

Part One

New applications for ACVIM Residency Training Programs must be received by the Residency Training Committee (RTC) 90 days prior to any residents beginning training. Before completing this form, please review the general and specific requirements for Oncology Residency Training Programs in the ACVIM Certification Manual (CM). The current version of the CM is available on the ACVIM website at [www.ACVIM.org](http://www.ACVIM.org).

Prior to making significant changes in a Residency Training Program, approval of the ACVIM and Oncology RTC must be obtained. The Candidate and/or Program Director must notify ACVIM, in writing before the changes are made to ensure that the proposed changes are approved. Significant changes could include, but are not limited to the following: changes in Program Director or any advisors, transferring from one program to another, alterations in program duration, locations of secondary site training, switching to a 'dual board' program, or enrolling in an institutional graduate program.

**Notice:** The data collected in this form is necessary both for the ACVIM to maintain its accreditation as a Registered Veterinary Specialty Organization and also is required for renewal of the residency training program. Some of the data collected is required of every specialty and some is specific to the specialty of Oncology.

**For multi-site residency programs:** To ensure uniformity of training and compliance with current CM requirements, training programs that include multiple sites must provide detailed information regarding supervision and facilities available at each specific site(s). Multi-site programs, if any, will be addressed by the Program Director in Part Two.

Program Director Name:

Must be an active Diplomate of ACVIM in the Specialty of Oncology

Program Director's Contact Information:

Work Phone:	<input type="text" value="(540) 231-4621"/>
E-mail:	<input type="text" value="klahn@vt.edu"/>
Mailing Address:	<input type="text" value="225 Duck Pond Dr, Phase II (0442)&lt;br/&gt;Blacksburg, VA, VA 24061"/>

1. Location of Sponsoring Institution (Primary Site of Residency Training Program):

Primary Site:

Length of Training Program:

<input type="text" value="Virginia-Maryland Regional College of Veterinary Medicine"/>	<input type="text" value="3 year"/>
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2. Resident Advisor(s): Must be ACVIM Diplomate(s) in Oncology. There is no restriction on the number of Resident Advisors; however, **each Resident Advisor may supervise only two residents concurrently.**

<input type="text" value="Nikolas Dervisis&lt;br/&gt;Shawna Klahn"/>
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3. Supervising Diplomates: **There must be a minimum of two (2) ACVIM Oncology Diplomates per institution.**

<input type="text" value="Nikolaos Dervisis - Oncology&lt;br/&gt;Shawna Klahn - Oncology"/>
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4. All onsite Diplomates of ACVIM responsible for supervision of clinical training who are specialists in areas other than Oncology.

Name and Specialty	Comments
<input type="text" value="Jonathan Abbott - Cardiology&lt;br/&gt;Sunshine Lahmers - Cardiology&lt;br/&gt;Michele Borgareli - Cardiology (ECVIM)&lt;br/&gt;Avril Arendse - Neurology&lt;br/&gt;Theresa Pancotto - Neurology&lt;br/&gt;John Rossmesl - Neurology &amp; SAIM&lt;br/&gt;David Panciera - SAIM&lt;br/&gt;Timothy Bolton - SAIM"/>	

David Grant - SAIM Stefanie DeMonaco - SAIM	
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5. Residents currently enrolled in the training program, along with the beginning date of the program, expected ending date of the program, and designated resident advisor.

Resident Name	Start date (mm/dd/yyyy)	End Date (mm/dd/yyyy)	Resident Advisor Name*
<a href="#">Brittanie Partridge</a>	<a href="#">7/17/17</a>	<a href="#">7/20/20</a>	<a href="#">Shawn Klahn</a>
<a href="#">Jennifer Carroll</a>	<a href="#">7/16/18</a>	<a href="#">7/19/21</a>	<a href="#">Nikolaos Dervisis</a>



RESIDENCY TRAINING PROGRAM REGISTRATION  
2019-2020  
ONCOLOGY

Part Two

Part Two of the Oncology Residency Training registration and renewal process addresses general features of the program that apply to all current residents. These questions will be used to provide the Oncology Residency Training Committee with information needed to judge the structure, quality, scope, and consistency of training provided.

Current Date:

Program Director Name:

(Must be a Diplomate of ACVIM in the Specialty of Oncology)

Name of Sponsoring Institution (Residency Training Program):

1. For residency programs with off-site rotations (required rotations not available at the primary institution/site): To ensure uniformity of training and compliance with current Certification Manual (CM) requirements, training programs that include off-site rotations must provide detailed information regarding supervision and facilities available at each specific site(s).

Outside Rotation(s) (if applicable): Please attach signed Training Agreement Form from all institutions providing off-site training of oncology residents to this registration form. Each Training Agreement Form should specify the number of weeks scheduled at each site and the rotation requirement met. **Training Agreement Forms must be submitted annually WITH program renewal forms and WITH each new program request.**

In the box provided below, list the outside rotations for which you are attaching Training Agreement Forms. Please include in the space below the specific information regarding the number of weeks scheduled at each site and which rotation requirements shall be met at each site:

North Carolina State University College of Veterinary Medicine and University of Tennessee – Radiation Oncology requirement

Fulfilling CM 8.M.1 (2019-2020) Required Affiliated Rotations (Radiation Oncology): Direct supervision through a minimum of 8 weeks in 2-week blocks

Resident is typically scheduled to complete two 4-week blocks, the first in the 1st year, and the second during the 3rd year prior to Specialty Examination.

The Y1 resident will complete a 4-week block at NCSU 10Jun2019 - 05Jul2019.

The Y3 resident will complete a 4-week block at UT, dates to be determined.

Residents are involved in radiation treatment planning, patient care, with case responsibility as determined by the SD. Residents will attend all case and didactic rounds, journal clubs, and seminars relevant to Radiation Oncology during the rotation.

2. Type of Training Program:

Traditional 3 years	<input checked="" type="checkbox"/>
Non-traditional (Length in years)	
For non-traditional programs, please provide details. <b>Note that programs must be at least 3 years (156 weeks) in length.</b>	

### 3. Advanced Degree:

	Yes	No	Optional
Masters:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PhD:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Required for residency certificate: Yes  No

Comments:

### 4. ONCOLOGY DIPLOMATES (CM 8.G.4)

There must be a **minimum of two (2) ACVIM Oncology Diplomates** at the primary training site of the residency for an Oncology RTP to be approved or to maintain approval. Please list the ACVIM Oncology Diplomates and their site of activity.

Name of Oncology Diplomates	Location
Nikolaos Dervisis, DVM, PhD, DACVIM (O) Shawna Klahn DVM, DACVIM (O)	VMCVM VMCVM

### 5. SUPPORTING DISCIPLINES REQUIRED

There must be an **ACVIM SAIM Diplomate** with  $\geq 50\%$  FTE at the primary training site of the residency for an Oncology RTP to be approved or to maintain approval (CM 8.U.3). At least **four weeks** (completed in at least two consecutive week blocks) of training under the direct supervision by an ACVIM Small Animal Internal Medicine (SAIM) Diplomate are required.

Please list the ACVIM SAIM Diplomate(s) who will fulfill this requirement for the RTP.

Name of SAIM Diplomate(s)	Location
Stefanie DeMonaco, DVM, MS, DACVIM David Grant, DVM, MS, DACVIM David Panciera, DVM, MS, DACVIM Timothy Bolton, DVM, DACVIM	All are at VMCVM  Direct supervision of resident during minimum of 4-week affiliated rotation occurring in a minimum of 2-week blocks  Resident receives and has primary case responsibility of patients presenting to the Internal Medicine service of the VTH  The first block occurs during the first year of residency, and the second block is in the second year prior to General Examination  Consulting internist

There must be an **ACVS Surgery Diplomate** with  $\geq 50\%$  FTE at the primary training site of the residency for an Oncology RTP to be approved or to maintain approval (CM 8.U.3).

Please list the ACVS Surgery Diplomate(s) who will fulfill this requirement for the RTP.

Name of ACVS Diplomate(s)	Location
Sabrina Barry, DVM, DACVS Otto Lanz, DVM, DACVS Dominique Sawyere, BVSc, MS, DACVS Noelle Muro, DVM, MS, DACVS Joanne Tuohy, DVM, PhD, DACVS	All are at VMCM

#### 6. CLINICAL TRAINING IN OTHER SPECIALTIES: REQUIRED AFFILIATED ROTATIONS (CM 8.M)

Because oncology is a multimodal discipline, the resident must also have clinical training under the direct supervision of Supervising Diplomates in other disciplines. This contact may occur at a secondary training site.

A minimum of 32 weeks must be spent actively receiving patients in affiliated rotations or meeting requirements through rounds. For each off-site rotation included in the 32 weeks of clinical training in other specialties, the resident should obtain written approval from their Resident Advisor, who will forward documentation of this approval to the RTCC.

#### 6a. RADIATION ONCOLOGY REQUIREMENTS (CM 8.M.1):

At least **eight weeks** of direct supervision is required with a veterinary radiation oncologist to develop an understanding of clinical management of patients receiving radiation therapy, radiation planning, dosimetry, and physics related to clinical radiation therapy.

Please list all DACVR-RO diplomates responsible for training in radiation oncology. Describe how Diplomates are involved in the supervision of residents and how direct contact in radiation oncology training will be fulfilled. Radiation oncology rotations must be completed in blocks of at least two consecutive weeks in length.

Name of Diplomate(s)	Site	Role in training residents
Michael Nolan, DVM, PhD Tracy Geiger, DVM, DACVIM (SAIM and Onc)	NCSU CVM NCSU CVM	Direct supervision through a minimum of 8 weeks in 2-week blocks
Hiroto Yoshikawa, DVM, PhD Isabella Pfeiffer, DMV, DECVIM-CA (onco), DACVR-RO	NCSU CVM UT CVM	Resident is typically scheduled to complete two 4-week blocks, the first in the 1st year, and the second during the Spring of the 3rd year prior to Specialty Examination.  Residents are involved in radiation treatment planning, patient care, with case responsibility as determined by the SD

#### 6b. PATHOLOGY REQUIREMENTS (8.M.1):

At least **two weeks** (may be met through weekly/biweekly rounds) of direct supervision with a **clinical pathologist** are required.

Please list all **Diplomates of the American College of Veterinary Pathology** in clinical pathology associated with residency training. Describe how Diplomates are involved in the supervision of residents and how direct contact requirements (must be in person, not videoconference) in clinical pathology will be met.

Name of Diplomate(s)	Site	Role in training residents
Sarah Barrett, DVM, PhD Katie M. Boes, DVM, MS	All at VMCM	Consulting pathologist Lead weekly rounds in clinical pathology

At least **two weeks** (may be met through weekly/biweekly rounds) of direct supervision with an **anatomic (surgical) pathologist** are required.

Please list all **Diplomates of the American College of Veterinary Pathology** in anatomic (surgical) pathology associated with residency training. Describe how Diplomates are involved in the supervision of residents and how direct contact requirements (must be in person, not videoconference) in anatomic pathology will be met.

Name of Diplomate(s)	Site	Role in training residents
Thomas E. Cecere, DVM, PhD Sheryl Coutermarsh-Ott, DVM, PhD Kevin Lahmers, DVM, PhD	All at VMCM	Consulting pathologist Lead weekly rounds in surgical pathology

Tanya LeRoith, DVM, PhD Geoffrey Saunders, DVM, MS Kurt Zimmerman, DVM, PhD		
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6c. DIAGNOSTIC IMAGING REQUIREMENTS (8.M.1):

At least **two consecutive weeks** of **diagnostic imaging** under direct supervision by a board-certified radiologist are required in addition to any interactions during case rounds.

Please list all Diplomates of the **American College of Veterinary Radiology (not including radiation oncology)** associated with residency training. Describe how Diplomates are involved in the supervision of residents and how direct contact requirements (must be in person, not videoconference) in radiology will be met.

Name of Diplomat(e)s	Site	Role in training residents
Gregory B. Daniel, DVM, MS Martha M. Larson, DVM, MS Kemba Clapp, DVM,	All at VMCVM	Direct supervision of resident during a minimum of one rotation occurring in a minimum of 2-week blocks  Resident is engaged in interpretation of radiographs and CT scans of small animals during clinical service. Resident is given the opportunity to perform ultrasound evaluation and interpretation +/- fine needle aspiration  Rotation is typically scheduled in the Fall of the first year of residency  Consulting radiologist

6d. OTHER REQUIRED ROTATIONS (8.M.2):

**Fourteen weeks** of other rotations with an ACVIM Diplomat in the Specialty of Oncology, or training under the supervision of a member of an American Board of Veterinary Specialties (ABVS) or European Board of Veterinary Specialization (EBVS) approved specialty (such as, but not limited to, the American College of Veterinary Radiology, the American College of Veterinary Radiology (Radiation Oncology), American or European College of Veterinary Neurology, the American College of Veterinary Pathology, ACVS, or ACVECC). Rotations must be completed in at least two consecutive week blocks (unless otherwise specified in the CM.)

Please list the other ACVIM diplomates not previously listed or other non-ACVIM diplomates that will be involved with resident training available for consultation in these areas. Describe how Diplomates are involved in the supervision of residents and their contribution to direct contact requirements in affiliated specialties.

Name of Diplomates	Specialty/College	Site	Role in training residents
Ian P. Herring, DVM, MS Joanne Tuohy, DVM Sabrina L. Barry, DVM Otto I. Lanz, DVM William Swecker, DVM, PhD Megan Shepherd, DVM, PhD Piedad Natalia Henao-Guerrero, DVM, MS Noah Pavlisko, DVM Jeffrey Wilson, DVM Heng L. Tham, DVM Lara Bartl, DVM Mark Freeman, DVM Micheal T Nappier, DVM Virginia Corrigan Maureen Perry, RPh, FSVHP Sherrie Clark, DVM, PhD Julie Cecere, DVM, MS	Ophthalmology Surgery Surgery Surgery Nutrition Nutrition Anesthesia  Anesthesia Anesthesia Dermatology Vet Practice Vet Practice Vet Practice Vet Practice Vet Practice Vet Pharmacy Theriogenology Theriogenology	All at VMCVM	Available for consultation regarding clinical oncology cases

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#### 7. FORMAL STRUCTURED RESEARCH (CM 8.O):

The resident is expected to actively participate in a laboratory or clinical investigative research project during the residency. A minimum of **eight weeks** (320 hours) of an oncology residency should be dedicated to this aspect of training. Research time should be scheduled as either weekly time (hours per week) or in blocks of time sufficient to complete the research, perform data analysis, and prepare a manuscript for publication by the third year of their residency (see Recommended Milestones in CM 8.G 6-8). This experience must be documented, with dates, and signed by the Supervising Diplomate.

Please explain how your residency program complies with the research guidelines outlined above.

There are progressive off-clinic blocks dedicated to research and scholarly activity. Clinical blocks are 3-week blocks at VMCVM. Below is the MINIMUM amount of dedicated research time during the 3-year residency.

YEAR 1: One block – 3 weeks. Year 1 is dedicated to design, planning, obtaining funding, execution, and data collection. Resident projects are for completion of the Master's thesis and as such, are prospective clinical research or laboratory research.

YEAR 2: Two blocks – 6 weeks. Year 2 is dedicated to data analysis, dissemination of findings as presentation(s) at internal +/- external formal conferences, and initiation of manuscript preparation. Submission of an abstract to VCS, ACVIM, AACR, or other identified annual conference is expected during year 2.

YEAR 3: Two blocks – 6 weeks. Year 3 is dedicated to completion of the project(s), presentation at internal +/- external conferences, manuscript and thesis preparation, manuscript submission and thesis defense.

For Board-certification in oncology, the resident must have a minimum of one major first author publication in the field of oncology published or accepted for publication in a refereed scientific or peer-reviewed journal. A literature review or case report is not acceptable. Please describe how this program supports this requirement for publication. (See CM 8.F.5)

To receive a certificate of completion of residency at VMCVM, successful completion of the Masters in Biomedical and Veterinary Sciences is mandatory. The Master's project is a clinical prospective or laboratory-based scholarly pursuit. The Master's thesis is adapted into manuscript format and submitted to a refereed scientific or peer-reviewed journal.

For the resident(s) in the combined PhD/residency program, research efforts towards the PhD project generates scholarly information for dissemination in an approved journal.

#### 8. JOURNAL CLUB (CM 8.P):

An organized and routinely scheduled journal club of at least 80 hours over the course of the RTP must be an integral part of all oncology resident training. Journal Club must be attended and supervised by a Supervising Diplomate. The RTP application requires a schedule of proposed Journal Club for Oncology RTCC approval.

Please explain how your residency program complies with the journal club guidelines outlined above, and include a schedule for this requirement, including number of proposed meetings and duration of each meeting.

Oncology-specific journal club consists of weekly 1-hour meetings throughout all three years, with the exception of vacation or affiliated rotation. Articles are selected by the resident, and approved by one SD. Presentation of the article by the resident follows a standard format. Presentation is followed by SD, other attending house officer, and professional student participation in discussion/critique of the article including, but not limited to, statistics, laboratory techniques or study design/methodology, limitations of the study, e.g. All meetings are attended by at least one, and typically both, SDs in Medical Oncology.

General, ACVIM journal club consists of weekly 35-minute meetings until successful completion of the General Examination by the oncology resident. ACVIM candidates in SAIM, Cardiology, Neurology, and Oncology, as well as ACVIM Diplomates of SAIM rotate selection and presentation of 1-2 journal articles, followed by discussion. All General Medicine journal clubs are attended by typically at least 3 SD across ACVIM disciplines.

#### 9. SEMINAR OR LECTURE SERIES AND FORMAL CONFERENCES (CM 8.Q, 8.R):

Residents must attend formal teaching conferences in oncology and related disciplines throughout the residency. Unless these are formal lectures or classes, an Oncology Supervising Diplomate supervises the conferences, which should occur an average of **four**

**times per month.** Examples of these are clinical pathology conferences, resident seminars, grand rounds sessions, and tumor biology classes. Conferences given within a veterinary practice or hospital or at a medical school or medical teaching hospital are acceptable. Please include the format and schedule of these conferences and presentations, which directly pertain to training in Oncology and give specific details given on a daily, weekly, or monthly basis.

1. Department intern/resident seminar. Monthly, Fall and Spring semesters, 3 years. Attendance is mandatory for all DSACS faculty and house officers. Presentations prepared and delivered by rotating interns and Small Animal residents, each presentation 15 minutes in length. Oncology resident presents twice in Year 1, and once in Year 2. Resident topics are typically related to Graduate Project progress. Evaluations are performed by faculty members in attendance, results are collated and provided as feedback during semi-annual resident progress reviews.
2. Biomedical and Veterinary Sciences (BMVS) Graduate Program Annual Research Symposium. Submission and presentation of abstract of graduate project (PhD or Masters) for poster presentation is required for Year 2. Submission of abstract for competition for selection as oral presentation is required in Year 3.
3. Current Topics in Biomedical Research Seminar Series. Weekly, 1-hour, Fall and Spring semesters, 3 years. Attendance is mandatory for all graduate students. Semester-themed topics are delivered by faculty from within VMCVM or other Colleges at Virginia Tech. Examples of prior and upcoming topics include Humanized mouse models to study the immunobiology of diseases, Graduate Education for the 21<sup>st</sup> Century (Karen DePauw guest lecture), Targeted cytotoxic therapy for Gliomas (Dr Debinski, Wake Forest), Pharmacokinetic studies: design and methods (VMCVM), Genomics/DNA sequencing (VMCVM), LCMS-Metabolomics (Biochemistry), Microfluidics (Electrical and Computer Engineering), Single Cell Analysis (Crop and Soil Environmental Science), and 3D cell culture (Biochemical Engineering).
4. Specialty Board-preparation courses. Weekly, 1-hour, calendar-year, 3 years. Medical Oncology SD-facilitated courses on rotating basis covering cancer biology, chemotherapy, comparative oncology, immunology, clinical trial design and execution. May be taken for credit (1cr) as BMVS-6094.
5. ACVIM Resident rounds. Bi-monthly, 1-hour, Fall and Spring semesters, 3 years. Attendance is mandatory for all Small Animal ACVIM candidates. Topic is prepared and delivered by DSACS faculty, with expectation of preparatory reading or completion of an assignment. Topics include pathophysiology of heart failure, testing for infectious diseases, pathophysiology of DKA, inflammatory CNS diseases, chemotherapy protocols, e.g.
6. BMVS-5944, BMVS Seminar. Required graduate course for all BMVS students. 1 credit, presentation of research topic or primary journal article by graduate student (50 minutes). Oncology resident is required to present once during course.

The resident must give a formal presentation at such a conference at least once per year. Documentation of these presentations must be included in the oncology credentials packet of the resident.

Please list all opportunities offered to and/or required of the resident for attendance and/or giving formal presentations at local, regional, state, or national meetings. Indicate whether the resident will attend or present at these meetings (CM 8.Q).

1. Department intern/resident seminar. Two 15-minute presentations in Year 1; One 15-minute presentation in Year 2.
2. BMVS Annual Research Symposium. Poster presentation of graduate project required in Year 2; Competition for oral presentation in Year 3.
3. Veterinary Cancer Society conferences. Attendance, minimum of 2 of 3 years at Annual Conference. Presentation of project required at least 1 of 3 years.
4. American Association for Cancer Research annual conference. Attendance +/- submission of abstract is strongly encouraged.
5. BMVS-5944, BMVS Seminar. Required graduate course for all BMVS students. 1 credit, presentation of research topic or primary journal article by graduate student (50 minutes). Oncology resident is required to present once during course.

Residents must attend at least one state, regional, national, or international veterinary or human medical continuing education conference during their residency. Please list opportunities offered to and/or required of the resident for attendance



1. Veterinary Cancer Society annual conference. Attendance required minimum of 2 years.
2. AACR. Attendance is encouraged at least once during 3-year residency.
3. ACVIM – Oncology Forum. Attendance is strongly encouraged following General and/or Specialty Examination (Years 2 and 3).
4. Advanced Continuing Education (ACE) – Oncology. Attendance once during 3-year residency strongly encouraged if/when offered through ACVIM. Both residents will be attending this course in Spring 2019, financially-sponsored by the SDs.

10. FORMAL EXAMINATION REVIEW SESSIONS (CM 8.S):

An oncology RTP must provide at least 40 hours per year of intensive formal review sessions for residents/candidates on topics covered in the general and specialty examinations. Attending daily clinical rounds does not meet this requirement. The requirement could be met in part by attending an ACVIM advanced continuing education (ACE) course, by attending an ACVIM Forum, or formal resident review sessions at a Veterinary Cancer Society Annual Meeting.

Please provide an anticipated schedule of these formal reviews below. Annual documentation will be required.

1. Resident Review sessions at VCS annual conference – annually – required.
2. ACVIM ACE-Oncology course – once during 3-year residency if/when offered by ACVIM.
3. Board-preparation courses at VMCV – weekly, 1-hour, Fall and Spring semesters, 3 years. Rotating topics covering cancer biology, chemotherapy, comparative systemic oncology, clinical trial design and execution, immunology.
4. ACVIM resident rounds – Bi-monthly, 1-hour, Fall and Spring semesters, 3 years. Rotating topics presented by ACVIM Diplomates at VMCV covering topics relevant for General Examination preparation.
5. STAT-5674 – Graduate-level course covering statistical principles and methods required for effective clinical trial and clinical experiment design and analysis. 3cr, offered every-other Fall semester. Oncology residents are required to take this course.

While it may have no bearing on your program, the supervising Diplomate(s) and the resident are required to review the Certification Manual yearly. You may obtain a copy of the Certification Manual from the ACVIM website at [www.ACIVM.org](http://www.ACIVM.org).

11. Have all supervising Diplomate(s) read the objectives for an oncology residency as outlined in the Certification Manual, Specialty of Oncology?

Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/>

If no, please explain:

12. The RA and PD should periodically evaluate the resident (required minimum of once every 6 months) and discuss the results of those evaluations with the resident. Either the RA or PD (or both) must be able to provide the Residency Training Committee with written summaries of those evaluations, if requested. The RTP may use the standardized evaluation form (provided by ACVIM) or a similar internal evaluation document. If an internal evaluation document is used, it must include discussion of the 8 core competencies outlined in the standardized form including patient care, medical knowledge, practice-based learning, interpersonal and communication skills, professionalism, didactic learning, clinical research and publication productivity, and teaching ability.

Does your program comply with these standards of resident evaluation?

Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/>

If no, please explain:

13. Please indicate the availability of the following facilities or equipment. Indicate if these are available at the primary training site, or at a different location. (In the Location column, indicate on-site for primary location or the name of the facility where the equipment is located if off-site.) For facilities that are not on-site or not available, please describe the situation, availability, or how the resident will gain experience with equipment not available in the space at the end of this section.

	Available? (Y or N)	Location of equipment? (On-site or list site name)
a) Radiography	Y	On-site
b) 24 hour emergency and critical care facility	Y	On-site
b) Ultrasonographic equipment	Y	On-site
c) Color flow/Doppler equipment	Y	On-site
d) Endoscopy equipment	Y	On-site
GI equipment	Y	On-site
Bronchoscopy	Y	On-site
Cystoscopy	Y	On-site
Rhinoscopy	Y	On-site
Laparoscopy	Y	On-site
e) Clinical Pathology capabilities: (includes CBC, serum chemistries, blood gases, urinalysis, Cytology, parasitology, microbiology, and endocrinology)	Y	On-site
f) Appropriate safety equipment for handling chemotherapy (briefly summarize what is available in the column Location of Equipment).	Y	On-site. Engineering controls include Negative-pressure anteroom and prep-room, Class C1 BSC, CSTD (PhaSeal); Administrative controls include training program, dedicated prep/admin areas, signage, use of 'buddy-system'; PPE controls include 2-pair of chemotherapy approved gloves, full face shield, disposable (fit-tested) N99 respirator, long-sleeved disposable impermeable back-closure gown. Appropriate decontamination and cleaning procedures and waste removal
g) Nuclear Medicine	Y	On-site
h) Computed Tomography	Y	On-site
i) Magnetic Resonance Imaging	Y	On-site
j) Radiation Therapy Facility	Y	NCSU CVM UT CVM
k) Intensive Care Facility – 24 hours	Y	On-site
l) Total parenteral nutrition capability	Y	On-site
m) Computerized Medical Records w/Searching Capabilities	Y	On-site

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.

Residents can access radiation facilities for case management or study through phone/email consultation with several Radiation Oncologists with whom we have working relationships for referrals (NCSU, UT, and The Oncology Service). Additionally, residents will experience case management, research, and study, via direct contact with the radiation oncologists at NCSU and UT CVMs. Radiation Oncology rotations will be scheduled in a minimum of 2-week blocks for at least 8 weeks (total) during the 3-year program

14. The resident should have access to a human or veterinary medical library with on-line searching capacity and at a minimum have access to all textbooks (current editions) and full text access to all journals on the current examination committee reading list **Note that**

**on-line access to texts must be full-text not abstracts only).** This library should be available on-site or within a reasonable commuting distance (defined as within a 15 mile radius of the primary training site).

Please indicate how your resident can obtain access to the following textbooks/journals.

Text or Journal	Hard Copy or Subscription Available on site, or Medical/Veterinary Library <i>(insert name)</i>	Available Electronically (CD-ROM or Online Subscription)	Available Through pub-med only (free or will purchase articles)	Not Available
DeVita: <u>Cancer: Principles and Practice of Oncology</u> , 10 <sup>th</sup> ed. (2015)	<input checked="" type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Withrow: <u>Veterinary Clinical Oncology</u> , 5 <sup>th</sup> Ed. (2013)	<input checked="" type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chabner: <u>Cancer Chemotherapy</u> , 5 <sup>th</sup> or 6 <sup>th</sup> Ed. (2011, 2019)	<input checked="" type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tannock&Hill: <u>Basic Science of Oncology</u> , 5 <sup>th</sup> Ed. (2013)	<input checked="" type="checkbox"/> or Library:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Abbas: <u>Cellular and Molecular Immunology</u> , 9 <sup>th</sup> Ed. (2017)	<input checked="" type="checkbox"/> or Library:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Meuten: <u>Tumors in Domestic Animals</u> , 5 <sup>th</sup> Ed. (2016)	<input checked="" type="checkbox"/> or Library:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Weinberg: <u>The Biology of Cancer</u> , 2 <sup>nd</sup> Ed. (2013)	<input checked="" type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Feldman & Nelson: <u>Canine and Feline Endocrinology and Reproduction</u> , 4 <sup>th</sup> Ed. (2015)	<input checked="" type="checkbox"/> or Library:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cowell, Taylor & Meinkoth: <u>Diagnostic Cytology and Hematology of the Dog and Cat</u> , 4 <sup>th</sup> Ed. (2014)	<input checked="" type="checkbox"/> or Library:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hall: <u>Radiobiology for the Radiologist</u> , 7 <sup>th</sup> Ed. (2012)	<input checked="" type="checkbox"/> or Library:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ogilvie & Moore: <u>Feline Oncology</u> (2001)	<input checked="" type="checkbox"/> or Library:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Henry & Higginbotham: <u>Cancer Management in Small Animal Practice</u> (2009)	<input checked="" type="checkbox"/> or Library:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Raskin and Meyer: <u>Canine and Feline Cytology – a color atlas and interpretation guide</u> , 3 <sup>rd</sup> edition (2015)	<input checked="" type="checkbox"/> or Library:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Latimer: Duncan & Prasse's <u>Veterinary Laboratory Medicine: Clinical Pathology</u> , 5 <sup>th</sup> Ed. (2011)	<input checked="" type="checkbox"/> or Library:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Feldman, Zinkl and Jain: <u>Schalm's Veterinary Hematology</u> , 6 <sup>th</sup> Ed. (2010)	<input checked="" type="checkbox"/> or Library:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Norman and Streiner: <u>Biostatistics- the Bare Essentials</u> , 4 <sup>th</sup> Ed. (2014)	<input checked="" type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The following Journals are considered required for Candidates; They are available to ACVIM Diplomates through the Texas A&M University Library: <a href="http://guides.library.tamu.edu/acvim">http://guides.library.tamu.edu/acvim</a>				
<i>Journal of Veterinary Internal Medicine</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Journal of the American Veterinary Medical Association</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>American Journal of Veterinary Research</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Journal of the American Animal Hospital Association</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Veterinary Clinical Pathology</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<i>Veterinary and Comparative Oncology</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Veterinary Pathology</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Veterinary Surgery</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Veterinary Radiology and Ultrasound</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Journal of Small Animal Practice</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Research in Veterinary Science</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Veterinary Immunology and Immunopathology</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Cancer</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>New England Journal of Medicine</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Clinical Cancer Research</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Nature Reviews: Cancer</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Cancer Research</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Cancer Chemotherapy &amp; Pharmacology</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Journal of Feline Medicine and Surgery</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Journal of Comparative Pathology</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>BMC Veterinary Research</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>The Veterinary Journal</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Nature</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Cell</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Science</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>PLoS Journals</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>BMC (Biomed Central) Journals: Genomics, Cancer, Genetics, Molecular Cancer</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Cancer Immunology/Immunotherapy</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Clinical and Experimental Metastasis</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Oncogene</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Mammalian Genome</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Cancer Gene Therapy</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

17. Is there any additional pertinent information that the Residency Training Committee should consider in its evaluation of this training program?

Yes      No

<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Comments:
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**Please note, any Program Director or Candidate that significantly changes or alters this Residency Training Program before completion must notify ACVIM, in writing, before the changes are made to ensure that the proposed changes are approved.**

Significant changes could include, but are not limited to:

- transferring from one program to another
- alterations in program duration
- switching to a 'dual board' program
- enrolling in an institutional graduate program
- change of Program Director or Resident Advisor

**As Program Director, I verify that the above information is an accurate reflection of this Residency Training Program.**

Per the Certification Manual, each year, the Program Director must certify to the RTC/ RTCC and ACVIM, in writing, that they have read the ACVIM Certification Manual and understands their role in residency training.

**Checking this box is an indication I have read the ACVIM Certification Manual and understand my role in Residency Training Program.**