

# **RESIDENCY IN THERIOGENOLGY**

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

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**RESIDENCY PROGRAM  
IN  
VETERINARY THERIOGENOLOGY**

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**1.0 INTRODUCTION**

**1.1** The Theriogenology residency at Louisiana State University School of Veterinary Medicine (SVM) is designed to provide three years of post-DVM training in Theriogenology. This will partially fulfill the requirements for examination (certification) by the American College of Theriogenologists. The training program will utilize faculty of the Department of Veterinary Clinical Sciences (VCS) and other participating departments as mentors. Clinical facilities of the Veterinary Teaching Hospital (VTH) will be the primary training location.

**2.0 OBJECTIVES**

- 2.1** To prepare a candidate to write the board examination of the American College of Theriogenologists (ACT).
- 2.2** To provide an opportunity to complete a Master's degree (Thesis option) through the Graduate School and the School of Veterinary Medicine if desired.
- 2.3** To provide training and experience in didactic and tutorial teaching.
- 2.4** To provide the opportunity to experience advanced training in diagnostic and therapeutic techniques in theriogenology.
- 2.5** To provide experience in conducting clinical research.
- 2.6** To provide experience in the preparation of scientific articles for publication and/or presentation.
- 2.7** To become familiar with other areas of theriogenology, such as genetic engineering, semen preservation; hormone assay techniques; laboratory, zoo and marine animal reproduction through participation in seminars, short courses, field trips and special problem assignments offered by other departments at LSU.

**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 large animal internship or equivalent post-graduate veterinary experience.
- 3.3 Candidates must have successfully completed the National Board Examination or its equivalent and a State Board examination or its equivalent.
- 3.4 Candidates should have the goal of board certification by the American College of Theriogenologists.
- 3.5 Candidates must be academically acceptable for admission to the Graduate School in the Department of Veterinary Clinical Sciences if a Master of Sciences Degree is to be pursued.

#### **4.0 FACULTY MENTOR**

- 4.1 The resident will be assigned to a faculty mentor who has Diplomate status in the ACT. Responsibilities of the mentor include direction and coordination of the clinical program; advise on research, publications, preparation for board examination; and general counseling. The faculty mentor may or may not be the graduate advisor, but will work in conjunction with the resident's graduate committee.

#### **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 and to develop manuscripts for publication. The resident will participate with other VCS house officers on a rotating basis and will make at least 1 case presentation in House Officer Rounds during the year.
- 5.2 The House Officer Seminar series is designed to provide the resident with the opportunity to research and present scientific material to professional colleagues.
- 5.3 One seminar will be presented and given in each year of the residency. In the final year, the seminar topic will relate to original research conducted by the resident.
- 5.4 An SVM faculty member(s) will be selected by the resident to mentor both case presentations and seminar preparation.
- 5.5 Attendance: The resident is required to attend and participate in the following: VMED 7001: VCS Seminar, Grand Rounds, House Officer Rounds

##### **5.5.1 VCS HO Rounds/Seminar Policy**

- 5.5.1.1** HO attendance at all HO Rounds/Seminar sessions is required. HO attendance is required at only those rounds and seminars designated as VCS HO Round/Seminar sessions and that others occurring in the same time slot would not be required by the HOC.
- 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 during the program year.
- 5.5.1.4** All absences must be accounted for by completing a HO Leave Request Form and submitting it to the HOC chair.
- 5.5.1.5** 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 adviser.

## **6.0 TEACHING PROGRAM**

- 6.1** Throughout the program residents will be viewed as role models by both interns and professional students. The resident will participate in clinical instruction and in the evaluation of Phase II veterinary students assigned to theriogenology. They will also participate in the didactic and laboratory teaching of Phase I students. Each 2<sup>nd</sup> and 3<sup>rd</sup> year resident will present a minimum of one hour of didactic lecture to SVM students under VCS faculty supervision.

## **7.0 BOARD CERTIFICATION**

- 7.1** An important credential in veterinary clinical medicine is board certification in a specialty. One of the objectives of the program is to prepare the resident for certification by the American College of Theriogenologists. In order to qualify for examination the resident should be committed to the preparations early in the first year of residency.

## **8.0 CLINICAL PROGRAM**

The resident's program will follow the Phase II professional teaching schedule which is comprised of 12 four week blocks.

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

- 8.1.1** The resident will be assigned for a minimum equivalent of 9 of 12 blocks on rotation with theriogenology faculty members teaching in

the VTH and in the field. Cases in the VTH and field trips will be assigned to the resident at the discretion of the faculty members. The resident will be assigned to equine medicine, equine or equine ambulatory for one of the 12 blocks during the first year. The remaining 2 blocks in year 1 (or 3 blocks in Years 2 and 3) may be used for electives or research. Non-clinical time will be scheduled, and utilized for scholarly activity (research, seminar preparation, publication, and preparation for board examination) or annual leave. A minimum of ½ day per week should be devoted to literature review.

- 8.1.2** The resident will function as a veterinary clinician in the VTH with guidance from faculty in the diagnosis, treatment and care of theriogenology cases. The resident will assume primary responsibility (with faculty guidance and support) for in-house cases.
- 8.1.3** The resident will participate in the instruction of Phase II students and interns. The resident will participate in laboratories for VMED 5361 (Phase I students). Participation will initially be in the role of assistant and evolve to that of a primary instructor.
- 8.1.4** The resident will participate in the emergency duty service of the VTH in an equitable manner.
- 8.1.5** The resident will participate in clinician's ward rounds, the journal club, special topic conferences, seminars, and other scheduled conferences relating to reproduction in the SVM and other colleges as time permits. Regular journal review sessions and resident/faculty case records and conferences will be scheduled in addition to those scheduled with professional students.
- 8.1.6** The resident will be expected to display clinical competency skills in theriogenology in the domestic species. An area of special interest may be expressed by the third semester for more in depth involvement.
- 8.1.7** If pursuing an MS degree, the resident will enroll in the Graduate School and schedule courses as directed by resident's Graduate Committee. No more than 6 credit hours may be taken during any one semester or summer session.
- 8.1.8** The resident may attend one major professional meeting per year with the advice and approval of the resident's faculty mentor. Expenses will be paid by the resident. There may be a monetary travel allotment each year depending on departmental budgets and level of participation at the meeting (e.g. presenting attendee)

**8.1.9** The resident is encouraged to attend continuing education meetings sponsored by the SVM and by local and regional veterinary organizations.

**8.1.10** The resident may attend short courses and seminars related to theriogenology in other departments at LSU.

**8.1.11** If pursuing the MS degree, the resident shall choose a graduate major and advisor during the first semester.

**8.1.12** The resident shall attend the didactic lectures for VMED 5361.

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

**8.2.1** The resident will be assigned for a minimum equivalent of 9 of 12 blocks on rotation with theriogenology faculty members teaching in the VTH and in the field. Cases in the VTH and field trips will be assigned to the resident at the discretion of the faculty members. The remaining equivalent 3 blocks may be used for electives or research. Non-clinical time will be scheduled, and utilized for scholarly activity (research, seminar preparation, publication, and preparation for board examination) or annual leave. A minimum of ½ day per week should be devoted to literature review.

**8.2.2** See sections 8.1.2 through 8.1.7 above

**8.2.3** If pursuing the MS degree, the resident will be encouraged to initiate the Master's research project by the third semester. The project will be designed and funding sought by the resident.

**8.2.4** If pursuing the MS degree, the resident should continue graduate studies as directed by the graduate committee. No more than 6 credit hours may be taken during any one semester or summer session.

**8.2.5** The resident, if qualified, is encouraged to make application for the ACT examination. For specific requirements see the ACT website: [www.theriogenology.org](http://www.theriogenology.org) (click Becoming a Diplomate, then General Information Guide). It is solely the responsibility of the resident to submit any material and fees required by the college for registration for board examinations.

**8.2.6** See sections 8.1.9 through 8.1.10 above

**8.2.7** The resident will prepare and present at least one hour of didactic lecture to Year III students in VMED 5361.

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

**8.3.1** See sections 8.1.1 through 8.1.9

**8.3.2** The resident must complete graduate studies if enrolled in a MS Program. No more than 6 credit hours may be taken a semester. This should include a thesis to fulfill the requirements of the Graduate School.

**8.3.3** The resident, if qualified, will make application for the ACT Examination before March 1 if this was not done in Year II.

**8.3.4** The resident will submit one paper to a refereed journal for publication with a VCS faculty member(s) as a co-author(s). The article may be derived from a literature review for a seminar or from another source (e.g. noteworthy case report).

**8.3.5** See 8.2.7

## **9.0 RESEARCH PROJECT**

**9.1** The program requires its residents to participate in scholarly activity such as basic or applied research. The therioenology resident must be able to:

**9.1.1** Design a research project to address a specific question or problem relating to therioenology.

**9.1.2** Write and submit a research grant proposal to seek funding for the project.

**9.1.3** Conduct the research according to the experimental design.

**9.1.4** Analyze and report the results of the project in thesis form and in a refereed journal.

## **10.0 GRADUATE PROGRAM**

**10.1** The graduate academic program is considered to be an important adjunct to the residency program. Enrollment will produce a more balanced educational experience, which will prepare the resident for an academic career as a member of the clinical faculty of a school or college of veterinary medicine. The graduate program is not required, but is encouraged.

**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** All MS graduate students must complete a minimum of 30 credit hours of graduate courses, a final examination and a thesis. Course requirements include:
- 10.3.1** A minimum of 12 hours of graduate work must be at the 7000 level or greater.
  - 10.3.2** A minimum of 10 hours of course credit must be from VCS courses
  - 10.3.3** A minimum of 6 hours of research/thesis credit must be completed (only 6 hours counted towards degree)
  - 10.3.4** A maximum of 4 hours of seminar (VCS 7001) may be applied toward the MS degree
  - 10.3.5** A maximum 8 hours of special topics (VCS 7003) may be applied toward the MS degree
  - 10.3.6** A minimum of 8 hours of non-VCS courses
- 10.4** The resident shall choose a major advisor. The resident and major advisor are responsible for the selection of a graduate committee (usually 3 members) by January of the first year.

## **11.0 ADDITIONAL OBJECTIVES**

### **11.1 Reproductive Technology and Research Facilities Available at LSU**

- 11.2** Genetic Engineering including embryo collection, embryo splitting, gene manipulation, embryo freezing and transfer - all species.
- 11.2.1** Dr. Ken Bondioli (Associate Professor of Animal Science)
- 11.3** Endocrinology Research Labs:
- 11.3.1** Faculty: Dr. Donald L. Thompson, Jr. ( Prof. Animal Science)
- 11.4** Embryology, Histology and Electron Microscopy of Reproductive tract:
- 11.4.1** Faculty: Dr. F. Kareem Al-Bagdadi (Veterinary Anatomy)
  - 11.4.2** Dr. John W. Lynn (Zoology)
- 11.5** Flow Cytometry
- 11.5.1** Dr. Jill Jenkins (USGS)
  - 11.5.2** Marily Dietrich (PBS)

## **12.0 EVALUATION AND REAPPOINTMENT**

**12.1** An evaluation will be provided by the block mentor at the end of each assigned block through the E\*Value software. A summary evaluation will be made quarterly by the Theriogenology 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, department and leadership.

**12.2** The resident and mentor will meet on a quarterly basis to discuss progress and 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** Continue the appointment until the next review

**12.3.2** Award a 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](http://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 Theriogenology by completing:
- 15.1.1** A standard residency application through [www.virmp.org](http://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.
  - 15.1.6** A GRE score less than five years old if admission to graduate school is sought.

## 16.0 APPENDICES

### 16.1 HOUSE OFFICER ROUNDS EVALUATION FORM

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

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

|   | <b><u>Evaluation</u></b><br>E=Excellent<br>G=Good<br>N=Needs<br>Improvement | <b><u>Comments</u></b> |
|---|---|------------------------|
| <b>Case Selection</b>                       |   |                        |
| Complexity of case                          |   |                        |
| Appropriate 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 and enthusiasm                |   |                        |
| Questions handled appropriately             |   |                        |

**Additional Comments:** \_\_\_\_\_

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## 16.2 VCS SEMINAR EVALUATION FORM

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

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

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

**Evaluation Criteria:**

|   | Points       | Evaluation |
|---|--------------|------------|
| <b>Definition of subject: introduction, importance, clinical significance</b> | <b>0-5</b>   |            |
| <b>Organization</b>   | <b>0-10</b>  |            |
| <b>Quality of material</b>  | <b>0-10</b>  |            |
| <b>Presence: speaking ability</b>   |              |            |
| <b>Clarity</b>  | <b>0-10</b>  |            |
| <b>Rate of delivery</b>   | <b>0-10</b>  |            |
| <b>Enthusiasm, expressiveness</b>   | <b>0-10</b>  |            |
| <b>Support Materials</b>  |              |            |
| <b>Handouts, manuscript</b>   | <b>0-15</b>  |            |
| <b>Visual aids</b>  | <b>0-5</b>   |            |
| <b>Appropriate Summary</b>  | <b>0-5</b>   |            |
| <b>Presentation consistent with audience level</b>                            | <b>0-10</b>  |            |
| <b>Questions/discussion handled appropriately</b>                             | <b>0-10</b>  |            |
|   | <b>Total</b> |            |

**Comments:**

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



## 16.4 HOUSE OFFICER BLOCK EVALUATION FORM (E-Value)

| <u>House Officer Evaluation Form in E-Value</u> | Needs Improvement | Satisfactory | Good | Excellent | Not Applicable |
|---|-------------------|--------------|------|-----------|----------------|
| <b>Professional Ability</b>                     |                   |              |      |           |                |
| Theoretical Knowledge                           |                   |              |      |           |                |
| Knowledge Application                           |                   |              |      |           |                |
| Skills  |                   |              |      |           |                |
| Patient Care                                    |                   |              |      |           |                |
| Thoroughness                                    |                   |              |      |           |                |
| <b>Individual Characteristics</b>               |                   |              |      |           |                |
| Communication with clinicians                   |                   |              |      |           |                |
| Communication with students                     |                   |              |      |           |                |
| Communication with staff                        |                   |              |      |           |                |
| Independent study & initiative                  |                   |              |      |           |                |
| Awareness of current literature                 |                   |              |      |           |                |
| Contribution to student education               |                   |              |      |           |                |
| Performance under stress                        |                   |              |      |           |                |
| Ability to accept criticism                     |                   |              |      |           |                |
| Organizational skills                           |                   |              |      |           |                |
| Ability to work in a team                       |                   |              |      |           |                |
| Reliability                                     |                   |              |      |           |                |
| Motivation                                      |                   |              |      |           |                |
| Attendance at seminars & rounds                 |                   |              |      |           |                |
| Presentation at seminars & rounds               |                   |              |      |           |                |
| Ability to make independent decisions           |                   |              |      |           |                |
| <b>Hospital Service</b>                         |                   |              |      |           |                |
| Completion of duties                            |                   |              |      |           |                |
| Quality of work                                 |                   |              |      |           |                |
| Emergency services duty                         |                   |              |      |           |                |
| Communication with veterinarians                |                   |              |      |           |                |
| Client communication                            |                   |              |      |           |                |
| Referral letters & record keeping               |                   |              |      |           |                |
| Acceptance of service & case responsibility     |                   |              |      |           |                |
| Adherence to VTH protocol                       |                   |              |      |           |                |
| <b>Strengths:</b>                               |                   |              |      |           |                |
| <b>Areas for Improvement:</b>                   |                   |              |      |           |                |