



Friday, March 13, 2020

ACVR Residency Training Program Application

This document is to act as a guide for institutions desiring ACVR accreditation of their residency training program. It should be used in concert with the requirements set out in the ACVR Essentials of Residency Training document and it follows the headings of that document. It is intended to streamline the application process and help define what information the RSEC needs to evaluate the program. All terms used in this application have same definitions as defined in the Essentials.

Institution Name:

Massachusetts Veterinary Referral Hospital

Email

jbrisson@ethosvet.com



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Objectives:

Succinctly state the objectives of the training program.

1. To provide clinical training to residents in all modalities of veterinary diagnostic imaging.
2. To provide the clinical experience and didactic work necessary to become well-educated diagnosticians.
3. To prepare candidates for successful completion of the board examination and certification process with the American College of Veterinary Radiology.



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Training Period:

What is the total length of the training program?

36 months

What are the responsibilities of the resident in the remaining non-clinical portion of the program?

Self-study and preparation for board examination
Participation in short courses, continuing education events, and webinars sponsored by other institutions

Research and manuscript preparation

Teaching rounds with students and other house officers

House officer lecture series



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Direction and Supervision:

Program Director:

Who is the Director of Residency training?

David Schmidt

What percentage of this individual's time is committed to clinical service and teaching of residents?

100% clinical appointment

Faculty:

Please list the faculty member of the program accepting PRIMARY responsibility for training in each of the following core areas:

Roentgen diagnosis

David Schmidt 100

Diagnostic ultrasound

David Schmidt 100

Computed Tomography

Tonya Tromblee 100

Magnetic Resonance Imaging

Jennifer Brisson 50

Nuclear Medicine

Jennifer Brisson 50

List the names and percentage clinical commitment of additional imaging faculty in the program, and their area(s) of instructional responsibility.

Nedra Wilson - 100% - Support computed tomography, ultrasound, and Roentgen diagnosis

Amanda Masciarelli - 100% - Support computed tomography, magnetic resonance imaging, ultrasound, and Roentgen diagnosis

Meghan Fleming - 100% - Support computed tomography, magnetic resonance imaging, ultrasound, and Roentgen diagnosis

Trish Oura - 100% - Support computed tomography, magnetic resonance imaging, and Roentgen diagnosis

Using the button below, please provide a one page CV documenting their expertise in the area(s) of assigned responsibility for each imaging faculty in the program.



AM CV 2020.pdf



157_AM CV 2020_9937.pdf



DS CV 2020.pdf



JB CV 2020.doc



MF CV 2020.pdf



NW CV 2020.pdf



TT CV 2020.docx



Trisha J Oura CV ACVR 2020 .docx



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For each speciality colleges listed below please list at least two Diplomates of these colleges who can be expected to regularly interact with radiology residents:

ACVIM

Rachel Cooper

ACVIM

Bronwyn Riggs

ACVS

Daniel Frem

ACVS

Karen Pastor

ACVP

EJ Ehrhart

ACVP

Heather Kridel

Affiliation Agreement:

Using the button below, provide a copy of the affiliation agreement(s) in place if all of the training will not be accomplished on-site. Include the scope of the training and amount of time the resident will be away from the home institution.



MVRH affiliation agreement (1).pdf



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Facilities:

Briefly describe how the program meets the facility requirements.

Massachusetts Veterinary Referral Hospital (Mass Vet) is the largest private practice emergency and specialty referral hospital in New England, seeing over 45,000 patient visits annually. Our hospital is well equipped with four ultrasound machines, CT, MRI, Fluoroscopy and digital radiography. We have a very busy emergency department that generates a large imaging caseload in addition to the specialty services that include surgery, internal medicine, neurology, cardiology, oncology, ophthalmology, dermatology, nutrition, anesthesia,

and physical therapy and rehabilitation. The Radiology department is staffed by 6 board certified radiologists, and is open 7 days a week. There is at least one staff radiologist on the weekends and 2-3 radiologists on weekdays. The department has a dedicated staff of five technicians and two veterinary assistants.

Mass Vet is part of Ethos Veterinary Health, which consists of 25 hospitals nationwide. We utilize a centralized cloud-based PACS and interpretations are provided to hospitals across the Ethos network. We offer examinations in radiography, ultrasound, CT, fluoroscopy, and MRI.

Mass Vet offers post-graduate training in emergency & critical care (ECC) with a well established residency program (1-2 residents/year), an ECC fellowship (2 fellows/year), a neurology specialty internship (2 interns/year), and a surgery residency (1 resident/year). There is a robust didactic schedule which includes ECC topic rounds and rotating specialty rounds (Radiology, Cardiology, Neurology), case-based MRI rounds, and journal clubs. Any trainee from any program is invited to attend rounds that are pertinent to their professional development.



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Clinical Resources:

**Indicate the approximate number of patients
seen annually by the home institution?**

45,000

What is the annual imaging caseload?

17500 studies across modalities

Indicate in percentages the approximate breakdown of the patient population according to species.

Type a question

Small Animals (canine, feline): 98

Large Animals (equine and food animals): 0

Exotic Animals: 2

What is the approximate annual imaging caseload of the program in:

Type a question

Small Animal Radiology: 9000

Large Animal Radiology: From New Bolton 2700

Abdominal Ultrasound: 5500

Computed Tomography: 600

Nuclear Medicine: 0

Magnetic Resonance Imaging: 875

Other (specify): Fluoroscopy - 100

Please check which of the following types of imaging cases the residents will have exposure to during the residency:

Small Animal Echocardiography

Large Animal Ultrasound

Nonabdominal Small Animal Ultrasound (i.e. cervical, musculoskeletal)

Food Animal

Exotics

Teleradiology/Referral Imaging

If the residents do NOT have exposure to any of the above types of imaging cases at your institution, please explain if/how they get the experience during the residency.

Our residents will have 6 weeks of externship experience at the University of Pennsylvania School of Veterinary Medicine, New Bolton Center for training in Large Animal Diagnostic Imaging (Equine and Food Animal) and Nuclear Medicine. Additionally the residents will have access to the teaching file from this institution.



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Training Content:

What percentage of imaging reports are typically available within 48 hours after the examination is conducted in typewritten or electronic form?

90

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.

Reports by the resident will be typed or dictated and reviewed with the attending radiologists for edits and finalization. Most reports are finalized within 48 hours for radiography and within 24 hours for all other modalities.

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

up to 20% per day

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

100 in the first two and 1/2 years of the training program. 100% of CT and MRI reports will be reviewed all three years.

When preliminary resident reports are reviewed and edited by the imaging faculty responsible for training, what percentage of the time are two or more faculty present?

25%

For each category below, approximate the number of cases a single resident will be involved in the interpretation of during the course of the entire program.

Type a question

Small Animal Radiology: 4000

Large Animal Radiology: 50

Abdominal Ultrasound: 2000

Computed Tomography: 500

Nuclear Medicine: 10

Magnetic Resonance Imaging: 250

Elective (any of above):

Required elective (specify):

Total: 6800

Please indicate the course number and unit assignment residents are required to take to meet the educational objectives for formal instruction as outlined in the Essentials in the following:

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 button below to upload additional information as necessary.

Ethos Veterinary Health provides the Vetbloom online continuing education platform and online courses are in development for US, CT, and MRI. Radiobiology training will come from chapter rounds reading Radiobiology For The Radiologist, 8th edition with direct DACVR involvement, and online modules available. Nuclear Medicine training will come from the short course and external rotations at New Bolton Center (see attached letter). The resident will also regularly attend webinars offered by the group VetMeet.



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Research Environment:

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?

5

What is the number of publications/submissions expected of a resident completing the program?

If this is an established program, what percentage of residents have made formal research presentations at the annual ACVR or equivalent national meeting?

New program

Is an advanced degree a requirement of the training program?

No



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Educational Environment:

How many lectures or scientific presentations are expected of each resident during the course of their training?

at least 7, to include one at an ACVR meeting



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Evaluation 'Evaluation of residents and protection mechanisms':

Did all of your current resident(s) adequately complete the last six months of training?

No current residents

List the current members of the residents' review committee.

David Schmidt
Meghan Fleming
Jennifer Brisson
Tonya Tromblee

List the internal mechanisms in place to protect your resident if conflicts arise.

The resident is expected to bring any concerns to the attention of the Resident Director. If the concern involves the Resident Director or if the resident feels uncomfortable discussing the concern with the radiologists in the department, the resident can contact the Hospital Service Manager for Imaging, or any member of the People & Organizations Department (HR) to discuss the matter. A veterinary social worker is also available in-house 5 days/week to discuss any conflicts that the resident may be experiencing.



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Teaching File:

What is the nature and scope of the teaching file available to residents?

A teaching file is maintained as a Google Drive spreadsheet that is available to all trainees and radiologists. The teaching file contains tags for

each historical section of the Certifying Exam, important findings/diagnoses, and cytology/histology when available, and links to the PACS system for easy viewing. The teaching file currently contains over 750 studies.

How is it maintained/updated?

All radiologists and residents have access to the teaching file. Both radiologists and residents are able to add and update entries as they are read on the floor, as reports are finalized, or as sample results are available.



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Conferences:

**On average how many Known Case
Conferences are conducted annually?**

24



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Literature Resources:

What is the geographic relationship between the nearest medical library and the training program?

The closest medical libraries are in Boston (e.g. Harvard, Boston University, Tufts; all are about 15 miles away).

The closest veterinary medical library is at Tufts in North Grafton (about 40 miles away).

Ethos provides free online access to 18 major veterinary journals to all employees.

Several radiologists are adjunct faculty for Lincoln Memorial University (LMU) and can provide access to specific journal article requests as needed (for journals not in the Ethos Library).

The Radiology department also maintains a current library of textbooks for clinical reference and board preparation.



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Appendix:

Provide a clinical schedule for your resident(s). This schedule should provide a weekly or monthly outline of the resident's clinical responsibilities. This may be in the form of a master schedule or duty roster for your entire radiology section if desired. Use the button below.



MV DI Residency Clinical Schedule .docx