

ACVR Residency Training Program Application

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| Submission Date | 2017-01-29 18:34:16 |
| Institution Name: | MedVet Cincinnati |
| Succinctly state the objectives of the training program. | Provide clinical training in veterinary diagnostic radiology, ultrasound, magnetic resonance imaging, computed tomography, nuclear medicine, and special procedures to prepare graduates for successful completion of the American College of Veterinary Radiology board qualifying and certifying examinations and instill the knowledge in these graduates to have productive careers in veterinary diagnostic imaging. |
| What is the total length of the training program? | 36 months |
| If the resident is not eligible to take the exam during the beginning of the third year (September), please state the reason. | N/A |
| What are the responsibilities of the resident in the remaining non-clinical portion of the program? | N/A |
| Who is the Director of Residency training? | Matthew L. Baron-Chapman DVM, DACVR |
| What percentage of this individual's time is committed to clinical service and teaching of residents? | 95% |
| Roentgen diagnosis | Chase Constant DVM, DACVR 40% |
| Diagnostic ultrasound | Matthew L. Baron-Chapman 40% |
| Computed Tomography | Chase Constant DVM, DACVR 10% |
| Magnetic Resonance Imaging | Matthew L. Baron-Chapman DVM, DACVR 10% |
| Nuclear Medicine | Matthew L. Baron-Chapman 0% (Clinical Experience to be fulfilled at Michigan State University) |
| List the names and percentage clinical commitment of additional imaging faculty in the program, and their area(s) of instructional responsibility. | Jon T. Shiroma DVM, DACVR - 85% - MRI, CT, Radiography, Ultrasound, Nuclear Medicine Adam T. Watson DVM, DACVR - 90% - MRI, CT, Radiography, Ultrasound |
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| ACVIM | Jennifer Wells |
| ACVIM | Jennifer Gieg |

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| ACVS | Karl Maritato |
| ACVS | Susanna Schwartz |
| ACVP | Mark Chalkley |
| ACVP | Stephanie Corn |
| Files uploaded or selected | https://kloudl.es/l/YbdJRSYxbTiA1l0q59OL |
| Briefly describe how the program meets the facility requirements. | <p>Radiology - 2 units Toshiba Rotanode (Model E7252X) Constant Potential High-Voltage Generator maximum tube voltage 150 kV Toshiba Rotanode (Model E7242sx) Constant Potential High-Voltage Generator maximum tube voltage 125 kV Fluoroscopy GE 9800 digital C-arm fluoroscope Ultrasonography GE Logiq S8 Computed Tomography GE LightSpeed 16 slice CT MRI 1.5 Tesla Siemens Magnetom Symphony Tim ATS MRI scanner</p> <p>Michigan State University Radiology (large animal) • Large animal room1: 80kw three-phase generator. Maxiray 100-18 X-ray tube with Advantx digital fluoroscopy system and Agfa CR system • Large Animal room 2: Mobile Maxiray 75-18N Nuclear Medicine • Gamma Camera: Scinttron VI with embedded motion correction from Medical Imaging Electronic</p> |
| Indicate the approximate number of patients seen annually by the home institution? | 12,000 (MedVet Cincinnati) |
| What is the annual imaging caseload? | 7,508 (MedVet Cincinnati) |
| | <p>Small Animals (canine, feline): 99.9% Large Animals (equine and food animals): 13% Exotic Animals: <0.1%</p> |
| | <p>Small Animal Radiology: 4,000 (MedVet Cincinnati) Large Animal Radiology: 900 (MSU) Abdominal Ultrasound: 2808 (Medvet Cincinnati) Computed Tomography: 400 (MedVet Cincinnati) Nuclear Medicine: 80 (MSU) Magnetic Resonance Imaging: 300 (MedVet Cincinnati) Other (specify):</p> |
| What percentage of imaging reports are typically available within 48 hours after the examination is conducted in typewritten or electronic form? | 95% |

If your answer is less than 75%, please explain how reports are generated and how long it takes for the report to be available for review in typewritten form.

N/A

If your answer is less than 75%, please explain how reports are generated and how long it takes for the report to be available for review in typewritten form.

N/A

Of the preliminary reports generated from the imaging caseload what percentage are initially produced by the resident?

65%

What percentage of the resident reports are reviewed by the imaging faculty prior to finalization of the report?

100%

Small Animal Radiology: 3900
Large Animal Radiology: 75 (MSU)
Abdominal Ultrasound: 2200
Computed Tomography: 380
Nuclear Medicine: 10 (MSU)
Magnetic Resonance Imaging: 293
Elective (any of above):
Required elective (specify):
Total: 6,858

If your program does not offer formal courses in any or all of these topics please indicate how these educational objectives for each are met. Use the "Upload Files" button to upload additional information as necessary.

At this time, no formal courses are offered to cover the above objectives. Instead, these objectives are covered by scheduled topics rounds, some didactic lectures, and organized study modules. Video conferencing is available between our Cincinnati and Columbus locations to allow all MedVet radiologists and radiology residents to participate in topic rounds, study modules, journal club, and known case conference as a cohesive group. A written practice exam follows each board objective studying period to assess the resident's progress. The ACVR board objective notes serve as a basic framework for studying. Textbooks, journal articles and faculty board studying notes will also be provided for each of the objectives when applicable. An outline for studying each board objective is listed below.

Summer/Fall of First Year of Residency – Pathophysiology –The resident will be instructed to reference The Textbook of Veterinary Internal Medicine and Small Animal Cardiovascular Medicine.

Winter Of First Year of Residency – Anatomy – Emphasis will be placed on clinical radiographic and cross-sectional anatomy. Weekly study modules using PowerPoint format will be used requiring labeling of images.

Spring of First Year of Residency – Radiobiology – Faculty-driven weekly study modules will be constructed reviewing chapters in Radiobiology for the Radiologist (Hall) and following the ACVR board objectives.

Summer Of Second Year of Residency – Physics of Diagnostic Radiology – The resident will be required to read The Essential Physics of Medical Imaging, Vol 3 (Bushberg) and reference Christensen's Physics of Diagnostic Radiology, Vol 4, when applicable. Organized self-study modules will be constructed.

Fall of Second Year of Residency – Special Procedures – The board objectives will serve as a basic framework for studying. Board studying notes will be supplied. Archived echocardiography movie files and notes will be provided for this aspect of the training.

Winter through Spring of Second Year of Residency – Alternative Imaging – MRI, CT, ultrasound and nuclear medicine will be covered individually beginning with the physics of each modality and then reviewing the applicable literature/journal articles. Board studying notes will be supplied for each modality. The resident will be expected to read The Handbook of Nuclear Medicine (Daniel) and Diagnostic Ultrasound: Principals and Instruments, 7th edition (Kremkau). Physics of MRI and CT will be covered in The Essential Physics of Medical Imaging (Bushberg). Additionally, the resident will attend the Nuclear Medicine Short Course at the University of Tennessee and MRI short course at North Carolina State University in first or second year of residency. Organized self study modules will be constructed to further training in the physics of these modalities. Dr. Baron-Chapman also provides 6 hours of didactic lecture on MRI physics.

After completing each board objective, a written exam will be given to the resident and the results will be discussed.

Over the last five years, what is the average number of peer reviewed publications, on which the IMAGING faculty listed under Direction and Supervision in IV, are included as authors?

1.5

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| What is the number of publications/submissions expected of a resident completing the program? | 1 |
| If this is an established program, what percentage of residents have made formal research presentations at the annual ACVR or equivalent national meeting? | 1 |
| Is an advanced degree a requirement of the training program? | No |
| How many lectures or scientific presentations are expected of each resident during the course of their training? | Seven. At least six hospital grand rounds and one abstract presentation at an annual ACVR conference. |
| Did all of your current resident(s) adequately complete the last six months of training? | Yes |
| List the current members of the residents' review committee. | Chase Constant DVM, DACVR Ashley Wiese DVM, DACVA Matthew L. Baron-Chapman DVM, DACVR |
| List the internal mechanisms in place to protect your resident if conflicts arise. | Our residents are encouraged to approach the imaging faculty with any concerns. The faculty actively "checks in" with each resident frequently. If the resident does not feel safe to approach the imaging faculty, they have frequent contact with the clinical manager of the radiology department as well as the medical directory of MedVet Cincinnati, and the residents are encouraged to confide in these individuals as they wish. Additionally, the residents have access to the residency committee chair for all of MedVet, as well as the several human resources members outside the clinic floor. |
| What is the nature and scope of the teaching file available to residents? | A large imaging teaching file has been organized including radiography, special procedures, CT, MRI and ultrasound cases. The file is in Microsoft excel format and is searchable using different coded parameters. All digital images are saved and searchable on a PACS system. The file currently includes over 1,500 cases |
| How is it maintained/updated? | All digital images are archived on the PACS system for retrieval. Case information is updated using the Excel spreadsheet described above. The Excel file is update weekly by the radiology faculty. The residents themselves are also welcome to add cases to the file as they wish. |
| On average how many Known Case Conferences are conducted annually? | 36 |
| What is the geographic relationship between the nearest medical library and the training program? | The nearest medical library is located approximately 15 minutes (9.7miles) from the hospital at The Donald C. Harrison Health Sciences Library affiliated with the University of Cincinnati. The nearest veterinary medical library is located approximately 2 hours away at the Ohio State University in Columbus, OH. We maintain a large number of both small animal and large imaging textbooks and digital database of journal articles and have electronic access to many applicable journals. |

Provide the pass rate for first time, second time, etc for both the preliminary and certifying exams for your residents for the past 5 years. For example, for all residents finishing your program 5 years ago (Year 5): x number passed prelim 1st time, y number passed certifying exam 1st time, z number was unsuccessful.

| | Year 5 | Year 4 | Year 3 | Year 2 | Year 1 |
|--|--------|--------|--------|--------|--------|
| Passed preliminary exam 1st time | | | | 1/1 | |
| Passed preliminary exam 2nd time | | | | | |
| Passed preliminary exam after 2nd time | | | | | |
| Passed certifying exam 1st time | | | | 0/1 | |
| Passed certifying exam 2nd time | | | | 1/1 | |
| Passed certifying exam after 2nd time | | | | | |
| Unsuccessful in all attempts | | | | | |

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