ACVR Residency Training Program Application Form:

Institution Name

UNIVERSITY OF PENNSYLVANIA

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 the same definitions as defined in the Essentials.

II. Objectives:

Succinctly state the objectives of the training program.

1. To provide basic science and clinical training in small and large animal imaging modalities of radiology, ultrasound, nuclear medicine, computed tomography and magnetic resonance imaging.
2. To fulfill the residency training requirements of the American College of Veterinary Radiology so that the resident is eligible to become ACVR certified as a clinical specialist (veterinary radiologist) and can practice successfully in either an academic or specialty practice.
3. To provide the resident with a clinical research experience.

III. Training period:

What is the total length of the training program in months? 48 months

If this is a 4-year program, during what year will the resident be eligible to take the ACVR Preliminary Exam? If the resident is not eligible to take the exam during the beginning of the 3rd year (September), please state the reason. The resident will be eligible and is expected to take the exam in September of the 3rd year.

What is the total duration of supervised clinical training in the program? 30 months across the first three years. 30 months in first 3 years.
The resident will function as junior clinical instructor in year 4

What are the responsibilities of the resident in the remaining non-clinical portion of the program? Time off clinics is used for ACVR Board preparation, clinical research project, optional external rotations and vacation.

IV. Direction and Supervision:

Program Director:

Who is the Director of Residency training? Dr. Wilfried Mai
What percentage of this individual’s time is committed to clinical service and teaching of residents? 50 percent

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

**Roentgen diagnosis:**
- Faculty: Dr. Jantra Suran, DVM, Diplomate ACVR
- Percentage clinical service: 60 percent

**Diagnostic ultrasound:**
- Faculty: Dr. Ana V. Caceres, DVM, Diplomate ACVR
- Percentage clinical service: 60 percent

**Computed Tomography:**
- Faculty: Yael Porat-Mosenco, DVM, Diplomate ACVR & ECVDI
- Percentage clinical service: 40 percent

**Magnetic Resonance Imaging:**
- Faculty: Dr. Wilfried Mai, DVM, MS, PhD, Diplomate ACVR & ECVDI
- Percentage clinical service: 50 percent

**Nuclear Medicine:**
- Faculty: Dr. Jennifer Reetz, DVM, Diplomate ACVIM & ACVR
- Percentage clinical service: 60 percent

List the names and percentage clinical commitment of additional imaging faculty in the program, and their area(s) of instructional responsibility. For each imaging faculty in the program please provide a one page CV documenting their expertise in the area(s) of assigned responsibility.

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Area of Instruction</th>
<th>Percentage Clinical Commitment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Virginia B. Reef, DVM, DACVIM, Assoc Dipl ECVDI</td>
<td>Large animal ultrasound</td>
<td>60%</td>
</tr>
<tr>
<td>Dr. Lillian E. Duda, VMD, DACVR (RO)</td>
<td>Radiation Oncology</td>
<td>70%</td>
</tr>
</tbody>
</table>

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

**ACVIM**
- **Small Animal:** Drs. Mary Beth Callan, Meryl Littman, Rebecka Hess, Nicola Mason, Urs Giger, Lesley King, Kenneth Drobatz, Mark Oyama (Cardiology), Erika Krick (Oncology), Charles Vite (Neurology)
- **Large Animal:** Drs. Marie-Eve Fecteau, Janet Johnston, Jon Palmer, Ray Sweeney, Robert Whitlock, Joann Slack, Virginia Reef

**ACVS**
- **Small Animal:** Drs. David E. Holt, Lillian R. Aronson, Susan Volk, Jeffrey Runge, Kim Agnello, Cara Blake
- **Large Animal:** Drs. Barbara Dallap Schaer, Elizabeth Davidson, Janet Johnston, Ben Martin, James Orsini, Eric Parente, Dean Richardson, Mike Ross, Louise Southwood
ACVP
Drs. Elizabeth Mauldin, Amy Durham, Julie Engiles

V. Affiliation agreement:
If all of the training will not be accomplished on-site, please attach a copy of the affiliations agreement(s). Include the scope of the training and amount of time the resident will be away from the home institution.

-> All ACVR requirements will be completed at the University of Pennsylvania

VI. Facilities:

<table>
<thead>
<tr>
<th>Imaging equipment at Ryan Small Animal Hospital of the University of Pennsylvania</th>
</tr>
</thead>
</table>

**Diagnostic Radiology:**

- **Room #1:** General Electric Proteus XR/a (65 kW, 800 mA, 150 kVp) high frequency generator with automatic exposure control; MX100 X-ray tube with double focus (0.6/1.25 mm), anode angle 12.5 degrees; Proteus XR/a elevating, four-way float radiographic table; XR/a automatic collimator, color LCD Touch Screen operator console.
- **Rooms #2 & #3:** General Electric Premium Legacy units in 2 rooms with Enhanced DRS: GE Advantx high frequency, multi-pulse 65 kW generator; Advantx Legacy 90/15 (88 degrees to 15 degrees Trendelenberg) radiographic and fluoroscopic table, motorized 8-way tabletop; oscillating table Bucky with 12:1, 36 lines/cm (90 lines/inch) grid; Maxiray 100 fluoroscopic x-ray tube (under table), 0.6/1.0 mm double focal spot; Maxiray 100 overhead x-ray tube, 0.6/1.25 mm double focal spot; Advantx 9 inch image intensifier, 9/6/4.5 inch triple field image tube, motorized 10:1, 60 line/cm (152 lines/inch) grid, Primicon B camera, spot film device (2 images/second); Advantx Digital Radiology System (DRS) Productivity Enhancement Package with real-time and post-processing edge enhancement, contrast/brightness adjustments, last hold image, digital acquisition up to 6 frames/sec, 1200 image storage.
- **Rooms #1 & #2** are equipped with Eklin DR System– Canon CXDI-50G sensor panel.
- **Radiology reading room:**
  - Philips (Stentor) PACS system (iSite Enterprise),
  - Empiric RIS system,
  - 5 Multiple workstations with medical grade Barco monitors;
  - Wall mounted large monitor for KCC rounds and presentations.

**Computed Tomography:**

- GE BrightSpeed Elite Select 16 Slice CT Scanner
  - AW VolumeShare2 with 2 Monitors
  - Vessel IQ Express
Ultrasound:
- One – General Electric Logiq S8 Ultrasound machine with spectral, color flow and power Doppler capability, B-flow, harmonic imaging. **Transducers**: C1-5-D convex, 9L-D linear, L8-18i-D linear (hockey stick), ML 6-15-D Matrix ArrayL Linear, and 10C-D Microconvex.
- One – Philips iE33 in Cardiology.
- One – General Electric Vivid-i in Cardiology.

Magnetic Resonance Imaging:
- GE LX 1.5 Tesla MR scanner.
- GE Signa workstation, 1.5T, 9.1. Software M4.

Linear Accelerator:
- Siemens 6MV Linear Accelerator with photon and electron beams and 3D computerized planning system (3DCRT).

Miscellaneous:
- Vidar DiagnosticPRO Advantage film digitizer.
- Agfa Drystar 5300 Laser Image printer.

Imaging Equipment at University of Pennsylvania New Bolton Center Large Animal Hospital:

Diagnostic Radiology:
- Three – Sound/Canon EDR3 wired DR (small panel)
- One – Sound/Canon EDR5 wired DR (large panel)
- One – VetRocket/Canon X1 wireless DR (small panel)
- One – VetRocket/Canon X1 wireless DR (large panel)
- Philips (Stentor) PACS system (iVault, iRadiology, and iSite Enterprise)
- Five diagnostic workstations
- Array 2905 laser film digitizer
- Fuji film printer (DryPix 4000)
- One – Sedecal High Frequency 100 KW Generator; Varian x-ray tube, 350
KHU, 150 kVp, 0.6 and 1.25 double focal spot; Sedecal Overhead Tube Crane System - Vertical travel of 80 inches; 360° rotation about the vertical column; digital position indicators; electromagnetic locking system; laser beam centering
• One – OEC MINI6600 Digital Mobile C-Arm - Six inch diameter input screen; kVp range= 40-75; microamp range= 20-100; Continuous or one-shot modes; dual 16” monitors; image rotation 360°; left/right reversal; last image hold; image storage; motion artifact reduction; auto digital brightness and contrast adjustment; thermal image printer.
• Three – 80 kVp, 20 mA MinXray portable machines
• One – 80kvp,20 mA MinXray wireless portable machine
• One – 80 kVp, 20 mA Acoma portable machine
• Large Animal Kimzey X-Ray Table – 2000 pound capacity

Ultrasound:
• Three – Biosound Technos
• One – Biosound MyLab
• One – Biosound MyLab Gold
• One – Toshiba Viamo
• One – GE Vivid 7

Nuclear Medicine:
• One – RapidScan HD detector
• One – General Electric Gamma Camera System
• One – Oasis Nuclear Imaging Computer Software and Camera Interface

Computed Tomography:
• CereTom® 8-slice small bore portable CT scanner (Neurologica - manufacturer; Universal – distributor)

VII. Clinical resources:

<table>
<thead>
<tr>
<th>Indicate the approximate number of patients seen annually by the home institution?</th>
<th>30,673</th>
</tr>
</thead>
<tbody>
<tr>
<td>What is the annual imaging caseload?</td>
<td>13,000</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Small animals (canine, feline)</th>
<th>9,800 (imaging cases)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large animals (equine and food animals)</td>
<td>3,000 (imaging cases)</td>
</tr>
<tr>
<td>Exotic animals</td>
<td>200 (imaging cases)</td>
</tr>
</tbody>
</table>
What is the approximate annual imaging caseload of the program in:

<table>
<thead>
<tr>
<th>Service</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small Animal Radiology</td>
<td>5,800</td>
</tr>
<tr>
<td>Large Animal Radiology</td>
<td>1,800</td>
</tr>
<tr>
<td>Abdominal Ultrasound</td>
<td>3,150</td>
</tr>
<tr>
<td>Computed Tomography</td>
<td>530</td>
</tr>
<tr>
<td>Nuclear Medicine (large animal)</td>
<td>280</td>
</tr>
<tr>
<td>Magnetic Resonance Imaging</td>
<td>450</td>
</tr>
<tr>
<td>Other (specify):</td>
<td></td>
</tr>
<tr>
<td>- Biopsy/aspirate</td>
<td>700</td>
</tr>
<tr>
<td>- Contrast procedures</td>
<td>200</td>
</tr>
</tbody>
</table>

**VIII. Training content:**

**What percentage of imaging reports are typically available within 48 hours after the examination is conducted in typewritten or electronic form?** All imaging studies are typewritten. 100 percent are available in electronic form within 12 hours.

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.

**Of the preliminary reports generated from the imaging caseload what percentage are initially produced by the resident?** 90%

**What percentage of resident reports are reviewed by the imaging faculty prior to finalization of the report?** 100% of residents reports are reviewed by the imaging faculty members who are on clinic duty with the resident.

**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?**

Every day, all radiologists on clinic duty attend daily resident rounds where previous day’s cases are reviewed.

Typically 2-3 imaging faculty are present during rounds. A radiologist on duty finalizes preliminary reports and these reports are provided to the residents.
Every day usually three senior radiologists are on clinic duty (one on radiology, one on ultrasound and one on CT/MRI), and each is paired up with 1-2 residents; the faculty members are present from morning rounds to end-of-day and always directly accessible to the residents.

Please complete the table below

<table>
<thead>
<tr>
<th>Approximate number of cases in the 30 months clinical experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small Animal Radiology:</td>
</tr>
<tr>
<td>Large Animal Radiology:</td>
</tr>
<tr>
<td>Abdominal Ultrasound:</td>
</tr>
<tr>
<td>Computed Tomography:</td>
</tr>
<tr>
<td>Nuclear Medicine:</td>
</tr>
<tr>
<td>Magnetic Resonance Imaging:</td>
</tr>
<tr>
<td>Elective (any of above)</td>
</tr>
<tr>
<td>Required elective (specify): Cardiology</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>
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:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Course number</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radiobiology:</td>
<td>*Post Doctoral Course RAD 632 ‘Radiation Biology and Radiation Safety’</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Physics of Diagnostic Radiology:</td>
<td>*Post Doctoral Course (RAD 612 ‘Xray and CT imaging’)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Physics of Nuclear Medicine:</td>
<td>*Post Doctoral Course (RAD621 ‘Nuclear Medicine imaging’) *Nuclear Medicine Short Course (University of Tennessee)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Physics of Ultrasonography:</td>
<td>*Post Doctoral Course RAD622 – ‘MR and Ultrasound imaging’</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Physics of CT:</td>
<td>*Post Doctoral Course RAD 612 – ‘Xray and CT imaging’</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Physics of MRI:</td>
<td>*Post Doctoral Course RAD622 – ‘MR and Ultrasound imaging’</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

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 attached sheets if necessary.

Additional courses include:
- VCSN 649 – Large Animal Diagnostic Imaging;
- VCSN646 – Equine Lameness;
- VCSN647 – Equine Orthopedics;
- VANB601 – Veterinary Gross Anatomy;

*All Post-doctoral courses (RAD612-621-622-632) at Univ. of Pennsylvania Medical School are in the Department of Radiology.*
IX. Research Environment:

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over the last 5 years, what is the average number of peer reviewed publications, on which the IMAGING faculty listed under Direction and Supervision in IV above, are included as authors? Average of 10 publications per faculty over these 5 years (range: 2 to 24 from 2009 to 2014).</td>
<td></td>
</tr>
<tr>
<td>What is the number of publications/submissions expected of a resident completing the program? The resident is required to complete and publish a clinically related research project during their residency.</td>
<td></td>
</tr>
<tr>
<td>If this is an established program, what % of residents have made formal research presentations at the annual ACVR or equivalent national meeting?</td>
<td>80 percent.</td>
</tr>
<tr>
<td>Is an advanced degree a requirement of the training program?</td>
<td>No.</td>
</tr>
</tbody>
</table>

X. Educational Environment:

How many lectures or scientific presentations are expected of each resident during the course of their training?
The completed project is presented at the EAVDI or ACVR Annual Meeting and the UPenn House officers Research Day in either the second or third year.

2nd and 3rd year residents will be responsible for presenting each of the three sections (thorax, abdomen, musculoskeletal) given to the fourth-year students in their radiology rotation teaching rounds numerous times during year 2 and 3.

1st year residents also teach a radiographic anatomy lab to the 1st year students taking the gross anatomy course in the Fall semester of year one.

3rd year residents also give a 2-hour round on radiology of emergency cases to the incoming class of interns annually.

Residents (all years) also teach the students ultrasound labs that take place every week. Residents have no didactic lecture teaching responsibilities.

XI. Evaluation 'Evaluation of residents and protection mechanisms':

- At the 6 months reviews did your resident(s) successfully complete their residency training or did any of your resident(s) not adequately complete the last 6 months of training? All residents adequately completed the last 6 months of training.
- List the current members of the residents' review committee. Drs Mai, Suran, Reetz, Caceres, Mosenco
- List the internal mechanisms in place to protect your resident if conflicts arise. If there is a conflict between a resident and other staff or faculty member, the resident would be encouraged to seek advice and support from both Human
Resources and the Clinical Studies Department Chairman. Each graduating resident undergoes an exit interview with the hospital director and department chair, and provides feedback on quality of specialty training received as well as fills out an evaluation form of the radiology faculty. The Penn Vet administration retains record of these interviews and surveys. If problems are identified, the residency director will be asked to provide a report with explanations and propose solutions.

- **During the program how often is resident performance evaluated in writing?**

Evaluations are performed twice annually (December and August).

Each faculty member completes an evaluation for each resident.

Once the collected forms are summarized (by the residency director), the residents meet with the resident director to review and discuss the evaluation and set goals for the next training/evaluation period.

### XII. Teaching File:

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

There is a large radiographic archive of proven cases and artifacts containing more than 2400 cases available to the residents using the American College of Radiology diagnostic code system. In addition, since 2002, many of the previous slides and hard copy images used for teaching have been digitized and are available on the department’s radiology server (over 100 cases of small, large and exotic animal teaching cases). With the PACS system, images can be retrieved from the web-based image retrieval files. A teaching file is available on the PACS for large and small animal imaging, which is continuously expanded by the faculty. Currently it contains about 1200 small and large animal imaging cases. In addition, most of the known case conferences presented to or by the residents are done using Power Point Presentations that are then made available on a server for the residents to access.

**How is it maintained/updated?** This is a faculty responsibility.

### XIII. Conferences:

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

At least two monthly, not including mock boards and pathology rounds.

### XIV. Literature resources:

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

All relevant veterinary journals are available online through the University of Pennsylvania library. Most reference books are available in radiology. Those that are not in the **Radiology Section library** can be found in the veterinary school library. A radiology library with virtually all current radiology textbooks across all species and
modalities as well as the main physics books and reference internal medicine, cardiology and surgery textbooks is maintained by the Residency Director, and updated on a regular basis.

Both Philadelphia and New Bolton Center veterinary school campuses have libraries, plus the University of Pennsylvania Bio-Medical School library is within two blocks of the Veterinary School – Philadelphia campus. All faculty and residents have electronic access to the entire University of Pennsylvania Library System. The Veterinary School Library, together with its branch, the Jean Austin duPont Library located at the New Bolton Center, supports all phases of veterinary medicine and surgery and also includes basic science works pertaining to mammals, general biomedical texts, and materials on the care of exotic and domestic animals. The collection includes 34,000 volumes and 475 current serials. All holdings are catalogued in Franklin, the Penn Library online catalogue.

The services and collections of the Biomedical Library (located at the School of Medicine) support research, education, and patient care for the University of Pennsylvania Health System, the School of Nursing, Biomedical Graduate Studies and graduate programs in the Biology Department. Emphasis is on the most current information available. The collection consists of more than 181,000 volumes and 2,900 current serials. The Biomedical Library houses over 60 public computers which connect to the Library Web via Netscape, allow you to access and search Penn's Digital Library, and use productivity software. The Biomedical Library Microcomputer Center (MCC) is located on the ground floor. The MCC has over 40 computers in either Windows or Macintosh platforms which can access various word-processing, presentation, communication, Internet/web, and medicine-specific applications.

XV. Appendix:

(a) 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), check the appropriate box. Complete the table for residents finishing 4 years ago (Year 4), 3 years ago (Year 3), etc.

<table>
<thead>
<tr>
<th></th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passed preliminary exam 1st time</td>
<td>2/2</td>
<td>1/1</td>
<td>2/2</td>
<td>2/2</td>
<td>1/1</td>
</tr>
<tr>
<td>Passed prelim exam 2nd time</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Passed prelim after 2nd time</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Passed certifying exam 1st time</td>
<td>1/2</td>
<td>1/2</td>
<td>1/1</td>
<td>2/2</td>
<td>2/2</td>
</tr>
<tr>
<td>Passed certifying exam 2nd time</td>
<td>1/1</td>
<td>1/1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Passed certifying exam after 2nd time</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unsuccessful in all attempts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
(b) 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.

➤ SEE ANNEX
### ANNEX 1 – EXAMPLE OF MONTHLY RADIOLOGY CLINICAL SCHEDULE

#### Radiology Clinic Schedule: January 2015

<table>
<thead>
<tr>
<th>Mon 1/5</th>
<th>Tue 1/6</th>
<th>Wed 1/7</th>
<th>Thur 1/8</th>
<th>Fri 1/9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radiologist: RAD US</td>
<td>YM</td>
<td>AVC</td>
<td>AVC</td>
<td>JS</td>
</tr>
<tr>
<td>Residents: RAD US</td>
<td>PF</td>
<td>JN</td>
<td>PF</td>
<td>JN</td>
</tr>
<tr>
<td>Intern: Dr. Daniel Avenick</td>
<td>RAD</td>
<td>RAD</td>
<td>US</td>
<td>RAD</td>
</tr>
<tr>
<td>CT/MRI</td>
<td>WM / JN</td>
<td>AVC / JN</td>
<td>JAR</td>
<td>WM</td>
</tr>
<tr>
<td>Faculty Rounds: 8-9 am</td>
<td>Weekend Rounds</td>
<td>Board Rounds</td>
<td>Board Rounds</td>
<td>Board Rounds</td>
</tr>
<tr>
<td>Student Rounds: 8-10:30 am</td>
<td>Rot #17 Self Study/Quiz</td>
<td>Thx - JN</td>
<td>Thx - AVC</td>
<td>Thx - JS</td>
</tr>
<tr>
<td>Out/Busy/Reminders</td>
<td>JAR</td>
<td>WM/JS: VSUR LAB 3-5P</td>
<td>JAR</td>
<td>WM – SC Mtg 2P</td>
</tr>
</tbody>
</table>

#### January 2015

**Radiology Clinic Schedule:** 

- **NF/AY @ NBC: LA IMAGING**
- **‘Physics’ RAD612: AY/NF January – June**
- **‘Physics’ RAD622: PF/SF January – June**
- **August 11 – March 23: Pr. Tilde Froes – Visiting Radiologist on Sabbatical**

<table>
<thead>
<tr>
<th>Mon 1/12</th>
<th>Tue 1/13</th>
<th>Wed 1/14</th>
<th>Thur 1/15</th>
<th>Fri 1/16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radiologist: RAD US</td>
<td>JAR</td>
<td>YM</td>
<td>AVC</td>
<td>JS</td>
</tr>
<tr>
<td>Residents: RAD US</td>
<td>JN</td>
<td>PF</td>
<td>SF</td>
<td>JN</td>
</tr>
<tr>
<td>Intern: Dr. Daniel Avenick</td>
<td>US</td>
<td>US</td>
<td>RAD</td>
<td>US</td>
</tr>
<tr>
<td>Medicine Resident: Dr. Hathaway Fiocchi</td>
<td>RAD</td>
<td>RAD</td>
<td>US</td>
<td>RAD</td>
</tr>
<tr>
<td>CT/MRI</td>
<td>WM</td>
<td>YM</td>
<td>JAR</td>
<td>WM / JN</td>
</tr>
<tr>
<td>Faculty Rounds: 8-9 am</td>
<td>Weekend Rounds</td>
<td>Board Rounds</td>
<td>MRI Rounds</td>
<td>MRI Rounds</td>
</tr>
<tr>
<td>Student Rounds: 8-10:30 am</td>
<td>Abd - JN</td>
<td>Skel - WM</td>
<td>Skel – AVC</td>
<td>Skel - JN</td>
</tr>
<tr>
<td>Out/Busy/Reminders</td>
<td>YM</td>
<td>WM – R</td>
<td>JS – R</td>
<td>AVC</td>
</tr>
<tr>
<td></td>
<td>AVC</td>
<td>WM – R</td>
<td>WM – V</td>
<td>YM</td>
</tr>
<tr>
<td>Mon 1/19</td>
<td>Tue 1/20</td>
<td>Wed 1/21</td>
<td>Thur 1/22</td>
<td>Fri 1/23</td>
</tr>
<tr>
<td>------------------</td>
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<td>----------</td>
<td>-----------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Radiologist:</strong></td>
<td>MLK</td>
<td>AJC</td>
<td>YK</td>
<td><strong>US</strong></td>
</tr>
<tr>
<td><strong>Residents:</strong></td>
<td>US</td>
<td>JN</td>
<td>SF</td>
<td><strong>PF</strong></td>
</tr>
<tr>
<td><strong>CT/MRI:</strong></td>
<td>YM/JN</td>
<td>JAR</td>
<td>WM</td>
<td><strong>AVC</strong></td>
</tr>
<tr>
<td><strong>Faculty Rounds:</strong></td>
<td>8-9 am</td>
<td>Board Rounds</td>
<td>Board Rounds</td>
<td>Journal Club</td>
</tr>
<tr>
<td><strong>Student Rounds:</strong></td>
<td>8-10:30 am</td>
<td>Rot #18: Self Study/Quiz</td>
<td>Thx - AVC</td>
<td>Thx - JS</td>
</tr>
<tr>
<td><strong>Out/Busy/Reminders</strong></td>
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<tr>
<th>Mon 1/26</th>
<th>Tue 1/27</th>
<th>Wed 1/28</th>
<th>Thur 1/29</th>
<th>Fri 1/30</th>
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<tr>
<td><strong>Radiologist:</strong></td>
<td><strong>RAD</strong></td>
<td><strong>US</strong></td>
<td><strong>JAR</strong></td>
<td><strong>YM</strong></td>
</tr>
<tr>
<td><strong>Residents:</strong></td>
<td><strong>US</strong></td>
<td><strong>SF</strong></td>
<td><strong>JN</strong></td>
<td><strong>PF</strong></td>
</tr>
<tr>
<td><strong>ESCC Resident:</strong></td>
<td><strong>Dr. Laura Ateca</strong></td>
<td><strong>RAD</strong></td>
<td><strong>US</strong></td>
<td><strong>RAD</strong></td>
</tr>
<tr>
<td><strong>CT/MRI:</strong></td>
<td>WM/PF</td>
<td>JS</td>
<td>AVC</td>
<td>WM</td>
</tr>
<tr>
<td><strong>Faculty Rounds:</strong></td>
<td>8-9 am</td>
<td>Weekend Rounds</td>
<td>Board Rounds</td>
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<tr>
<td><strong>Student Rounds:</strong></td>
<td>8-10:30 am</td>
<td>Abd - JN</td>
<td>Skel - YM</td>
<td>Skel - JAR - ULTRASOUND LAB - SH</td>
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<tr>
<td><strong>Out/Busy/Reminders</strong></td>
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Last Revised: November 25, 2008
| Name         | Year 1 | Year 2 | Year 3 | Year 1 | Year 2 | Year 3 | Year 1 | Year 2 | Year 3 | Year 1 | Year 2 | Year 3 | Year 1 | Year 2 | Year 3 | Year 1 | Year 2 | Year 3 | Year 1 | Year 2 | Year 3 | Year 1 | Year 2 | Year 3 | Year 1 | Year 2 | Year 3 | Year 1 | Year 2 | Year 3 | Year 1 | Year 2 | Year 3 | Year 1 | Year 2 | Year 3 | Year 1 | Year 2 | Year 3 | Year 1 | Year 2 | Year 3 | Year 1 | Year 2 | Year 3 | Year 1 | Year 2 | Year 3 | Year 1 | Year 2 | Year 3 | Year 1 | Year 2 | Year 3 | Year 1 | Year 2 | Year 3 | Year 1 | Year 2 | Year 3 | Year 1 | Year 2 | Year 3 | Year 1 | Year 2 | Year 3 | Year 1 | Year 2 | Year 3 |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
CURRICULUM VITAE – IMAGING FACULTY IN THE PROGRAM

WILFRIED MAI
DVM, PhD, MSc, Dipl ECVDI, Dipl ACVR, Cert. Clin. Res.

Education
2004-2006 Certificate in Clinical Research, Center for Clinical Epidemiology and Biostatistics, University of Pennsylvania, Philadelphia, PA, USA
2001-2004 PhD (Core: Biomedical Engineering / Option: Diagnostic Imaging), Universite Claude Bernard, Lyon, France & Duke University, Durham, NC, USA
1998-2000 MSc in Biomedical Engineering (Core: “Medical imaging and Radiation/Tissue interactions”), Universite Claude Bernard, Lyon, France
1997-2000 Residency training in radiology - Veterinary School of Lyon, France
1995-1997 Internship in Small Animal Internal Medicine - Veterinary School of Alfort, France
1990 - 1995 Doctorate in Veterinary Medicine, Univ. of Creteil & Veterinary School of Alfort, France

Positions/Faculty Appointments
Jul 2011 – Present Associate Professor in Radiology, Clinician Educator, Veterinary School, Univ. of Pennsylvania
Jul 2004 –2011 Assistant Professor in Radiology, Clinician Educator, Veterinary School, Univ. of Pennsylvania
Jan – Mar 2004 Lecturer in Radiology, Faculty of Veterinary Medicine, Utrecht University, Netherlands
2001 – 2002 Part-time lecturer in Radiology, School of Veterinary Medicine, Lyon, France

Specialty Certification
2006 Diplomate, American College of Veterinary Radiology
2000 Diplomate, European College of Veterinary Diagnostic Imaging

Publications


ANA V. CÁCERES  
DVM Dipl ACVR

Education  
1995-1999  D.V.M., Tuskegee University, Tuskegee, Alabama  
1992-1995  B.S, Animal Science University of Puerto Rico, Medical Sciences Campus - Rio Piedras, Puerto Rico 
1988-1992  B.S, Biology  
University of Puerto Rico, Rio Piedras, Puerto Rico

Post Graduate Training  
2002-2005  Residency in Veterinary Diagnostic Imaging, University of Pennsylvania  
1999-2002  Private general practice

Academic Appointment  
2005-present  Lecturer in Radiology/Diagnostic Imaging, MJR Veterinary Hospital, University of Pennsylvania

Specialty Certification  
2006  Diplomate, American College of Veterinary Radiologist

Research Interests  
Canine Pancreatic dual phase CT angiography  
Feline renal Dual-Phase CT angiography

Publications 

Last Revised: November 25, 2008
JENNIFER ADOLF REETZ  
DVM, Dipl ACVIM, Dipl ACVR

Education

1997  
Doctor of Veterinary Medicine, D.V.M.  
The University of Tennessee, College of Veterinary Medicine, Knoxville, TN

1993  
Bachelor of Science, Biology, 1993  
The Pennsylvania State University, University Park, PA

Specialty Certification

2006  
Diplomate, American College of Veterinary Radiology

2001  
Diplomate, American College of Veterinary Internal Medicine

Postgraduate Training

2003-2006  
Resident, Veterinary Diagnostic Imaging, University of Pennsylvania School of Veterinary Medicine

2000-2003  
Equine Internal Medicine and Ambulatory Clinician,  
Ledgewood Equine Veterinary Clinic, Ontario, NY

1998-2000  
Resident, Large Animal Internal Medicine,  
Cornell University, Ithaca, NY

1997-1998  
Intern, Equine Ambulatory,  
The Ohio State University, Columbus, OH

Academic Appointment

2006-Present  
Lecturer in Radiology, July 2006-present  
University of Pennsylvania School of Veterinary Medicine

Publications


YAEL PORAT-MOSENCO  
DVM, Dipl ECVDI & ACVR

Education

1999 DVM, Cum Laude.
1992-1999 Faculty of Veterinary Medicine, Utrecht University, the Netherlands.
1990-1991 Veterinary School, Gent, Belgium.

Postgraduate training

2005-present Staff veterinarian in Radiology, University of Pennsylvania, School of Veterinary Medicine, Philadelphia, Pennsylvania.
2004-2005 Lecturer in Radiology, University of Pennsylvania, School of Veterinary Medicine, Philadelphia, Pennsylvania.
2001-2004 Residency in Veterinary Radiology, University of Pennsylvania, School of Veterinary Medicine, Philadelphia, Pennsylvania.
2000-2001 Veterinarian at a private clinic for companion animals in Ramat-Gan, Israel.
2000-2001 Part-time staff clinician at the Veterinary Teaching Hospital, Koret School of Veterinary Medicine, Hebrew University of Jerusalem, Rehovot, Israel.
1999-2000 Rotating Internship, Small Animal Medicine and Surgery, Koret School of Veterinary Medicine, Hebrew University of Jerusalem, Rehovot, Israel.

Specialty Certification

2008 Diplomate, American College of Veterinary Radiology
2007 Diplomate, European College of Veterinary Diagnostic Imaging

Research

Urethral Sphincter Mechanism Incompetence in Female Dogs- Predisposing Factors and Long-Term Results of Pharmacological Management.
Thick-Section Reformatting of Thinly Collimated Computed Tomography for Reduction of Skull-Base Related Artifacts in Dogs and Horses.

Publications


Last Revised: November 25, 2008
JANTRA NGOWUSAN SURAN  
DVM, Dipl ACVR

EDUCATION:
2006  Doctor of Veterinary Medicine.  
         2002 – 2006  Cornell University, College of Veterinary Medicine.
2000  B.S. Biology (& Psychobiology), Summa Cum Laude. Long Island University, Southampton College.

POST-GRADUATE TRAINING:

SPECIALTY CERTIFICATION:
2011  Diplomate, American College of Veterinary Radiology

POSITIONS:
2013 – Present  Assistant Professor of Radiology (CE track)
2011 – 2013  Lecturer in Radiology.

PUBLICATIONS:
VIRGINIA LESLIE BUTLER REEF  
DVM, Dip ACVIM, Associate Dipl ECVDI (Large Animal)

Education  
1979 D.V.M. The Ohio State University

Postgraduate Training  
1980-1982 Resident in Large Animal Medicine, New Bolton Center, University of Pennsylvania  
1979-1980 Intern, Large Animal Medicine & Surgery, New Bolton Center, University of Pennsylvania

Faculty Appointments  
2002-Present Mark Whittier and Lila Griswold Allam Professor of Medicine, New Bolton Center, University of Pennsylvania  
1996-2002 Professor of Medicine in the George D. Widener Hospital, New Bolton Center, University of Pennsylvania  
1990-1996 Associate Professor of Medicine in the George D. Widener Hospital, New Bolton Center, University of Pennsylvania  
1986-1990 Assistant Professor of Medicine in the George D. Widener Hospital, New Bolton Center, University of Pennsylvania  
1982-1986 Lecturer in Medicine, New Bolton Center, University of Pennsylvania

Specialty Certification  
1984 American College of Veterinary Internal Medicine (Internal Medicine)

Primary Area of Research  
Equine Cardiology and Diagnostic Ultrasonography

Selected Publications

LILLIAN ELIZABETH DUDA  
V.M.D. Dipl ACVR (RO)

Education
1997-2002  M.B.E. (bioethics), University of Pennsylvania
1986-1990  V.M.D., Cum Laude, School of Veterinary Medicine, University of Pennsylvania
1980-1986  B.A., (philosophy) Yale University

Postgraduate Training
1997-present  Staff Veterinarian, Radiation Oncology, Veterinary Hospital of the University of Pennsylvania
1993-1996  Resident, Radiation Oncology (nonconforming), Veterinary Hospital of the University of Pennsylvania
1991-1992  Intern, Veterinary Hospital of the University of Pennsylvania

Specialty Certification
1996  American College of Veterinary Radiology, Radiation Oncology Affiliate

Selected Publications


