



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:

[Dr. Thaibinh P. Nguyenba](#)

(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:	(614) 431-4405
E-mail:	thaibinh.nguyenba@gmail.com
Mailing Address:	300 E. Wilson Bridge Rd. Worthington, OH 43085

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

Primary Site:

[Medvet Medical & Cancer Center for Pets](#)

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.**

Thaibinh Nguyenba
Ioannis (Yanni) Giatis
Linda Lehmkuhl

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

Linda Lehmkuhl - Cardiology
Thaibinh Nguyenba - Cardiology
Ioannis (Yanni) Giatis - 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

Sasha Dixon - Neurology
William Fenner - Neurology
Lisa Fulton - Oncology
Erin Malone - Oncology
Melissa Wallace - SAIM
Roger Hostutler - SAIM
Stephen Martinez - SAIM
Sean Surman - SAIM
Melissa Clark - SAIM
Mathew Lovett - Neurology

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) *

Kevin Render 6.27.16 - 6.28.19 (Ioannis Giatis)
Kimberly Cook 7.9.18 - 7.9.21 (Thaibinh Nguyenba)

* **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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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: February 10, 2018

Program Director Name: Thaibinh Nguyenba DVM DACVIM 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): MedVet Medical & Cancer Centers for Pets (Worthington, OH)
Cardiology Residency 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
Melissa Blauvelt Mark Chalkley Stephanie Corn Holly Minard	Clinical Gross Clinical Clinical	Pathologists are affiliated with IDEXX Laboratories and work adjacent to the Worthington, OH MedVet Hospital, within the MedVet Administrative building. Face-to-face interactions & consultations occur daily regarding cases. A pathologist provides monthly clinical pathology rounds to all MedVet interns/residents.

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
Christopher Brouwer Jon Shiroma Adam Watson	

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
John Gordon Natalie Theus Matt Barnhart Kevin Benjamino Jennifer Carr Robert Dudley Shawn Kennedy Eric Schertel Terah Webb Deb Prescott Jenny Schutte	Dermatology Dermatology Surgery Surgery Surgery Surgery Surgery Surgery Ophthalmology Radiation Oncology Radiation Oncology	*Anesthesia and Critical Care support provided by MedVet Cincinnati anesthesiologist and criticalist, respectively, with case review and consultations occurring daily. Regular rounds are provided by these services as well. **Avian and Exotic support provided by Dr. Oglesbee at MedVet Hilliard, Ohio location, approximately 16 miles from primary training site. Regular daily communication and transport occurs between the two MedVet practices in Hilliard and Worthington, Ohio.

<p>Martin Kennedy Rachel Halpin Barbara Oglesbee Melissa Clark</p>	<p>Anesthesiology* Emergency/CC* Avian/Exotic** Clinical Pharmacology</p>	<p>Regular cardiac consultation is provided for Dr. Oglesbee, who commutes to the Worthington branch with her patients during the consultation.</p>
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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.

- 1) Internal Medicine Journal/Book Club: 1 hour/week - at least 45 hours/year; 135 hours/program
- 2) Grand Rounds: 1 hour every 2 weeks - 25 hours/year; 75 hours/program
- 3) Clinical Pathology Rounds: 1 hour monthly - 12 hours/year; 36 hours/program
- 4) Anesthesia Rounds: 1 hour monthly available - 12 hours/year; 36 hours/program
- 5) Morbidity & Mortality Rounds: 1 hour monthly available - 10-12 hours/year; 30-36 hours/program

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]

- 1) Cardiology Journal Club: 1 hour weekly - at least 45 hours/year; 135 hours/program
- 2) Cardiology Book/ECG/Image Rounds: 1 hour weekly - at least 45 hours/year; 135 hours/program
- 3) Cardiology Great Cases Conference: 1 hour every 2 months - 4-6 hours/year; 12-18 hours/program
- 4) Cardiology Special Topic Rounds (images, single disease focus, catheterization techniques, or research topics): average 1 hour every 2 months - 4-6 hours/year; 12-18 hours/program
- 5) Hospital ECG Rounds: 1 hour every 2 months - 6 hours/year; 18 hours/program

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 residents have completed original research. Since 2009, this has included completion of both prospective and retrospective research, submission of grants, acceptance and presentation of oral abstracts, and manuscript publication.

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:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	On-site and at adjacent IDEXX Laboratories
(includes CBC, serum chemistries, blood gases, urinalysis, cytology, parasitology, microbiology, endocrinology, anatomic and histopathology)			
g) Serum osmolality measurement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
h) Colloid oncotic pressure measurement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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 checked="" type="checkbox"/>	<input type="checkbox"/>	On-site
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"/>	MedVet institutional access licence + OSU Veterinary School Libraries
s) Computerized Medical Records w/Searching Capabilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
t) Medical Library w/Literature Searching Capabilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	OSU Medical School Libraries
u) Intensive Care Facility – 24 hours	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
v) Urethral pressure profile & cystometrography	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
w) Hemodialysis capability	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
x) Total parenteral nutrition capability	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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.

- Supplemental library access at medical and veterinary school is within 20 minutes from primary training site.
- Clinical pathology capabilities provided by both in-house equipment and IDEXX Laboratories in adjacent MedVet Administrative building.

Total Cardiology caseload per year:

3300 cases/year

6. Number of cardiac catheterizations per year:
 Number of echocardiographic examinations per year:

30-40 procedures/year
2000/year

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)
Dawn Webber	07/01/2011	06/30/2014	Yes
Ioannis (Yanni) Giatis	07/01/2012	06/30/2015	Yes
Robert George	07/01/2014	06/30/2017	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 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(s) (first/last)	Program Start Date (mm/dd/yyyy)	Program End Date (mm/dd/yyyy)	Resident Advisor Name(s) (first/last)
Kevin Render	06/27/2016	06/28/2019	Ioannis (Yanni) Giatis
Kimberly Cook	07/09/2018	07/09/2021	Thaibinh Nguyenba

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.



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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)
Kimberly Cook	07/09/2018	07/09/2021	Thaibinh Nguyenba

- 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:

Not applicable

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:

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:

- 1) Residents may travel 2 hours to MedVet Cincinnati for some (2-4 per year) catheter ablation procedures, which would not be counted toward fulfillment of any of the minimal requirements set forth for invasive procedures. This is considered supplemental to the experiences obtained at MedVet in Worthington.
- 2) Cardiology Journal/Book club and gross pathology rounds (with Ohio State University) - optional attendance

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.

Clinical Program: Residents will have primary case care under direct mentorship of two different boarded cardiologists during the work week. Weekend ER coverage will be provided by the cardiology resident with back-up by a supervising cardiologist as needed. Residents will provide care to referral cardiology cases and in-house consultations in a large (54,000 sq ft), busy multi-specialty referral/ER practice (greater than 60,000 cases/year). The cardiology suite is designed to allow continuous interaction between resident and mentors throughout the clinical day; all cases are evaluated concurrently by both resident and supervising diplomate. Echocardiograph, blood pressure recording equipment, ECG machines, telemetry review station, Holter review stations, radiology review station, and fluoroscopy review station are all in the same 3-room cardiology suite. Full service catheterization suite is available on-site with digital subtraction, road-mapping, pressure injector, and invasive electrophysiologic capabilities. A third boarded cardiologist may interact directly with the residents 2 to 4 times yearly for catheter ablation procedures (considered limited supplemental experience at MedVet Cincinnati site, 2 hours away). Regular cardiac evaluations for varied zoo animals are performed by one or more of the program's cardiologists alongside the resident at MedVet at the local zoo. Primate cardiac exams may involve the MedVet Cardiology team, a human cardiologist, and a human echocardiogram technician. The Resident is "off-clinics" for approximately 5 to 6 months of the 36 month residency for research and study purposes. Direct supervision in the residency program is for approximately 30 to 31 months in regard to clinic time.

8. Please provide an outline of a typical weekly schedule

Clinical Schedule:

- 1) 7:30/8 - 9 AM: Didactic Program rounds (see below)
 - 2) 7 - 8/9 AM: Review of in-patients and transfers.
 - 3) 9 AM - 6 PM: See scheduled appointments, perform in-house consults
- First year of residency only: Resident will see ER patients on average three 12 hour shifts per month.

Didactic Cardiology Program:

- 1) Monthly Hospital ECG Rounds or Cardiology Great Cases Conference: Wednesdays 8 AM - 9 AM
- 2) Weekly Cardiology Journal Club: Thursdays 8AM - 9 AM
- 3) Weekly Cardiology Book/ECG/Image Rounds: Fridays or Saturdays 8 AM - 9 AM
- 4) Cardiology Special Topic Rounds: Varied dates, average once every 2 months

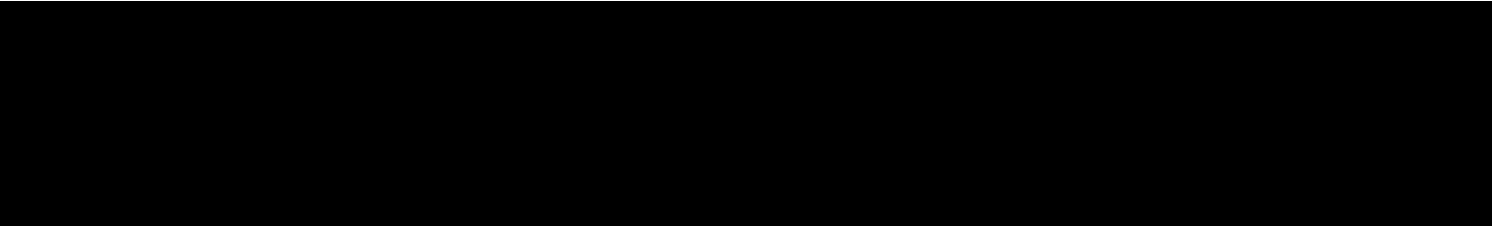
Didactic (All Body Systems) Program:

- 1) Grand Rounds: twice monthly (presentation required of residents 2 times/year); Every other Wednesday 8 - 9 AM
- 2) Internal Medicine Journal/Book Club: weekly; Tuesdays 7:30 AM - 8:30 AM
- 3) Clinical Pathology Rounds: monthly; Monday 8 AM - 9 AM.
- 4) Anesthesia Rounds: monthly; Friday 7:30 AM - 8:30 AM
- 5) Morbidity & Mortality Rounds: monthly; Thursday 8 AM - 9 AM

Name of Residency Training Program:

MedVet Medical & Cancer Centers for Pets (Worthington, OH) Cardiology Residency 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.



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



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Part Three

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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)

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Resident Name (first/last)	Program Start Date (mm/dd/yyyy)	Program End Date (mm/dd/yyyy)	ACVIM Cardiology Resident Advisor (first/last)
Kevin Render	06/27/2016	06/28/2019	Ioannis (Yanni) Giatis

- 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:

Not applicable

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:

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):

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

Briefly describe any secondary site supplemental outside experiences:

1) Residents may travel 2 hours to MedVet Cincinnati for some (2-4 per year) catheter ablation procedures, which would not be counted toward fulfillment of any of the minimal requirements set forth for invasive procedures. This is considered supplemental to the experiences obtained at MedVet in Worthington.
2) Cardiology Journal/Book club and gross pathology rounds (with Ohio State University) - optional attendance

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.

Clinical Program: Residents will have primary case care under direct mentorship of two different boarded cardiologists during the work week. Weekend ER coverage will be provided by the cardiology resident with back-up by a supervising cardiologist as needed. Residents will provide care to referral cardiology cases and in-house consultations in a large (54,000 sq ft), busy multi-specialty referral/ER practice (greater than 60,000 cases/year). The cardiology suite is designed to allow continuous interaction between resident and mentors throughout the clinical day; all cases are evaluated concurrently by both resident and supervising diplomate. Echocardiograph, blood pressure recording equipment, ECG machines, telemetry review station, Holter review stations, radiology review station, and fluoroscopy review station are all in the same 3-room cardiology suite. Full service catheterization suite is available on-site with digital subtraction, road-mapping, pressure injector, and invasive electrophysiologic capabilities. A third boarded cardiologist may interact directly with the residents 2 to 4 times yearly for catheter ablation procedures (considered limited supplemental experience at MedVet Cincinnati site, 2 hours away). Regular cardiac evaluations for varied zoo animals are performed by one or more of the program's cardiologists alongside the resident at MedVet at the local zoo. Primate cardiac exams may involve the MedVet Cardiology team, a human cardiologist, and a human echocardiogram technician. The Resident is "off-clinics" for approximately 5 to 6 months of the 36 month residency for research and study purposes. Direct supervision in the residency program is for approximately 30 to 31 months in regard to clinic time.

8. Please provide an outline of a typical weekly schedule

Clinical Schedule:

- 1) 7:30/8 - 9 AM: Didactic Program rounds (see below)
- 2) 7 - 8/9 AM: Review of in-patients and transfers.
- 3) 9 AM - 6 PM: See scheduled appointments, perform in-house consults

First year of residency only: Resident will see ER patients on average three 12 hour shifts per month.

Didactic Cardiology Program:

- 1) Monthly Hospital ECG Rounds or Cardiology Great Cases Conference: Wednesdays 8 AM - 9 AM
- 2) Weekly Cardiology Journal Club: Thursdays 8AM - 9 AM
- 3) Weekly Cardiology Book/ECG/Image Rounds: Fridays or Saturdays 8 AM - 9 AM
- 4) Cardiology Special Topic Rounds: Varied dates, average once every 2 months

Didactic (All Body Systems) Program:

- 1) Grand Rounds: twice monthly (presentation required of residents 2 times/year); Every other Wednesday 8 - 9 AM
- 2) Internal Medicine Journal/Book Club: weekly; Tuesdays 7:30 AM - 8:30 AM
- 3) Clinical Pathology Rounds: monthly; Monday 8 AM - 9 AM.
- 4) Anesthesia Rounds: monthly; Friday 7:30 AM - 8:30 AM
- 5) Morbidity & Mortality Rounds: monthly; Thursday 8 AM - 9 AM

Name of Residency Training Program:

MedVet Medical & Cancer Centers for Pets (Worthington, OH) Cardiology
Residency 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.