

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:	+519-823-8830
E-mail:	fmkjames@gmail.com
Mailing Address:	Clinical Studies University of Guelph Guelph ON N1G 2W1 Canada

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

Primary Site Location:	Length of Training Program:
Ontario Veterinary College	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.

Luis Gaitero Fiona James

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.

Fiona James - Neurology
Luis Gaitero - 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
Daniel Kenney - LAIM Henry Staemfli - LAIM Joanne Hewson - LAIM Luis Arroyo - LAIM Diego Gomez-Nieto - LAIM Sam Hocker - Oncology Anthony Mutsaers - Oncology Anthony Abrams-Ogg - SAIM Maureen Barry - SAIM Shauna Blois - SAIM Alice Defarges - SAIM Roman Hisnik - SAIM Danielle Richardson - SAIM Paul Woods - Oncology and - 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*
Edouard Marchal	8/4/16	8/3/19	Luis Gaitero
Michael Hazzenfratz	9/15/17	9/18/20	Fiona James
Hugo Leonardi	8/7/18	8/7/21	Luis Gaitero
Gibrann Castillo	8/6/19	8/6/22	Fiona James

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

2. Advanced Degree:

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

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

The residency at the Ontario Veterinary College is combined with a graduate program into the DVSc. (Doctor of Veterinary Science) degree program. The DVSc. provides rigorous advanced academic preparation in both disciplines of clinical training and research and is a unique post-professional doctoral level degree. The objective is to meet both ACVIM Neurology Residency board requirements and research/thesis requirements at the graduate degree level at the end of the 3-year program. DVSc. candidates must complete 2.5 credits of graduate courses, mostly delivered at the Ontario Veterinary College, work on their research project, and defend a thesis at the end of the 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
N/A		

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)	Clinical or Gross	Comments
Dorothee Bienzle	ACVP	Clinical	Faculty
Darren Wood	ACVP	Clinical	Faculty
Janet Beeler-Marfisi	ACVP	Clinical	Faculty
Kristiina Ruotsalo	ACVP	Clinical	Animal Health Laboratory
Felipe Reggeti	ACVP	Clinical	Animal Health Laboratory
Brandon Lillie	ACVP	Gross/Histo	Faculty
Brandon Plattner	ACVP	Gross/Histo	Faculty
Jeff Wood	ACVP	Gross/Histo	Faculty
Robert Foster	ACVP	Gross/Histo	Faculty
Leonardo Susta	ACVP	Gross/Histo	Faculty
Josepha DeLay	ACVP	Gross/Histo	Animal Health Laboratory
Margaret Stalker	ACVP	Gross/Histo	Animal Health Laboratory
Murray Hazlett	ACVP	Gross/Histo	Animal Health Laboratory
Andrew Brooks	ACVP	Gross/Histo	Animal Health Laboratory
Grant Maxie	ACVP	Gross/Histo	Animal Health Laboratory
Emily Brouwer	ACVP	Gross/Histo	Animal Health Laboratory
Amanda Mansz	ACVP	Gross/Histo	Animal Health Laboratory

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
Stephanie Nykamp	ACVR	Faculty
Alex Zur Linden	ACVR	Faculty

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
Brigitte Brisson	ACVS	Faculty
Noel Moens	ACVS	Faculty
Ameet Singh	ACVS	Faculty

Michelle Oblak	ACVS	Faculty
Chantale Pinard	ACVO	Faculty
Alex Valverde	ACVAA	Faculty
Carolyn Kerr	ACVAA	Faculty
Melissa Sinclair	ACVAA	Faculty
Andrea Sanchez	ACVAA	Faculty
Shane Bateman	ACVECC	Faculty
Alexa Bersenas	ACVECC	Faculty
Adronie Verbrugghe	ACVN	Faculty
Ron Johnson	ACVCP	Faculty
Cathy Gartley	ACT	Faculty
Tracey Chenier	ACT	Faculty

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 *			
Neurosurgery			
Neurology/Neurosurgery - Direct Supervision	28	27	14
Neurology/Neurosurgery - Indirect Supervision			12
Internal Medicine	4	1	
Clinical Pathology	2		
Radiology	1		
Neuropathology		1	2
Other Rotation (please list the name of each rotation):			
Other: Emergency and Critical Care	2		
Other: Elective	1	1	1
Research	12	13	13
Independent Study		7	8
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 case rounds are performed twice daily (morning and afternoon) in the neurology laboratory. Residents in neurology, final year students, and faculty on duty discuss neurological cases presented during the day or hospitalized.

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 neurology resident discusses on a daily basis the on-going case load (including radiographs, myelograms, MRIs and CTs from the daily cases) with the board-certified radiologist and the radiology residents on duty.
- Neuroradiology rounds occur every four weeks (1h) where the neuroradiology cases are reviewed and discussed by the Radiology and Neurology Services (including board certified diplomates and their residents).
- A neuroimaging course is offered by the Radiology Service of the Ontario Veterinary College (Dr. Stephanie Nykamp) every other year. This neuroimaging course consists of 24 seminars/lectures (2h per week over 12 weeks).
- 1-week rotation in the Radiology Service of the Ontario Veterinary College under the supervision of the board certified radiologist on duty, consisting of a minimum of 35h.
- Clinical neurology course for DVSc program students offered by the neurology faculty of the Ontario Veterinary College (board certified neurology diplomates) every second year, including a 2h seminar on neuroradiology (Dr. Nykamp). The neurology resident is required to attend this course.
- Neuroradiology training provided as well during the Brain Camp / Neuroscience Course. The neurology resident is required to attend this course once during the 3-year program.

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

- Neurology residents work closely with the clinical pathologist and clinical pathology residents reviewing, examining and discussing clinical pathology samples (including CSF cytology) in detail, particularly those coming from the daily case load. Clinical pathologists and pathologists are available for review of samples at the request of the neurology residents.
- A 2-week rotation in the Clinical Pathology Service of the Ontario Veterinary College under the supervision of Dr Bienzle (DACVP) and Dr Wood (DACVP) is included in the program, consisting of a minimum of 70h.
- Clinical Pathology training provided as well during the Brain Camp - Neuroscience Course. The neurology

resident is required to attend this course once during the 3-year program.

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.

- Neuropathology rounds occur every four weeks (1h; so 36h total over the 3 years program) where neurology cases, managed by the Neurology Service, are reviewed with Dr. Robert Foster, a board-certified pathologist (ACVP) with an interest in neuropathology.
- Neurology residents work closely with the board-certified pathologists and pathology residents reviewing the gross pathology and follow up the cases with histopathology and final report. Pathologist are available for review of samples at the request of the neurology residents.
- Neuropathology training provided as well during the Brain Camp – Neuroscience Course. The neurology resident is required to attend this course once during the 3 years program.
- A 1-week rotation focused on Neuropathology in the Pathology Service of the Department of Pathobiology of the Ontario Veterinary College under the supervision of Dr. Robert Foster, Diplomate ACVP, is included in the program, consisting of a minimum of 35h.
- Attendance of the Basic Neuropathology & Neuroanatomy Course for ECVN and ACVIM residents and trainees in Veterinary Neurosciences, Autonomous University of Barcelona organized by Dr. Marti Pumarola and Dr. Kaspar Matiasek (2 weeks, 75h course, with final examination included). The attendance is required for the resident once during the 3 years program.

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 Neurology Service at the Ontario Veterinary College has the technology and equipment to perform all the most common electrophysiologic tests including EMG, NCV, SSEP, BAER, TMMEP and EEG. Residents are involved in clinical and research applications and are required to both perform the tests and provide interpretation of recorded material. Electrodiagnostics caseload typically includes about 35 BAER, 12 EEG, 12 EMG-NCV procedures per year.
- A course in Electrophysiology/electrodiagnostics occurs weekly (1h) during one entire academic semester (four months) at least every 1.5 years (16h per series; total 32h over the 3 years program), run by Drs Gaitero and James.
- A Clinical Neurology course for DVSc program students offered by the Neurology Service faculty every second year, including a 2h seminar on electrodiagnostics (Drs Gaitero and James).
- Electrodiagnostic lectures provided during the Brain Camp - Neuroscience Course. The neurology resident is required to attend this course once during the 3 years program.

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 service combines neurology and neurosurgery. Our residents, with our supervision and instruction, perform neurosurgery. The neurosurgery caseload managed by the Neurology Service consists of around 100 surgeries per year; 85-90% of this caseload are intervertebral disc herniations managed through thoracolumbar hemilaminectomies and cervical ventral slots (including fenestration), with the other 10-15% consisting mostly of dorsal laminectomies (lumbosacral, cervical, thoracolumbar), spinal fracture-luxations, cervical distraction-fusion, atlantoaxial luxations, spinal arachnoid cysts, extradural and intradural masses, biopsies, and craniotomies. Instruction is provided by ECVN and ACVIM supervising diplomates at our institution. As part of the neurosurgical training, the neurology residents have the possibility to train on cadavers (cadaver labs are offered throughout the year as needed) to learn the different neurosurgical approaches. During clinic time, each resident is

responsible to follow the case in surgery and perform the procedure under the supervision of a board certified neurologist.

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.

- Our service provides out-of-hours support to the OVC's Emergency Service with cases limited to Neurology. Our residents provide this emergency service during their clinic weeks equitably, i.e., with numbers of weeks divided equally between house officers. The faculty provide backup to the resident on call as necessary.
- Our first year resident is required to spend two clinical weeks rotating under ACVECC supervision during which they participate in management of both emergency and critical care 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:

- A weekly Neurology Journal Club (1h, every Friday, 8-9am) consisting in the appraisal of two to four crucial or newly published articles. The articles, chosen by the faculty or graduate student(s), are based on case material seen during the week related to important neurology topics.
- A neurology quiz is provided to the neurology residents every month including questions about general neurology topics (clinical neurology, neurosurgery, neuroradiology, neuropathology, neuroanatomy, electrophysiology/electrodiagnostics). The answers to the quiz are discussed by the neurology residents and supervising diplomates once a month (1h).

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:

As part of the graduate program offered with the residency at the Ontario Veterinary College (Doctor Veterinary Science, DVSc program), an Advisory Committee is established with the goal of meeting at least once per semester to provide comments, guidance, and feedback to the graduate student, including a written evaluation on the academic and clinical performance of the student. A copy of this evaluation is submitted to the Department's Graduate Studies Research Committee, a copy is provided to the resident, and there is a discussion one-on-one with the resident advisor/s. Monthly neurology meetings are also scheduled between the supervisor and the resident to critically discuss about case management, professional conduct, and research projects.

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.

The DVSc (Doctor of Veterinary Science) degree requires that research be done on one subject resulting in a written thesis that is defended. Each of the chapters represents a scientific paper and is written following the guidelines of the scientific journal where it will be submitted. Usually one to three papers result from the research data. There is a verbal and written agreement between the advisor and the resident stating that, if the graduate student manifests or shows reluctance to complete the research program (as part of the graduate degree), the resident advisor is not compelled to sign the form authorizing the resident's credentials to sit for ACVIM neurology board examination.

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"/>	On-site
b) Ultrasonographic equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	On-site
c) Clinical Pathology capabilities: (includes CBC, serum chemistries, blood gases, urinalysis, cytology, parasitology, microbiology, and endocrinology)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	On-site
d) Electrocardiography	<input checked="" type="checkbox"/>	<input type="checkbox"/>	On-site
e) Blood Pressure Measurement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	On-site
f) Radiation Therapy Facility	<input checked="" type="checkbox"/>	<input type="checkbox"/>	On-site
g) Veterinary Library w/Literature Searching Capabilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	On-site
h) Computerized Medical Records w/Searching Capabilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	On-site
i) Medical Library w/Literature Searching Capabilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	On-site
j) Electromyography and nerve conduction study testing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	On-site
k) Evoked Response Equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	On-site
l) Electroencephalography	<input checked="" type="checkbox"/>	<input type="checkbox"/>	On-site
m) Computed Tomography	<input checked="" type="checkbox"/>	<input type="checkbox"/>	On-site
n) Magnetic Resonance Imaging (include field strength)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	On-site (1.5T)

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*:

N/A

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.

The Journal Club is planned to occur weekly during the academic year (Fridays, 8:30-9:30am). Neuropathology (Fridays, 1:30-2:30pm), neuroradiology (Mondays 08:00-09:00am) and neurology quiz discussion (Fridays 9:30-10am) are held each one every fourth weeks. Grand rounds seminars are held every week (Wednesdays, 8:30-9:30am) September through April; the resident is required to present at least 3 times in Grand rounds during the residency. Electrophysiology/electrodiagnostic seminar series/course occurs weekly (1h) during one entire academic semester every 1.5 years (16h per series; total 32h over the 3 years program), including a final exam at the end of the course. Neuroanatomy seminar series/course is held weekly (2h) during an entire academic semester at least once during the 3 years program (32h per series) including a formal final exam at the end of the course. A Clinical Neurology course is held weekly (2h, 32h per course) during an entire academic semester at least once during the 3 year program, including a final exam at the end of the course. The neurology residents are encouraged to attend monthly ECG rounds organized by the Cardiology Service and weekly "book clubs" organized by the medicine residents. The neurology resident is also required to attend a clinical statistics course during one entire academic semester (32h total), as well as a clinical communications course (32h total).

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.

- Grand rounds once per academic year presented by residents/DVSc graduate students are compulsory. The

neurology resident presents a challenging case report with literature review; the last presentation is dedicated to his/her research project.

- Before the second of the 9 DVSc semesters ends, the resident presents his/her literature review and Materials and Methods for the research project to the department for constructive criticism. This is also compulsory.
- Each of the 5 mandatory DVSc courses requires that the DVSc student gives a presentation according to the format of the course. Usually, those 5 courses topics are: Neurology, Electrodiagnostics/Electrophysiology, Neuroanatomy, Clinical Communication, and Clinical Statistics, with alternatives including Internal Medicine and Neuroimaging.
- The resident participates in the clinical teaching of final year DVM students in the clinical setting through interaction/managing of clinical cases, daily case rounds, and through 1-4h weekly formal neurology topic discussion.
- The resident participates in the formal neurology laboratory teaching of first, second, and third year DVM students, reviewing the neurologic examination, neurolocalization, differentials, diagnostic testing, and treatment plans.
- The neurology resident is expected to present his/her research data in poster or short oral communication format in ACVIM or ECVN conferences once during the 3 year program.

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 required to attend the ACVIM Neuroscience Course (Brain Camp) once in their program.
- Residents are required to attend the Basic Neuropathology and Neuroanatomy Course organized at the Autonomous University of Barcelona by Dr. Marti Pumarol and Dr. Kaspar Matiasek once in their program.
- Residents are required to complete 5 graduate courses as part of the DVSc. program. The Neurology, Electrodiagnostics/Electrophysiology, Neuroanatomy, Internal Medicine and Neuroradiology courses cover topics specific to the General and Specialty Examinations
- A boards-level neurology quiz is provided to the residents once a month, with a subsequent discussion of the answers, covering topics pertinent to the General and Specialty Examinations, including clinical neurology, neurosurgery, neuroradiology, neuropathology, neuroanatomy, electrophysiology/electrodiagnostics, and neuropharmacology.
- Residents are encouraged to attend the ACVIM Forum or ECVN Symposium annually.

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

Comments: ACVIM Forum or ECVN Symposium

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

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

Comments: Although not required by the Certification Manual, a publication is part of the DVSc program.

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

N/A

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.