

Submission Date 2019-01-31 15:59:26

1. Date of Application 01-31-2019

Date of Initial Program Approval 10-31-2016

Date of Last Re-Approval

Your Name Jayme Looper

Your Email Address jlooper@lsu.edu

Your Address Street Address: LSU School of Veterinary Medicine
Street Address Line 2: Skip Bertman Drive
City: Baton Rouge
State / Province: LA
Postal / Zip Code: 70803

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

First Name	Last Name	Title/Credentials	Email	Phone #	Number of weeks per year faculty member is available to resident on a daily basis	Fax #
Jayme	Looper	DVM, DACVR	jlooper@lsu.edu	225-578-9600	48	225-578-0616

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?

I am available all days for consultation with the resident either in person, or remotely via text, phone, and skype when off clinics but in the building. As clinical faculty, I am able to continue coordinating setups and consultations with the resident and nurses when off clinics. I also continue journal clubs and topic rounds during this time. We have a consulting locum radiation oncologist (adjunct clinical assistant professor), William Ratterree, who is available for consultation and approves setups while I am on vacation/unavailable. Vacation time is generally coordinated so that resident is also off clinics (either on vacation, study time, or another rotation) concurrently.

Do you have additional ACVR-RO in support of the program?

yes

Additional Radiation Oncologists in support of the program (Diplomate of ACVR recognized Veterinary Specialty of Radiation Oncology):

First Name	Last Name	Title/Credentials	Number of weeks per year each individual boarded ACVR-RO Diplomate is available to resident on a daily basis	Faculty Member on site (yes or no)?
William	Ratterree	DVM, DACVIM and DACVR	48	No

If applicable, upload CVs of the Program Director and any supporting Radiation Oncologists:

[Ratterree CV.pdf](#)
[Looper CV 2019.pdf](#)

3. Do you have a radiation oncology resident in training at this time?

Yes

Residents

First Name	Last Name	Dates of Training
Lauren	Fout	7/15/2017-7/15/2019

4. Application is made for (check one):

Standard Program

5. Primary Site:

Louisiana State University School of Veterinary Medicine

Hospital/University:

LSU School of Veterinary Medicine

Department: Veterinary Clinical Sciences

Address: Street Address: Skip Bertman Drive
City: Baton Rouge
State / Province: LA
Postal / Zip Code: 70803

6. Cooperating Institution (if applicable):

Department:

Hospital/University:

Address:

7. What is the total length of the training program? 24

If greater than 2 years, will this period include 24 months of continuous training in radiation oncology?

Number of months dedicated solely to radiation oncology training (excluding time on Medical Oncology service, Radiology/Imaging, etc.) 18

8. Advanced Degree:

	Yes	No	Optional
Masters	-		-
PhD	-		-

Upload calendar of resident's activities (24 or 36 month) including required rotations and vacation:

[Radiation Oncology Residency Schedule 2019-21 \(2\).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)?
Lorrie	Gaschen	DVM, PhD, Dr. Med Vet, DACVR	24	Yes
Abbigail	Granger	DVM, DACVR	24	Yes
Nathalie	Rademacher	Dr Med Vet, DACVR, DECVDI	24	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

If off-site, please explain relationship:

Upload CVs of diagnostic radiologists listed:

[Biosketch Lorrie Gaschen 2019.docx](#)
[2019 ACVR Short CV Rademacher.doc](#)
[ACVR Short CV - Granger.docx](#)

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)?
Bonnie	Boudreaux	DVM, MS, DACVIM	35	Yes
Sita	Withers	DVM, PhD, DACVIM	20	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:

Upload CVs of medical oncologists listed:

[Biosketch BB 2019.docx](#)
[Withers CV 1-7-19.doc](#)

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

First Name	Last Name	Title/Credentials	Faculty Member on site (yes or no)?
Roger Avery	Bennett	DVM, DACVS	Yes
Jude	Bordelon	DVM, DACVS	Yes
Karanvir	Aulakh	DVM, DACVS	Yes
Charles	McCauley	DVM, DACVS	Yes

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

52

If off-site, please explain relationship:

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

First Name	Last Name	Title/Credentials	Drop down	Faculty Member on site (yes or no)?
Dawn	Evans	DVM, DACVP	Anatomic Pathology	Yes
Rudy	Bauer	DVM, DACVP	Anatomic Pathology	Yes
Shannon	Dehghanpir	DVM, DACVP	Clinical Pathology	Yes
Fabio	Del Piero	DVM, DACVP	Anatomic Pathology	Yes
Britton	Grasperge	DVM, DACVP	Clinical Pathology	Yes
Ingeborg	Langhor	DVM, DACVP	Anatomic Pathology	Yes
Daniel	Paulson	DVM, DACVP	Anatomic Pathology	Yes
Nobuko	Wakamatsu	DVM, DACVP	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:

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
Aulakh, Harmeet	ACVIM	Internal Medicine	
Carter, Renee	ACVO		
Cremer, Jeannette	ACVAA		
Da Cunha, Anderson	ACVAA		
Hampton, Chiara	ACVAA		
Fletcher, Jon	ACVIM	Internal Medicine	
Gaschen, Frederic	ACVIM	Internal Medicine	
Grooters, Amy	ACVIM	Internal Medicine	
Johnston, Andrea	ACVIM	Internal Medicine	
Lewin, Andrew	ACVO		
Magee, Aliya	ACVIM	Cardiology	
Mitchell, Mark	ACZM		
Nevarez, Javier	ACZM		
Pucheu- Haston, Cherie	ACVD		
Ryan, Kirk	ACVIM	Internal Medicine	
Scully, Clare	ACT		
Smith, Ryan	ACVECC		
Taboada, Joe	ACVIM	Internal Medicine	
Tully, Thomas	ACZM		
Woodward, Michelle	ACVD		
Wurlod, Virginie	ACVECC		

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 medical and radiation oncology faculty and house officers receive in an integrated service. The radiation oncology resident has primary case responsibility for new referrals, recheck patients, and ongoing radiation oncology patients in an integrated environment. This allows seamless multimodal treatment for the patient and client and exposed the medical and radiation house officers to a wide variety of oncologic cases. For the radiation oncology resident, new referrals consist of radiation oncology-specific referrals and primary oncologic workups for tumors commonly treated with radiation oncology (ie, mast cell tumors, soft tissue sarcomas, anal sac adenocarcinomas, localized lymphoma, etc. that have not been staged yet). Recheck appointments are generally, but not strictly, limited to past radiation patients based on daily caseload. Although there is occasional crossover, most radiation patients are exclusively managed by radiation oncology resident or faculty member.

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

Formal training will consist of 2 months of medical oncology exclusive rotations. The medical oncology and radiation oncology services are a combined service and share twice daily rounds and caseload daily, which provides year-round exposure to medical oncology concepts. The radiation oncology resident will have primary caseload responsibility when on both medical and radiation oncology rotations. While on medical oncology, the resident will manage medical oncology patients exclusively (both outpatient and inpatient) as needed. The resident also shares equal amounts (approximately 1/3) of emergency backup on nights and weekends, of which the majority of referrals are medical oncology in nature.

13. How is 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

Formal training will consist of 6 weeks of diagnostic imaging. Focus will include radiography, ultrasound, CT, MR, and nuclear medicine. Resident will be required to write imaging reports for all available modalities (radiography, CT, MRI, ultrasound, nuclear scintigraphy) when on diagnostic imaging rotations. Resident will be required to attend known case conferences weekly during the radiology rotation, and encouraged to attend known case conferences weekly when on other rotations, as available. Resident will routinely evaluate and discuss all imaging studies of radiation oncology and medical oncology patients that they manage while on medical and radiation oncology rotations.

reports while on diagnostic imaging rotation:

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

The resident will rotate on the anesthesia service for 1 clinical week and will be exposed to a wide variety of small animal cases, but mainly focus on imaging and surgery patients. Additionally, resident will work up each radiation oncology case that is managed by the anesthesia service (mostly diagnostic CT and MR) by discussing the anesthetic plan in advance. The resident will also consult with anesthesia faculty on outpatient sedation procedures as needed. Our radiation oncology nursing team consists of a cross-trained anesthetist that works full time in radiation therapy. While we perform our own anesthesia for most routine cases, we have ongoing anesthesia team support at all times.

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

Formal course offered by LSU Health Sciences: MDEP 7121 Radiation Biology in first year of residency. Weekly topic rounds in radiation biology will consist of weekly discussions of biology topics including Hall: Radiobiology for the Radiologist and Joiner/Van der Kogel: Basic Clinical Radiobiology, and relevant reviews and peer-reviewed manuscripts (both human and veterinary) in the first and second year of residency.

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

Resident will attend topic rounds with medical oncology residents weekly to cover cancer biology topics when on clinics (radiation oncology, medical oncology, pathology, or diagnostic imaging rotations as allowed). These rounds systematically cover the textbooks "The Basic Science of Oncology" (Tannock, Hill) and "The Biology of Cancer" (Weinberg) and are taught by Dr. Boudreaux and Dr. Withers.

17. How is resident trained in radiation oncology physics? Please include a description of the medical physics support available at your institution and any role institutional medical physics support may provide in training of the resident:

Formal course offered by LSU Health Sciences: MDEP 7537: Radiological physics in first year of residency and MDEP 7331: Radiation Therapy Physics in the 2nd year. Weekly topic rounds on radiation physics will occur in 2nd year of residency. Physicist schedules 4-8 hours of QA training (MapCheck, etc) in the final 6 months of the 2nd year.

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:

MDEP 7537: Radiation Interactions; Wayne Newhauser, PhD MDEP 7331: Radiation Therapy Physics; Rui Zhang, PhD MDEP 7121: Radiation Biology; Wayne Newhauser, PhD

Upload syllabi here:

[Course Syllabus MEDP 7331 Spring 2019 ver 03.pdf](#)
[MEDP 7537-Syllabus Fall 2018.pdf](#)
[MEDP-7121-Syllabus-Spring-2019-v02.pdf](#)

Upload instructor credentials here:

[MDEP Instructor Credentials 2019.docx](#)

19. Will the resident participate in clinical rounds on a daily basis while on clinical rotations?

yes

If no, please describe how rounds are attended and supervised:

20. Is a supervising Radiation Oncology Diplomate available for the majority of rounds?

yes

If no, please describe how rounds are attended and supervised:

21. Are formal conferences, such as clinicopathologic conferences, journal clubs, or seminars held on a weekly basis?

yes

Comments:

22. Please provide a description of the conferences, etc., that are

1) Radiation Oncology Journal Club: Weekly, Fridays 9:15-10:15 am-mandatory 2) Oncology Journal club: Weekly with medical and radiation oncology, typically Wednesdays 8:15-9:15 am- mandatory 3)

provided and the typical schedule. Please specify which conferences are mandatory vs. optional:

Internal Medicine Journal Club: Weekly Thursdays at 9:00 am. All ACVIM disciplines and ACVR (RO) participate and rotate presenting throughout the year.- mandatory 4) House Officer Seminars: Weekly Fridays 8:00 am. All house officers present a lecture (2-3 presenters per seminar) at least twice yearly. All house officers are required to attend.-mandatory 5) Radiology rounds: Daily formal rounds are given in morning and attendance is required while resident is on radiology rotation. mandatory while on rotation; optional otherwise 6) Pathology rounds: Daily rounds while on pathology rotation- mandatory 7) Chart rounds: Once weekly on Friday afternoon to review all current or follow up radiation oncology patient charts for the week including port films- mandatory 9) Clinical pathology rounds: Wednesdays at 1:00 pm weekly-mandatory

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 describe these conferences or educational settings:

Weekly house officer seminar occurs on Fridays at 8:00 am. Each house officer is required to present one short (12-15 minute, abstract-type format) and one long (20-25 minute lecture-type format) per year. Attendance is mandatory for all house officers and all seminars are RACE-approved for CE.

24. How many major veterinary medical or medical meetings is each resident able to or expected to attend during his/her training program?

One

Please list the meetings attended:

ACVR is mandatory. Additional conference on the off-year is recommended, either VCS, ASTRO, or ACVR is acceptable.

25. Does the training program require a research project?

Yes

Please indicate the number of research projects required:

One project required per residency.

26. Are one or more publications required as part of the training program?

No

Comments:

Ideally the project will result in a grant application or peer-reviewed manuscript submission, but is not required.

Do you have a megavoltage teletherapy machine available?

Yes

Is the megavoltage teletherapy machine on-site?

Yes

Please specify the manufacturer and model:

Varian 21EX with OBI

Do you have a multileaf collimator available?

Yes

Is the multileaf collimator on-site?

Yes

Please specify number of leaves and width of leaves:

120 leaf, 5 and 10-mm

Do you have an on-board portal or CT imaging available?

Yes

Is the on-board portal or CT imaging on-site?

Yes

Please specify type:

Varian OBI

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:	Varian Eclipse
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
Please specify manufacturer and model:	
Do you have intensity modulated radiation therapy available?	Yes
Is intensity modulated radiation therapy on-site?	Yes
Do you have stereotactic radiation therapy or radiosurgery available?	Yes
Is stereotactic radiation therapy or radiosurgery on-site?	Yes
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? Yes

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:

Megavoltage Gamma/X-ray teletherapy: 95

LDR brachytherapy: 0

HDR brachytherapy: 0

Injectable radionuclide therapy: 0

Radioiodine: 0

Other (please specify):

Stronium plesiotherapy: 20

Other (please specify):

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.

Resident will record all patient notes including intake, discharges, and orders. Resident will log all patient radiation information including tumor type, grade, location, radiation prescription, fractionation, dose % to GTV and PTV, anesthesia, and toxicity as per VRTOG toxicity guidelines for the medical record. Digital photography of tumor location, setup, portal images, DRRs, weekly physics QA, and dose administered will be stored in record and verify software (ARIA).

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?

Recheck examinations are recommended 2-4 weeks post treatment to evaluate tumor response and toxicity. Recheck examinations are encouraged every 1-3 months for examinations +/- restaging depending on diagnosis and prognosis. For recheck examinations not performed at LSU, follow up with family veterinarians or other referral institutions are performed quarterly to semiannually. Specifically, ongoing toxicity scoring logs will be kept with VRTOG scoring scheme and kept in medical record along with any pertinent follow up diagnostic testing.

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

Resident will be evaluated at 3 months for year 1, and then every 6 months until completion of program. The evaluation form is attached.

Please upload form used in evaluations.

[Resident Evaluation Form.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 of each individual with respect to the board certification process.

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

I was program director of a standard residency program at VCA Aurora Animal Hospital, 2009-2011. Catie McDonald, DVM, DACVIM (O), DACVR (RO) completed her residency in 2011 and was board certified in 2011.