



Tuesday, May 7, 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:**

University College Dublin

**Email**

vetdiagnosticimaging@ucd.ie



## ACVR Residency Training Program Application

**Objectives:****Succinctly state the objectives of the training program.**

The residency training programme is designed to train veterinary radiology residents in veterinary radiology, including radiography, ultrasound, computed tomography and magnetic resonance imaging, and with exposure to nuclear medicine principles.

The programme includes didactic teaching and a comprehensive rounds schedule. The ultimate goal is to allow the resident to reach the level necessary to be successful in the ACVR certifying examination.



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**Training Period:**

**What is the total length of the training program?**

48 months

**If this is a four year program, during what year will the resident be eligible to take the ACVR Preliminary Exam?**

3

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

The residency programme contains a professional doctorate, the Doctorate of Veterinary Medicine Specialisation. Research undertaken during residency will be submitted for publication and international presentation. As such the non-clinical portion will be occupied with thesis preparation before the conclusion of the Doctorate programme.



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## Direction and Supervision:

Program Director:

### Who is the Director of Residency training?

Séamus Hoey

### 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

Hoey 70

#### Diagnostic ultrasound

Skelly 70

#### Computed Tomography

Puggioni 70

#### Magnetic Resonance Imaging

Hoey 70

#### Nuclear Medicine

McAllister 20

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

Emma Tobin 20% of clinical commitment, with responsibility in diagnostic radiography and ultrasound

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

**ACVIM**

Vivienne Duggan

**ACVIM**

Lisa Katz

**ACVS**

Barbara Kirby

**ACVS**

Ronan Mullins

**ACVP**

Peter O'Brien

**ACVP**

Pamela Kelly



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**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.**

#### Radiographic equipment:

One large animal suite and one small animal suite including:

- Siemens Axiom Aristos FX Plus DR
- Siemens Vertex Vet (Optitop tube) CR (installed in 2009)
- Acoma CR 1020
- C-arm Siremobil 4K
- Two portable Cuattro wireless DR systems and detectors

#### Ultrasonographic equipment:

- GE Logiq 9 with 4 transducers
- GE VIVID 9 with 3 transducers
- GE Logiq E with 2 transducers
- IMV Micromax with 2 transducers
- IMV Micromax Turbo with 2 transducers

#### Computed tomographic equipment:

- 16 slice Siemens Somatom Scope sliding gantry, with table and stocks for standing large animal imaging

#### Magnetic Resonance Imaging:

- 1.5T Phillips mobile unit visiting every two weeks



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## Clinical Resources:

### What is the annual imaging caseload?

7269

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

### Type a question

Small Animals (canine, feline): 85

Large Animals (equine and food animals): 13

Exotic Animals: 2

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

### Type a question

Small Animal Radiology: 4500

Large Animal Radiology: 1050

Abdominal Ultrasound: 900

Computed Tomography: 440

Nuclear Medicine:

Magnetic Resonance Imaging: 110

Other (specify): US musculoskeletal LA and SA: 500

### 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?**

90%

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

90%

**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?**

75%

**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: 7000

Large Animal Radiology: 1500

Abdominal Ultrasound: 1800

Computed Tomography: 500

Nuclear Medicine: 0

Magnetic Resonance Imaging: 250

Elective (any of above): Nuclear Medicine: 100

Required elective (specify):

Total: 11050

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.**

Vet 40430: Diagnostic Radiology Training: 15 credit module.

Covers basic interaction of radiation with matter, physics and image production of

- radiography,
- ultrasound,
- computed tomography,
- Nuclear medicine,
- MRI.

Additionally the University of Ghent, Belgium holds an annual nuclear medicine course, and a large animal imaging course that residents attend.



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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?**

total of 45, 5 per year.

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

3

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

100% at ECVDI



**Is an advanced degree a requirement of the training program?**

yes



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**Educational Environment:**

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

8



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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.**

each resident has an individual review committee.  
The third year resident has:  
Marijke Beltman (chair), Robert Sheils and Cliona Skelly members.  
Independent of advisor, Séamus Hoey

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

There are multiple meetings between resident and advisor:

In first year there are 4 meetings, in second year 2 meetings, and 3rd and 4th year there are annual meetings.

These are progress discussions, with feedback from radiology staff and hospital staff, and feedback compiled and presented to the resident. Progress is commended and defects discussed. The resident notes any concerns and plans are made by the resident or advisor to deal with these concerns.

In the event of conflict between resident and advisor, the resident meets with the head of discipline (radiology) or head of section (radiology, anaesthesia and equine) for discussion. There is also a separate student advisor within the veterinary school to support the student resident in cases of conflict.



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Teaching File:

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

There is a large bank of previous digital hospital studies, searchable from 2004 to the present day including:

Large and small animal radiography, CT, MRI, Scintigraphy (discontinued in 2012).

There are also a large number of film based studies in radiography and CT from 1983 to 2004 when digital imaging became the standard.

### **How is it maintained/updated?**

This is maintained within the PACS system using keywords within the RIS to search cases, as well as flagged interesting cases.

Film based cases are colour coded for species and organ system.



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**Conferences:**

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

86



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Literature Resources:

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

A 4 minute walk



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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	1			1
Passed preliminary exam 2nd time				1	
Passed preliminary exam after 2nd time					
Passed certifying exam 1st time	1			1	1

Passed certifying exam 2nd time	1
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.

[Radiologists Rota.xlsx](#)