



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](http://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:

[Dr. Stacey B. Leach](#)

(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:	<a href="tel:5738827821">(573) 882-7821</a>
E-mail:	<a href="mailto:leachsb@missouri.edu">leachsb@missouri.edu</a>
Mailing Address:	<a href="#">Medicine &amp; Surgery, CVM</a> <a href="#">900 E. Campus Dr., Clydesdale Hall</a> <a href="#">Columbia, MO 65211</a>

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

Primary Site:

[University of Missouri](#)

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

[None listed](#)

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.**

[Stacey Leach](#)

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

[Stacey Leach - 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

[Joan Coates - Neurology](#)  
[Leah Cohn - SAIM](#)  
[Lindsay Donnelly - Oncology](#)  
[Carolyn Henry - Oncology](#)  
[Philip Johnson - LAIM](#)  
[Dennis O'Brien - Neurology](#)  
[Carol Reiner - SAIM](#)  
[Amy DeClue - SAIM](#)  
[Jeffrey Bryan - Oncology](#)  
[Brian Flesner - Oncology](#)  
[Megan Grobman - 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 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, Dates of Program, (Resident Advisor) \*

[Lyndsay Kong 7.15.16 - 7.14.19 \(Stacey Leach\)](#)  
[Kelly Wigger 7.15.17 - 7.14.20 \(Stacey Leach\)](#)

**\* 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  
2018-2019  
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
Marlyn Whitney	Clinical	
Linda Berent	Both	
Chuck Wiedmeyer	Clinical	
Angela Royal	Clinical	
Gayle Johnson	Gross	
Dae Young Kim	Gross	
Daniel Shaw	Gross	
Keiichi Kuroki	Gross	
Fred Williams	Gross	
Jeff Mitchell	Gross	
Tamara Hancock	Clinical	

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
James Lattimer	ACVR
Jodi Matheson	ACVR
Charles Maitz	ACVR- rad onco

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
Cecil Moore	Ophthalmology	Part time
Elizabeth Giuliano	Ophthalmology	
Kevin Donnelly	Ophthalmology	
Keith Branson	Anesthesiology	
John Dodam	Anesthesiology	
Alex Bukoski	Anesthesiology	
Fred Anthony Mann	Surgery & ECC	

James Tomlinson Derek Fox Jill Luther Tim Evans Dawna Voelkl Dietrich Volkmann David Senter Robert Backus Lauren Young Becky Greer Mike Karagiannis Karen Campbell Carrie Duran Bryan Torres Owen Skinner	Surgery Surgery Surgery Therio & Toxicology Theriogenology Theriogenology Dermatology Nutrition Nutrition ECC ECC Dermatology Pharmacy Surgery Surgery	Part time      Part-time  Part-time (until new hire) Part-time (until new hire) Off-site (satellite clinic)
A new criticalist has been hired and will start this fall; a search is active for another 2 criticalists		

**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.

Journal club is offered weekly on Friday mornings from 8:10-9:00am and is attended by house officers and faculty from ACVIM related specialties (internal medicine, neurology, oncology, cardiology).

- 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]

Residents are also encouraged to attend the ACVIM Forum. Residents attend weekly house officer seminars and are required to do 1 presentation each year of the residency. Residents also attend weekly clinicopathologic conferences (CPC) (~30 hours/year) in which ACVIM boarded faculty and residents present a case for discussion. Residents are required to present 1 case/year of the residency.

The cardiology service has weekly book club, held every Thursday from 8:10-9:00 am. We also have weekly cardiology resident rounds on every Tuesday from 8:10-9:00am in which we alternate between cardiology journal club (every other week) and either cardiovascular imaging/hemodynamic rounds or case morbidity/mortality rounds. We also attend and present cases for a hospital wide pathology rounds (Wednesday 8:10-9:00am) when cases are available

Residents attend the Ohio State Board Review session during the spring of their third year. Additionally, the University of Missouri holds a state-wide annual 1-day Cardiovascular Sciences research symposium that residents are expected to attend and present research in abstract form. The University of Missouri School of Medicine has weekly cardiovascular ground round seminars and daily fellow rounds that the residents and faculty attend based on topics as clinical duties permit.

Residents pursuing a concurrent Master's of Science are required to complete at least 30 hours of course work. Residents not pursuing a concurrent Master's of Science are expected to audit and attend courses similar to what is required of graduate students

- 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.

A research project (retrospective or prospective study) is required of this cardiology residency, and the resident is expected to submit either an extra or intramural grant to help fund the project. The project can be presented at either a University of Missouri research conference, ACVIM, or both. A manuscript is expected to be generated from the research.

A concurrent master's of science is optional for the cardiology residency. The graduate student is expected to submit one or more grant proposals to support his/her work. Further, the student is expected to submit the work for presentation at ACVIM, and complete a manuscript for publication.

As part of the training program, the MS student is required to take at least one statistics class, a research ethics course, and attend at least one Grant Writing seminar offered through the University of Missouri's Grant's Department. Students not enrolled in the Master's program can audit any of the courses including statistics and research ethics.

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 checked="" type="checkbox"/>	<input type="checkbox"/>	On-site
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: (includes CBC, serum chemistries, blood gases, urinalysis, cytology, parasitology, microbiology, endocrinology, anatomic and histopathology)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	On-site
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]
- o) Computed Tomography
- p) Magnetic Resonance Imaging
- q) Radiation Therapy Facility
- r) Veterinary Library w/Literature Searching Capabilities
- s) Computerized Medical Records w/Searching Capabilities
- t) Medical Library w/Literature Searching Capabilities
- u) Intensive Care Facility – 24 hours
- v) Urethral pressure profile & cystometrography
- w) Hemodialysis capability
- x) Total parenteral nutrition capability

<input checked="" type="checkbox"/>	<input type="checkbox"/>	On-site
<input checked="" type="checkbox"/>	<input type="checkbox"/>	On-site
<input checked="" type="checkbox"/>	<input type="checkbox"/>	On-site
<input checked="" type="checkbox"/>	<input type="checkbox"/>	On-site
<input checked="" type="checkbox"/>	<input type="checkbox"/>	On-site
<input checked="" type="checkbox"/>	<input type="checkbox"/>	On-site
<input checked="" type="checkbox"/>	<input type="checkbox"/>	On-site
<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<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:  
 Number of cardiac catheterizations per year:  
 Number of echocardiographic examinations per year:

865
38
855

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)
Mark W. Harmon	7/15/2014	7/14/2017	Yes
Sarah E. Clay	7/15/2012	7/15/2015	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)
Lyndsay R. Kong	7/15/2016	7/14/2019	Stacey Leach
Kelly E. Wiggen	7/15/2017	7/14/2020	Stacey Leach

**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

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: 2/22/2018

Program Director Name: Stacey B. Leach

Name of Sponsoring Institution (Residency Training Program): University of Missouri

(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.

Table with 4 columns: Resident Name (first/last), Program Start Date (mm/dd/yyyy), Program End Date (mm/dd/yyyy), ACVIM Cardiology Resident Advisor (first/last). Row 1: Lyndsay R. Kong, 7/15/2016, 7/14/2019, Stacey Leach

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

Yes No
[X] [ ]

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

[Empty text box for explanation]

- 3. Advanced Degree:

Table with 4 columns: Degree, Yes, No, Required. Row 1: Masters: [ ] [X] [ ] [ ] Row 2: PhD: [ ] [X] [ ] [ ]

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

[Empty text box for graduate work time]

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:

Residents may pursue a concurrent Masters of Science in Biomedical Science with an emphasis on Veterinary Medicine and Surgery. Students must complete all graduate work with a GPA of 3.0 or better and complete a minimum of 30 semester hours of graduate course credit. Didactic classes are offered both within the graduate department of the College of Veterinary Medicine and the University of Missouri. Required courses include statistics and research ethics. Other courses may be chosen that specifically apply to his/her research project or courses useful for preparation for the General and Certifying examinations (immunology, endocrinology, cardiovascular physiology, etc.) Courses are usually offered from 7-8:00 am prior to clinical duties. Completion and defense of a thesis describing original investigative research completed by the candidate is required.

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:

Residents enrolled in a Master's of Science program are expected to design a research project, submit grant proposals to secure funding if needed, and carry out all aspects of the research and manuscript preparation. The thesis serves as the basis for a manuscript for publication. Residents not enrolled in the Master's of Science program are still expected to complete a research project, either retrospective or prospective in nature. It is expected that the results of the project will be presented in abstract form at either the University of Missouri Phi Zeta Research Day, Cardiovascular Research Day, and/or ACVIM Forum. Publication in a peer-reviewed journal is also expected.

Residents not enrolled in the Master's program are expected to audit key courses which may include the following: statistics, respiratory physiology, advanced physiology, immunology, endocrinology, cardiovascular physiology, advanced oncology, emergency critical care.

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 Diplomate 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:

Residents are encouraged to spend 2-4 weeks at a different institution or private practice hospital



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.

Residents exceed the required 24 months of clinical duty under direct supervision. A cardiology diplomate is always on service with the resident during the work week. Availability of the cardiologist for afterhours/weekend is dependent on the case complexity and skill level of the resident at that time. Residents infrequently cover the clinic floor without the presence of a supervising cardiologist during times such as annual vacation or during University recognized holidays.

8. Please provide an outline of a typical weekly schedule

8:00 - 9:00	Monday - Clinicopathologic Conference (CPC) Tuesday - Cardiology Journal Club or Imaging/Hemodynamic Rounds Wednesday - Pathology Rounds Thursday - Cardiology Book Club Friday - Internal Medicine Journal Club
9:00 - 10:00	Student Topic Rounds
10:00 - 12:00	Mon - Fri Receive cases. Wednesday is set aside for interventional procedures day.
12:00 - 1:00	Friday - House Officer Seminar
10:00 - 4:00	Work-up cases and consults
4:00 - 5:30	Discharge patients

The cardiology service is on-call for the University of Missouri's Veterinary Health Center for afterhours and weekend cardiology emergencies cases.

Name of Residency Training Program:

University of Missouri

**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

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Part Three

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Current Date: 2/22/2018

Program Director Name: Stacey B. Leach

Name of Sponsoring Institution (Residency Training Program): University of Missouri

(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.

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Table with 4 columns: Resident Name (first/last), Program Start Date (mm/dd/yyyy), Program End Date (mm/dd/yyyy), and ACVIM Cardiology Resident Advisor (first/last). Row 1: Kelly E. Wiggen, 7/15/2017, 7/14/2020, Stacey Leach

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

Yes [X] No [ ]

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

[Empty text box for explanation]

- 3. Advanced Degree:

Table with 4 columns: Degree, Yes, No, Required. Row 1: Masters: [ ], [X], [ ], [ ]. Row 2: PhD: [ ], [X], [ ], [ ].

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

[Empty text box for time 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:

Residents may pursue a concurrent Masters of Science in Biomedical Science with an emphasis on Veterinary Medicine and Surgery. Students must complete all graduate work with a GPA of 3.0 or better and complete a minimum of 30 semester hours of graduate course credit. Didactic classes are offered both within the graduate department of the College of Veterinary Medicine and the University of Missouri. Required courses include statistics and research ethics. Other courses may be chosen that specifically apply to his/her research project or courses useful for preparation for the General and Certifying examinations (immunology, endocrinology, cardiovascular physiology, etc.) Courses are usually offered from 7-8:00 am prior to clinical duties. Completion and defense of a thesis describing original investigative research completed by the candidate is required.

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:

Residents enrolled in a Master's of Science program are expected to design a research project, submit grant proposals to secure funding if needed, and carry out all aspects of the research and manuscript preparation. The thesis serves as the basis for a manuscript for publication. Residents not enrolled in the Master's of Science program are still expected to complete a research project, either retrospective or prospective in nature. It is expected that the results of the project will be presented in abstract form at either the University of Missouri Phi Zeta Research Day, Cardiovascular Research Day, and/or ACVIM Forum. Publication in a peer-reviewed journal is also expected.

Residents not enrolled in the Master's program are expected to audit key courses which may include the following: statistics, respiratory physiology, advanced physiology, immunology, endocrinology, cardiovascular physiology, advanced oncology, emergency critical care.

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:

Residents are encouraged to spend 2-4 weeks at a different institution or private practice hospital

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.

Residents exceed the required 24 months of clinical duty under direct supervision. A cardiology diplomate is always on service with the resident during the work week. Availability of the cardiologist for afterhours/weekend is dependent on the case complexity and skill level of the resident at that time. Residents infrequently cover the clinic floor without the presence of a supervising cardiologist during times such as annual vacation or during University recognized holidays.

8. Please provide an outline of a typical weekly schedule

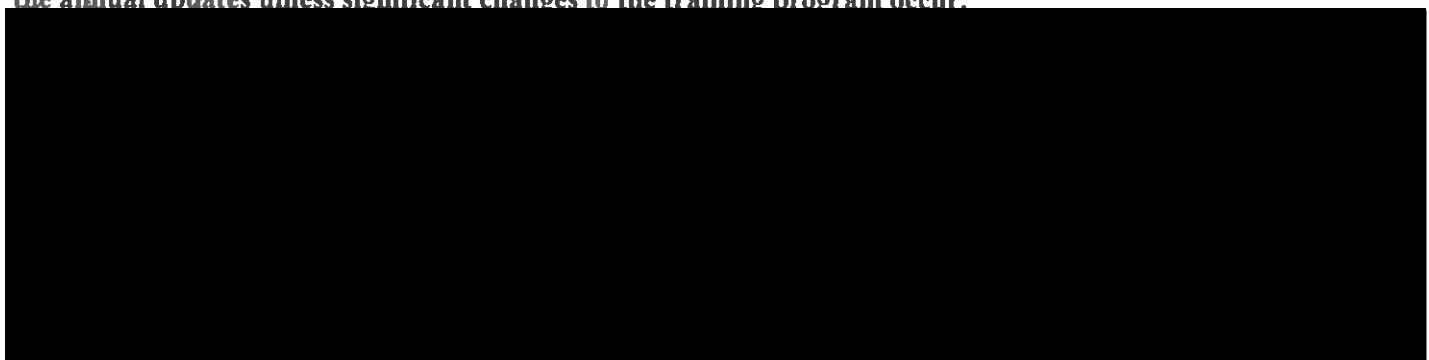
8:00 - 9:00	Monday – Clinicopathologic Conference (CPC) Tuesday – Cardiology Journal Club or Imaging/Hemodynamic Rounds Wednesday - Pathology Rounds Thursday – Cardiology Book Club Friday – Internal Medicine Journal Club
9:00 - 10:00	Student Topic Rounds
10:00 - 12:00	Mon - Fri Receive cases. Wednesday is set aside for interventional procedures day.
12:00 - 1:00	Friday - House Officer Seminar
10:00 - 4:00	Work-up cases and consults
4:00 - 5:30	Discharge patients

The cardiology service is on-call for the University of Missouri's Veterinary Health Center for afterhours and weekend cardiology emergencies cases.

Name of Residency Training Program:

University of Missouri

**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.**