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:
University of Wisconsin - Madison

Email
kenneth.waller@wisc.edu

ACVR Residency Training Program Application

Objectives:

Succinctly state the objectives of the training program. The objectives of this training program are to prepare the trainee for the ACVR preliminary and certifying examinations and subsequent academic appointment or private specialty practice. Training is provided in small animal, large animal, and exotic animal species as well as research, instruction and publication.
ACVR Residency Training Program Application

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?
Research, study, didactic, and vacation

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Direction and Supervision:

Program Director:

Who is the Director of Residency training?
Kenneth R. Waller III
**What percentage of this individual's time is committed to clinical service and teaching of residents?**  
70

**Faculty:**

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

**Roentgen diagnosis**  
Waller 70

**Diagnostic ultrasound**  
Waller 70

**Computed Tomography**  
Loeber 70

**Magnetic Resonance Imaging**  
Loeber 70

**Nuclear Medicine**  
Forrest 65

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.

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

**ACVIM**  
Heidi Kellihan  
David Vail

**ACVS**  
Susan Schaefer  
Samantha Morello

**ACVP**  
Marie Pinkerton  
Leandro Teixeira

**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
Facilities:

**Briefly describe how the program meets the facility requirements.**

The radiology section has three small animal diagnostic radiology rooms, one of which is a digital fluoroscopic room with an overhead 800 mA tube. The second contains an overhead 800 mA tube and the third contains a floating table and 500 mA tube. All three rooms contain digital (DR) detector panels. The separate large animal imaging suite contains a 800 mA tube with a ceiling mounted motorized tube stand and integrated ceiling mounted cassette stand with DR panel and a portable x-ray machine and DR plate for distal extremity and in-stall radiography.

Ultrasoundography equipment includes two LOGIQ E9, four LOGIQe’s housed respectively in two ultrasound suites and the CT suite. Fundamental B-mode imaging, tissue harmonics, contrast harmonics, navigation and fusion, elastography, 4D, Doppler (pulsed, power, spectral and color) and high frequency transducers are available.

Computed tomography (8-slice MDCT) and nuclear imaging suites are located adjacent to the described rooms containing within the imaging section. Standing Large Animal CT (Asto). A 1.5 tesla MR unit is housed within a modular building adjacent to the teaching hospital.

Nuclear imaging equipment consists of a 20” rectangular field of view gamma camera with
dynamic imaging capability and analysis.

Radiotherapy is provided by a Tomotherapy facility within the hospital. Radioactive iodine therapy for hyperthyroid cats is also provided.

All modalities are integrated with PACS, RIS and HIS.

A 3 tesla MR, 1.5 tesla MR, advanced CT, PET/CT and flat panel CT are available for clinical and research use at the Wisconsin Institutes for Medical Research (WIMR), which is 4 blocks away.

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Clinical Resources:

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

28000

What is the annual imaging caseload?

13000

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

Type a question

Small Animals (canine, feline): 12000
Large Animals (equine and food animals): 1400
Exotic Animals: 1000

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

Type a question
Small Animal Radiology: 6500  
Large Animal Radiology: 601  
Abdominal Ultrasound: 2601  
Computed Tomography: 1374  
Nuclear Medicine: 25  
Magnetic Resonance Imaging: 350  
Other (specify): LA CT: 140

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

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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?

95

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

80%

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?

80%

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: 6000
- Large Animal Radiology: 600
- Abdominal Ultrasound: 2500
- Computed Tomography: 900
- Nuclear Medicine: 20
- Magnetic Resonance Imaging: 300
- Elective (any of above):
- Required elective (specify): Total: 10320

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:

**Radiobiology**
410 27

**Nuclear Medicine**
UW Hospital 7

**Ultrasonography**
UW Hospital 4

**CT**
UW Hospital 5

**MRI**
UW Hospital 9

**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?
12

What is the number of publications/submissions expected of a resident completing the program?
2

If this is an established program, what percentage of residents have made formal research presentations at the annual ACVR or equivalent national meeting?
50

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?
14
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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?

Yes

List the current members of the residents' review committee.
Lisa Forrest
Samantha Loeber
Ken Waller

List the internal mechanisms in place to protect your resident if conflicts arise.
Listed in order of escalation, i.e. if unresolved next level will be attempted
Discussion between resident and party with whom the conflict exists
Mediation by resident advisor and/or residency director
Mediation by Department Chair (McAnulty)
Mediation by Hospital Director (Chun)
Mediation, remedy, or appeal to Clinical Training and Education Committee within the School of Veterinary Medicine, University of Wisconsin.
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Teaching File:

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

Separate teaching files are maintained for veterinary students and radiology residents. Additional radiology teaching sets and patient file coding systems are in place to assist residents and faculty members for presentations or studying purposes of historical (films and electronic) files. The electronic coding system is based on chapter designations in the Thrall text. Seminar and lecture presentations are stored electronically and available to residents.

How is it maintained/updated?

The first year resident assists in maintenance of the hard copy student teaching cases. All residents and faculty contribute to the electronic teaching file by recording teaching quality studies daily, which are maintained in the indexed digital file on the PACS. Resident seminars are filed in a shared network drive.
Conferences:

On average how many Known Case Conferences are conducted annually?
50

Literature Resources:

What is the geographic relationship between the nearest medical library and the training program?
4 blocks
Appendix:

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.

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<th>Passed preliminary exam 1st time</th>
<th>Year 5</th>
<th>Year 4</th>
<th>Year 3</th>
<th>Year 2</th>
<th>Year 1</th>
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<tbody>
<tr>
<td>Passed preliminary exam 2nd time</td>
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<td>Passed preliminary exam after 2nd time</td>
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<td>Passed certifying exam 1st time</td>
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<td>Unsuccessful in all attempts</td>
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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.