

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="(905) 829-9444"/>
E-mail:	<input type="text" value="carolina.duque@vca.com"/>
Mailing Address:	<input type="text" value="2285 Bristol Circle"/> <input type="text" value="Oakville ON L6H 6P8"/> <input type="text" value="Canada"/>

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

Primary Site Location:	Length of Training Program:
<input type="text" value="Mississauga Oakville Veterinary Emergency Hospital and Referral Group"/>	<input type="text" value="3 year"/>

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.

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.**

Carolina Duque - Neurology
Andrea Finnen - 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
Sandra Minors - Cardiology Meredith Gauthier - Oncology Elizabeth Hanselman - SAIM Dinaz Naigamwalla - SAIM Jinelle Webb - 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*
None Listed			



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:

	Yes	
2 years		
3 years	X	
Other -provide details		

2. Advanced Degree:

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

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

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

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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 Diplomate(s)	Specialty Certifying Body (ACVP or ECVP)		Comments
Tony Van Dreumel,	Gross and histopathology	ACVP	Ontario Veterinary College; Neuropathology rounds that are conducted 3-4 times/year. The cases are seen at MOVEH and compiled by the resident and advisor for the sessions in the future.
Josepha Delay,	Gross and histopathology	ACVP	Ontario Veterinary College; Neuropathology rounds that are conducted 3-4 times/year. The cases are seen at MOVEH and compiled by the resident and advisor for the sessions in the future.
Maria Spinato	Gross and histopathology	ACVP	Ontario Veterinary College; Neuropathology rounds that are conducted 3-4 times/year. The cases are seen at MOVEH and compiled by the resident and advisor for the sessions in the future.
Emmeline Tan	Clinical pathology	ACVP	On site- discussion of CSF cytology from clinical cases
Dorothee Bienzle	Clinical pathology	ACVP	Off- site 1 week rotation (Ontario Veterinary College)
Martin Pumarola	Gross and histopathology	ECVP	Barcelona Neuropathology course (2 weeks)

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 Diplomate(s)	Specialty Certifying Body (ACVR or ECVDI)	Comments
Colleen Mitchell	ACVR	TVEH 50 hour external rotation during 3 years; additional discussion of cases interpreted by radiologist-ongoing through the program
Shawn Mackenzie	ACVR	TVEH 50 hour external rotation during 3 years; additional discussion of cases interpreted by radiologist-ongoing through the program

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 Diplomate(s)	Specialty Certifying Body	Comments
Tony Yu	ACVD	On site
Sandra Minors	ACVIM (cardiology)	On site

Monica Rosati	ACVAA	On site
Allan Williamson	ACVAA	On site
Tara Richards	ACVO	On site
Jennifer Kyes	ACVEEC	On Site
Rita Ghosal	ACVECC	On Site
Jamie Chandler	ACVECC	On Site
Krista Halling	ACVS	On site
Alexandra Bos	ACVS	On site
Laura Nutt	ACVS	On Site
Sylvan Bichot	ACVS	On Site
Lee Jane Huffman	AVDC	On Site
Meredith Gauthier	ACVIM-oncology	On Site
Jinelle Webb	ACVIM-Int Med	On Site
Kristen Prosser	ACVIM-Int Med	On Site
Beth Hanselman	ACVIM-Int Med	On Site
Dinaz Naigawalla	ACVIM-Int Med	On Site

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.

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 *	35	33	20
Neurosurgery			
Neurology/Neurosurgery - Direct Supervision	35	32	20
Neurology/Neurosurgery - Indirect Supervision			5
Internal Medicine	2	2	2
Clinical Pathology	1		1
Radiology		1	1
Neuropathology	1	2	

Other Rotation (please list the name of each rotation):			
elective	3	1	1
Other: Conferences/courses	2	1	2
Research	5	4	8
Independent Study	1	7	10
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:

Clinical rounds are performed daily. The emergency service transfers the cases to the neurology department at 8:30-9:00am. Discussions about the neurological cases presented during the day, admitted at night, or hospitalized will take place during the morning and the evening rounds between the supervisor and resident. In addition, these discussions will take place throughout the day as the cases are seen.

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.

One week rotation with the ACVR diplomates listed above.
Brain camp- radiology
Daily evaluation of MRIs and in the near future CT performed at the hospital

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

On site pathologist Dr. Tan review cases presented to the hospital- Small collection of unique cases is available (CNS lymphoma. Blastomycosis, brain abscess, etc)
OVC rotation Dr. Bienzle

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.

-Dr. Pumarola Neuropathology Course-Barcelona
-Brain camp- neuropathology-
-Review sessions at the ACVIM forum

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 resident will rotate off site at OVC with Dr. James when EEG cases are referred to her
-Review session at the ACVIM forum electrodiagnostics,
-Brain camp electrodiagnostics

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.

The resident will follow selected neurosurgical cases throughout the residency program to learn different approaches, including but not limited to: spinal decompression pediculectomy and hemi laminectomy, ventral slot, lumbosacral decompression, atlantoaxial stabilization and vertebral fracture repair.

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.

The resident will take neurological emergencies directly when presented to the hospital. On average the neurology service manages 3 emergency transfers a day

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:

A biweekly neurology journal club will be held involving the review of 2-3 important articles in current literature. Neurology text book rounds (Veterinary neuroanatomy and Clinical neurology De Lahunta,; Canine and Feline Neurology – Dewey and DaCosta)

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:

The resident is required to keep a case log. This case log will assist the resident and advisor in ensuring that the resident is exposed to different neurological disorders and efforts will be made to ensure that the residency training is well rounded. During the meeting, any written review by other specialists, of previous rotations, will be discussed. The progress of the resident will be discussed and documented by writing.

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.

A clinical research project will be conducted during the program to fulfill the requirements of the neurology residency program. Details of the project and funding will be determined at the beginning of the program (first months).

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	X		On site
b) Ultrasonographic equipment	X		On site
c) Clinical Pathology capabilities: (includes CBC, serum chemistries, blood gases, urinalysis, cytology, parasitology, microbiology, and endocrinology)	X		On site
d) Electrocardiography	X		On site
e) Blood Pressure Measurement	X		On site
f) Radiation Therapy Facility		X	Off-site OVC
g) Veterinary Library w/Literature Searching Capabilities	X		Online
h) Computerized Medical Records w/Searching Capabilities	X		
i) Medical Library w/Literature Searching Capabilities			
j) Electromyography and nerve conduction study testing	X		
k) Evoked Response Equipment		X	
l) Electroencephalography		X	Off-site OVC
m) Computed Tomography	X		Been installed
n) Magnetic Resonance Imaging (include field strength)	X		On site

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*:

EEG and radiation are available at OVC which is a close ride from the clinic

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.

Neuro journal club is to be held biweekly and intercalated with review of chapters from the neurology textbooks (Tuesday mornings).

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.

Mortality rounds are held 4-6 times a year and presented by interns and residents
 The resident have active participation in teaching interns and fourth year veterinary students
 The "Appreciation Day" is a day of lectures dedicated to the referring community and the resident will participate presenting at this event.
 CE- Brain camp, neuropathology course in Barcelona

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.

Accommodating the schedule to allow participation and partial funding for 2 ACVIM forums during the 3 year program, brain camp and the neuropathology course in Barcelona.

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
			X

Comments: _____

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

Yes	No	Number
	X	

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

X 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.

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