



**RESIDENCY TRAINING PROGRAM REGISTRATION  
2019-2020  
ONCOLOGY**

**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.ACIVM.org](http://www.ACIVM.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:	(607) 253-3516
E-mail:	krh73@cornell.edu
Mailing Address:	Dept of Clinical Sciences, College of Vet Med VMC Box 31 Ithaca, NY 14853-6401

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

Primary Site:	Length of Training Program:
Cornell University	3 year

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.**

Cheryl Balkman Kelly Hume Margaret McEntee
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3. Supervising Diplomates: **There must be a minimum of two (2) ACVIM Oncology Diplomates per institution.**

Cheryl Balkman - Oncology Tracy Gieger - Oncology Kelly Hume - Oncology Margaret McEntee - 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
Bruce Korneich - Cardiology Nancy Moise - Cardiology Romain Pariaut - Cardiology	

Roberto Santilli - ECVN Cardiology Emma Davies - ECVN Neurology Curtis Dewey - Neurology Jonathan Wood - Neurology Sharon Center - SAIM John Loftus - SAIM Meredith Miller - SAIM Joh Randolph - SAIM Kenneth Simpson - 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="#">Joshua Henry</a>	<a href="#">7/18/16</a>	<a href="#">7/21/19</a>	<a href="#">Cheryl Balkman</a>
<a href="#">Yike Bing</a>	<a href="#">7/17/17</a>	<a href="#">7/26/20</a>	<a href="#">Kelly Hume</a>
<a href="#">Lucy Teddy</a>	<a href="#">7/16/18</a>	<a href="#">7/25/21</a>	<a href="#">Kelly Hume</a>



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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: February 13, 2019

Program Director Name: Kelly R. Hume, DVM, DACVIM (Oncology)

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

Name of Sponsoring Institution (Residency Training Program): Cornell University College of Veterinary Medicine, Cornell University Hospital for Animals

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:

N/A

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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PhD:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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
Cheryl Balkman, DVM, DACVIM (SAIM & Oncology) Kelly Hume, DVM, DACVIM (Oncology) Margaret McEntee, DVM, DACVIM (Oncology), DACVR (Radiation Oncology)	On-site (Cornell, Ithaca, NY 14853)
<p>Note: Approximately 2 weeks/year, Dr. Tracy Gieger, DVM, DACVIM (SAIM &amp; Oncology), DACVR, a clinical associate professor at North Carolina State University, visits Cornell for a locum as an addition to the Cornell Oncology faculty to provide additional coverage for radiation and/or medical oncology (dates to be confirmed at this time, but projected dates for 2019-2020 will be two weeks in August 2019). Residents scheduled for medical oncology rotations during these dates are directly supervised by Dr. Gieger.</p>	

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
Sharon Center, DVM, DACVIM (SAIM) John Loftus, DVM, PhD, DACVIM (SAIM) Meredith Miller, DVM, DACVIM (SAIM) John Randolph, DVM, DACVIM (SAIM) Kenneth Simpson, BVMS, PhD, DACVIM (SAIM), DECVIM	On-site (Cornell, Ithaca, NY 14853)

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
James Flanders, DVM, DACVS Galina Hayes, BVSc, MRCVS, PhD, DACVS,	On-site (Cornell, Ithaca, NY 14853)

DACVECC Julia Sumner, BVSc, DACVS Kei Hayashi, DVM, PhD, DACVS Ursula Krotscheck, DVM, DACVS Rory Todhunter, BVSc, MS, PhD, DACVS	
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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 Diplomat(e)s	Site	Role in training residents
Margaret McEntee, DVM, DACVIM (Oncology), DACVR (RO)  Note: Approximately 2 weeks/year, Dr. Tracy Gieger, DVM, DACVIM (SAIM & Oncology), DACVR, a clinical associate professor at North Carolina State University, visits Cornell for a locum as an addition to the Cornell Oncology faculty to provide additional coverage for radiation and/or medical oncology (dates to be confirmed at this time, but projected dates for 2019-2020 will be two weeks in August 2019). Residents scheduled for radiation oncology rotations during these dates are directly supervised by Dr. Gieger.	On-site (Cornell, Ithaca, NY 14853)	The radiation oncologist is available at all times for consultation on radiation patients that are undergoing radiation therapy or are returning for recheck evaluations. The radiation oncologist is also readily available for consultation on new cases or initial consultations where radiation treatment may be appropriate. Discussions regarding radiation planning and dose to tissues occur for each patient. Weekly case rounds with the radiation oncologist are held to discuss patients undergoing therapy. Residents rotate through radiation oncology in two week blocks of time for a total of eight weeks. During those radiation oncology blocks, they are exposed to dosimetry, radiation planning and contouring, radiation physics, and are involve with treatment set ups. This dedicated rotation time is hands-on for the residents. Discussion of radiation side effects in general and those related to each patient undergoing therapy occur for each case, and the resident is responsible for managing radiation patient care.

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 Diplomat(e)s	Site	Role in training residents
Tracy Stokol, BVSc, PhD, DACVP (Clinical Pathology)  Erica Behling-Kelly, DVM, PhD, DACVP (Clinical Pathology)	On-site (Cornell, Ithaca, NY 14853)	Clinical pathology rounds are held once monthly during the academic year to review cytology of oncology patients as well as other cases of interest submitted from Cornell or outside hospitals. Residents have

<p>Ashleigh Newman, VMD, DACVP (Clinical Pathology)</p> <p>Julie Allen, BVMS, MS, MRCVS, DACVIM (SAIM), DACVP (Clinical Pathology)</p>		<p>a dedicated two week rotation in clinical pathology in addition to any clinical pathology rounds. Frequent in-person interactions between clinical pathologists and residents occur on a “drop-in” basis to discuss and review cytology for oncology cases and to discuss other related diagnostics, such as immunocytochemistry, flow cytometry, and/or PARR.</p>
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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
Elizabeth Buckles, DVM, PhD, DACVP	On-site (Cornell, Ithaca, NY 14853)	Surgical biopsy rounds are held daily in the hospital with anatomic pathology faculty and residents and oncology faculty and residents in order to facilitate discussion and review of individual oncology cases with submitted pathology samples. Gross pathology rounds are available once weekly for review of necropsy cases. Oncology residents have dedicated rotation time (2 weeks) through anatomic pathology that is in addition to the rounds available. Anatomic pathologists are available for discussion of cases anytime outside of scheduled rounds or rotations, and frequent interactions occur to discuss biopsy reports and use of immunohistochemical staining. Anatomic pathology faculty and residents also often attend other oncology-based rounds to provide additional insights and further discussion.
Gerald Duhamel, DVM, PhD, DACVP		
Kathleen Kelly, DVM, PhD, DACVP		
Sean McDonough, DVM, PhD, DACVP		
Andrew Miller, DVM, DACVP		
Jeanine Peters-Kennedy, DVM, DACVP, DACVD		
Teresa Southard, DVM, PhD, DACVP		

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 Diplomate(s)	Site	Role in training residents
<p>Erin Epperly, DVM, DACVR</p> <p>Philippa Johnson, DVSc, MSc, CertVDI, MRCVS, DECVDI</p> <p>Ian Porter, DVM, DACVR</p> <p>Peter Scrivani, DVM, DACVR</p> <p>Margaret Thompson, DVM, DACVR</p> <p>Amy Yeager, DVM, DACVR</p>	On-site (Cornell, Ithaca, NY 14853)	<p>All radiology faculty are available for review and consultation regarding imaging studies with oncology residents. A radiology faculty member is available at all times for consultation, even outside of regular hospital hours. Radiology faculty are on the clinic floor during regular business hours and review all imaging modalities. Real-time discussions about imaging results occurs for most oncology cases. Oncology residents spend a dedicated two-week rotation through diagnostic imaging with direct supervision</p>

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

Fourteen weeks of other rotations with an ACVIM Diplomate 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
Dermatology: William Miller, DACVD Jeanine Peters-Kennedy, DACVD, DACVP Mitzi D. Clark, DVM, Diplomate ACVD (start date, Apr 2019)	Dermatology	On-site (Cornell, Ithaca, NY 14853)	Dermatology: All faculty are available for consultation on patients seen by the oncology service.
Ophthalmology: Filipe Esphinheira, DACVO Nita Irby, DACVO Thomas Kern, DACVO Eric Ledbetter, DACVO	Ophthalmology		Ophthalmology faculty are available for consultation on oncology cases and are routinely consulted for radiation patients receiving therapy for nasal or head tumors as well as for other problems, such as uveitis.
Anesthesiology: Jordyn Boesch, DAVCAA Luis Campoy, DEVCAA Robin Gleed, DACVAA, DECVAA Manuel Martin - Flores, MV, DACVAA Joaquin Araos MV, PhD, Dipl. ACVAA (start date, May 2019)	Anesthesiology		Anesthesia faculty are readily available for consultation on all oncology cases. They are commonly consulted for pain management discussions as well as to help perform nerve blocks. They also assist and consult for patient needing special considerations, such as those with upper airway tumors.
Emergency/Critical Care: Daniel Fletcher, DACVECC Robert Goggs, DACVECC Julie Menard, DACVECC Gretchen Schoeffler, DACVECC	Emergency/ Critical Care		ECC faculty are always available for consultation regarding oncology patients. One ACVECC diplomate is always available on the emergency service as well as in the ICU. There is routine interaction for oncology patients presenting through ER/Triage as well as possible new cancer patients. They are also available for consultation and assistance in the management of complicated cases requiring ICU care and hospitalization.
Theriogenology:	Theriogenology		Theriogenology faculty are available for consultation regarding cases seen by the

<p>Soon Hon Cheong, DACT Mariana Diel de Amorim, DACT</p>			<p>oncology residents as needed. Examples of interactions include cases of reproductive tumors or in animals used for breeding that may be receiving cancer therapies.</p>
<p>Dentistry: Nadine Fiani, DAVDC Santiago Peralta, DAVDC</p>	Dentistry		<p>Dentistry faculty routinely consult with oncology residents and staff for patients with oral tumors needing biopsy or surgery. They are also available to help guide residents in conducting biopsies of oral tumors. They help with discussions of surgical plans with owners as well.</p>
<p>Sports Medicine / Rehabilitation: Christopher Frye, DVM, DACVSMR</p>	Sports Medicine/ Rehabilitation		<p>Sports Medicine/Rehabilitation faculty are available to consult with oncology residents regarding patients that could use rehabilitation to improve mobility or pain management. Resources such as underwater treadmill, personalized exercise programs, and acupuncture are provided by this service.</p>
<p>Neurology: Emma Davies, DECVN Curtis Dewey, DACVIM (Neurology) Jonathan H. Wood, VMD, DACVIM (Neurology)</p>	Neurology		<p>Neurology faculty are available to consult with oncology residents regarding any neurological issues or disease processes in oncology patients. They are also available to discuss surgical procedures that may be available for certain tumors, such as brain or spinal tumors. Oncology residents can also rotate through the neurology service.</p>
<p>Cardiology: Bruce Kornreich, DACVIM (Cardiology)</p>	Cardiology		<p>Cardiology faculty are available for consultation for oncology patients. This may include, but is not limited to, evaluation of cardiac function for continued doxorubicin chemotherapy or to perform echocardiograms of patients with cardiac tumors. Oncology residents can also rotate through the cardiology service.</p>
<p>Nancy Moise, DACVIM (Cardiology)</p>			
<p>Romain Pariaut, DACVIM (Cardiology)</p>			
<p>Roberto Santilli, EVCIN (Cardiology)</p>			

#### 7. FORMAL STRUCTURED RESEARCH (CM 8.0):

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.



Each resident is paired with an oncology faculty member to discuss their research interests and assist them with identifying a project early in the residents' program. The broad array of clinical specialists and basic science researchers within the College of Veterinary Medicine at Cornell allows residents the opportunity to identify projects and mentors that fit their specific interests. This allows residents flexibility in choosing research that may be more basic benchtop research or more clinically-oriented research. Additionally, internal funding opportunities for residents are available to help support their research endeavors. The College provides a bi-annual, competitive application process for resident grants and our internal cancer biology training program also provides funding opportunities for resident projects. Residents are also required to present updates to the entire oncology group and any other interested or involved individuals at least yearly, although more typically this occurs every six months. This is required as a means to assess progress and provide assistance with project completion. Resident are given a minimum of eight weeks of dedicated time to their research projects in a minimum of two-week blocks of time. However, a larger block of time can be provided, depending upon the needs of the resident and the project. The supervising diplomate (and if applicable and additional research mentor) meet with residents during the dedicated research time to supervise, advices, and ensure the adequate progress of the project is occurring. This time is documented by log or journal.

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)

The residency supports the requirement for publication through the emphasis and support for research training (see the previous section). The program supports basic, translational, and clinical research projects for residents. The wide expertise of the oncology faculty as well as the strength in cancer research in the basic science departments allows residents to pursue research that is of interest to them, under the direction and guidance of an oncology diplomate advisor and an additional research advisor, if applicable. In addition to the annual or bi-annual research updates the residents provide to the oncology team, they are also strongly encouraged to give more formal presentations of their research. These opportunities may be met by presenting at the annual VCS conference, the annual ACVIM Forum, or the Cornell Clinical Investigators Day that is held in conjunction with the annual Fall New York State Veterinary Conference. Other presentations at relevant cancer research conferences are acceptable as well. The milestones and checkpoints for the research, as outlined in the Oncology Certification Manual, are used to assess timely progress on the manuscript that the resident is required to produce.

#### 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.

An oncology-specific journal club is held once weekly on Monday morning from 8-9AM (one hour in duration) and occur at a minimum of 30 weeks each year. The residents and oncology faculty rotate presenting articles or topics relevant to veterinary oncology with specific journal article review. The articles and topics are related to clinical oncology management of veterinary species as well as topics of basic cancer biology. We also invite other cancer researchers or experts in particular topic areas (such as immunotherapies or cancer stem cells) to participate in our journal club and article reviews and discussions.

#### 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 includes 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.

The following daily rounds are held: 1) Daily case/patient-based rounds are held with the faculty, oncology

residents, students, and other house officers on the oncology service. These rounds discuss hospitalized patients and outpatients seen by the service on that particular day. These rounds consist of a brief, update rounds in the morning (approximately 30 minutes Mon-Thur) and detailed rounds with diagnostic result and treatment plan discussions in the afternoon (approximately 60 min Mon-Thur). 2) Topic rounds are held each morning with the students on the service and resident participate in these rounds as they are available (8:30-9:30 AM Tue-Thurs). The residents have the opportunity to lead these rounds on their own or in conjunction with an oncology faculty member on clinical service. 3) Surgical biopsy rounds are provided on a daily basis (11 AM for 15-30 minutes Mon-Fri) in the hospital for the residents, students, and faculty on the oncology service. These rounds are attended when the resident has a case that is being reported that day and allows the oncology residents and faculty to directly ask questions and further interact with the anatomic pathology faculty and residents.

The following rounds are held weekly: 1) An oncology-specific journal club is held every week (60 minutes in duration on Mondays for a minimum of 30 weeks/year). The residents and faculty rotate presenting articles or topics relevant to veterinary oncology and board-preparation. The articles and topics are related to clinical oncology case management in veterinary species as well as topics of basic cancer biology. We also invite other cancer researchers or experts in particular topic areas (such as immunotherapies or cancer stem cells) to participate in these rounds and discussions. 2) Oncology morbidity/mortality rounds are held at the end of every week to discuss all hospitalized and outpatients presented to the oncology service that week or to discuss any other complicated cases or outstanding test results (Fridays at 8 AM for 60 minutes). Radiation patients are also discussed during this time to review their treatment plans, follow up and continued care, and care of their side effects. These rounds are a comprehensive review of patient undergoing therapies or cancer management that week as well as a discussion of test results that are received that week and discussion of any literature pertinent to the cases presented. 3) Internal Medicine Board Prep rounds are held weekly on Friday mornings from 9-10 AM. These are lead by faculty in the ACVIM specialties to cover general internal medicine topics necessary for general examination board preparations. Residents are required to attend these rounds.

The following rounds and seminars are provided on a bi-monthly basis: Hospital-wide resident seminars occur twice monthly on Tuesday mornings (8-9AM). These rounds review topics pertinent for resident training. Topics include, but are not limited to the following: statistics boot camp, how to critically read papers, handling medical errors, and designing a research project. Bi-monthly seminars supported by the Department of Clinical Sciences and Biomedical Sciences are also attended by residents. These formal seminars include invited speakers in the areas of medicine, pathology, diagnostic imaging, and basic science research. These seminars are one hour in duration and are held on Friday afternoons from 3-4PM or Tuesday afternoons from 4-5 PM. Additional seminars include seminars supported by the Baker Institute for Animal Health that are held from 1-2PM on Tuesdays.

The following round are held once monthly: 1) Clinical pathology rounds involving clinical pathology faculty and oncology residents, students, and faculty are held monthly (Fridays from 10-11AM). These rounds include a review of cases seen through the oncology service as well as other pertinent cases that were received through other services within the hospital or that were external submissions. Discussions regarding case outcome, treatment plan, and correlations with any histopathology that was obtained are also included. 2) A combined oncology/surgery rounds is held monthly (Wednesdays from 8:30-9:30 AM) from August through May to discuss combined case management and approaches to shared cases. These rounds include residents and faculty members from both the oncology and surgery services and consist of case presentation and discussion or a combined presentation of a case with supporting journal/literature review. Often, radiology and anatomic pathology residents joint these rounds.

Oncology residents are required to attend all of these weekly and monthly rounds sessions whether or not they are on clinical service. Additionally, they are required to present at each of these rounds sessions listed above. Various other seminar opportunities are available that are related to their training. This includes various basic cancer research seminars both within the College and the University. There are related opportunities through the cancer biology training program within the vet school. This program offers monthly seminars (Tuesdays noon-1PM) with cancer researchers presenting their works. Those with basic science or bench top projects are required to participate in and present at laboratory meetings when on research blocks. Often, these lab meetings are held in conjunction with other collaborating researchers and their laboratories.

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).

As outlined in the previous section, all oncology residents must present in the described rounds/seminars. Additionally, the residents are provided the opportunity to present yearly at a formal conference. Presentation opportunities may be met by presenting oncology topics or resident research at any of the departmental seminar series previously listed. Other opportunities for presentations by residents include the evening Cornell Continuing Education seminars held once monthly for local veterinary general practitioners and veterinary technicians, presentation at the Fred Scott Feline Health Center Symposium, or research presentations of the residents' work at the annual VCS conference, the annual ACVIM Forum, or the Cornell Clinical Investigators Day in conjunction with the annual Fall New York State Veterinary Conference. Other presentations at relevant cancer research conferences (such as the annual Weill Cornell-Cornell Ithaca Cancer Retreat or the monthly Cancer Resource Center of the Finger Lakes seminars) are acceptable as well. Additionally, the second or third year resident is given the opportunity to give a one hour lecture to third year veterinary students in their block V course (VTMED 5510: Animal Health and Disease Part II). The second or third year resident is provided the opportunity to give a one hour lecture to fourth year students in an elective oncology course (VTMED 6558: Advanced Small Animal Clinical Oncology).

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

**Local/State Meetings:** The annual Fall New York State Veterinary Conference (NYSVC) is held at Cornell, giving residents the opportunity to not only attend a local meeting but also to present. Also held annually, and more recently in conjunction with the NYSVC, is the annual Clinical Investigator's Day held at Cornell. This all day event is an opportunity specifically designed to allow residents as well as graduate students to present their research college-wide as well as to the external veterinary community. The oncology residents are expected to present at this event. The annual Feline Health Center Fred Scott Symposium is held at Cornell in July and allows residents an additional opportunity to showcase their research when applicable.

**National Meetings:** The oncology residents are expected to attend the annual VCS conference as well as present their research project at least once during their residency programs. The residents are also strongly encouraged to attend the ACVIM Annual Forum during the years they are taking their exams as well as use this to present their research. Attendance at other national meetings/conferences, such as AACR, ASCO, or ASH are also encouraged, depending upon the interests of the particular resident.

#### 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.

A variety of intensive, formal review sessions and programs are provide in this residency program to support preparation for the general and specialty examinations. 1) ACVIM board rounds are held every Friday from 9-10AM from August through May. These sessions are comprised of internal medicine, neurology, cardiology, and oncology topic and literature reviews. 2) Residents typically attend the VCS annual conference in the second and third years of their residencies and are required to attend the resident review session as part of this. 3) When possible, the residents are to attend the ACVIM Forum in their second and third years of residency. 4) Specific oncology board prep rounds for oncology residents are provided once a week (1 hour duration) from August through April to assist with specialty board preparation. These are multidisciplinary, topic-based, interactive discussions that are supervised by at least one oncology diplomate. 5) Participation of the oncology residents in ACVIM ACE courses are strongly encouraged, when the topic is applicable.

The weekly ACVIM and Oncology board prep seminars alone meet the requirement of a minimum of 40 hours of intensive formal review sessions. The addition of the other described opportunities supplement these sessions to

provide a comprehensive board preparation opportunity.

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.ACVIM.org](http://www.ACVIM.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  
     

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  
     

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; all chemotherapeutics are prepared by pharmacy staff in a biosafety cabinet. Chemotherapy is administered using the Equashield closed administration system along with personal protective equipment that includes chemotherapy-grade nitrile gloves and gowns.
g) Nuclear Medicine	Y	On-site
h) Computed Tomography	Y	On-site

i) Magnetic Resonance Imaging	Y	On-site
j) Radiation Therapy Facility	Y	On-site
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.

N/A

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 checked="" 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 checked="" 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 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 checked="" 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 checked="" 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> , 3rd 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Feldman, Zinkl and Jain: <u>Schalm's</u>				

<u>Veterinary Hematology</u> , 6 <sup>th</sup> Ed. (2010)	<input checked="" type="checkbox"/> or Library:	<input checked="" 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 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>	or Library: Flower-Sprecher CUCVM library	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Journal of the American Veterinary Medical Association</i>	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>		<input type="checkbox"/>	<input type="checkbox"/>
<i>American Journal of Veterinary Research</i>	Library: Flower-Sprecher CUCVM library	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Journal of the American Animal Hospital Association</i>	Library: Flower-Sprecher CUCVM library	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Veterinary Clinical Pathology</i>	Library: Flower-Sprecher CUCVM library	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Veterinary and Comparative Oncology</i>	Library: Flower-Sprecher CUCVM library	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Veterinary Pathology</i>	Library: Flower-Sprecher CUCVM library	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Veterinary Surgery</i>	Library: Flower-Sprecher CUCVM library	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Veterinary Radiology and Ultrasound</i>	Library: Flower-Sprecher CUCVM library	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Journal of Small Animal Practice</i>	Library: Flower-Sprecher CUCVM library	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Research in Veterinary Science</i>	Library: Flower-Sprecher CUCVM library	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Veterinary Immunology and Immunopathology</i>	Library: Flower-Sprecher CUCVM 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:

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

**X 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.

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