



RESIDENCY TRAINING PROGRAM REGISTRATION
2018-2019
CARDIOLOGY

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 Cardiology 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 Cardiology 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 which include multiple sites must provide detailed information as to which Diplomates in the specialty of Cardiology, as well as other Specialties, will be supervising the resident(s) at each site. In this program registration form, the Program Director must provide specific, detailed information regarding supervision and facilities available at each specific site(s).

The following forms must be completed and submitted annually: **Part One** is an online form and addresses general features of the program. **Part Two** addresses aspects of training that apply to all current residents. **Part Three** addresses aspects of training that may differ amongst residents enrolled in a single program. Part Three must be completed and submitted for EACH resident enrolled in the program.

Program Director Name:
(Must be a Diplomate of ACVIM in the Specialty of Cardiology or an approved ECVIM Diplomate in Cardiology)

Program Director's Contact Information:

| | |
|------------------|---|
| Work Phone: | <input type="text" value="(508) 839-5395"/> |
| E-mail: | <input type="text" value="john.rush@tufts.edu"/> |
| Mailing Address: | <input type="text" value="Cummings School of Veterinary Medicine"/> |
| | <input type="text" value="200 Westboro Rd."/> |
| | <input type="text" value="N. Grafton, MA 01536"/> |

1. Location of Sponsoring Institution (Residency Training Program):

Primary Site:

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

2. Resident Advisor(s): Must be a Diplomate of ACVIM in the Specialty of Cardiology or an approved ECVIM Diplomate in Cardiology. There is no restriction on the number of Resident Advisors; however, **each Resident Advisor can supervise only two residents concurrently.**

John Rush
Suzanne Cunningham
Vicky Yang

3. Supervising Diplomate(s) on-site: (Must be a Diplomate of ACVIM in the Specialty of Cardiology or an approved ECVIM Diplomate in Cardiology).

John Rush - Cardiology
Suzanne Cunningham - Cardiology
Vicky Yang - Cardiology

4. Please list all **Diplomates** of ACVIM responsible for supervision of clinical training who are specialists in areas other than Cardiology. If off-site, please explain the situation, and the method of providing direct contact with the resident.

Name and Specialty

Lisa Barber - Oncology
Mary Anna Labato - SAIM
Cynthia Webster - SAIM
Orla Mahony - SAIM
Elizabeth Rozanski - SAIM
Michael Stone - SAIM
Therese O'Toole - SAIM
Kristine Burgess - Oncology
Dominik Faissler - Neurology, ECVN
Lillian Cornejo - SAIM
Claire Fellman - SAIM

5. 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. All current residents and incoming residents (if known) should be listed here. Unless specifically approved, in advance, by the CRTCC, the ratio of cardiology residents to on-site Cardiology Diplomates who are actively involved in resident training cannot exceed 2 to 1.

Resident Name, Dates of Program, (Resident Advisor) *

Emily Karlin 7.15.15 - 7.14.18 (John Rush)
Amelie Beaumier-Primeau 7.15.16 - 7.14.19 (John Rush)
Louis Dos Santos 7.15.18 - 7.14.21 (John Rush)

* There is no restriction on the number of Resident Advisors; however, each Resident Advisor can supervise only two residents concurrently.

Please note, any 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**



American College of **Veterinary** Internal Medicine

**RESIDENCY TRAINING PROGRAM REGISTRATION
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CARDIOLOGY**

Part Two

Part Two of the Cardiology Residency Training Program addresses general features that apply to all current residents. (Part Three must be completed and submitted for each resident.)

Current Date:

Program Director Name:

(Must be a Diplomate of ACVIM in the Specialty of Cardiology or an approved ECVIM Diplomate in Cardiology)

Name of Sponsoring Institution (Residency Training Program):

1. Please list all **Diplomates** of the American College of Veterinary Pathology 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 |
|---|-------------------------------|----------|
| Joyce Knoll, VMD, PhD, DACVP Perry Bain, DVM, PhD, DACVP Samuel Jennings, DVM, MsPVM, DACVP Nicholas Robinson, BVSc, PhD, MACVSc, DACVP, DANZCVS Elizabeth O'Neil, BSc, MBA, DVM, MVSc, DACVP | Clinical Clinical Gross | |

2. Please list all **Diplomates** of the American College of Veterinary Radiology 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 |
|--|--------------------|
| Dominique Penninck, PhD, DVM, DACVR, DECVDI Mauricio Solano, MV, DACVR James Sutherland-Smith, BVSc, DACVR Amy F. Sato, DVM, DACVR Trisha Oura, DVM, DACVR Michele Keyerleber, DVM, DACVR | Radiation Oncology |

3. Please list the **Diplomates** available for consultation in the areas of dermatology, surgery, ophthalmology, anesthesiology, emergency/critical care, clinical nutrition, clinical pharmacology, 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 |
|---|--|----------|
| Amanda Abelson, DVM, DACVAA, DACVECC John Berg, DVM, MS, DACVS Cheryl Blaze, BVSc, PhD, MBA, DACVA Armelle de Laforcade, DVM, DACVECC Lisa Freeman, DVM, PhD, DACVN Jay Gladden, DVM, DACVECC Cailin Heinze, DVM, DACVN | Anesthesia SA Surgery Anesthesiology Emergency CC Nutrition Emergency CC Nutrition | |

| | | |
|--|--|--|
| Alicia Karas, DVM, MS, DACVA W. Michael Karlin, DVM, MS, DACVS Michael P. Kowaleski, DVM, DACVS Raymond K. Kudej, DVM, PhD, DACVS Deborah Linder, DVM, DACVN Sean B. Majoy, DVM, MS, MA, DACVECC Robert McCarthy, DVM, MS, DACVS Emily McCobb, DVM, DACVAA Stefano Pizzirani, DVM, PhD, DACVS, ACVO Stephanie Pumphrey, DVM, DACVO Elizabeth Rozanski, DVM, DACVIM, ACVECC Annie Shea Wayne, DVM, MPH, DACVECC Lois Wetmore, DVM, MS, ScD, DACVA | Anesthesiology SA and LA Surgery SA Surgery SA Surgery Nutrition Emergency CC SA Surgery Anesthesiology Ophthalmology Ophthalmology Emergency CC Emergency CC Anesthesiology | |
|--|--|--|

4. Didactic Learning Opportunities and Research Requirements: In recognition of the importance of scientific discovery as a critical mission of the ACVIM, all Residency Training Programs shall include an assessment period or instruction and/or participation in creative scholarship which will foster an appreciation of, competency in, and contribution to the knowledge base of their respective specialty and which will support their development as clinician scientists. This requirement is fulfilled through satisfactory completion of A and one of B [See CM 5.E and 5.F]:

- A. Journal Club: Routine and regular participation in a critical review of the literature, a minimum of eighty (80) hours during the program. Describe how this requirement is met or exceeded.

Weekly journal reviews and discussions exceed this number with a mixture of cardiology-specific journal clubs and SAIM directed journal clubs

- B. Cardiology-focused Educational Experiences: Please provide a description of how the required one hundred fifty (150) hours will be met or exceeded. [See CM 5.E.2]

We are scheduled to meet twice a week most weeks, Tuesday and Thursday am from 8-9, for a cardiology-specific event (occasionally skipped due to a Department meeting or other scheduling conflict). These sessions vary between book chapter review, cardiology journal club, ECG or physiology tracing review, review of angiograms, or pathology review.

- C. Successful completion of any one of the options listed below. Describe how this will be fulfilled or exceeded in the individual trainee's specific application.

1. Successful completion of at least two (2) of the following three (3) short courses/workshops offered by ACVIM either on-line or at the Forum:
 - A. Critical evaluation of veterinary medical/biomedical literature
 - B. Grant Writing
 - C. Study, design and participation in clinical trials
2. Documented submission of a grant proposal (by advisor letter)
3. Acceptance and presentation at a scientific meeting of an abstract (oral or poster) of original work
4. Documented completion (by advisor letter) of a prospective or retrospective research program pertinent to the candidate's specialty
5. Documented completion (by advisor letter) of graduate course work in biostatistics, research methods, and/or research ethics.

All our prior residents have completed more than one of the items listed as #2, #3 and/or #4. We consider these 3 items to be core goals of the residency, and the last 3 residents have completed all 3 of these.

Note: Letters of documentation by advisors will need to accompany the final submission of the Resident Logs to the Residency Training Committee in order to qualify for a resident certificate.

5. Please indicate the availability of the following facilities or equipment. Indicate if these are available on-site 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. See CM 5.D for details.

| | Available? | | Location of equipment? (On-site or list site name) |
|--|-------------------------------------|-------------------------------------|--|
| | Yes | No | |
| a) Standard radiological equipment [must be on-site] | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| b) Ultrasonographic equipment | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| c) Echocardiography equipment [must be on-site] | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| d) Cardiac catheterization capability [must be on-site] | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| e) Endoscopy equipment | <input type="checkbox"/> | <input type="checkbox"/> | |
| GI equipment | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| Bronchoscopy | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| Cystoscopy | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| Rhinoscopy | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| Laparoscopy | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| f) Clinical Pathology capabilities: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Endocrinology and biomarkers done at IDEXX; all others are on-site |
| (includes CBC, serum chemistries, blood gases, urinalysis, cytology, parasitology, microbiology, endocrinology, anatomic and histopathology) | <input type="checkbox"/> | <input type="checkbox"/> | |
| g) Serum osmolality measurement | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| h) Colloid oncotic pressure measurement | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| i) Electrocardiography [must be on-site] | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| j) Blood Pressure Measurement | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| k) Electroencephalography | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| l) Electromyography | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| m) Brainstem Auditory Evoked Response Equipment | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| n) Nuclear Medicine [access is desirable] | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| o) Computed Tomography | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| p) Magnetic Resonance Imaging | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| q) Radiation Therapy Facility | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| r) Veterinary Library w/Literature Searching Capabilities | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| s) Computerized Medical Records w/Searching Capabilities | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| t) Medical Library w/Literature Searching Capabilities | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| u) Intensive Care Facility – 24 hours | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| v) Urethral pressure profile & cystometrography | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| w) Hemodialysis capability | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |
| x) Total parenteral nutrition capability | <input checked="" type="checkbox"/> | <input type="checkbox"/> | On-Site |

If any of the above equipment or facilities are available off-site, please explain how the resident can access them for case management, research, or study.

| | |
|--|-------|
| 6. Total Cardiology caseload per year: | ~2400 |
| Number of cardiac catheterizations per year: | 35-75 |
| Number of echocardiographic examinations per year: | ~1500 |

7. Please list the residents who have completed the cardiology training programs at your site within the last five years, including the year that each individual's training program started and ended. If at all possible, please indicate whether the individual has completed the board certification process.

| Name(s) | Program Start Date (mm/dd/yyyy) | Program End Date (mm/dd/yyyy) | Diplomate Status (Yes or No) |
|---------|------------------------------------|----------------------------------|------------------------------|
|---------|------------------------------------|----------------------------------|------------------------------|

| | | | |
|-----------------------------|------------|------------|-----|
| Dr. Vicky Yang | 07/15/2011 | 12/31/2013 | Yes |
| Dr. Kursten Roderick Pierce | 07/15/2013 | 07/14/2016 | Yes |

8. 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. All current residents and incoming residents (if known) should be listed here. Part Three of this form must be completed for each resident listed here. Unless specifically approved, in advance, by the CRTC, the ratio of cardiology residents to on-site Cardiology Diplomates who are actively involved in resident training cannot exceed 2 to 1.

| Resident Name(s) (first/last) | Program Start Date (mm/dd/yyyy) | Program End Date (mm/dd/yyyy) | Resident Advisor Name(s) (first/last) |
|----------------------------------|------------------------------------|----------------------------------|--|
| Dr. Emily Karlin | 7/15/2015 | 7/14/2018 | John Rush |
| Dr. Amelie Beaumier-Primeau | 7/15/2016 | 7/14/2019 | John Rush |
| Dr. Luis Dos Santos | 7/15/2018 | 7/14/2021 | John Rush |

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

As Program Director, I verify that I have read the Certification Manual and that the above information is an accurate reflection of this Residency Training Program.



American College of **Veterinary** Internal Medicine

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Part Three

Part Three of the Cardiology Residency Training Program addresses general features of the program that apply to each resident enrolled in the program. Please complete a separate Part Three for each resident enrolled in the program.

Current Date:

Program Director Name:

Name of Sponsoring Institution (Residency Training Program):

(Must be a Diplomate of ACVIM in the Specialty of Cardiology or an approved ECVIM Diplomate in Cardiology)

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.

- 1. Please provide the name of the cardiology resident for whom this application applies (leave blank at time of submission for program approval if name is not known). **Information contained in Part Three is applicable to one resident. If more than one resident is involved in the RTP, please complete one separate Part Three for each resident.**

| Resident Name (first/last) | Program Start Date (mm/dd/yyyy) | Program End Date (mm/dd/yyyy) | ACVIM Cardiology Resident Advisor (first/last) |
|----------------------------|------------------------------------|----------------------------------|---|
| Amelie Beaumier-Primeau | 07/15/2016 | 07/14/2019 | John Rush |

- 2. Is the duration of your program thirty six (36) months?

| | |
|-------------------------------------|--------------------------|
| Yes | No |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

If no, explain why the program is longer than thirty six (36) months:

- 3. Advanced Degree:

| Degree | Yes | No | Required |
|----------|--------------------------|-------------------------------------|--------------------------|
| Masters: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| PhD: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

What is the approximate time (months) dedicated to graduate work?

Please provide a description of the graduate degree program if offered, including the didactic program (course work) and inter-relationship with the residency program. Be sure to make clear how the residency requirements will be met:

| |
|--|
| |
|--|

4. Will the resident fulfil the didactic learning opportunities and research requirements as stated in the Part 2 form, section 4?

| | |
|-------------------------------------|--------------------------|
| Yes | No |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

If no, explain how the resident will fulfil the requirements:

Dr. Beaumier has written a grant and is funded and is collecting data for a research project looking at doxorubicin cardiotoxicity in dogs. She has also worked to complete a retrospective study which was initiated during her internship and completed during her residency, presented at the ACVIM Forum, and is now a manuscript under review.

We have cardiology resident specific learning 1 to 2 times a week; Tuesday morning and Thursday morning, from 8-9 are typically earmarked as cardiology resident training sessions. These sessions are divided into journal clubs and book chapters and formal review of cases and review of accumulated graphics. On Wednesday and some Thursdays there are other competing events for the residents to attend; some with a cardiopulmonary focus (e.g., cardiology pathophysiology rounds for medicine residents), and some with general focus (mandatory academic rounds for residents, journal club for SAIM). In addition we occasionally attend cardiology conferences at the University of Massachusetts. There is a Friday morning seminar series at Cummings that also qualifies for CE for RDVMs and this does sometimes have a cardiology focus. Residents can attend CE outside of the university and they attend 1-2 ACVIM Forums during the course of the residency. Residents are asked to participate in lectures and labs for veterinary students. They also are asked to prepare at least 3 in-house CE lectures during the residency.

5. Is training provided at a secondary site to fulfill a portion (not to exceed four (4) months) of the twenty four (24) months of required active (direct) supervision or to fulfill invasive procedural requirements? If Yes, please complete the remainder of this section. [See CM 5.G]

| | |
|--------------------------|-------------------------------------|
| Yes | No |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

If yes, describe in detail:

| |
|--|
| |
|--|

Please list the Secondary Site and responsible Advisor at that site (list all, if more than one):

| |
|--|
| |
|--|

Required training provided by supervising Cardiology Diplomates at secondary sites must be documented by a letter of both commitment and completion sent by the supervisor at the secondary site. Appropriate procedure, echocardiography and structured educational experience logs must also be signed by the supervising Cardiology Diplomat when appropriate. [See CM 5.G]

6. Additional secondary site experiences that do not fulfill a portion of the required twenty four (24) months of active (direct) supervision or the required five hundred (500) echocardiograms, two hundred thirty (230) hours of structured educational experiences or fifteen (15) invasive procedures are supplemental (optional) experiences and do not require documentation from supervising Diplomates.

| | |
|-------------|-------------------------------------|
| Required | <input type="checkbox"/> |
| Recommended | <input checked="" type="checkbox"/> |

Briefly describe any secondary site supplemental outside experiences:

We ask our residents to spend 1-3 weeks either at another veterinary cardiology facility or at a human medical center, dependent upon their area of interest. Dr. Beaumier spent some time at the veterinary school at CSU visiting their cardiology service.

7. Please provide a description of how the required twenty four (24) months of active (direct) supervision will be met or exceeded as well as additional (indirect) supervision to complete the thirty six (36) month training period. [See CM 5.B and 5.C.1 for definitions related to training programs including active (direct) supervision.]

Definitions from 5.B:

Direct Supervision: The SD and resident are participating in a clinical practice in which both the Diplomate and the resident are on the clinic floor interactively, and concurrently managing cases. The Diplomate need not personally examine each patient seen by the resident, but must remain physically available on-site and review the case with the resident.

Indirect Supervision: The SD and resident although participating in a clinical practice together, are not on the clinic floor simultaneously and so are not concurrently managing cases. To qualify as indirect supervision, the SD is required to be on-site and have face to face contact with the resident at least one hour per day for the entire week that the resident is on duty.

Dr. Beaumier will spend at least 24 months of direct (active) supervision in Cardiology over the 3 year period, supervised by Drs. Yang, Cunningham and Rush. She has completed several weeks dedicated to small animal internal medicine, emergency and critical care, diagnostic imaging, research, lecture preparation and studying. Other than these weeks, there will be very little indirect supervision time during the program (typically a cardiologist is always on the clinic floor providing direct supervision)

8. Please provide an outline of a typical weekly schedule

Monday – accept transfers from ICU/ER; go on rounds for in-house cases 8-10:30. Appointments 11-2. In-house consults 4-5:30. Cage rounds 5:30-6:30.
Tuesday – 7:20-8 - accept transfers from ICU/ER. Cardiology rounds or JC 8-9. Cageside rounds 9-10. Appointments 10-12; possible cardiac cath 1-4 pm or more appointments; in-house consults until 5-6; Cageside rounds end of day
Wednesday– 7:20-8 - accept transfers from ICU/ER. SAIM rounds, JC or other rounds 8-9. Cageside rounds 9-10. Appointments 10-1; Cardiac catheterization 1-4 (or appointments if no cath). In-house consults 4-6; Cageside rounds end of day.
Thursday– 7:20-8 - accept transfers from ICU/ER. Cardiology or other rounds 8-9. Cageside rounds 9-10. Appointments 10-4; in-house consults during this time and until 5-6; Cageside rounds end of day.
Friday– 7:30-8 - accept transfers from ICU/ER. Hospital-wide CE 8-9. Cageside rounds 9-10. Appointments 10-4 although some weeks may go to noon U-Mass rounds or to the 7:00 am conference at Umass; in-house consults during the day and until 5-6; Cageside rounds end of day
Saturday/Sunday – 8:30-10 am; cageside rounds for in-house cases; consults on emergency cases as needed.
Discharge hospitalized cases until about 1pm

Name of Residency Training Program:

Tufts Cummings Veterinary Cardiology Program

Note: Signatures are only required on the original application submitted at the time of program registration, not on the annual updates unless significant changes to the training program occur.

Signature of Resident

Printed Name of Resident

Date

Signature of Program Director

Printed Name of Program Director

Date

Signature of Resident Advisor

Printed Name of Resident Advisor

Date

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**

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



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Part Three

Part Three of the Cardiology Residency Training Program addresses general features of the program that apply to each resident enrolled in the program. Please complete a separate Part Three for each resident enrolled in the program.

Current Date:

Program Director Name:

Name of Sponsoring Institution (Residency Training Program):

(Must be a Diplomate of ACVIM in the Specialty of Cardiology or an approved ECVIM Diplomate in Cardiology)

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.

1. Please provide the name of the cardiology resident for whom this application applies (leave blank at time of submission for program approval if name is not known). **Information contained in Part Three is applicable to one resident. If more than one resident is involved in the RTP, please complete one separate Part Three for each resident.**

| Resident Name (first/last) | Program Start Date (mm/dd/yyyy) | Program End Date (mm/dd/yyyy) | ACVIM Cardiology Resident Advisor (first/last) |
|----------------------------|------------------------------------|----------------------------------|---|
| Luis Dos Santos | 07/16/2018 | 07/15/2021 | John Rush |

2. Is the duration of your program thirty six (36) months?

| | |
|-------------------------------------|--------------------------|
| Yes | No |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

If no, explain why the program is longer than thirty six (36) months:

3. Advanced Degree:

| Degree | Yes | No | Required |
|----------|--------------------------|-------------------------------------|--------------------------|
| Masters: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| PhD: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

What is the approximate time (months) dedicated to graduate work?

None

Please provide a description of the graduate degree program if offered, including the didactic program (course work) and inter-relationship with the residency program. Be sure to make clear how the residency requirements will be met:

| |
|--|
| |
|--|

4. Will the resident fulfil the didactic learning opportunities and research requirements as stated in the Part 2 form, section 4?

| | |
|-------------------------------------|--------------------------|
| Yes | No |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

If no, explain how the resident will fulfil the requirements:

Dr. Dos Santos has prior research experience and he has an interest in research. He has done prior research in arrhythmias. We request that our cardiology residents write and submit a grant during the first year of their residency. If the grant is not funded we typically have access to research funds (the Barkey Fund) to help get a research project started. We have cardiology resident specific learning 1 to 2 times a week; Tuesday morning and Thursday morning, from 8-9 are typically earmarked as cardiology resident training sessions. These sessions are divided into journal clubs and book chapters and formal review of cases and review of accumulated graphics. On Wednesday and some Thursdays there are other competing events for the residents to attend; some with a cardiopulmonary focus (e.g., cardiology pathophysiology rounds for medicine residents), and some with general focus (mandatory academic rounds for residents, journal club for SAIM). In addition we occasionally attend cardiology conferences at the University of Massachusetts. There is a Friday morning seminar series at Cummings that also qualifies for CE for RDVMs and this does sometimes have a cardiology focus. Residents can attend CE outside of the university and they attend 1-2 ACVIM Forums during the course of the residency. Residents are asked to participate in lectures and labs for veterinary students. They also are asked to prepare at least 3 in-house CE lectures during the residency.

5. Is training provided at a secondary site to fulfill a portion (not to exceed four (4) months) of the twenty four (24) months of required active (direct) supervision or to fulfill invasive procedural requirements? If Yes, please complete the remainder of this section. [See CM 5.G]

| | |
|--------------------------|-------------------------------------|
| Yes | No |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

If yes, describe in detail:

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Please list the Secondary Site and responsible Advisor at that site (list all, if more than one):

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Required training provided by supervising Cardiology Diplomates at secondary sites must be documented by a letter of both commitment and completion sent by the supervisor at the secondary site. Appropriate procedure, echocardiography and structured educational experience logs must also be signed by the supervising Cardiology Diplomat when appropriate. [See CM 5.G]

6. Additional secondary site experiences that do not fulfill a portion of the required twenty four (24) months of active (direct) supervision or the required five hundred (500) echocardiograms, two hundred thirty (230) hours of structured educational experiences or fifteen (15) invasive procedures are supplemental (optional) experiences and do not require documentation from supervising Diplomates.

| | |
|-------------|-------------------------------------|
| Required | <input type="checkbox"/> |
| Recommended | <input checked="" type="checkbox"/> |

Briefly describe any secondary site supplemental outside experiences:

We ask our residents to spend 1-3 weeks either at another veterinary cardiology facility or at a human medical center, dependent upon their area of interest.

7. Please provide a description of how the required twenty four (24) months of active (direct) supervision will be met or exceeded as well as additional (indirect) supervision to complete the thirty six (36) month training period. [See CM 5.B and 5.C.1 for definitions related to training programs including active (direct) supervision.]

Definitions from 5.B:

Direct Supervision: The SD and resident are participating in a clinical practice in which both the Diplomate and the resident are on the clinic floor interactively, and concurrently managing cases. The Diplomate need not personally examine each patient seen by the resident, but must remain physically available on-site and review the case with the resident.

Indirect Supervision: The SD and resident although participating in a clinical practice together, are not on the clinic floor simultaneously and so are not concurrently managing cases. To qualify as indirect supervision, the SD is required to be on-site and have face to face contact with the resident at least one hour per day for the entire week that the resident is on duty.

Dr. Dos Santos will spend at least 24 months of direct (active) supervision in Cardiology over the 3 year period, supervised by Drs. Yang, Cunningham and Rush. There will also be several weeks dedicated to small animal internal medicine, emergency and critical care, diagnostic imaging, research, lecture preparation and studying. Other than these weeks, there will be very little indirect supervision time during the program (typically a cardiologist is always on the clinic floor providing direct supervision)

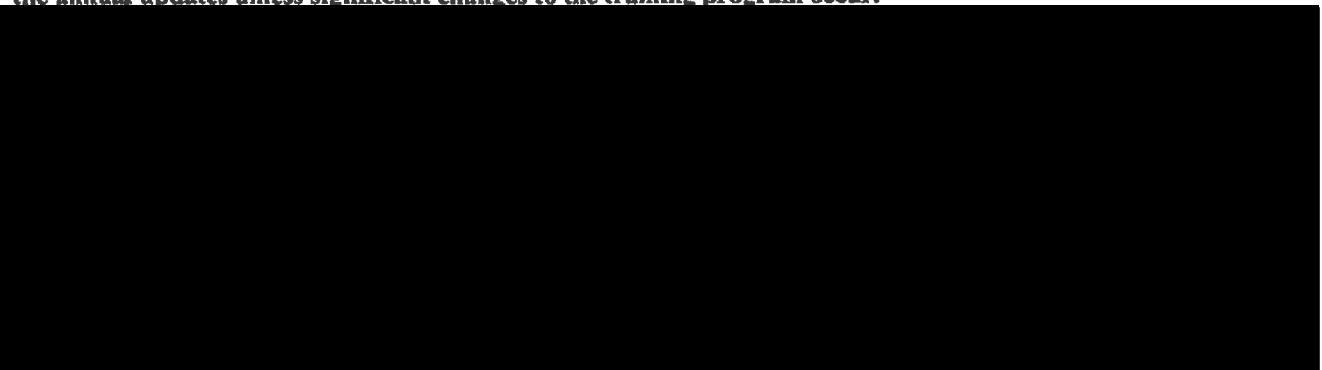
8. Please provide an outline of a typical weekly schedule

Monday – accept transfers from ICU/ER; go on rounds for in-house cases 8-10:30. Appointments 11-2. In-house consults 4-5:30. Cage rounds 5:30-6:30.
Tuesday – 7:20-8 - accept transfers from ICU/ER. Cardiology rounds or JC 8-9. Cageside rounds 9-10. Appointments 10-12; possible cardiac cath 1-4 pm or more appointments; in-house consults until 5-6; Cageside rounds end of day
Wednesday– 7:20-8 - accept transfers from ICU/ER. SAIM rounds, JC or other rounds 8-9. Cageside rounds 9-10. Appointments 10-1; Cardiac catheterization 1-4 (or appointments if no cath). In-house consults 4-6; Cageside rounds end of day.
Thursday– 7:20-8 - accept transfers from ICU/ER. Cardiology or other rounds 8-9. Cageside rounds 9-10. Appointments 10-4; in-house consults during this time and until 5-6; Cageside rounds end of day.
Friday– 7:30-8 - accept transfers from ICU/ER. Hospital-wide CE 8-9. Cageside rounds 9-10. Appointments 10-4 although some weeks may go to noon U-Mass rounds or to the 7:00 am conference at UMass; in-house consults during the day and until 5-6; Cageside rounds end of day
Saturday/Sunday – 8:30-10 am; cageside rounds for in-house cases; consults on emergency cases as needed.
Discharge hospitalized cases until about 1pm

Name of Residency Training Program:

Tufts Cummings Veterinary Cardiology Program

Note: Signatures are only required on the original application submitted at the time of program registration, not on the annual updates unless significant changes to the training program occur.



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**

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



American College of **Veterinary** Internal Medicine

**RESIDENCY TRAINING PROGRAM REGISTRATION
2018-2019
CARDIOLOGY**

Part Three

Part Three of the Cardiology Residency Training Program addresses general features of the program that apply to each resident enrolled in the program. Please complete a separate Part Three for each resident enrolled in the program.

Current Date:

Program Director Name:

Name of Sponsoring Institution (Residency Training Program):

(Must be a Diplomate of ACVIM in the Specialty of Cardiology or an approved ECVIM Diplomate in Cardiology)

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.

1. Please provide the name of the cardiology resident for whom this application applies (leave blank at time of submission for program approval if name is not known). ***Information contained in Part Three is applicable to one resident. If more than one resident is involved in the RTP, please complete one separate Part Three for each resident.***

| Resident Name (first/last) | Program Start Date (mm/dd/yyyy) | Program End Date (mm/dd/yyyy) | ACVIM Cardiology Resident Advisor (first/last) |
|----------------------------|------------------------------------|----------------------------------|---|
| Emily Karlin | 07/15/2015 | 07/14/2018 | John Rush |

2. Is the duration of your program thirty six (36) months?

| | |
|-------------------------------------|--------------------------|
| Yes | No |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

If no, explain why the program is longer than thirty six (36) months:

3. Advanced Degree:

| Degree | Yes | No | Required |
|----------|--------------------------|-------------------------------------|--------------------------|
| Masters: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| PhD: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

What is the approximate time (months) dedicated to graduate work?

Please provide a description of the graduate degree program if offered, including the didactic program (course work) and inter-relationship with the residency program. Be sure to make clear how the residency requirements will be met:

| |
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4. Will the resident fulfil the didactic learning opportunities and research requirements as stated in the Part 2 form, section 4?

| | |
|-------------------------------------|--------------------------|
| Yes | No |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

If no, explain how the resident will fulfil the requirements:

Dr. Karlin has completed the didactic and research requirements already - I believe this should be documented on her submissions to the RTC and CC.

5. Is training provided at a secondary site to fulfill a portion (not to exceed four (4) months) of the twenty four (24) months of required active (direct) supervision or to fulfill invasive procedural requirements? If Yes, please complete the remainder of this section. [See CM 5.G]

| | |
|--------------------------|-------------------------------------|
| Yes | No |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

If yes, describe in detail:

| |
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Please list the Secondary Site and responsible Advisor at that site (list all, if more than one):

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Required training provided by supervising Cardiology Diplomates at secondary sites must be documented by a letter of both commitment and completion sent by the supervisor at the secondary site. Appropriate procedure, echocardiography and structured educational experience logs must also be signed by the supervising Cardiology Diplomat when appropriate. [See CM 5.G]

6. Additional secondary site experiences that do not fulfill a portion of the required twenty four (24) months of active (direct) supervision or the required five hundred (500) echocardiograms, two hundred thirty (230) hours of structured educational experiences or fifteen (15) invasive procedures are supplemental (optional) experiences and do not require documentation from supervising Diplomates.

| | |
|-------------|-------------------------------------|
| Required | <input type="checkbox"/> |
| Recommended | <input checked="" type="checkbox"/> |

Briefly describe any secondary site supplemental outside experiences:

We ask our residents to spend 1-3 weeks either at another veterinary cardiology facility or at a human medical center, dependent upon their area of interest. Dr. Karlin is scheduled to spend at week at the University of Massachusetts Memorial Hospital observing cardiologists at that facility.

7. Please provide a description of how the required twenty four (24) months of active (direct) supervision will be met or exceeded as well as additional (indirect) supervision to complete the thirty six (36) month training period. [See CM 5.B and 5.C.1 for definitions related to training programs including active (direct) supervision.]

Definitions from 5.B:

Direct Supervision: The SD and resident are participating in a clinical practice in which both the Diplomat and the resident are on the clinic floor interactively, and concurrently managing cases. The Diplomat need not personally examine each patient seen by the resident, but must remain physically available on-site and review the case with the resident.

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Dr. Karlin will complete the required 24 months of active (direct) supervision working with Drs. Yang, Cunningham or Rush.

8. Please provide an outline of a typical weekly schedule

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Discharge hospitalized cases until about 1pm

Name of Residency Training Program:

Tufts Cummings Veterinary Cardiology Program

Note: Signatures are only required on the original application submitted at the time of program registration, not on the annual updates unless significant changes to the training program occur.

Signature of Resident

Printed Name of Resident

Date

Signature of Program Director

Printed Name of Program Director

Date

Signature of Resident Advisor

Printed Name of Resident Advisor

Date

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.

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- change of Program Director or Resident Advisor

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