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:
University of Saskatchewan (Western College of Veterinary Medicine)

Email
sally.sukut@usask.ca

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Objectives:

Succinctly state the objectives of the training program.

The WCVM Diagnostic Imaging Residency is a 3-year post-graduate clinical and academic program. The clinical aspect of this program will provide residents with a diverse caseload to develop strong interpretation and technical skills, and will support preparation for the certifying examination. The academic portion of the program will provide a valuable research opportunity, formal preparation for the qualifying examination as well as manuscript preparation and presentation.
Ultimately, our goal is to prepare and support residents in passing the ACVR examinations and completing a non-thesis Master of Science program.

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Training Period:

What is the total length of the training program?

3 years

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

The responsibilities of the resident in the remaining non-clinical portion of the program include (a) completion of MSc (project-based), including residency project, graduate courses and manuscript preparation and (b) preparation for qualifying and certifying examinations.
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Direction and Supervision:

Program Director:

Who is the Director of Residency training?
Sally L. Sukut

What percentage of this individual's time is committed to clinical service and teaching of residents?
50%

Faculty:

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

Roentgen diagnosis
Gregory Starrak 50%

Diagnostic ultrasound
Gregory Starrak 50%

Computed Tomography
Sally Sukut 50%

Magnetic Resonance Imaging
Sally Sukut 50%

Nuclear Medicine
Sally Sukut 50%

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
Tony Carr

ACVIM
Kevin Cosford

ACVS
Kathy Linn
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.

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Facilities:

Briefly describe how the program meets the facility requirements.

The Western College of Veterinary Medicine is a state-of-the-art facility serving western Canada as an AVMA and AAHA accredited hospital and referral center. The advanced imaging equipment includes: GE Discovery MI PET/CT scanner, Toshiba Aquilion One 320 detector CT, Millennium MPR/MPS Gamma Camera with Genie AcQ software, Ziehm Vison RFD 30x30 C-arm Fluoroscope, Toshiba Aplio 300 Ultrasound (two
machines) with multiple specialized probes and cardiac package/probes. Philips iU22 and GE Logiq 6 Ultrasound machines with multiple specialized probes are also located on-site. In-house MRI technology includes a Seimens Magnetom Symphony 1.5 Tesla system as well as a standing low-field magnet in our Ryan- Dube Equine Performance Centre. Eklin DR systems are located in the small and large animal radiology suites with Canon DR plates (two 14 by 17” and one 10 by 12” plate). Portable Eklin DR equipment is also available for large animal radiology. The McKesson Horizon Medical Imaging PACS provides access throughout the College for consultation, diagnosis and teaching on clinical and research cases. There are four dedicated work stations with 30” Barco diagnostic monitors in the imaging department, as well as four dedication stations that have two each 20” Barco diagnostic monitors.

The radiation oncology service operates a Clinac 21EX 6MV linear accelerator with electron capability, a 120 leaf Millennium multileaf collimator, OBI and CBCT allowing intensity modulated and stereotactic radiation therapy in addition to conformal radiation therapy, with Aria system and Eclipse planning system.

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Clinical Resources:

Indicate the approximate number of patients seen annually by the home institution?
25600

What is the annual imaging caseload?
6800
Indicate in percentages the approximate breakdown of the patient population according to species.

**Type a question**

- Small Animals (canine, feline): 75%
- Large Animals (equine and food animals): 15%
- Exotic Animals: 10%

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

**Type a question**

- Small Animal Radiology: 3800
- Large Animal Radiology: 780
- Abdominal Ultrasound: 1200
- Computed Tomography: 530
- Nuclear Medicine: 15
- Magnetic Resonance Imaging: 200
- Other (specify):

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

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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?

90-100%

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

90-95%

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

100%

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?

10-20%

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: 800 |
| Abdominal Ultrasound: 1500 | Computed Tomography: 550 |
| Nuclear Medicine: 30 | Magnetic Resonance Imaging: 300 |
| Elective (any of above): | Required elective (specify): | Total: 7180 |

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**

899.2 2

**Nuclear Medicine**

899.6 1

**Ultrasonography**

899.6 2

**CT**

899.6 2
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?

1-2

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

N/A

Is an advanced degree a requirement of the training program?

MSc (project based, non-thesis)

Educational Environment:

How many lectures or scientific presentations are expected of each resident during the
course of their training?
Approximately 6-9 (2-3 per year)

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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.
Dr. S. Sukut, DACVR
Dr. L. Zwicker, DACVR
Dr. M. Mayer, DACVR (radonc)
Dr. L. Sandmeyer, ACVO
Dr. C. Shmon, ACVS
Dr. G. Muir, PhD (neuroscience)
Dr. J. Gagnon, ACVIM (oncology)

List the internal mechanisms in place to protect your resident if conflicts arise.
Each resident will have a supervisor that will be available to aid in conflict mediation. If this is not satisfactory, the residency director will be available to mediate conflict. If the resident is not comfortable involving the radiology faculty, the resident can approach the head of the small animal clinical sciences for guidance. As a graduate student (MSc), each resident also as an Advisory Committee that meets twice per year – members can be contacted in the interim to aid the resident. Additionally, we are fortunate to have a registered social worker in our facility and residents will have access to the social worker to discuss any problems, personally or
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Teaching File:

What is the nature and scope of the teaching file available to residents?
There is a new File Share option in our McKesson PACS system that we are developing as a teaching tool. Additionally, we have a spreadsheet of approximately 1100 interesting cases for teaching/learning purposes.

How is it maintained/updated?
Cases are added as they are encountered and deemed appropriate. Cases are predominately maintained by Dr. Sally Sukut (file share) and Dr. Gregory Starrak (Excel spreadsheet).
Conferences:

On average how many Known Case Conferences are conducted annually?

12-15

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Literature Resources:

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

There is a veterinary medical library within the Western College of Veterinary Medicine. Additionally, the medical school is a short walk across campus and an additional medical library is available to our students.

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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.