Wednesday, January 26, 2022

ACVR - RO New Residency Program Application

Please review the Radiation Oncology (RO) Residency Program Essentials Training Standards and Requirements document prior to completing this form.
The following documents will be needed to complete the application:

- CVs (current within 1 year and a maximum of 2 pages each) for radiation oncology, diagnostic imaging, and medical oncology Diplomates involved in the training program
- Syllabi for coursework in medical physics, cancer biology, and radiation biology (including internal and external courses)
- Letters of agreement from cooperating institutions
- Letter of agreement from medical physics support for clinical training
- Resident calendar that includes the following:
-
  - 24 months of RO-specific activities (primary case responsibility, treatment planning, 1 week/year of radiation therapist activities)
  - 8 weeks of medical oncology
  - 4 weeks of diagnostic imaging
  - 40 hours of medical physics
  - 40 hours of clinical pathology
  - 80 hours of anesthesia in minimum 1-week blocks
  - 2 weeks of neurology
  - 2-week minimum off-clinic time per year (study, research, etc) not including vacation
  - Vacation time as mandated by state/institution
  - Required outrotations at cooperating institutions
- Resident evaluation forms

Submission Date Monday, November 1, 2021

Your Name Koichi Nagata

Your Address 637 Huntington Road Apt B4
Athens, GA, 30606

Your Email Address KNAGAT@HOTMAIL.COM

Radiation Oncologists in support of the program (Must be Diplomate(s) of the ACVR):

First Name	Last Name	Title/Credentials	Email	Phone	Number of weeks per year Diplomate is available to supervise* the resident

First Name	Last Name	Title/Credentials	Email	Phone	Number of weeks per year Diplomate is available to supervise* the resident
Koichi	Nagata	BVSc, DACVR (RO)	knagata@hotmail.com	7062027712	48

*Resident supervision is defined as being available on-site 40 hours/week (defined as a 4- or 5-day work week to equal a minimum of 40 hours) to support the resident in radiation oncology-related activities including patient consultation/management, review of treatment plans, position verification and participation in daily case-based rounds.

Which of the Radiation Oncology Diplomates listed above will serve as the Residency Director? This individual will be the primary contact for the residency program and will be responsible for completing all necessary forms/reviews and notifying the RO RSEC of any changes to the program. The Residency Director must be a Diplomate of the ACVR and must be located at the primary training institution.

Koichi Nagata

Please confirm that during the minimum 24 months of RO-specific activities, a Supervising Diplomate will be present on site to supervise the resident as defined above for 40 hours/week (4-5 days).

Yes

A standard residency program is one that meets all of the residency program requirements set forth in the ACVR-RO Residency Essentials Training Standards document. An alternative or amended program is designed for one specific individual/resident and satisfactorily meets all of the residency program requirements, but is completed in an extended timeline (more than 3 years but fewer than 5 years).

This application is made for (check one):

Standard Program

What is the total length of the training program?

3 years

Number of months dedicated solely to radiation oncology-specific activities as defined in the ACVR-RO Residency Essentials Training Standards document (RO-specific activities include primary case responsibility, treatment planning, 1 week/yr of therapist activities):

28 months

Primary Site:	University of Georgia (UGA)
Hospital/University:	UGA Veterinary Teaching Hospital
Department:	Veterinary Medicine
Address	2200 College Station Road Athens, GA, 30602

Advanced Degree and Research/Publication Requirement

Masters	No
PhD	No
Research Project	No
Publication	No

It is required that a residency in veterinary radiation oncology provide the trainee with experience in formulation of radiation treatment plans, dose calculation, and treatment administration for veterinary patients with cancer. This includes generation of both manual and computer-based treatment plans for megavoltage external beam irradiation. External beam planning experience must include both forward and inverse planning, even if only one of those types is utilized for treatment at the primary facility. Does the program fulfill these requirements?

Yes

It is required that a residency in veterinary radiation oncology provide the trainee with experience in primary case responsibility, including new referrals, ongoing radiation patients, and follow-up visits. This includes receiving patients, clinical rounds, client/referring DVM communications, and medical records keeping. Does the program fulfill these requirements as described on page 12 of the RO Essentials document?

Yes

It is required that a residency in veterinary radiation oncology provide the trainee with a minimum of 1 week per year of radiation therapist activities to include daily linear accelerator quality assurance and warm up, patient positioning for treatment planning CT and therapy, radiation delivery (as allowed by the state/province), and acquisition of position verification imaging. Does the program fulfill these requirements?	Yes
How will the resident be trained in radiation biology? Please provide a description of formal and informal training experiences, or indicate time allotted for self-study.	The radiation oncology resident will read the entire radiobiology textbook "Radiobiology for the Radiologist (Eric J Hall)". The mentor (radiation oncologist) will quiz the radiation oncology resident on the contents of the book. The radiation oncology resident will also learn radiobiology from multiple different sources (scientific journals, oncology textbooks, attending seminars, solving).
Please provide instructors' names and credentials for radiation biology formal and informal training:	Koichi Nagata, DACVR (RO)
How will the resident be trained in cancer biology? Please provide a description of formal and informal training experiences, or indicate time allotted for self-study.	The radiation oncology resident will learn cancer biology via textbooks on cancer biology (Basic Science of Oncology [Tannock and Hill], The Biology of Cancer [Robert Weinberg]), attending Medical Oncology journal clubs, and attending scientific meetings such as the Veterinary Cancer Society and ACVR annual meetings. The resident will take quiz made by the mentor (radiation oncologist).
Please provide instructors' names and credentials for cancer biology formal and informal training:	Koichi Nagata
How will the resident be trained in medical physics? Please provide a description of formal and informal didactic (non-clinical) experiences, or indicate time allotted for self-study.	The resident will read the textbook of radiation physics (The Physics of Radiation Therapy [Faiz M. Kahn]) and take Raphex Medical Physics Examination questions. The mentor (radiation oncologist) will also teach the basic concepts of radiation physics and how to hand-calculate the dose for typical radiation setups (parallel opposed photon beam treatments and electron beam treatments, extended SSD setups). The University of Georgia works with an off-site certified medical physicist who performs monthly and annual quality assurance tests on the linear accelerator and generates IMRT QA plans. He also provides technical assistance with the treatment planning software (Eclipse ver 16.1) and troubleshooting of the linear accelerator (Trilogy, Varian). He will also be involved in resident teaching (40 hours per residency program).

Please provide instructors' names and credentials for didactic (non-clinical) medical physics formal and informal training:

Koichi Nagata, DACVR (RO)

Medical physics training requires 1 week or 40 hours of clinical contact with a qualified medical physicist. Please provide a description of the training experience.

Our medical physicist, Tim Pethel, will be lecturing once a month on average (approximately one hour per time) regarding radiation physics topics pertaining to the RO board exam.

Medical Physicist(s) in support of clinical training in the residency program

First Name	Last Name	Title/Credentials	Physicist on-site? Y/N
Tim	Pethel	MS, DABMP, DABR	No

A minimum of 1 hour of medical literature review with an ACVR-RO Diplomate is required monthly. Please describe this experience, and any additional formal or informal conferences available to the resident (including journal clubs, seminars, book reviews, etc.) that are not already listed above:

Journal club is held once a week which will review oncology-related scientific articles. The resident will also spend time with the radiation oncologist and go over all the important rad onc literatures (over 250 manuscripts). The resident will be quizzed by the radiation oncologist.

The resident is required to present at least 2 lectures or scientific presentations during the course of the residency. Please describe how the program will fulfill this requirement:

The resident is required to present in "Ground Rounds" once a year. The target audience is the entire 4th year vet students and clinical veterinary faculty members.

The program must include an external beam radiation therapy machine in the megavoltage range and 3D computerized radiation treatment-planning capabilities to create treatment plans used for treatment delivery. Residents must have on-site access to treatment planning systems capable of forward and inverse planning even if both types of planning techniques are not deliverable at that institution.

Please list the manufacturer and model of the on-site external beam radiation therapy delivery system:

Trilogy, Varian

Please list the manufacturer and model of the on-site radiation therapy treatment planning system(s). Please indicate whether they are capable of forward or inverse planning, or both, and whether or not they are used clinically to deliver treatments:

Eclipse (ver. 16.1). They are capable of forward and inverse planning.

The clinical training requirements in the following six questions, described on pages 15 and 16 of the RO Essentials document can be fulfilled at a cooperating institution if the primary institution lacks resources to accomplish them. Training at cooperating institutions must be supervised by a

Supervising or Supporting ACVR-RO Diplomate and a letter of agreement from the cooperating institution is required. The training requirements can be combined into a single minimum 2-week learning experience at the cooperating institution.

The residency program requires hands-on clinical experience to develop expertise and self-sufficiency in manual setups and manual treatment planning with photons. How does the program fulfill this requirement?

The resident is expected to do a setup and hand-calculation of dose for manually set-up patients (parallel opposed) by using the TMR table for 6MV photons.

The residency program requires hands-on clinical experience to develop expertise and self-sufficiency in manual setups and manual treatment planning with electrons. How does the program fulfill this requirement?

The resident is expected to do a setup and hand-calculation of dose for manually set-up patients (electron setup) by using the SSD table.

The residency program requires hands-on clinical experience with forward planning for 3D conformal radiotherapy (non-IMRT). How does the program fulfill this requirement?

The resident will be asked to make 3D conformal plans using a CT dataset of previously treated patients.

The residency program requires hands-on clinical experience with inverse planning for IMRT. How does the program fulfill this requirement?

The resident is expected to make RT plans of most patients treated at our facility (most of our patients are treated with IMRT)

The residency program requires hands-on clinical experience in on-board imaging verification with MV or KV CT. How does the program fulfill this requirement?

The resident is expected to perform and match CBCT taken by the OBI (almost all patients get CBCT)

The residency program requires hands-on clinical experience in on-board imaging verification with kV digital radiographs. How does the program fulfill this requirement?

The resident is expected to perform and match kv images taken by the OBI for almost all patients (almost all patients get CBCT)

The residency program requires hands-on clinical experience in on-board imaging verification with MV portal imaging. How does the program fulfill this requirement?

The resident is expected to perform and match MV images taken by the OBI for almost all patients (it is not commonly used at our facility but this can be done for training purposes)

Radiologist(s) in support of the residency program [Must be Diplomate(s) of the ACVR or ECVDI]

First Name	Last Name	Title/Credentials	Diplomate on-site? Y/N

First Name	Last Name	Title/Credentials	Diplomate on-site? Y/N
Michael	Perlini	DVM, DACVR(radiology)	Yes

The residency program requires at least 26 weeks/year of on-site diagnostic imaging support from a ACVR or ECVDI Diplomate and availability for remote support for at least 45 weeks/year. How will the institution fulfill this requirement?

Our radiology service, which is supervised by a board-certified radiologist, will perform diagnostic imaging procedures necessary for staging (ex. radiographs, ultrasound, MRI, and nuc med study) as well as for RT planning (CT and MRI). The board-certified radiologist will assist the radiation oncology team with contouring etc.

How will the resident be trained in diagnostic imaging? Please provide a description of formal and informal training experiences as well as a description of the resident's role while rotating on a diagnostic imaging service:

During this time, the resident will participate in formal training of diagnostic imaging. The resident is expected to participate in daily image review rounds, and be exposed to different imaging techniques, including CT, MR, nuclear medicine, and diagnostic ultrasound. The resident is expected to review and provide written interpretations of radiographs and CT scans. Particular care should be taken to review imaging associated with patients receiving radiotherapy.

The program must have on-site access to modern radiographic equipment, including digital or computed radiography, ultrasound, and CT. Does the institution fulfill this requirement?

yes

Medical Oncologist(s) in support of the residency program [Must be Diplomate(s) of the ACVIM, Specialty of Oncology]

First Name	Last Name	Title/Credentials	Diplomate on-site? Y/N
Nicole	Northrup	DVM, DACVIM (oncology)	Yes
Corey	Saba	DVM, DACVIM (oncology)	Yes
Travis	Laver	DVM, DACVIM (oncology)	Yes
Dawn	Clarke	DVM, DACVIM (oncology)	Yes

The residency program requires at least 26 weeks/year of on-site medical oncology support from an ACVIM (Oncology) Diplomate. How will the institution fulfill this requirement?

At least one of the board-certified medical oncologist will supervise the medical oncology team throughout the year. The radiation oncology resident will be working as a part of the team whenever he/she is on clinics. They are readily available for discussion/consultation throughout a typical day. The radiation oncology resident is also participating in daily oncology case rounds and weekly journal club.

How will the resident receive training in medical oncology? Please provide a description of formal and informal training experiences as well as a description of the resident's role while

During this time the resident will function as a resident-clinician on the medical oncology service. This training

rotating on a medical oncology service:

should not focus on patients that will or are receiving radiation therapy, but should include all types of cases. The resident should understand the mechanisms of action of the frequently administered chemotherapy agents, and should be familiar with the management of chemotherapy-related side effects.
The resident is expected to be proficient in all of the skills and techniques described in the ACVR/ACVIM Resident Training Objectives Ad Hoc Committee 2015 Report.

Surgeon(s) in support of the residency program [Must be Diplomate(s) of the ACVS]

First Name	Last Name	Title/Credentials	Diplomate on-site? Y/N
Steve	Budsberg	DVM, DACVS	Yes
Kevin	Clarke	DVM, DACVS	Yes
Janet	Grimes	DVM, DACVS	Yes
Mandy	Wallace	DVM, DACVS	Yes
Chad	Schmied t	DVM,DACVS	Yes

The residency program requires at least 26 weeks/year of on-site surgical support from an ACVS Diplomate. How will the institution fulfill this requirement?

The board-certified surgeons are are readily available for consultation and surgical procedures.

Pathologist(s) in support of the residency program [Must be Diplomate(s) of the ACVP (Anatomic or Clinical Pathology) or ECVP (Clinical Pathology)]

First Name	Last Name	Title/Credentials	Diplomate on-site? Y/N
Kaori	Sakamo to	DVM, DACVP (Anatomic)	Yes
Tamas	Nagy	DVM, DACVP (Anatomic)	Yes
Cathy	Brown	DVM, DACVP (Anatomic)	Yes
Corrie	Brown	DVM, DACVP(Anatomic)	Yes
Kristin a	Meichn er	DVM, DACVP (Clinical)	Yes
Bridget	Gardene r	DVM, DACVP (Clinical)	Yes
Pauline	Rakich	DVM, DACVP (Clinical)	Yes
Jaime	Tarigo	DVM, DACVP (Clinical)	Yes

The residency program requires at least 45 weeks/year of anatomic and clinical pathology support by ACVP Diplomates. If not on-site, a letter of

We have pathologists on-site and are readily available for

support must be submitted. How will the institution fulfill this requirement?

consultation and diagnostic tests / necropsy.

At least 1 week or 40 hours in a clinical rotation or rounds with a clinical pathologist are required during the residency program. If off-site, a letter of agreement must be submitted. How will the institution fulfill this requirement?

We have on-site clinical pathology service which holds once-a-week rounds that the radiation oncology resident will participate in. Or, he/she may spend 1 week with the clinical pathology service.

Anesthesia Specialists in support of the residency program [Must be Diplomate(s) of the ACVAA or ECVAA, or Veterinary Technician Specialists (VTS)]

First Name	Last Name	Title/Credentials	Diplomate on-site? Y/N
Jane	Quandt	DVM, DACVAA	Yes
Daniel	Sakai	DVM, DACVAA	Yes
Mihehele	Barletta	DVM, DACVAA	Yes
Rachel	Reed	DVM, DACVAA	Yes

The residency program requires two 1-week (40-hour per week) clinical rotations (80 hours in total) in anesthesia with an Anesthesia Specialist, as defined above. Please provide a description of this training experience and the resident's role on this rotation.

The resident will be on anesthesia rotation for two weeks during which the resident will be performing anesthesia for assigned cases. The resident will also attend all case rounds and presentations in the anesthesia department.

Neurologist(s) in support of the residency program [Must be Diplomate(s) of the ACVIM, Specialty of Neurology or ECVN]

First Name	Last Name	Title/Credentials	Diplomate on-site? Y/N
Marc	Kent	DVM, DACVIM (Neurology)	Yes
Simon	Platt	DACVIM (Neurology)	Yes
Renee	Barber	DVM, DACVIM (Neurology)	Yes

The residency program requires a 2-week clinical rotation supervised by a Diplomate of the ACVIM (Neurology) or ECVN. Please provide a description of the training experience and resident's role on this rotation.

The resident will be assigned primary cases---the resident will be responsible for physical/neuro exams, making decisions for the treatments/diagnostic imaging tests. The resident will participate in case rounds and presentations in the neurology department.

Please list all additional board certified specialists in direct support of the residency program. If offsite, please explain relationship:

Name	Certifying College/Board	Subspecialty (if applicable)	Explain Relationship if offsite

Name	Certifying College/Board	Subspecialty (if applicable)	Explain Relationship if offsite
Frane Banovic	DECVD (Dermatology)		
Benjamin Brainard	DACVECC		
Joseph Bartges	DACVIM (Internal Medicine)		
Andrew Bugbee	DACVIM (Internal Medicine)		
Amanda Erickson-Coleman	DACVIM (cardio)		
Stephen Divers	DACVZM (exotic)		
Kate Myrna	DACVO (optho)		

Evaluation of resident performance and progress must be documented every 6 months through appropriate techniques, including faculty appraisal, or oral or written tests, or a combination of these. Institutional resident evaluation forms should be submitted as part of the residency application. How will the program fulfill this requirement?

The resident will be appraised by the radiation oncologist (Koichi Nagata) on the items specified on the submitted evaluation form.
The resident is also quizzed on daily basis on various topics regarding radiation biology, physics, and oncology.

If applicable, please list the residents who have completed the training program within the last five years, including the year that each individual's training program ended. If possible, provide the status of each individual with respect to the board certification process.

Evan Ducker: took board exam in 2021, passed two sections (radbio and physics), failed the remaining section (general)

Please list any additional information of interest in support of this residency application.

n/a

How is the resident training experience presently impacted by the COVID-19 pandemic? Please comment on the following:

1. On-site presence of residents and radiation oncology faculty

2. Caseload
3. Faculty oversight of radiation treatment planning and patient management
4. Rounds/seminars/journal club and other didactic courses
5. Non-radiotherapy clinical rotations
6. External rotations

No significant change in 2021 due to Covid 19 other than the use of online journal clubs and meetings.

Upload the following information

- CVs (current within 1 year and maximum of 2 pages) for each radiation oncologist, radiologist and medical oncologist involved in the training program
- Resident calendar that includes the following:
  - 24 months of RO-specific activities (primary case responsibility, treatment planning, 1 week/year of radiation therapist activities)
  - 8 weeks of medical oncology
  - 4 weeks of diagnostic imaging
  - 40 hours of medical physics
  - 40 hours of clinical pathology
  - 80 hours of anesthesia in minimum 1-week blocks
  - 2 weeks of neurology
  - 2-week minimum off-clinic time per year (study, research, etc) not including vacation
  - Vacation time as mandated by state/institution
  - Required outrotations at cooperating institution(s)
- Letters of agreement from cooperating institutions
- Letter of agreement from medical physics support for clinical training
- Residency evaluation forms
- Syllabi for any formal or informal coursework

CVs

docx CV Perlini 1.7.22.docx

docx Clarke_DM CV 2022Jan.docx

doc Nagata CV 2022.doc

doc Northrup CV.doc

docx SABA CV 2021.docx

Resident Calendar

uga resident calender 3 yr program.xlsx

Letter of Agreement from Medical Physics Support for Clinical Training

Residency Letter Tim Pethel.pdf

Residency Evaluation Forms

Residency Evaluation Form.doc

Syllabi for Coursework

syllabus 3 yr.docx