.6 The resident will keep a case log as outlined by the ACVAA Residency Training Standards.

8.7.7 The resident will complete the graduate program requirements as outlined below.

8.7.8 The resident is required to prepare a research proposal; review it with his/her faculty mentor, and submit it for funding consideration.

8.7.9 The resident will register with the ACVAA within 90 days of starting the program

8.8 Year II Resident's Program

8.8.1 Minimum of 30 weeks of clinical training

8.8.2 The resident will participate in the instruction of Phase II students and interns. Participation in SVM student laboratories will be assigned.

8.8.3 The resident will participate in house officer rounds, ward rounds, journal club, special topic conferences, seminars, and other scheduled conferences of the VTH. He/She will attend other scheduled seminars in the SVM as time permits.

8.8.4 The resident is encouraged to attend and participate in continuing education meetings sponsored by the SVM or by local and regional veterinary organizations.

8.8.5 The resident will participate in emergency duty under the supervision of the responsible anesthesiologist.

8.8.6 The resident will keep a case log as outlined by the ACVAA Residency Training Standards.

8.8.7 The resident will complete the graduate program requirements as outlined below.

8.8.8 The resident will hold a portion of the Phase II student rounds in anesthesia.
8.8.9 A minimum of 1 hour of lecture will be presented in Phase I and be observed by an anesthesiologist.

8.8.10 The resident will begin or continue the research project if funding has been obtained.

8.9 **Year III Resident’s Program**

8.9.1 Minimum of 30 weeks of clinical training

8.9.2 The resident will participate in the instruction of Phase II students and interns. Participation in SVM student laboratories will be assigned.

8.9.3 The resident will participate in house officer rounds, ward rounds, journal club, special topic conferences, seminars, and other scheduled conferences of the VTH. He/She will attend other scheduled seminars in the SVM as time permits.

8.9.4 The resident is encouraged to attend and participate in continuing education meetings sponsored by the SVM or by local and regional veterinary organizations.

8.9.5 The resident will participate in emergency duty under the supervision of the responsible anesthesiologist.

8.9.6 The resident will keep a case log as outlined by the ACVAA Residency Training Standards.

8.9.7 The resident will complete the graduate program requirements as outlined below.

8.9.8 The resident will hold a portion of the Phase II student rounds in anesthesia.

8.9.9 A minimum of 1 hour of lecture will be presented in Phase I and be observed by an anesthesiologist.

8.9.10 The resident will submit one manuscript based on their research project to a refereed journal for publication.

8.9.11 The resident will perform anesthesia emergency as backup for the hospital shared with the other anesthesiologists.

8.9.12 The resident will be assigned a minimum of 4 weeks as the primary anesthesiologist with faculty back up.

9.0 **RESEARCH PROJECT**

Not applicable
10.0 GRADUATE PROGRAM

10.1 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.

10.2 Requirements for admission to the LSU Graduate School are given in the current catalog under “Requirements for Advanced Degrees”. The resident should apply for admission to the Graduate School at the time of acceptance to the residency.

10.3 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. The resident and major advisor are responsible for the selection of a graduate committee (usually 3 members) by January of the first year.

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

11.0 ADDITIONAL OBJECTIVES

12.0 EVALUATION AND REAPPOINTMENT

12.1 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 member 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:

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

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

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

12.2 The resident and mentor will meet on a quarterly basis to discuss progress and written block evaluations.
12.3 At any time in the resident’s program, and at the latest in March of each year, the House Officer Committee will review all evaluations to date. Following that review, the committee will make a recommendation to the Head of the Department of Veterinary Clinical Sciences to:

12.3.1.1 Continue the appointment for another year with or without probation

12.3.1.2 Award the certificate upon satisfactory completion of the program.

12.3.1.3 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.

12.4 All House Officers are required to complete an annual evaluation of their program with suggestions for improvement before continuation or completion of their program is granted.

13.0 HOUSE OFFICER COMMITTEE

13.1 The Committee is comprised of a representative of each House Officer program. It is responsible for the year-end review of each house officer’s progress. This review is based on block evaluations received throughout the course of the program. The Committee grants recommendation for reappointment or a certificate to those who successfully complete the program.

13.2 All House Officers are required to complete an annual evaluation of their program with suggestions for improvement before continuation or completion of their program is granted.

14.0 EMPLOYMENT AND BENEFITS

14.1 Louisiana State University classifies interns and residents as University employees. As such, they (and their eligible dependents) qualify for the Louisiana State University Baton Rouge health insurance and benefits. The School of Veterinary Medicine 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 via direct deposit. Retirement contributions are required and withheld from each paycheck. No social security tax is withheld. Federal and state income tax is withheld. The employee may be eligible to petition the IRS for exemption from federal tax on part of his/her salary.
14.2 The Veterinary Teaching Hospital operates year round. House officers will share emergency duty with other house officers within their specialty. House Officers will also share evening, weekend and holiday duty on a scheduled basis.

14.3 The University offers accrual of annual time off following either the University accrual rate (14 hours/month with a maximum accumulation of 176 hours) or the Civil Service Schedule rate (8 hours/month with no maximum accumulation). Sick time off accrual is 8 hours/month. All time off, except for illness and emergencies, should be requested and approved 30 days in advance. Time off requests must be entered into Workday (via the employee’s MyLSU account) by the employee and approved by the supervisor before time off will be granted. Annual time off will be granted on an individual basis taking into account the reason for the requested absence and the needs of the service and hospital. Annual time off 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 House Officer is assigned as soon as the House Officer learns that he/she will be absent. The official request should be entered into Workday upon the House Officer’s return. Except in unusual circumstances, approval will not be granted for time off during the final month of the program.

14.4 Reappointment to the second and third years of the residency program is contingent upon satisfactory completion of the previous year's requirements.

15.0 APPLICATION

15.1 Candidates may apply for the Residency in Anesthesiology by submitting:
15.1.1 A standard residency application through www.virmp.org.
15.1.2 A statement of residency objectives and subsequent career goals.
15.1.3 Official academic transcripts.
15.1.4 Three letters of reference from individuals currently familiar with the applicant's professional status.
15.1.5 A curriculum vitae
## 16.1 HOUSE OFFICER ROUNDS EVALUATION FORM

House Officer: ___________________________    Date: _____________
Evaluator: _______________________________

<table>
<thead>
<tr>
<th>Evaluation</th>
<th>Comments</th>
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<tbody>
<tr>
<td>E=Excellent</td>
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<tr>
<td>G=Good</td>
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<tr>
<td>N=Needs Improvement</td>
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</table>

### Case Selection
- Complexity of case
- Appropriate follow-up

### Content
- Format of presentation
- Discussion
- Conclusions
- Use of problem-oriented approach

### Delivery
- Clarity of speech
- Rate of delivery

### Effectiveness of Visual Presentation
- Use of visual aids
- Body language and enthusiasm
- Questions handled appropriately

**Additional Comments:** ____________________________________________
____________________________________________________________________
____________________________________________________________________
____________________________________________________________________
VCS SEMINAR EVALUATION FORM

Presenter: __________________________  Date: ________________

Audience: ____________________________________________________________

Title/Topic: __________________________________________________________

Evaluation Criteria:

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<tr>
<th>Points</th>
<th>Evaluation</th>
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<td>Points</td>
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- Definition of subject: introduction, importance, clinical significance: 0-5
- Organization: 0-10
- Quality of material: 0-10

Presence: speaking ability

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<tr>
<th>Clarity</th>
<th>0-10</th>
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<tr>
<td>Rate of delivery</td>
<td>0-10</td>
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<tr>
<td>Enthusiasm, expressiveness</td>
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Support Materials

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<tr>
<th>Handouts, manuscript</th>
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<tr>
<td>Visual aids</td>
<td>0-5</td>
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<tr>
<td>Appropriate Summary</td>
<td>0-5</td>
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<tr>
<td>Presentation consistent with audience level</td>
<td>0-10</td>
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<tr>
<td>Questions/discussion handled appropriately</td>
<td>0-10</td>
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<tr>
<td>Total</td>
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Comments:

______________________________________________________________________

______________________________________________________________________

Evaluator: ____________________________
16.3 HOUSE OFFICER LEAVE REQUEST

I am requesting leave approval for the following dates and reasons:

1. To attend the meeting listed below.

_________________________________________________________________________

2. To attend to personal activities (illness, family emergency, vacation).

_________________________________________________________________________

3. To attend to official activities (out rotations, special circumstance requirements).

_________________________________________________________________________

INTERN/RESIDENT: ___________________________________________ Date:________

Print Sign

ADVISOR: ___________________________________________ Date:________

Print Sign

BLOCK MENTOR: ___________________________________________ Date:________

Print Sign

CHAIR HOC: ___________________________________________ Date:________

Print Sign
### House Officer Evaluation Form in E-Value

<table>
<thead>
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<th>Professional Ability</th>
<th>Needs Improvement</th>
<th>Satisfactory</th>
<th>Good</th>
<th>Excellent</th>
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<tr>
<td>Theoretical Knowledge</td>
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<td>Knowledge Application</td>
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<td>Skills</td>
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<td>Patient Care</td>
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<td>Thoroughness</td>
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<td>Communication with clinicians</td>
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<td>Communication with students</td>
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<td>Communication with staff</td>
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<td>Independent study &amp; initiative</td>
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<td>Awareness of current literature</td>
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<td>Contribution to student education</td>
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<td>Performance under stress</td>
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<td>Ability to accept criticism</td>
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<td>Organizational skills</td>
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<td>Ability to work in a team</td>
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<td>Reliability</td>
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<td>Motivation</td>
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<td>Attendance at seminars &amp; rounds</td>
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<td>Ability to make independent decisions</td>
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<td>Completion of duties</td>
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<td>Quality of work</td>
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<td>Emergency services duty</td>
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<td>Communication with veterinarians</td>
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<td>Client communication</td>
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<td>Referral letters &amp; record keeping</td>
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<td>Acceptance of service &amp; case responsibility</td>
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<td>Adherence to VTH protocol</td>
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**Strengths:**

**Areas for Improvement:**