RESIDENCY IN VETERINARY CARDIOLOGY

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

Revised September 2016
RESIDENCY PROGRAM
IN
VETERINARY CARDIOLOGY

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

1.0 INTRODUCTION

1.1 The cardiology residency at Louisiana State University, School of Veterinary Medicine (SVM) is designed to provide three years of post-DVM training in veterinary cardiology. The residency will fulfill the training requirements and fulfill the requirements for examination (certification) of the American College of Veterinary Internal Medicine, specialty of Cardiology. The training program will utilize faculty of the Department of Veterinary Clinical Sciences (VCS) as mentors. Clinical facilities of the Veterinary Teaching Hospital (VTH) will be the primary training location for the LSU portion of the residency.

2.0 OBJECTIVES

2.1 To provide advanced training in clinical problem solving and diagnostic and therapeutic techniques in veterinary cardiology.

2.2 To provide didactic and tutorial teaching training and experience.

2.3 To satisfy the requirements for examination by the American College of Veterinary Internal Medicine.

2.4 To provide experience in scientific and clinical case presentation through the seminar and house officer rounds program.

2.5 To provide experience in the preparation and submission of scientific articles for publication and/or presentation.

2.6 To provide experience in designing and conducting a clinical research project.

2.7 To provide opportunity to participate in graduate level courses that support and strengthen the clinical training program.

3.0 PREREQUISITES

3.1 Candidates must have a DVM or an equivalent degree.

3.2 Candidates must have satisfactorily completed at least a one year rotating small animal internship or its equivalent post graduate veterinary experience.
3.3 Candidates must have successfully completed the National Board examination or its equivalent in the certifying country.

3.4 Candidates must have the goal of board certification by the American College of Veterinary internal Medicine in the Specialty of Cardiology.

4.0 FACULTY MENTOR

4.1 The resident will be assigned to a faculty mentor who has diplomate status in the specialty of cardiology.

4.2 Responsibilities of the mentor include the direction and coordination of the clinical program, advise on research, publications, and preparation for Cardiology 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 2 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 2 seminars instead of a case report and a seminar is possible.

5.4 It is encouraged that the resident strives to choose topics and produces a manuscript suitable for publication based on the seminar topic.

5.5 One seminar topic will relate to original research conducted by the resident.

5.6 Attendance: The resident is required to attend and participate in the following: VMED 7001 (VCS Seminar), Grand Rounds, House Officer Rounds, AND other seminars that are requirements of the resident’s home department and/or section.

5.6.1 VCS HO Rounds/Seminar Policy

5.6.1.1 HO attendance at all HO Rounds/Seminar sessions is required. HO attendance is required at only those rounds and seminars designated as VCS HO Rounds/Seminar sessions and that others occurring in the same time slot are not required by the House Officer Committee.
5.6.1.2 Attendance will be taken at the beginning of each session.

5.6.1.3 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.

5.6.1.4 All absences must be accounted for by completing a HO Leave Request Form and submitting it to the HOC chair.

5.6.1.5 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 American College of Veterinary Internal Medicine, Specialty of Cardiology.

7.2 In order to qualify for examination the resident should refer to the published requirements of the college.

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 Year I Resident's Program

8.1.1 The resident will be assigned for 44 weeks on rotation with Cardiology, or Small Animal Medicine faculty members (ACVIM diplomates) teaching in the VTH. Cases will be assigned to the resident from both the general and referral practices at the discretion of the faculty mentor. 4 weeks of off-clinic time will be
assigned, and will be utilized for scholarly activity (research proposal preparation, seminar preparation, publication) and personal activity. 4 weeks will be utilized for rotation with the radiology service, small animal internal medicine service, or another veterinary cardiology program. Alternatively, it can be used for scholarly activity.

8.1.2 The resident will function as a veterinary cardiologist in the VTH with direct supervision and guidance from faculty in the diagnosis, treatment, and care of medical cases. The goal of this training will be to develop problem oriented skills in veterinary cardiology and to develop familiarity in each of the various techniques of cardiology.

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

8.1.4 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.

8.1.5 The resident will present 1 seminar (to faculty and house officers) on a topic of interest to the resident.

8.1.6 The resident may attend a major professional meeting at some point during the program with the advice and approval of his/her faculty mentor and the house officer committee. Expenses will be paid by the resident. The meeting must be scheduled during a non-clinical block.

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

8.1.8 The resident must register with the specialty college.

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

8.1.10 The resident may, with the approval of the resident's advisor and the medicine faculty, participate in clinically relevant graduate courses. Course work must not interfere with the clinical and instructional responsibilities of the resident.

8.2 Year II Resident's Program

8.2.1 The resident will be assigned for 42 weeks on rotation with Cardiology, faculty members (ACVIM diplomates) teaching in the VTH. 4 weeks will be scheduled for research activities, and 4 weeks will be scheduled for board preparation time just prior to the
ACVIM meeting (if the resident is not taking the general examination, these 4 weeks will be scheduled as clinical rotation time with Cardiology Faculty instead). 2 weeks will be scheduled for personal activity.

8.2.2 The resident will submit one paper suitable for publication to their mentor and the House Officer Chair by June 1. Topic considerations should be discussed with his/her mentor prior to working on the manuscript.

8.2.3 The resident should make applications for sitting examinations if applicable.

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

8.2.5 The resident is required to give at least 1 hour of didactic instruction in courses offered to veterinary students.

8.3 Year III Resident’s Program

8.3.1 The resident will be assigned for 40 weeks on rotation with Cardiology faculty members (ACVIM diplomates) teaching in the VTH. The resident is encouraged to rotate in a human cardiology facility for 2 weeks. 10 weeks will be scheduled for research and scholarly activities. 4 weeks out of those 10 weeks will be scheduled just prior to the ACVIM meeting (if the resident is not taking the certifying examination, these 4 weeks will be scheduled as clinical rotation time with cardiology faculty instead). 2 weeks will be scheduled as Elective time, which may be used for attending an international human cardiology meeting (with prior approval of the cardiology faculty), elective clinical rotations in the VTH, or research activities.

8.3.2 The resident will submit one paper suitable for publication to their mentor and the House Officer Chair by June 1.

8.3.3 The resident should make applications for sitting examinations if applicable.

8.4 Outside Rotations

8.4.1 The resident is encouraged to spend a 2-weeks away from LSU in pursuit of this training during the residency during the 3rd year.

8.4.2 The arrangements for the outside rotation are left up to the resident but the plan must be approved in advance by the resident’s mentor and the cardiology faculty.

8.4.3 The following requirements must be met by the resident during or upon return from an outside rotation: The resident must submit a written evaluation of the outside rotation to the cardiology faculty. A
seminar on a topic pertaining to the outside rotation will be given to
the cardiology faculty.

9.0 RESEARCH PROJECT
The Department of Veterinary Clinical Sciences requires its residents to
participate in scholarly activity such as basic, applied or clinical research. To that
end the resident is required to:

9.1 Design a research project to address a specific question or problem in the
discipline

9.2 Write a research grant proposal that may be used to seek funding for the
project.

9.3 Conduct the research according to the experimental design

9.4 Analyze and report the results of the project

9.5 Publication of these results in a refereed journal is strongly encouraged

10.0 GRADUATE PROGRAM
Not applicable to this program

11.0 ADDITIONAL OBJECTIVES
Not applicable to this program

12.0 EVALUATION AND REAPPOINTMENT

12.1 An evaluation will be provided by the block mentor at the end of each
assigned block though the E*Value software. A summary evaluation will
be made quarterly by the faculty in conjunction with the resident’s advisor.
The evaluation covers:

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 will meet with his or her mentor on a quarterly basis to
discuss their 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 Office 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 Continue the appointment until the next review.

12.3.2 Award the certificate upon satisfactory completion of the program.

12.3.3 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 Veterinary Cardiology by completing:
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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<td>G=Good</td>
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<td>N=Needs Improvement</td>
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### 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:

_________________________________________________________________________________

_________________________________________________________________________________

_________________________________________________________________________________
**16.2 VCS SEMINAR EVALUATION FORM**

**Presenter:** ___________________________  **Date:** ______________

**Audience:** ____________________________________________________________

**Title/Topic:** __________________________________________________________

**Evaluation Criteria:**

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<th>Evaluation</th>
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**Definition of subject: introduction, importance, clinical significance**

**Organization**

**Quality of material**

**Presence: speaking ability**

- **Clarity**
- **Rate of delivery**
- **Enthusiasm, expressiveness**

**Support Materials**

- **Handouts, manuscript**
- **Visual aids**
- **Appropriate Summary**
- **Presentation consistent with audience level**
- **Questions/discussion handled appropriately**

**Comments:**

______________________________________________________________________

______________________________________________________________________

______________________________________________________________________

**Evaluator:** ___________________________
16.3 HOUSE OFFICER LEAVE REQUEST

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: ____________

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<tr>
<th>Professional Ability</th>
<th>Needs Improvement</th>
<th>Satisfactory</th>
<th>Good</th>
<th>Excellent</th>
<th>Not Applicable</th>
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<td>Theoretical Knowledge</td>
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<td>Knowledge Application</td>
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<td>Skills</td>
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<td>Thoroughness</td>
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<td>Individual Characteristics</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>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>Ability to make independent decisions</td>
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<td>Hospital Service</td>
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<td>Emergency services duty</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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**Strengths:**

**Areas for Improvement:**