

Part One

New applications for ACVIM Residency Training Programs must be received by the Residency Training Committee (RTC) 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 current version of the CM is available on the ACVIM website at www.ACVIM.org.

Prior to making significant changes in a Residency Training Program, approval of the ACVIM and Neurology RTC must be obtained. The Candidate and/or Program Director 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 the following: 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: The data collected in this form is necessary both for the ACVIM to maintain its accreditation as a Registered Veterinary Specialty Organization and also is required for renewal of the residency training program. Some of the data collected is required of every specialty and some is specific to the specialty of Neurology.

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, will be addressed by the Program Director 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 (ECVN) for at least 5 years with 3 years' experience training residents

Program Director Contact Information:

Work Phone:	<input type="text" value="(607) 253-3060"/>
E-mail:	<input type="text" value="cwd27@cornell.edu"/>
Mailing Address:	<input type="text" value="Dept. of Clinical Sciences"/> <input type="text" value="930 Campus Road"/> <input type="text" value="Ithaca, NY 14853"/>

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

Primary Site Location:	<input type="text" value="Cornell University"/>	Length of Training Program:	<input type="text" value="3 year"/>
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2. Resident Advisor(s): Must be a Diplomate of ACVIM in the Specialty of Neurology or a Diplomate of the ECVN and boarded for at least one year. Each RA advises and supervises no more than two residents at one time.

<input type="text" value="Curtis Dewey"/> <input type="text" value="Jonathan Wood"/>

3. Supervising Diplomates: Must be a Diplomate of ACVIM in the Specialty of Neurology or a Diplomate of the ECVN. The supervising diplomate must be active in the practice of the specialty and must maintain clinical competency in the field. **The sponsoring institution must provide resident with onsite presence of any combination of at least two ACVIM or ECVN Neurology Diplomates with full-time clinical responsibilities.**

Curtis Dewey - Neurology
Jonathan Wood - Neurology

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

Name and Specialty	Comments
Bruce Kornreich - Cardiology Nany Moise - Cardiology Romain Pariaut - Cardiology Cheryl Balkman - Oncology Kelly Hume - Oncology Margaret McEntee - Oncology Sharon Center - SAIM Meredith Miller - SAIM John Randolph - SAIM Kenneth Simpson - 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	Start date (mm/dd/yyyy)	End Date (mm/dd/yyyy)	Resident Advisor Name*
Sarah Stephan	7/18/16	7/28/19	Curtis Dewey
Laura Scoda	7/17/17	7/26/20	Curtis Dewey
Rebecca Sandler	7/16/18	8/1/21	Jonathan Wood



RESIDENCY TRAINING PROGRAM REGISTRATION
2019-2020
NEUROLOGY

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:

Program Director Name:

Program Director Email Address:

Must be a Diplomate of ACVIM in the Specialty of Neurology or an approved Diplomate of the European College of Veterinary Neurology (ECVN) for at least 5 years with 3 years' experience training residents

Name of Sponsoring Institution (Primary Site):

1. Length of Training Program:

2 years	Yes	<input type="checkbox"/>
3 years		<input checked="" type="checkbox"/>
Other -provide details		

2. Advanced Degree:

	Yes	No	Optional
Masters:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PhD:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

[Not applicable](#)

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

Name of Diplomate(s)	Specialty Certifying Body	Comments

4. 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 Diplomat(e)s	Specialty Certifying Body (ACVP or ECVP)	Clinical or Gross	Comments
Elizabeth Buckles	ACVP	Gross/histopath	
Gerald Duhamel	ACVP	Gross/histopath	
Katie Kelly	ACVP	Gross/histopath	
Sean McDonough	ACVP	Gross/histopath	
Andrew Miller	ACVP	Gross/histopath	Specific interest in neuropathology
Jeanine Peters-Kennedy	ACVP	Gross/histopath	
Teresa Southard	ACVP	Gross/histopath	Specific interest in neuropathology
Tracy Stokol	ACVP	Clin Path	

5. 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 Diplomat(e)s	Specialty Certifying Body (ACVR or ECVDI)	Comments
Erin Epperly	ACVR	
Philippa Johnson	ECVDI	
Ian Porter	ACVR	
Peter Scrivani	ACVR	
Margret Thompson	ACVR	
Amy Yeager	ACVR	

6. 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 Diplomat(e)s	Specialty Certifying Body	Comments
Jordyn Boesch	ACVAA	
Luis Campoy	ACVAA	
Soon Hon Cheong	ACT	
Mariana Diel de Amorim	ACT	
James Flanders	ACVS	
Daniel Fletcher	ACVECC	
Robin Gleed	ACVA	
Robert Goggs	ACVEE & ECVVE	
H. Jay Harvey	ACVS	
Kei Hayashi	ACVS	
Galina Hayes	ACVS & ACVECC	
Nita Irby	ACVO	
John Loftus	ACVIM	
Thomas Kern	ACVO	
Ursula Krotscheck	ACVS	
Eric Ledbetter	ACVO	
Manuel Martin-Flores	ACVAA	
William Miller	ACVD	
Gretchen Schoeffler	ACVECC	

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.

7. 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. The resident must complete the residency in blocks of time no less than four weeks in length and attend a minimum of 20 weeks of training per year. The training period may not exceed a total of five years.

Not applicable

8. 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 *	38	36	34
Neurosurgery			
Neurology/Neurosurgery - Direct Supervision	38	36	26
Neurology/Neurosurgery - Indirect Supervision	0	0	8
Internal Medicine	2	0	2
Clinical Pathology	0	1	1
Radiology	1	1	1
Neuropathology	1	1	2
Other Rotation (please list the name of each rotation):	6	6	
Other: Oncology, Cardiology	2, 2		
Other: Surgery	2	4	4
Research	2	2	2
Independent Study	0	3	4
Vacation	2	2	2
Total **	52	52	52

* 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.

**The totals should add up to 52 weeks.

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

We have case rounds with the residents and students twice daily, supervised by the faculty neurologist on rotation.

10. The neurology specialty requires that the resident spend at least 50 hours during the residency in the following rotations: Imaging, Clinical Pathology, Neuropathology, Electrodiagnostics and Neurosurgery as well as participate in emergency duties on a rotational basis. A training hour (see CM 7.C.7) will be defined as a minimum of one (1) continuous hour of direct contact time with a supervising

specialist in the other field. 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 (imaging, clinical pathology, neuropathology, electrodiagnostics and neurosurgery) in rotations other than neurology. One 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.

Imaging: 50 hours with a Board-certified radiologist interpreting images, learning and evaluating the results of special imaging techniques and attending imaging rounds or seminars.

The imaging requirement is accomplished on site, via a combination of direct time spent with the imaging section on the clinical rotation and time spent working with the radiologists while on the neurology rotation. The majority of time spent with our imaging section involves interpretation of MR images, although our residents still interpret a fair number of CT and myelographic studies. We also have neuroimaging rounds as well as specific MRI rounds for our resident on a recurring schedule.

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

The residents spend the required time on site with a clinical pathologist, primarily looking at histopathology slides and CSF cytology slides.

Neuropathology: 50 hours with a board-certified anatomic pathologist devoted to review of veterinary neuropathology. This time may be spent in lecture series, seminars, or a formal training program approved by the Residency Training Committee.

Two of our pathologists (Drs. Teresa Southard and Andrew Miller) have a special interest in neuropathology and conduct monthly neuropathology rounds that are mandatory for neurology residents to attend. In addition, our residents spend time with our pathologists reviewing histopathology to further fulfill the 50 hour requirement.

Electrodiagnostics: 50 hours devoted to reviewing, evaluating, and interpreting different aspects of electrodiagnostics; including but not limited to, electroencephalography, electromyography, motor and sensory nerve conduction study and evoked potentials. 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 electrodiagnostic experience.

The residents participate in and perform electrodiagnostic procedures throughout the training program. In addition, we have regular sit-down rounds sessions devoted to learning these procedures.

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/ECVN]. 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.

Our residents perform a great deal of surgery, with the neurology service now responsible for all neurosurgery cases (after hours neurosurgery cases are shared with surgery residents, but the neurology faculty oversee all neurosurgery). The neurology residents at Cornell are expected to be proficient in hemilaminectomies within the first year of the program, and ventral slots in the second year of the program. They assist in brain surgeries and other complicated procedures throughout the 3-year program, and are self-sufficient for many of these procedures by the third year. The residents are supervised in surgery by Dr. Dewey (also ACVS boarded), Dr. Wood and Dr. Davies. In addition, we have regular (every 2-4 months) cadaver surgery training labs to enhance the neurosurgery training for our residents.

Emergency Duty: Participation in emergency service on a rotational basis; cases seen may be limited to neurology. Please provide a specific description of the type of participation.

Residents are required to take emergency duty during the daytime (8am-5pm) and after hours (5pm-8am, and weekends) on a rotational basis. They are required to triage, assess, and neurolocalize emergency cases. They are required to generate diagnostic pathways for rank ordered differential diagnoses, and follow up with therapeutic options. This is done on a consultation basis for emergency clinicians, as well as with primary case ownership of the emergent cases. This includes

emergency cases that are medical and surgical cases.

11. The neurology specialty 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 with at least one board-certified neurologist in attendance at each journal club meeting. Please explain how this requirement is met:

As part of our weekly rounds meeting with the residents we include a journal club. This involves reading current journal articles in combination with relevant textbook chapters.

12. 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. The advisor must provide written documentation of the review that will be signed by both advisor and resident. Please explain how this is accomplished:

Drs. Dewey, Davies and Wood meet with the candidate during clinical rotations and discuss his/her progress overall at least every 6 months.

13. The neurology specialty requires that the resident must complete a basic science or clinical research project that follows the scientific method approach and receives approval by the resident advisor (review CM section 7.E.5.c). 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.

We expect each resident to complete a minimum of one research project during their training program and to present the results of this project at the ACVIM Forum or similar venue. We typically have a choice of several projects selected for the resident during the first year, and plan for the paper to be written and accepted by the second year and no later than the beginning of the third year of the program. In addition, we encourage the pursuit of other types of publications (e.g., case reports, review papers, textbook chapters) as long as the primary project is on the correct timeline.

14. 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 checked="" 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 study 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"/>	

n) Magnetic Resonance Imaging (include field strength)

<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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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 and electrodiagnostic equipment:

Not applicable

15. Residents must attend formal teaching conferences, resident seminars, grand rounds sessions, medicine journal clubs, neurobiology classes, etc. Residents must participate in these activities an average of four times per month, regardless of their duty status. Please describe the formal conferences, such as clinicopathologic conferences, journal clubs, or seminars that are held on a regular basis.

Neuropathology rounds are held monthly and clinical pathology rounds are held weekly. Journal club/rounds are held at least weekly (usually 2-3 mornings per week) and include discussions of textbook chapters, electrodiagnostics, neuropathology, etc.

16. The resident must give a presentation at a formal conference at least once per year. 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. Documentation of these presentations must be included in the neurology credentials packet of the resident.

Each resident is expected to give a minimum of one lecture to the 3rd year veterinary students (Foundation Course V), and to routinely provide teaching rounds to the 3rd and 4th year veterinary students during clinical rotations (2-4 times during the 2 week rotation).

17. A Neurology Residency Training Program must provide at least 40 hours per year of intensive formal review sessions for residents on topics covered in the General and Specialty Examinations. The requirement could be met in part by attending an ACVIM Advanced Continuing Education (ACE) course, the ACVIM Neuroscience Course (Brain Camp) or an ACVIM Forum. Please describe how these opportunities will be made available to the resident.

Residents are given time off and partial funding to attend Brain Camp once during their three year program. Daily rounds (8:30am-9:30am M-Th) are attended by the residents and a faculty member to cover the content of major neurology textbooks (e.g., King, Dewey, Glass & de Lahunta, etc.) along with texts of a broader nature (e.g., Kimura). Once a week (9am-10am F) a formal ACVIM board review lecture is given through the Internal Medicine service to cover topics that are pertinent to the ACVIM General exam.

18. 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

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

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

Comments:

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

Please note: The Program Director must report substantive changes within a Neurology RTP affecting compliance with Specialty of Neurology requirements to the Neurology RTC Chair within 14 days. This must be done in writing through the ACVIM office before the changes are made to ensure they are acceptable to the Neurology RTC.

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.