



Wednesday, September 25, 2019

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:

The Royal Veterinary College, University of London

Email

rdrees@rvc.ac.uk



ACVR Residency Training Program Application

Objectives:

Succinctly state the objectives of the training program.

To enable the trainee to

- gain clinical proficiency in veterinary diagnostic imaging
- gain a critical understanding of veterinary diagnostic imaging
- pass the professional Board examinations in Veterinary Diagnostic Imaging



ACVR Residency Training Program Application

Training Period:

What is the total length of the training program?

36month

If the resident is not eligible to take the exam during the beginning of the third year (September), please state the reason.

NA

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

Complete a clinical research project on the subject of imaging and submit manuscript for publication in a peer-reviewed veterinary journal. Present at a national or international veterinary diagnostic imaging conference.



ACVR Residency Training Program Application

Direction and Supervision:

Program Director:

Who is the Director of Residency training?

Randi Drees

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

residents?

55%

Faculty:

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

Roentgen diagnosis

Emma Mapletoft 70%

Diagnostic ultrasound

Francisco Llabres-Diaz 70%

Computed Tomography

Randi Drees 50%

Magnetic Resonance Imaging

Helen Dirrig 70%

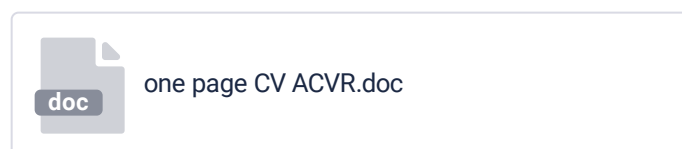
Nuclear Medicine

Dagmar Berner 70%

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

NA

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

Bettina Dunkel

ACVIM

Rosanne Jepson

ACVS

Richard Piercy

ACVS

David Boldt

ACVP

Daniel Brockman

ACVP

Balazs Szladovits



ACVR Residency Training Program Application

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.



ACVR Residency Training Program Application

Facilities:

Briefly describe how the program meets the facility requirements.

Small Animal hospital

Radiography

- Room 1: 50kW generator, Eklin DR system.



ACVR Residency Training Program Application

- Room 2: Siemens Iconos R200 R/F system, 65kW generator, tilting table with Bucky and phototimer, 40cm digital image intensifier
- Also in Room 2: Fuji Capsula computed radiography system
- Operating theatre: Mobile Siemens SireMobil digital C-arm

Ultrasonography

- Samsung RS80A system with four transducers, 1-16MHz
- GE Vivid 7 cardiac system with 3, 7 & 10MHz transducer and dedicated workstation running EchoPAC software
- Ausonics Impact portable unit with 2.5, 3.5, 6, 7.5MHz transducers

Computed tomography

- Canon Genesis ONE, 320 MDCT

MRI equipment:

- Philips Intera 1.5T magnetic resonance imaging system with access for small and large animals

Large Animal hospital

Radiography

- Siemens Polydoros ceiling mounted high-output generator with linked grid system
- Fuji direct radiography system
- 4 Eclin Sprint portable x-ray units: 1 for theatre, 3 for ambulatory use
- Mobile Philips BV21 C-arm for fluoroscopic studies in theatre

Ultrasonography

- GE Vivid E9
- Piemedical scanner for foal unit
- Micromax and Sonosite Titan for farm animal use

- 4 Honda HS 2100 scanners for ambulatory use

- 2 DP 6900 scanners for student learning and research

Computed tomography

- Equine referral hospital: GE Ultralight 16 slice for standing horses and horses under GA

Nuclear medicine

- MIE gamma camera with in-built and separate workstation, also accessible for small animal patients

MRI equipment:

- Equine referral hospital: Hallmark standing equine 0.27T MRI System

PACS & viewing software:

- Hospital owned server hosted Mach7T VNA ,

Eunity viewer (platform and device agnostic); with unlimited on and offsite access for authorized users

- All imaging modalities for all species are connected via worklists to the VNA
- Selected Mac computer workstations with Osirix DICOM viewing software
- Vitrea and Medis advanced visualization workstations
- CRIS: clinical record information system



ACVR Residency Training Program Application

Clinical Resources:

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

23,000

What is the annual imaging caseload?

8,500

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

Type a question

Small Animals (canine, feline): 6,200

Large Animals (equine and food animals): 2,200

Exotic Animals: <30

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

Type a question

Small Animal Radiology: 2200

Large Animal Radiology: 1200

Abdominal Ultrasound: 1900

Computed Tomography: 1600

Nuclear Medicine: 160

Magnetic Resonance Imaging: 900

Other (specify): Small animal non-abdominal ultrasound: 350 Equine orthopedic ultrasound: 550

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.

NA



ACVR Residency Training Program Application

Training Content:

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.

NA

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.

NA

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

70%

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

>95%

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?

>70%

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: 1250

Large Animal Radiology: 1000

Abdominal Ultrasound: 1200

Computed Tomography: 1000

Nuclear Medicine: 100

Magnetic Resonance Imaging: 550

Elective (any of above): NA

Required elective (specify): NA

Total: 5100

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

Ionising Radiation Physics: Interactions and Dosimetry (MPHYGB30) 4

Nuclear Medicine

Ionising Radiation Physics: Interactions and Dosimetry (MPHYGB30); Medical Imaging (MPHYGB10 and MPHYGB11 6

Ultrasonography

Ionising Radiation Physics: Interactions and Dosimetry (MPHYGB30); Medical Imaging (MPHYGB10 and MPHYGB11 4

CT

Ionising Radiation Physics: Interactions and Dosimetry (MPHYGB30); Medical Imaging (MPHYGB10 and MPHYGB11 3

MRI

Ionising Radiation Physics: Interactions and Dosimetry (MPHYGB30); Medical Imaging (MPHYGB10 and MPHYGB11 7

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.

NA

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?

6/y

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

2 papers accepted by peer-reviewed veterinary journal

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

100%

Is an advanced degree a requirement of the training program?

Yes - MVetMed



ACVR Residency Training Program Application

Educational Environment:

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

6 in-house; at least 1 to national or international imaging meeting



ACVR Residency Training Program Application

Evaluation 'Evaluation of residents and protection mechanisms':

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

Yes

If no, please explain:

NA

List the current members of the residents' review committee.

Randi Drees, Francisco Llabres Diaz, Emma Mapletoft, Helen Dirrig

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

- Annual review of progress with participation of 2 faculty members not directly involved in radiology resident training
- Interim review may be called by supervisor or resident as required
- Scholars experiencing difficulties can discuss these with Masters course director, the Head of the Graduate School or Chairman of PG Academic Progress Committee
- Grievances may be considered through the College's Complaints procedures. Complaints specifically about bullying or harassment should follow the procedure outlined in the College's Dignity at Work policy.



ACVR Residency Training Program Application

Teaching File:

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

Compilation of patient information, clinical history, imaging findings and notes available on shared database. Numbers of cases held currently are canine/feline cases 420; rabbits 80; large animals 1800.

How is it maintained/updated?

New cases are reviewed by faculty and teaching file updated weekly by residents.



ACVR Residency Training Program Application

Conferences:

On average how many Known Case Conferences are conducted annually?

40



ACVR Residency Training Program Application

Literature Resources:

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

Multiple medical libraries and The British Library are in London, a 20min train journey from Hawkshead campus.



ACVR Residency Training Program Application

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.

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

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.



Master residency schedule 2019 UPDATE.xlsx