



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="(334) 850-0422"/>
E-mail:	<input type="text" value="szj0026@auburn.edu"/>
Mailing Address:	<input type="text" value="Cardiology Service, College of Vet Med"/>
	<input type="text" value="Auburn University"/>
	<input type="text" value="Auburn, AL 36849"/>

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.**

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

SeungWoo Jung - Cardiology Randolph Winter - Cardiology
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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

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) *
Daniel Newhard 7.15.16 - 7.14.19 (SeungWoo Jung)

*** 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

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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: Jan 29th, 2018

Program Director Name: SeungWoo Jung, DVM, MS, PhD, ACVIM (Cardiology)

(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): Auburn University College of Veterinary Medicine (AUCVM)

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
Elizabeth Welles	Clinical	
Elizabeth Spangler	Clinical	
Pete Christopherson	Clinical	
Cinzia Mastrorilli	Clinical	
Emily Graff	Clinical	
Eva Sartin	Gross	
Calvin Johnson	Gross	
Heather Walz	Gross	
Jennifer Koehler	Gross	
Russell Cattley	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
Greg Almond	
William Brawner	
John Hathcock	
Merilee Holland	
Robert Cole	
Rachael Moon	

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
Bob Kennis	DACVD	
Amelia White	DACVD	
Lenore Bacek	DACVECC	
Kendon Kuo	DACVECC	
Jacob Johnson	DACVA	

Stuart Clark-Price Harry Boothe Michael Tillson Jamie Bellah Brad Matz Amie Johnson Robyn Wilborn Dawn Boothe Phillip Moore Richard McMullen	DACVA DACVS DACVS DACVS DACVS DACT DACT DACVCP DACVO DACVO	
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4. **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 GIG D.2.d]:

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.

1) The resident will be required to attend a one hour Cardiology journal club weekly (120 hrs/3 year) - 80 of these hours will be dedicated to meeting the Journal Club requirement. The remaining 40 hours will be used to meet the Cardiology focused educational requirement.

B. 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.

1) Residents will attend ACVIM short courses each year. 2), 3), 4) and 5) will be required. Participation in a Master of Science degree program is required of all clinical science residents at Auburn University. A prospective or retrospective research project is required as part of the Masters/residency program. The resident will be required to write a grant in order to obtain funding for the research project. Please note that the current cardiology resident (Dr. Daniel Newhard) received the ACVIM Cardiology Resident Research award this year. The resident will be required to present the results of their research at a scientific meeting (an oral abstract will be encouraged).

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 GIG E.1.h.1 for details.

Available?	Location of equipment?
Yes No	(On-site or list

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)
Daniel/Newhard	07/15/2016	07/14/2019	SeungWoo/Jung

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

X 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

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)
Daniel/Newhard	07/15/2016	07/14/2019	SeungWoo/Jung

- 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PhD:	<input type="checkbox"/>	<input 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:

The MS can be done with or without a thesis. With either option, required credits can be completed by taking one course per semester that the resident is at Auburn. With the thesis option, 16-18 semester hours of graded coursework are required with the balance incorporating seminars and research time. With the non-thesis option, 21 semester hrs of graded coursework are required. In either case, a total of 30 semester hours are needed as well as completion of a prospective research project. The degree conferred at completion of either program is Master of Science in Biomedical Sciences. The didactic courses cover many areas designed to aid the individual in successful completion of the residency and the boards as well as to acquaint them with scientific method

4. ACVIM Research Requirement:

Please describe how this trainee will satisfy the research requirements outlined in Part 1.9 of the Residency application (GIG D.2.d). Progress towards this requirement should be updated annually in the renewal application. Documentation of successful completion of the research requirement will need to be included in the form letter provided by the advisor that confirms the candidate's completion of this requirement. This letter should be submitted with the Resident Logs to the Residency Training Committee in the final year of their program.

Options 2, 3 and 4 will be required. Participation in the MS degree program is required of all clinical residents at AU. A prospective or retrospective research project is required as part of the Masters/residency program. The resident will be required to write a grant in order to obtain funding for the research project. The resident will be required to present the results of their research at a scientific meeting (an oral abstract will be encouraged).

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 GIG E.1.a.4 for a listing of definitions related to training programs including active (direct) supervision. See GIG D.2.d]

Yes	No
<input type="checkbox"/>	X <input 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 GIG E.1.a.4.]

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	X <input type="checkbox"/>

Briefly describe any secondary site supplemental outside experiences:

1. Two week rotation at a human cardiology facility will be encouraged
2. Attendance at one human cardiology scientific meeting (ACC or AHA) will be encouraged
3. One or two outside rotations (2-4 weeks) at another approved cardiology residency program will be strongly encouraged

7. Please provide a description of how the required one hundred fifty (150) hours of cardiology focused structured educational experiences will be met or exceeded. [See GIG E.g.1]

- 1) The resident will be required to attend a one hour Cardiology Journal Club weekly (120 hr/3 years) - 80 of these hours will be dedicated to meeting the Journal Club requirement, and the remaining 40 hours will be used to meet the Cardiology focused educational requirement.
- 2) The resident will be required to attend biweekly house officer seminars (60hr/3 years).
- 3) The resident will be required to attend biweekly morbidity and mortality rounds (60hr/3 years).
- 4) The resident will be required to attend Cardiology focused educational experiences; biweekly cardiology book club (60hr/3 years), monthly cardiology graphics rounds (30 hr/3 years), participation in an advanced cardiology graduate course (10hr/3 years), and attendance of two ACVIM conferences (20hr/3 years).

8. 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 GIG D.2.f and E.1.a.3 for definitions related to training programs including active (direct) supervision.]

Definitions from D.2.f:

Direct Supervision: The Supervising Diplomate and resident are participating in a clinical practice in which both the Diplomate and the resident are on duty interactively and concurrently managing cases. The Diplomate need not personally examine each patient seen by the resident, but must remain physically available for consultation.

Indirect Supervision: The Supervising Diplomate and resident, although participating in a clinical practice together, are not on duty simultaneously and so are not concurrently managing cases. To qualify as Indirect Supervision, the Supervising Diplomate(s) is required to have face-to-face contact with the resident for at least one (1) hour per day for four (4) days per week.

The resident will spend approximately 38-40 weeks on Cardiology/year

- Year 1: Resident will get 4 weeks for research, 4 weeks on other services (i.e., Internal Medicine) and 2 weeks of vacation. The remaining 40 weeks will be spent on cardiology. The resident will be directly supervised for the entire 40 weeks of year one. (10 months direct supervision)
- Year 2: The resident will get 4 weeks for research, 4 weeks on other services (i.e., Internal Medicine) and 2 weeks of vacation. The resident will be given 4 weeks off for board study. The remaining 38 weeks will be spent on Cardiology. Direct supervision will be provided for the entire 38 weeks of year 2. (9 months direct supervision)
- Year 3: The resident will get 4 weeks for research and 2 weeks of vacation. The resident will be given 6 weeks off for board study. The remaining 40 weeks will be spent on Cardiology. Direct supervision will be provided for at least 20 weeks of year three. (5 months direct supervision)
- Indirect supervision will comprise the remainder of the resident's training.

9. Please provide an outline of a typical weekly schedule

Monday, Tuesday, Thursday

8am: Clinical case/topic rounds with students (resident will be required to run rounds in years 2 and 3)

9am-11:45am: Receiving – in-house patient transfers, receiving of clinical cases and determination of diagnostic plans

11:45am-5pm: Clinical case work-ups (diagnostic testing and interpretation), in-house consultations, and patient discharges

Monday:

7am-8am: Biweekly Cardiology Book Club/Monthly Graphics Rounds

Wednesday:

8am-9am: Case/topic rounds with students

9am-until: Interventional procedures

Friday:

8am-9am: Cardiology Journal Club

10am-12pm: Receiving – in-house patient transfers, receiving of clinical cases and determination of diagnostic plans

12pm-5pm: Clinical case work-ups (diagnostic testing and interpretation), in-house consultations, and patient

discharges

Saturday/Sunday/Holidays: Cardiology emergency on call

Name of Residency Training Program:

Auburn University 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	_Daniel Newhard_____ Printed Name of Resident	__Jan 29 th , 2018_____ Date
_____ Signature of Program Director	_SeungWoo Jung_____ Printed Name of Program Director	__Jan 29 th , 2018_____ Date
_____ Signature of Resident Advisor	_SeungWoo Jung_____ Printed Name of Resident Advisor	__Jan 29 th , 2018_____ Date

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