Margaret McEntee

mcm43@cornell.edu

Submission Date
February 25, 2019 08:46

1. Date of Application	Feb 24, 2019
Your Name:	Margaret McEntee
Your Address:	930 Campus Road, Dept of Clinical Sciences, CVM, Cornell University Ithaca, New York, 14853
Your Email Address:	mcm43@cornell.edu

Program Director(s): (Must be a Diplomate of ACVR Recognized Veterinary Specialty of Radiation Oncology)

a. First Name	Last Name	Title/Credentials	Email	Phone #	Number of weeks per year faculty member is available to resident on a daily basis	Fax #
Margaret	McEntee	Professor	mcm43@cornell.edu	607-253-3051	48	607-253-3271

For institutions with only one RO Diplomate, please describe how you will be participating in resident training and overseeing his/her patient care while off clinics?

As the sole radiation oncologist I will be providing oversight throughout the year, and I will be covering the service when the resident is off clinics or on a different clinical rotation.

Do you have additional radiation oncologists in support of the program?

no

Please upload the CVs of the Program Director and any supporting Radiation Oncologists (if applicable).

McEntee CV 2019_February.pdf

a. Application is made for (check one):

Standard Program

4. Primary Site:	Cornell University College of Veterinary Medicine; Cornell University Hospital for Animals
Hospital/University:	CUHA/Cornell University
Department:	Clinical Sciences
Address:	930 Campus Road, Department of Clinical Sciences Cornell University Ithaca, New York, 14853
Cooperating Institution (if applicable):	Roswell Park Cancer Institute
Department:	Radiation Medicine
Hospital/University:	Cayuga Medical Center at Ithaca
Address:	101 Dates Drive Ithaca, New York, 14850-1383

For cooperating institutions, attach current letters of agreement signed on behalf of the institutions by appropriate individual(s):

Cornell Letter of Collaboration 2019.pdf

Cooperating Institution (if applicable):	North Carolina State University, College of Veterinary Medicine
Department:	Clinical Sciences
Hospital/University:	NSCU
Address:	1060 William Moore Drive Raleigh, NC, 27607
For cooperating institutions, attach current letters of agreement signed on behalf of the institutions by appropriate individual(s):	RSEC_ACVR_letter of cooperation for Cornell_March 2019
What is the total length of the training program?	36
If greater than 2 years, will this period include 24 months of continuous training in radiation oncology?	Yes
7. Number of months dedicated solely to radiation oncology training (excluding time on Medical Oncology service, Radiology/Imaging, etc.)	22
8. Advanced Degree:	Masters: No PhD: No
Upload calendar of resident's activities (24 or 36 month) including required rotations and vacations	Monthly calendar Cornell RO Residency.pdf

Diagnostic Radiologist(s): (Must be Diplomate(s) of the ACVR or ECVDI):

First Name	Last Name	Title/Credentials	Number of weeks per year each individual boarded radiology Diplomate is available to resident on a daily basis	Faculty Member on site (yes or no)?
Peter	Scrivani	Associate Professor/ACVR	26	YES
Philippa	Johnson	Assistant Professor/ECVDI	26	YES
Ian	Porter	Asst. Clin. Prof./ACVR	26	YES
Erin	Epperly	Asst. Clin. Prof./ACVR	32	YES

How many weeks per year is at least one boarded radiology Diplomate on site and available to a resident on a daily basis?	52 weeks
If off-site, please explain relationship:	N/A
Diagnostic Radiologist Faculty CVs (if applicable)	Epperly2018CV.pdf

Ian Porter CV.pdf

Johnson_Biosketch_NIH 10-4- 2018.pdf

Scrivani_Biosketch-NIH_2019.pdf

Medical Oncologist(s): (Must be Diplomate(s) of the ACVIM, Specialty of Oncology:

First Name	Last Name	Title/Credentials	Number of weeks per year each individual ACVIM-Oncology Diplomate is available to resident on a daily basis	Faculty Member on site (yes or no)?
Cheryl	Balkman	Senior Lecturer/ACVIM (oncology, internal medicine)	34	YES
Kelly	Hume	Assoc. Prof./ACVIM	18	YES

How many weeks per year is at least one boarded ACVIM-Oncology Diplomate on site and available to a resident on a daily basis?

52

If off-site, please explain relationship:

N/A

Medical Oncologist Faculty CVs (if applicable)

Balkman_Biosketch 2019.pdf

Hume_Biosketch 2019.pdf

Surgeon(s): (Must be Diplomate(s) of the ACVS:

First Name	Last Name	Title/Credentials	Faculty Member on site (yes or no)?
James	Flanders	Assoc Prof/ACVS	YES
Galina	Hayes	Asst Prof/ACVS/ACVECC /PhD	YES
Julia	Sumner	Asst Prof/ACVS	YES
Ursula	Krotscheck	Assoc Prof/ACVS	YES
Kei	Hayashi	Assoc Prof/ACVS	YES
Rory	Todhunter	Professor/ACVS	YES

How many weeks per year is at least one boarded ACVS Diplomate on site and available to a resident on a daily basis?

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If off-site, please explain relationship:

N/A

Pathologist(s): (Must be Diplomate(s) of the ACVP:

First Name	Last Name	Title/Credentials	Drop down	Faculty Member on site (yes or no?
Julie	Allen	Asst Clin Prof/DACVIM, DACVP	Clinical Pathology	YES
Erica	Behling-Kelly	Assoc Prof/DACVP, PhD	Clinical Pathology	YES
Tracy	Stokol	Professor/DACVP, PhD	Clinical Pathology	YES
Ashleigh	Newman	Asst Clin Prof/DACVP	Clinical Pathology	YES
Elizabeth	Buckles	Assoc Clin Prof/DACVP, PhD	Anatomic Pathology	YES
Gerald	Duhamel	Professor/DACVP, PhD	Anatomic Pathology	YES
Kathleen	Kelly	Asst Prof/DACVP, PhD	Anatomic Pathology	YES
Sean	McDonough	Assoc Prof/DACVP, PhD	Anatomic Pathology	YES
Andrew	Miller	Asst Prof/DACVP	Anatomic Pathology	YES
Jeanine	Peters-Kennedy	Assoc Clin Prof/DACVP, DACVD	Anatomic Pathology	YES
Teresa	Southard	Assoc Clin Prof/DACVP, PhD	Anatomic Pathology	YES

How many weeks per year is at least one boarded ACVP Diplomate on site and available to a resident on a daily basis?

52

If off-site, please explain relationship:

N/A

Please list all additional board certified specialists in direct support of the

program. If offsite, please explain relationship:

Name	Certifying College/Board	Subspecialty (if applicable)	If offsite, please explain relationship
Jordyn Boesch	ACVAA		
Luis Campoy	ACVAA		
Robin Gleed	ACVAA		
Manuel Martin-Flores	ACVAA		
Bruce Kornreich	ACVIM	Cardiology	
Romain Pariaut	ACVIM	Cardiology	
Sydney Moise	ACVIM	Cardiology	
Nadine Fiani	AVDC	Dentistry & oral surgery	
Santiago Peralta	AVDC	Dentistry & oral surgery	
William Miller	ACVD		
Daniel Fletcher	ACVECC		
Robert Goggs	ACVECC		
Julie Menard	ACVECC		
Gretchen Schoeffler	ACVECC		
Emma Davies	ECVN	Neurology	
Curtis Dewey	ACVIM	Neurology	
Jonathan Wood	ACVIM	Neurology	
Filipe Espinheira	ACVO		
Nita Irby	ACVO		
Thomas Kern	ACVO		
Eric Ledbetter	ACVO		
Sharon Center	ACVIM	Internal medicine	
John Loftus	ACVIM	Internal medicine	
Meredith Miller	ACVIM	Internal medicine	
John Randolph	ACVIM	Internal medicine	
Kenneth Simpson	ACVIM	Internal medicine	
Christopher Frye	DACVSMR		

11. Please describe the role of the radiation oncology resident and the radiation oncology service in the daily clinical management of patients and clients:

The oncology service at Cornell University is a combined service providing both medical and radiation oncology services. The resident will participate in all aspects of the service including oversight/care of the radiation patients, consultations for all possible radiation patients (done in conjunction with the faculty radiation oncologist), involvement in setting up the CTs for radiation treatment planning, RT planning (under the guidance of the faculty radiation oncologist and radiation physicist as appropriate), and involvement in the actual treatment of the patients when on radiation oncology. The radiation oncology resident will be responsible for care of the outpatient radiation patients, while the medical oncology residents typically oversee the care of the inpatients. The radiation resident will see recheck radiation patients as well as new patients both when on radiation oncology as well as medical oncology. The radiation resident will see new cases for radiation therapy 2 days each week when on radiation oncology, and rechecks 1 day each week.

12. How will the resident receive training in Medical Oncology? What is the time allotted to this training? Please provide description of formal and informal training experiences as well as

The resident will have primary case responsibility when rotating on medical oncology. Again, it is a combined service so both the medical and radiation oncology residents see the radiation patients. The radiation resident will spend a total of 5 months on primary medical oncology receiving new cases for consultation, diagnostics and treatment, and seeing rechecks of all oncology patients. The resident will participate in all of the rounds that are provided for oncology residents including: morning and afternoon case rounds with the whole service

description of the resident's role while rotating on a medical oncology service:

(faculty, residents and students), weekly morbidity/mortality rounds to discuss the cases seen that week (this includes review of the radiation patients), weekly journal club with all of the oncology residents and oncology faculty (journal club, topic rounds, cancer biology, etc.), monthly surgical oncology rounds with the surgery service, monthly clinical pathology rounds (alternating run by the clinical pathologists and the oncologists with the expectation that the resident will be responsible for presenting at minimally 2 rounds each year), advanced anesthesia seminars are available approximately weekly (attendance at pertinent rounds will be available to the resident), surgical biopsy results are provided in an informal rounds daily for the cases that are being read out each day providing an opportunity to see the actual histopathology slides and discuss the results with the pathology resident and pathologist.

13. How will the resident be trained in diagnostic imaging? What time is allotted for this training? Please provide description of formal and informal training experiences. Please specify if the resident is required to generate imaging reports while on diagnostic imaging rotation:

The resident will spend a total of one month on diagnostic imaging which includes morning rounds for the residents and faculty to review all of the diagnostic images from the previous day. The resident will be on the floor with the diagnostic imaging faculty member and involved in review of images and discussion of cases with the respective clinicians that have requested imaging. There will be time allotted to diagnostic radiography, ultrasound, CT, MRI and nuclear imaging. The resident will be expected to generate reports during the second, third and fourth weeks of the month rotation. A system exists for the faculty to review and edit the imaging reports and comment such that the resident is able to see what changes have been made by the faculty member. On a day to day basis the images from patients on the oncology service are reviewed during case rounds, and during Friday morning rounds all of the images are reviewed from the cases from that week in conjunction with discussing the diagnostic and therapeutic plans for patients. Residents are expected to attend rounds whether they are on or off clinics when they are on the Ithaca campus.

14. Will the resident be provided with training in anesthesia? If yes, please include a description of the training:

The resident will spend a total of 4 weeks rotating through the anesthesia service and managing patients under anesthesia under the guidance of the anesthesia technicians and anesthesia faculty. They will also have the opportunity to observe the anesthetic management of cases that are being treated in radiation therapy which is handled by the technicians in radiation oncology. The resident will attend rounds with the veterinary students on the anesthesia service while on the service.

15. How will the resident be trained in radiation biology? Please provide description of formal and informal training experiences:

The medical physicist (to join the faculty in the Department of Clinical Sciences at Cornell University in August 2019) is currently involved in teaching a course in radiation biology which will be provided at Cornell after his arrival (see syllabus). He will be providing instruction in collaboration with the board certified veterinary radiation oncologist at Cornell University. Radiation biology is also a topic discussed during the weekly journal club for the benefit of all of the oncology residents.

16. How will the resident be trained in cancer biology? Please provide a description of formal and informal training experiences:

The main mechanism for teaching cancer biology is through the weekly rounds sessions with the oncology residents and faculty which includes topic reviews as well as journal club.

17. How will residents be trained in radiation oncology physics? Please include a description of the medical physics support for your program and the role of medical physicist(s) in the training of the resident:

A full time medical physicist has been hired in the Department of Clinical Sciences at Cornell University who will be joining our faculty in August 2019. He will be responsible for providing instruction in radiation oncology physics, as well as diagnostic imaging physics, and oversight of the radiation treatment planning, QA and instruction in these areas. Currently we have a medical physicist that is on site part of one day each week to provide machine QA, Chart checks, and other support as needed. The collaboration with Roswell Park Cancer Institute and the role of the medical physicist will continue after the full time medical physicist joins our faculty. The role of a medical physicist will be expanded substantively with having a physicist on site full time, in conjunction with a part time physicist involved in the weekly, monthly and annual QA.

18. Please list any formal courses and their instructors included in the residency training curriculum. Please attach syllabi and instructor credentials for each listed course. NOTE: Please ensure syllabi are up-to-date within the last year:

Radiobiology - Parminder S. Basran, PhD, FCCPM Medical Radiation Physcis and Radiation Therapy Dosimetry - Parminder S. Basran, PhD, FCCPM Parminder Basran will have primary responsibility for instructing the resident. Sanjay Raina, PhD, DABR is also involved in providing quality assurance (medical physicist at Cayuga Medical radiation facility which is run by Roswell Park Cancer Institute) and limited instruction for the residents (see letter of collaboration).

Upload syllabi here:

Radiation Biology syllabus_2019_2020 amended.pdf

Radiation Physics Syllabus_2019 amended.pdf

Upload instructor credentials here:

Sanjay Raina CV 2019.pdf

ParminderBasran_CV_2018.pdf

19. Will the resident participate in clinical rounds on a daily basis while on clinical rotations?	yes
20. Is a supervising Diplomate available for the majority of rounds?	yes
21. Are formal conferences, such as clinicopathologic conferences, journal clubs, or seminars held on a weekly basis?	yes
22. Please provide a description of the conferences, etc., that are provided and the typical schedule. Please specify which conferences are mandatory vs. optional:	Oncology journal club - weekly (mandatory) Morbidity mortality rounds/ radiation case rounds - weekly (mandatory) Surgical oncology rounds - monthly (mandatory) Clinical pathology rounds specifically with oncology - monthly (mandatory) Surgical biopsy rounds - daily (optional) Advanced anesthesia seminar series - approximately weekly (optional) There are many opportunities at the College of Veterinary Medicine to attend research seminars, work in progress presentations by graduate students involved in cancer research, Clinical Investigator's Day, the NYS Veterinary Conference (held annually at the college); and all of these opportunities are available to the resident to attend.
23. Is the resident required to give one or more formal presentations at a conference or in an educational setting on a yearly basis?	yes
If yes, please provide a description of the requirement:	The resident will have the opportunity to provide the results of research projects at Clinical Investigator's Day at Cornell University (opportunity for residents to present their research), as well as at a conference. The resident will be expected to provide 1-2 lectures each year as part of the veterinary curriculum at Cornell University College of Veterinary Medicine.
24. How many major veterinary medical or medical meetings is each resident able to or expected to attend during his/her training program?	Two
Comments:	The resident is expected to attend approximately one meeting a year which is supported by the program.
25. Does the training program require a research project?	No
If yes, please list the number of research projects and any comments:	While not required, it is expected that the resident will complete at least one project during the residency program, and will be provided time to do so.
26. Are one or more publications required as part of the training program?	No
If yes, please list the number of publications and any comments:	Residents are encouraged to publish the results of research projects, but it is not required as part of the residency training program.
Do you have a megavoltage teletherapy machine available?	Yes
Is the megavoltage teletherapy machine on-site?	Yes
Please specify the manufacturer and model:	Siemens Primus Mid-Energy 6 MV linac

Do you have a multileaf collimator available?	Yes
Is the multileaf collimator on-site?	Yes
Please specify number of leaves and width of leaves:	58 leaves, 1 cm
Do you have an on-board portal or CT imaging available?	No
Do you have a 3D - computer based treatment planning system available?	Yes
Is the 3D - computer based treatment planning system on-site?	Yes
Please specify manufacturer and model:	Philips Pinnacle3 3DRTP
Do you have a 2D or 2 1/2D computer based treatment planning system available?	No
Is the 2D or 2 1/2D computer based treatment planning system on-site?	No
Do you have intensity modulated radiation therapy available?	No
Is intensity modulated radiation therapy on-site?	No
Do you have stereotactic radiation therapy or radiosurgery available?	No
Is stereotactic radiation therapy or radiosurgery on-site?	No
Do you have strontium-90 plesiotherapy available?	Yes
Is strontium-90 plesiotherapy on-site?	Yes
Do you have LDR brachytherapy treatment and planning available?	No
Is LDR brachytherapy treatment and planning available on-site?	No
Do you have HDR brachytherapy treatment and planning available?	No
Is HDR brachytherapy treatment and planning available on-site?	No
Do you have diagnostic radiology/imaging services available?	Yes
Is diagnostic radiology/imaging services available on-site?	Yes
Do you have conventional radiography available?	Yes
Is conventional radiography available on-site?	Yes
Do you have fluoroscopy available?	Yes
Is fluoroscopy available on-site?	Yes
Is ultrasound available?	Yes
Is ultrasound available on-site?	Yes
Is nuclear medicine available?	Yes
Is nuclear medicine available on-site?	Yes
Do you have computed tomography available?	Yes
Do you have computed tomography available on-site?	Yes
Do you have magnetic resonance imaging available?	Yes

Do you have magnetic resonance imaging available on-site?	Yes
Do you have positron emission tomography available?	No
Do you have positron emission tomography available on-site?	No
Do you have an intensive care facility (24 hours) available?	Yes
Do you have an intensive care facility (24 hours) available on-site?	Yes
Do you have clinical pathology capabilities (includes CBC, serum chemistries, blood gases, urinalysis, cytology, parasitology, microbiology and endocrinology) available?	Yes
Do you have clinical pathology capabilities (includes CBC, serum chemistries, blood gases, urinalysis, cytology, parasitology, microbiology and endocrinology) available on-site?	Yes
Do you have a veterinary library with literature searching capabilities available?	Yes
Do you have a veterinary library with literature searching capabilities available on-site?	Yes
Do you have a medical library with literature searching capabilities available?	Yes
Do you have a medical library with literature searching capabilities available on-site?	No
Do you have computerized medical records with searching capabilities available?	Yes
Do you have computerized medical records with searching capabilities available on-site?	Yes
If any of the above equipment or facilities are available off-site, please explain how the resident can access them for case management, research or study:	We have access to the Cornell University library system both on the Ithaca campus as well as Weill Cornell Medicine in NYC.
Megavoltage Gamma/X-ray teletherapy:	60
Intensity modulated radiation therapy:	0
Stereotactic radiation therapy or radiosurgery:	0
LDR brachytherapy:	0
HDR brachytherapy:	0
Injectable radionuclide therapy:	0
Other (please specify)	The diagnostic imaging service is responsible for the treatment of feline hyperthyroid patients with radioactive iodine.
Stronium plesiotherapy:	5
29. Describe procedures for resident record recording of radiation treatment details of all patients. Is a record and verify system used? If so, please specify.	We do not currently have a record and verify system. On a daily basis as a radiation patient is being treated a fold out treatment card is filled out indicating that each radiation field was treated. The treatment number, the number of port films is done, diode measurement (done on first day of treatment as part of quality assurance), etc. that is done is also written down in the individual medical record on a daily treatment sheet. We have a complete separate medical record for each patient in the radiation therapy control room.
30. What procedures are in place to facilitate collection of follow up information of patients treated? What is a standard recheck schedule for patients? In the absence of routine patient rechecks at the facility, is there a system in place to obtain follow-up?	We have an electronic record that all radiation patients are entered into. The recommended radiation recheck schedule is 2 weeks, 4 weeks, 2 months, 3 months and then every three months thereafter for the first year. For those patients that do not return we have a system for calling or emailing clients for follow up, or will call the referring veterinarian for follow up information.

31. By what mechanisms and how often will trainees be evaluated? Please comment on radiation therapy specific evaluation as well as general clinical evaluation.

The Cornell University Hospital for Animals requires that an evaluation be done at 90 days, and then every 6 months throughout the residency training program.

Please upload form used in evaluations.

Radiation Oncology Resident Evaluation Cornell.pdf

32. 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 at all possible, please provide an address, and any information you have on the status if each individual with respect to the board certification process.

N/A

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

Submission IP

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Submission ID

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