

**ACVR Summary Extraintitutional Resident Training**  
**Dr. Kate Alexander, ACVR president**  
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Recent feedback from residents and residency directors highlighted the appreciation that many had toward recent offers of education by a number of “extraintitutional” providers, either in industry, the ACVR or by CE entities.

Here is a summary of the feedback provided:

- Most (all?) programs and most (all?) residents are participating in at least 1-2 forms of extraintitutional rounds.
- A number of entities are offering supplemental learning rounds/lectures/speaker summit at various times, sometimes daily, sometimes weekly.
- Some residency programs have made these rounds attendance mandatory, or have added them to a list of resident objectives.
- Rounds are generally greatly appreciated (“incredibly helpful”, “AMAZING”, “really exciting and motivating”), both by residents and directors. Would like to make sure they continue after Covid.
- In some cases, the amount of structured supplemental learning can be an additional burden (“FOMO”) in some residents/programs, so guidance for and by residency directors is needed and maybe caution on the amount on offer (number of times per week?). A call for quality over quantity.
- Some residency directors would like more information on the content of these rounds in order to guide their residents and adapt their own programs.
- Timing of rounds can interfere with institutional rounds and it is suggested to record rounds such that residents can review sessions.
- Rounds do not necessarily offer feedback on specific cases and cannot necessarily count as clinic time. Specific feedback has been suggested as a welcome addition to these rounds.

This education has been widely adopted by both residents and residency directors and is perceived as having a mostly positive impact on resident training. It is in the ACVR and RSEC’s interest to have a greater understanding of the scope and content of extraintitutional education to residents, in order to make informed decisions regarding the integration of this education into residency programs.

This education has the potential to be a significant support to institutions wanting to start residency programs, or existing programs that are struggling to meet residency essentials.

The following is a summary of the educational opportunities and support currently available to ACVR residents and Residency Directors. It should be noted that some of these opportunities are also available to ACVR diplomates.

## **ACVR**

### ***RIVDI (Rounds in Veterinary Diagnostic Imaging)***

Contact info: Dr. Mason Savage, [mysavage@gmail.com](mailto:mysavage@gmail.com)

These are virtual interactive case discussions intended for residents, to improve knowledge, training and exposure to different types of cases. These rounds were inspired by an ongoing and very popular initiative started by the ECVDI in 2018.

- Offered bi-weekly, Mondays @ 9 pm EDT.
- 6 cases of various imaging modalities, made available as a PowerPoint quiz to residents several days before the rounds. Residents are expected to prepare reports on the cases. The quiz is not specifically graded, due to the large number of participants. Slide decks with quiz answers are posted after each session.
- Cases are prepared by volunteer radiologists (both academic and private practice) with an interest in resident training. A diagnosis and references are provided (similar to KCC).
- ACVR Maintenance of Certification (MOC) credit is extended to radiologists who volunteer to prepare sessions.
- Rounds are presented using Canvas/Zoom/WebEx, with an active chat room for comments/questions/exchanges. Each case is presented by a volunteer resident on the “hotseat” and feedback is provided in real time by the radiologist host/supervisor, who also answers the questions that come up in the chat.
- Sessions are recorded for residents who are unable to attend, and made available for 2 weeks after the session.
- Residency directors and other diplomates are also welcome to attend.

### ***Resident In-Training Exam***

Contact info: Dr. Lindsey Gilmour, [lgilmour@cvm.tamu.edu](mailto:lgilmour@cvm.tamu.edu)

This is a joint ACVR/ECVDI initiative to collaboratively contribute to resident education and offer incentive to residents for regular study throughout a residency program in the form of low-stakes, self-assessment preparatory examinations (Mock exams). These exams will provide formative feedback to residents and residency directors prior to high stakes examinations, improve first-time pass rates of theoretical/preliminary exams in the ACVR and ECVDI, and support residency directors who aim to optimize their training programs most efficiently.

Exam questions are designed on Examsoft, the same software used for the actual examination. Board-eligible residents have several days to take the exam and both they and their directors receive feedback by way of individual and average/aggregate scores. The first series of questions (Anatomy) is expected in fall 2020.

## **Antech Imaging Services**

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### ***AIS Academic Cooperative***

This is a program that grew out of the AIS Academic Forum, held in May 2019, attended by a variety of universities and AIS leadership.

- Cooperative programs have been developed with twelve US universities and five European universities. Programs are tailored to each individual institution to support programs that have dwindled, and to sustain leading programs that wish to remain on the cutting edge of progress.
- Cooperative programs are also being developed with private hospitals to create in-house residency training programs.
- Collaboration is underway with Antech Diagnostics for pathology. There has also been interest in this approach expressed by universities relative to their surgery and anesthesia residencies.
- There are plans for the Academic Forum to be an annual event for both AIS Academic Cooperative members and for other interested institutions with chapters in the US and EU.

### ***AIS Academy***

AIS Academy is a subset of the Academic Cooperative, launching in summer 2020, and accessible through the AIS website's Educational menu. Included are:

- Weekly Case Quizzes where residents and other interested users can review new cases each week with immediate case explanations and compare their answers with the aggregated (anonymous) answers of other users.
- Course Modules that cover topics listed in the ACVR objectives and ECVDI syllabus.
- Known Case Data Base where users can search for examples of specific disease processes, body systems, species, modalities, etc. using a keyword search engine.
- AIS CE where residents can access AIS's in-house bi-weekly Specialist CE recordings.
- AIS radiographic positioning videos.
- Access to previous publications of the AIS case- and topic-based newsletter.

## **IDEXX**

Contact info: Angela Skidmore, [angela-skidmore@idexx.com](mailto:angela-skidmore@idexx.com)

### ***Resident Case Rounds***

#### **Monthly Thoracic and Abdominal case rounds (Virtual)**

- Abdominal rounds are hosted once a month by Dr. Donald Thrall
- Thoracic Rounds are hosted once a month by Dr. Steven Ringold

### **Daily North American Diagnostic Imaging Rounds (Virtual)**

These rounds were developed in response to the need to help residents and their directors during COVID-19.

- Initially offered daily, now offered twice a week.
- Rounds are hosted by radiologists with an interest in educational efforts and who volunteer to host rounds and give back to the community.
- Rounds are provided using WebEx and the hosts present cases in via PowerPoint.
- Rounds format is up to the host. Cases are not provided in advance. The format is a combination of single person case interpretation, interactive discussion, KCC-type, lightning rounds, some with trivia mixed in.
- Volunteers are taken from the attendees and feedback is given on their interpretation or comments about each case. The host opens the case up to group discussion and gives examples of how the case was interpreted officially. Oftentimes the host includes references with their answer and the chat log often fills up with the residents sharing links to papers with each other during the sessions.
- A similar weekly initiative was also started in the UK/Europe, with cases provided in advance and feedback given on prepared reports.

### ***Resident Case Blog: CaseConnexx.com***

This is a blog designed with the resident in mind, posted for an audience of Pathology and Radiology residents. Access is also granted to interns and those at the beginning of their journey into the specialty of their choice.

- Each month an interesting case is posted and subscribers comment.
- Following comments, the answer is posted, along with any follow up information and references.
- There are also articles related to Telemedicine, productivity, wellness, studying resources and archived videos of real-time case interpretations.

### ***Annual Diagnostic Imaging CE Event***

This is designed to help individuals prepare for their certifying exam. In previous years, it was in person, but in 2020, it will be virtual: <https://acvr.org/dashboard/events/idx-diagnostic-imaging-ce-event/>

- Started in 2016 and has continued annually.
- This event is only available to residents or those who have recently completed a residency and will sit for the certifying exam.

## **Vet CT**

Contact info: Dr. Heather Chalmers, Dr. Victoria Johnson and Dr. Amy Zalcman, [academia@vet-ct.com](mailto:academia@vet-ct.com)

### ***Summit Speaker Series***

These are expert level lectures and discussions presented live by VetCT radiologists. Topics have included elbow CT, MRI of cerebrovascular lesions, and equine fetlock MRI.

- 1 hour, offered weekly on Wednesdays @9am EDT and will continue in the fall and on a semester basis thereafter.
- They are open to radiology residents, residency directors, and others within the radiology community.
- The lectures are recorded and are available to residents/mentors on the VetCT resident dashboard.

### ***"It's your case"***

An imaging case is presented daily on our VetCT social media platforms along with a fully annotated report and a video of a radiologist reviewing the findings. Both student and resident level cases are provided.

### ***Caseload Booster packs***

Anonymized routine case material is available for those programs requiring additional cases to meet program requirements.

- Intended to comply with ACVR/ECVDI modified program essentials during the COVID-19 crisis.
- Offered when requested by residency supervisors and not issued to residents directly.
- Free of charge.
- Routine case material (these are not intended as KCC and are not specially selected for particular pathology).

### ***Case of the week***

This is a longstanding program for sharing resident-level interesting cases in all species/modalities, coordinated by the Vet CT resident liaison.

- Weekly imaging case sent via email.
- All residents, mentors, and other members of the imaging community are invited to join.

### ***MRI Circle***

This is an MRI case-sharing group to enable programs access to more MRI material for teaching and learning.

- Each participating institution submits 3 MRI cases to the circle,
- Case material is collated and anonymized and access is provided to the entire group.
- To join the MRI circle there is a form to complete: <https://tinyurl.com/VETCT-MRI-Circle>

### ***VetCT Bootcamp***

VetCT runs an annual Bootcamp to help residents prepare for the certifying examination. This usually runs as an “in person” event in Chicago, but will be online in 2020 and will be hosted over 3 days, October 16<sup>th</sup>-18<sup>th</sup> 2020. Places can be reserved by contacting [katie.booth@vet-ct.com](mailto:katie.booth@vet-ct.com)

### ***Research support***

Vet CT has a research coordinator to assist with pairing research ideas or project needs with the extensive case archive and to facilitate collaboration. This is particularly aimed at offering a smooth channel for resident projects.

## **VetMeet**

Contact info: Dr. Anna Adrian, [anna.adrian@vetmeet.com](mailto:anna.adrian@vetmeet.com)

### ***VetMeet Summer Camp***

A resident KCC session is offered at the annual VetMeet Summer Camp. Diplomates are also invited to attend. Live feedback is provided for all the cases. There is also a “reverse KCC” in which diplomates are in the hotseat.

### ***VetMeet Open Source***

Interesting cases of all modalities and brief imaging articles mostly focusing on specific imaging signs and conditions are available for residents and diplomates on the VetMeet Open Source page.

In addition, educational content is regularly offered on the VetMeet Facebook page and memberships for educational webinars are offered at heavily discounted rate for students, interns and residents.