



RESIDENCY TRAINING PROGRAM REGISTRATION
2018-2019
NEUROLOGY

Part One

New applications for ACVIM Residency Training Programs must be received by the Residency Training Committee 90 days prior to any residents beginning training. Before completing this form, please review the general and specific requirements for Neurology Residency Training Programs in the ACVIM Certification Manual (CM). The most current version of the CM is available on the ACVIM website at www.ACVIM.org. If there is a discrepancy between this form and the CM, the CM will be considered correct, however, please contact the ACVIM office or the Residency Training Committee Chairperson for clarification.

Prior to making significant changes in a Residency Training Program, approval of the ACVIM and Neurology Residency Training Committee must be obtained. The Candidate and/or Program Director must notify ACVIM, in writing. Significant changes could include, but are not limited to: changes in Program Director or advisors, transferring from one program to another, alterations in program duration, locations of secondary site training, switching to a 'dual board' program, or enrolling in an institutional graduate program.

Notice: This form contains questions for three separate purposes; data collection that ACVIM must maintain for its accreditation as a specialty college; data collection for each specialty to evaluate what is appropriate for residency programs; and data collection to evaluate this Residency Training Program for renewal. It is important that all questions be answered accurately and completely, even if the answer to a specific question is not essential for a program's renewal.

For multi-site residency programs: To ensure uniformity of training and compliance with current CM requirements, training programs that include multiple sites must provide detailed information regarding supervision and facilities available at each specific site(s). Multi-site programs, if any, are listed in Part Two.

Program Director Name :

(Must be a Diplomate of ACVIM in the Specialty of Neurology or an approved Diplomate of the European College of Veterinary Neurology)

Program Director's Contact Information:

Work Phone:	<input type="text" value="(662) 325-3432"/>
E-mail:	<input type="text" value="shores21@aol.com"/>
Mailing Address:	<input type="text" value="Dept. of Clinical Sciences
College of Veterinary Medicine
Mississippi State, MS 39762"/>

1. Location of Sponsoring Institution (Primary Site of Training Program):

Primary Site and Length of Program:

Multi-site programs, if any, are listed in Part Two.

2. Resident Advisor(s): Must be a Diplomate of ACVIM in the Specialty of Neurology or a Diplomate of ECVN.

[Andrew Shores](#)

3. Supervising Diplomates in Neurology: Must be a Diplomate of ACVIM in the Specialty of Neurology or a Diplomate of ECVN.

[Andy Shores - Neurology](#)

[Michaela Beasley - Neurology](#)

4. All Diplomates of ACVIM or ECVIM responsible for supervision of clinical training who are specialists in areas other than Neurology.

[Sharon Grace - SAIM](#)

[Cyprianna Swiderski - LAIM](#)

[Andrew Mackin - SAIM](#)

[Patty Lathan - SAIM](#)

[Kari Lunsford - SAIM](#)

[Todd Archer - SAIM](#)

[John Thoamson - SAIM](#)

[Alyssa Sullivant - SAIM](#)

5. Residents currently participating in your training program, along with the beginning date of the program, expected ending date of the program, and designated Resident Advisor.

Resident Name, Dates of Program, (Resident Advisor)
Will Kay 7.15.15 - 7.14.18 (Andrew Shores)
Erica Burkland 7.15.2018 - 7.14.2019 (Andrew Shores)
Alison Little 7.15.17 - 7.14.20 (Andrew Shores)

Please note, any Program Director or Candidate that significantly changes or alters their Residency Training Program before completion must notify ACVIM, in writing, before the changes are made to ensure that the proposed changes are approved.

Significant changes could include, but are not limited to:

- **transferring from one program to another**
- **alterations in program duration**
- **switching to a 'dual board' program**
- **enrolling in an institutional graduate program**
- **change of Program Director or Resident Advisor**



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Part Two

Part Two of the Neurology Residency Training renewal process addresses general features of the program that apply to all current residents. These questions will be used to provide the Residency Training Committee with information needed to judge the structure, quality, scope, and consistency of training provided.

Current Date: 19 Feb 2018

Program Director Name: Andy Shores

(Must be a Diplomate of ACVIM in the Specialty of Neurology or an approved Diplomate of the European College of Veterinary Neurology)

Name of Sponsoring Institution (Residency Training Program): Mississippi State University College of Veterinary Medicine

1. For multi-site residency programs: To ensure uniformity of training and compliance with current Certification Manual (CM) requirements, training programs that include multiple sites must provide detailed information regarding supervision and facilities available at each specific site(s).

Secondary Site/Outside Rotations (if applicable):

(Please include the following for each site: Supervising Diplomate (ACVIM or other specialty), amount of time scheduled at the site and training requirements to be met.

[Empty text box for site details]

2. Length of Training Program:

Form with checkboxes for 2 years, 3 years, and Other -provide details. 3 years is checked.

3. Advanced Degree:

Form with checkboxes for Masters and PhD under Yes, No, and Optional columns. Optional is checked for both.

Briefly explain how the degree is integrated into the residency program:

Residents may elect to enroll in graduate school with supervising diplomate as grauate mentor; classes include

inhouse (CVM) and on campus; thesis and non-thesis options are available

4. Please list all ACVIM Supervising **Diplomates** (Cardiology, Large Animal Internal Medicine, Neurology, Oncology, Small Animal Internal Medicine, ECVIM, or ECVN Diplomates) providing supervision off-site and explain the situation and the agreements provided for contact with the resident. (Note, in Part One, current ACVIM Supervising Diplomates are included; and you are requested to provide additional comments for off-site supervision here).

Name of Diplomate(s)	Comments

5. Please list all **Diplomates** of the American College of Veterinary Pathology or the European College of Veterinary Pathologists in the areas of clinical pathology or gross/histopathology associated with residency training. If off-site, please explain the situation, and the method of providing direct contact with the resident.

Name of Diplomate(s)	Clinical or Gross	Comments
Matthew Willimas	Clinical	Adjunct faculty -- provides clinical path training at his facility - Williams Veterinary Diagnostics, Vero Beach, FL
William Maslin	Gross	
Tim Morgan	Gross	
Wes Baumgartner	Gross	
Alicia Olivier	Gross	

6. Please list all **Diplomates** of the American College of Veterinary Radiology or the European College of Veterinary Diagnostic Imaging associated with residency training. If off-site, please explain the situation, and the arrangements for direct contact with the resident.

Name of Diplomate(s)	Comments
Erin Brinkman	ACVR
Jen Gambino	ACVR

7. Please list all **Diplomates** available for consultation in the areas of dermatology, surgery, ophthalmology, anesthesiology, emergency/critical care, clinical nutrition, clinical pharmacology, behavior, and/or theriogenology. If off-site, please explain the situation and the arrangements provided for contact with the resident.

Name of Diplomate(s)	Specialty	Comments
Ron McLaughlin	ACVS	
Jason Syrcle	ACVS	
Ryan Butler	ACVS	
Robert Meyers	ACVAA	
Vernon Langston	CLIN PHARM	
Richard Hooper	THERIO	
Jack Smith	THERIO	
Juli Gunter	ACVD	

Caroline Betbeze Claudio Natalini	ACVO ACVAA	
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8. Please list the residents who have completed the training program within the last five years, including the year that each individual's training program ended and whether the individual has completed the Board certification process.

Name(s)	Program End Date (mm/dd/yyyy)	Diplomate? (Yes or No)
Nora Ortinau	14 July 2012	YES
Michaela Beasley	14 July 2012	YES
Jennifer Rich	14 July 2014	YES
Simon Kornberg	14 July 2015	YES
G. A. Garcia	14 July 2016	YES
Maria Perez-Hernandez	14 July 2017	NO

9. Please list the residents currently participating in your training program, along with the beginning date of the program, expected ending date of the program, and designated resident advisor.

Resident Name(s) (first/last)	Length of Program (in years)	Program Start Date (mm/dd/yyyy)	Program End Date (mm/dd/yyyy)	Resident Advisor Name(s)
Will Kay	3	7.15.15	7.14.18	A. Shores
Erica Burkland	3	7.15.16	7.14.19	A. Shores
Alison Little	3	7.15.17	7.14.20	A. Shores

The following questions will be used to provide the Residency Training Committee with information needed to judge the structure, quality, scope, and consistency of training provided.

NOTE: Direct supervision is required during clinical training, with the time required specified by each particular specialty. Direct supervision is defined as follows: The Supervising Diplomate and resident are participating in a clinical practice in which both the Diplomate and the resident are on duty and interactively and concurrently managing cases. The Diplomate need not personally examine each patient seen by the resident, but must remain physically available for consultation. Please use this definition when responding to the following questions regarding clinical rotations.

10. Is this a traditional or non-traditional residency training program? A traditional neurology residency is a two (2) or three (3) year postgraduate training program, with a minimum of ninety six (96) weeks of supervised clinical training with a majority of the time spent at one location. A non-traditional neurology residency allows for training that may occur in non-contiguous blocks of time over an extended time period.

Traditional	<input checked="" type="checkbox"/>
Non-traditional	<input type="checkbox"/>

For non-traditional programs, please provide a detailed description of the residency program, including length of program, proposed annual schedule, and the amount of time of direct Diplomate supervision for each location of the residency.

11. The ACVIM Neurology Certification Manual (CM) requires that each resident experience 75 weeks (minimum) of clinical Neurology training under the supervision of either a Diplomate of ACVIM in the Specialty of Neurology or a

Diplomate of ECVN. The 75 weeks should include at least 50 weeks of direct supervision (see definition in CM) and the remainder as indirect supervision (indirect supervision is satisfied by the Supervising Diplomate Neurologist being available for face-to-face contact with the resident at least 4 days per week).

Please provide an outline of planned yearly schedule, including number of weeks of direct and indirect supervision (i.e. in year 1, the resident will be directly supervised for 25 weeks etc.) A table similar to the example below outlining the proposed weekly schedule of duties for the residents should be provided:

EXAMPLE TABLE ONLY:

	Year I	Year II	Year III
Medical Neurology *			
Neurosurgery			
Neurology/Neurosurgery Direct Supervision	36	36	
Neurology/Neurosurgery - Indirect Supervision			34
Internal Medicine	4	2	2
Clinical Pathology	2		
Radiology	2		
Neuropathology		2	2
Other Rotation (please list the name of each rotation)			
_____		1	
_____	2	4	4
Research	4	5	8
Independent Study			
Vacation	2	2	2
Total	52	52	52

Numbers indicated are in “weeks”.

* Many residencies are a combined neurology / neurosurgery program with no distinct separation between the services. Some programs, however, have separate training with a surgery service and this example includes that possibility in describing the weekly rotations.

The example table is only a listing of a proposed weekly schedule for each of the three years of a typical 3-year residency program, including all that is required by ACVIM without making any specific recommendations.

Please indicate the outline of planned yearly schedule here:

	Year I	Year II	Year III
Medical Neurology *			
Neurosurgery			
Neurology/Neurosurgery - Direct Supervision	38	32	10
Neurology/Neurosurgery - Indirect Supervision			24
Internal Medicine	2	4	
Clinical Pathology	2		
Radiology	2		
Neuropathology		2	
Other Rotation (please list the name of each rotation):			

Other: Surgery	2	4	
Other:			
Research	4	4	8
Independent Study		4	8
Vacation	2	2	2
Total *	52	52	52

*The totals should add up to 52 weeks.

12. Describe how daily clinical case rounds are conducted and supervised:

Daily case rounds are conducted with the residents by the program director after initial morning assessments. Daily clinical rounds are held every morning at 8:00 and evenings at 4:30. All residents are in attendance when on duty and the faculty member is there (Shores / Beasley). Responsibility for leading the rounds is on a rotating basis. In addition, the residents are responsible for a once weekly topic rounds with the students. Topics are developed by the residents under the guidance of the resident advisor / faculty. The residents share this weekly responsibility on a rotating basis. Resident rounds are held weekly.

13. The neurology specialty requires that the resident spend at least 50 hours during the residency in the following rotations: Radiology, Clinical Pathology, Neuropathology and Neurosurgery. A Training Agreement Form must be completed and signed by the Diplomate supervising the required training, regardless of whether the training occurs on site or off-site. **Please use the standardized “Training Agreement Form” found on the ACVIM website (www.ACVIM.org) to document proof of supervision for all required contact hours (clinical pathology, radiology, neuropathology surgery, etc.) in rotations other than neurology.** 1 Training Agreement form is required per rotation per resident at the beginning of the residency. Forms do not need to be resubmitted each year as long as a valid Training Agreement Form is on file.

In addition, please provide a brief description of how each phase of this required training is accomplished.

Radiology: 50 hours with a Board-certified radiologist interpreting radiographs, attending seminars and participating in and evaluating the results of special radiographic procedures.

In the three years of on clinics time there is an extraordinary amount of time spent in radiology interpreting special procedues as well as routine neuro-radiography. At least one, two-week rotation with the board certified radiologist is required during the last 3 years. Reading of radiographs is open to all residents and interns in the morning and is actively participated in when time and scheduling allow In addition, monthly joint Neurology / Diagnostic Imaging Rounds are held..

Clinical Pathology: 50 hours with a Board-certified pathologist or clinical pathologist evaluating clinical pathologic findings, attending clinicopathologic conferences, and examining surgical sections.

The resident in this program will be required to spend a minimum of 2 weeks with the board-certified clinical pathologist on a regular rotation and this includes evaluation of clin path findings, attending CPCs, and examining surgical sections.(Dr. Matt Williams, DVM; DACVCP at Williams Veterinary Diagnostics, LLC in Vero Beach, FL and Univ of FL CVM, Gainesville)

Neuropathology: 50 hours devoted to review of veterinary neuropathology. This time may be spent in lecture series, seminars, or a formal training program recognized and approved by the college.

The residents spend 2 full weeks (80 hours) in Neuropathology with our 3 DACVP (Pathology) Professors. In addition, monthly joint Neurology / Pathology Rounds are held...

Neurosurgery: 50 hours participating in veterinary neurosurgical procedures. Please provide a specific description of the type of participation [i.e. observation, performance of neurosurgery], and credentials of those providing the training [i.e. ACVS vs. ACVIM Neurology]. A Training Agreement Form must be completed if this training is provided by individuals other than the ACVIM (Neurology) or ECVN supervising Diplomate for the residency training program.

Dr. Shores completed a Small Animal Surgical Residency and a Neurology/Neurosurgery Residency. In addition, he has been involved in the practice of neurosurgery, general surgery, and orthopedic surgery for over 25 years and has completed the ACVIM sanctioned "Certificate of Training in Veterinary Neurosurgery" requirements. Dr. Beasley is also a neurology diplomate and has also completed the ACVIM sanctioned neurosurgery training. Residents in the Neurology/Neurosurgery program at Mississippi State are extensively exposed to neurosurgery through participation in surgery of client owned animals and through a graduate level course in neurosurgery. In addition, the residents rotate through the small animal surgery services at Mississippi State for 6 weeks and are encouraged to attend the Synthes (AO) Basic Course. The template for their participation in neurosurgery consists of observing a procedure, assisting in the next procedure of a similar nature, and finally performing each surgery under the direct supervision of the diplomate. If deemed competent by the diplomate, performance of the surgery on a solo basis is allowed. The diplomate is always available for consultation and assistance.

14. The neurology specialty requires that the resident be able to perform and interpret current electrodiagnostic procedures. Briefly state how the concepts of electrodiagnostics (including EEG) and their clinical application will be taught to residents during the training program. Specifically state whether or not the resident will have hands-on electrodiagnostics experience:

The basics of electrodiagnostics is covered in resident round lectures and there is on-site / on the job training with a variety of clinical patients. As the number of patients accumulates and the resident shows proficiency in this discipline, the resident is asked to perform the evaluation and read the tracings with the attending diplomate. Full/unsupervised responsibility for this procedure is not given until late in the 3rd year of training

15. The college requires that the resident spend a minimum of 80 hours involved in routine and regular participation in a critical review of the literature (e.g. journal club) during the residency training program. Please explain how this requirement is met:

Journal club sessions are conducted every Tuesday. On the 1st and 3rd Tuesdays of each month, sessions are held in conjunction with 3 other veterinary neurology programs (TN, MO, VA TECH) via teleconference. Additional

sessions are conducted totally in-house; each resident being responsible for reviewing at least 10 articles/year

16. The neurology specialty requires that the advisor meet with the resident at 6 month intervals to assess, review and critique the resident's progress and weekly schedule of activities. Please explain how this is accomplished:

A guideline is distributed to each resident at the beginning of the program and the resident's accomplishments in accordance to this guide are evaluated. The advisor for each resident and the additional supervizing DACVIM-Neuro faculty, meets with each resident every 6 months for a face-to-face evaluation. A written report is then submitted and copied to each resident annually.

17. The neurology specialty requires that the resident complete a significant research or clinical investigative project. Please describe how you plan for the resident to undertake, monitor, and complete a project. Include a timeline that the resident and mentor will use as a guide for completion of the project. Note that publication of this research project is not a requirement.

Year 1

Sept 30: Preliminary Plan of Study

ACVIM Registration (deadline 10/15)

2 Lectures Prepared for Fall Neuro Course

1 Presentation prepared for Topic Rounds

December 31: Research Topic

March 31: Select Grad Cmte (if MS candidate)

1st Draft Research Proposal

Begin Article 1

June 30: Submit Research Proposal for Funding

1st Draft of Article 1

Attend ACVIM

Submit Final Plan of Study

Year 2

Sept 30: Submit Article 1

Prepare Additional Lecture for Fall Neuro Course

ACVIM Progress Report Letter

Initiate Research Project

Initiate Article 2

December 31

Draft of Article 2

Progress Report on Research

March 31

Submit Article 2

June 1 ACVIM General Exam

Year 3

Sept 30: Begin Research Report for Publication

Complete Research Project

ACVIM – Credentials Packet / Application for Certifying Exam

December 31: Draft of Research Report

Study Plan for ACVIM Certifying

Rotation as Chief Resident

Feb 1: Deadline for Certifying Exam Fees and Acceptance Packet

March 31: Rotation as Chief Resident

June 1: ACVIM Certifying Exam

Research Report / Defense

18. Please indicate the availability of the following facilities or equipment. Indicate if these are available at the primary training site, or at a different location. (In the Location column, indicate on-site for primary location or the name of the facility where the equipment is located if off-site.) For facilities that are not on-site, please describe the situation and availability in the space at the end of this section. Please also provide the manufacturer and model of the unit for electrodiagnostic and imaging equipment.

	Available?		Location of equipment?
	Yes	No	(On-site or list site name)
a) Standard radiological equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b) Ultrasonographic equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c) Clinical Pathology capabilities: (includes CBC, serum chemistries, blood gases, urinalysis, cytology, parasitology, microbiology, and endocrinology)	<input type="checkbox"/>	<input type="checkbox"/>	
d) Electrocardiography	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e) Blood Pressure Measurement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f) Radiation Therapy Facility	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g) Veterinary Library w/Literature Searching Capabilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
h) Computerized Medical Records w/Searching Capabilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
i) Medical Library w/Literature Searching Capabilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
j) Electromyography and nerve conduction velocity testing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
k) Evoked Response Equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
l) Electroencephalography	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
m) Computed Tomography	<input checked="" type="checkbox"/>	<input type="checkbox"/>	64 Slice GE
n) Magnetic Resonance Imaging (include field strength)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3-T GE

If any of the above equipment or facilities is available off-site, please explain how the resident can access them for case management, research, or study, *especially with respect to the use of imaging equipment*:

n/a

19. Describe the formal conferences, such as clinicopathologic conferences, journal clubs, or seminars that are held on a regular basis. Please provide a description and the typical schedule for these:

Journal Clubs - please see #15; CPCs are held weekly - residents are required to attend twice monthly and encouraged to attend all; college wide graduate seminars and pathology rounds are recommended. Monthly joint rounds with diagnostic imaging and with pathology are also required.

20. Detail the teaching responsibilities expected of the resident during the training program. This may include lectures in departmental courses for veterinary students, grand rounds presentations, presentation of papers or seminars at conferences, or participation in continuing education programs.

didactics twice yearly with average of 4 to 5 lectures required per resident; daily topic rounds with students at least once times per month for each resident; clinical teaching; yearly presentation at SEVEN conference; supervising student CPC at least one per year; M&M rounds -- 2 per residency

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21. How many major veterinary medical or medical meetings are each resident able to or expected to attend during his/her training program?

None	One	Two	> Two
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments: ACVIM Forum, SEVEN, MVMA, and when possible brain camp or neurosurgery meeting or electrodiagnostics course

22. Are one or more publications required as part of the training program?

Yes	No	Number
<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Comments: Strongly encouraged. Scientific writing is a very important part of training and while the residency certificate will not be withheld because of the lack of a publication (referred journal. meeting abstract/presentation/poster), publications are very highly desired

23. Please describe any additional pertinent information that the Residency Training Program should consider in its evaluation of this Training Program.

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Please note, any Program Director or Candidate that significantly changes or alters this Residency Training Program before completion must notify ACVIM, in writing, before the changes are made to ensure that the proposed changes are approved.

Significant changes could include, but are not limited to:

- transferring from one program to another
- alterations in program duration
- switching to a 'dual board' program
- enrolling in an institutional graduate program
- change of Program Director or Resident Advisor

I verify that the above information is an accurate reflection of this Residency Training Program.

Per the Certification Manual, each year, the Program Director (PD) must certify to the RTC/ RTCC and ACVIM, in writing, that they have read the ACVIM Certification Manual and understands their role in residency training.

Checking this box is an indication I have read the ACVIM Certification Manual and understand my role in the Residency Training Program.