

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.

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="(919) 513-6183"/>
E-mail:	<input type="text" value="paul_hess@ncsu.edu"/>
Mailing Address:	<input type="text" value="Clinical Sciences, CVM
1060 William Moore Drive
Raleigh, NC 27607"/>

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

Primary Site:	Length of Training Program:
<input type="text" value="North Carolina State University"/>	<input type="text" value="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.**

<input type="text" value="Steve Suter
Joanne Intile
Paul Hess
Michael Mastromauro"/>
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3. Supervising Diplomates: **There must be a minimum of two (2) ACVIM Oncology Diplomates per institution.**

<input type="text" value="Paul Hess - Oncology, SAIM
Tracy Gieger - Oncology
Steven Suter - Oncology
Joanne Intile - Oncology
Michael Mastromauro - Oncology"/>

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="Teresa DeFrancesco - Cardiology"/>	

Bruce Keene - Cardiology Sandy Tou - Cardiology Babetta Breuhaus - LAIM Johanna Eifenbein - LAIM Samuel Jones - LAIM Mary Sheats - LAIM Peter Early - Neurology Christopher Mariani - Neurology Karen Munana - Neurology Natasha Olby - Neurology Adam Birkenheuer - SAIM Breitschwerdt, Edward - SAIM Jody Gookin - SAIM Bernie Hansen - SAIM Karyn Harrell - SAIM Eleanor Hawkins - SAIM Katharine Lunn - SAIM Steven Marks - SAIM Karen Tefft - SAIM Shelly Vaden - 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*
Carly Stevens	7/15/17	7/14/20	Joanne Intile
Susan Shapiro	7/15/18	7/14/21	Steven Suter
Ellen Sherrick	7/15/18	7/14/21	Michael Mastromauro



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: February 19, 2019

Program Director Name: Paul R. Hess, DVM, PhD, DACVIM (SAIM, O)

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

Name of Sponsoring Institution (Residency Training Program): North Carolina State University College of Veterinary Medicine

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. Note that programs must be at least 3 years (156 weeks) in length.	

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
Tracy Gieger	NCSU-CVM
Paul Hess	NCSU-CVM
Joanne Intile	NCSU-CVM
Michael Mastromauro	NCSU-CVM
Steven Suter	NCSU-CVM

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
Adam Birkenheuer	NCSU-CVM
Edward Breitschwerdt	NCSU-CVM
Tracy Gieger	NCSU-CVM
Jody Gookin	NCSU-CVM
Bernie Hansen	NCSU-CVM
Karyn Harrell	NCSU-CVM
Eleanor Hawkins	NCSU-CVM
Paul Hess	NCSU-CVM
Katharine Lunn	NCSU-CVM
Karen Tefft	NCSU-CVM
Katie Tolbert	NCSU-CVM
Shelly Vaden	NCSU-CVM

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
Duncan Lascelles	NCSU-CVM
Kyle Matthews	NCSU-CVM
Simon Roe	NCSU-CVM
Valerie Scharf	NCSU-CVM
Marine Traverson	NCSU-CVM

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
Tracy Gieger Michael Nolan Hiroto Yoshikawa	NCSU-CVM NCSU-CVM NCSU-CVM	Faculty radiation oncologists who are diplomates in radiology are available daily for face-to-face case consultations. These diplomates also directly supervise the Oncology residents during four two-week rotations through radiation oncology, as required.

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
Erika Gruber Jennifer Neel Devorah Marks Stowe	NCSU-CVM NCSU-CVM NCSU-CVM	Clinical pathology faculty diplomates are available daily for face-to-face case consultations. These diplomates also directly supervise the Oncology residents during their two-week rotation through clinical pathology, as required, and direct monthly, hour-long cytology rounds.

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 Diplomat(e)s	Site	Role in training residents
Luke Borst John Cullen Mac Law Keith Linder Jennifer Luff Heather Shive Debra Tokarz	NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM	Anatomic pathology faculty diplomates are available daily for face-to-face case consultations. These diplomates also directly supervise the Oncology residents during their two-week rotation through anatomic / surgical pathology, as required.

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
Eli Cohen Nathan Nelson Ian Robertson Gabriela Seiler	NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM	Faculty diplomates in radiology are available daily for face-to-face case consultations. These diplomates also directly supervise the Oncology residents during a two-week rotation through radiology / diagnostic imaging, as required.

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
Kate Bailey Scott Bailey Julie Balko Petra Bizikova John Bonagura Michael Davidson Teresa DeFrancesco Peter Early Brian Gilger Bernie Hansen Bruce Keene Duncan Lascelles Sara Lyle Christopher Mariani Kyle Mathews Kristen Messenger Freya Mowat Karen Munana Marcy Murphy Sarah Musulin Natasha Olby Thierry Olivry Mark Papich Lysa Posner Simon Roe Korinn Saker Valerie Scharf Sandra Tou Marine Traverson Hans Westermeyer	Anesthesiology/ACVAA Theriogenology/ACT Anesthesiology/ACVAA Dermatology/ACVD Cardio/ACVIM Ophthalmology/ACVO ECC/Cardio/ACVECC Neurology/ACVIM Ophthalmology/ACVO ECC/ACVECC Cardio/ACVIM Surgery/ACVS Theriogenology/ACT Neurology/ACVIM Surgery/ACVS Anesthesiology/ACVAA Ophthalmology/ACVO Neurology/ACVIM Dermatology/ACVD ECC/ACVECC Neurology/ACVIM Dermatology/ACVD Clin Pharm/ACVCP Anesthesiology/ACVAA Surgery/ACVS Nutrition/ACVN Surgery/ACVS Cardio/ACVIM Surgery/ACVS Ophthalmology/ACVO	NCSU-CVM NCSU-CVM	All of these faculty ACVIM and non-ACVIM board-certified diplomates are available for daily consultation regarding clinical cases, for focused rotations in their specialties, and for other discussions (including joint rounds with the Medical Oncology Service)

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 Oncology resident is assigned an individual mentor, as well as a committee of three members (mentor and two other board-certified specialists), who oversee the trainee's formal research experience. It is expected that each resident will be involved in at least one (intra- or extra-mural) grant proposal submission, as well as development and completion of one research project during their program, leading to presentation of an abstract at a extramural conference, as well as the required publication. Two of the four Supervising faculty are PhD scientists with active labs/research programs, in which resident mentees are provided projects on which to work, and the resources (funding and equipment access) to complete these efforts. Additionally, there are a number of other cancer researchers on the NCSU-CVM campus that can provide laboratory space and projects for interested residents. Residents have 8, 12 and 16 weeks professional development time in years 1, 2 and 3 of their training program, respectively. Of that total (36 weeks), ~18-20 are allotted for Board preparation and vacation, while the remaining 16-18 weeks are expected to be spent engaged in research, meeting the requirement. This research time will be documented and signed by the Supervising Diplomate, as required.

Oncology residents at NCSU are additionally encouraged to participate in ongoing clinical trials to further their research experience.

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)

As described above, all residents at NCSU have been required to pursue a research project, with the intent of that effort to support a grant application, generate an abstract for external presentation, and culminate in an accepted oncologic manuscript in a peer-reviewed journal. Additionally, residents are encouraged to work on clinical studies (prospective or retrospective) that can result in publication. Residents are provided time (in blocks uninterrupted by clinic duties), financial resources, laboratory and office space, access to library resources and medical records, access to the expertise of clinicians, scientists, and statisticians, writing assistance, and project mentoring, in order to succeed in this requirement.

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.

At NCSU, the Medical Oncology Program has a formal Journal Club generally attended and supervised by all four faculty Diplomates. This program meets weekly on Wednesday from 3:30-4:30, ~50 sessions per year, and involves review of a primary article (made available 5 days prior) and supporting literature, presented in projection format by either resident, specialty intern or faculty, followed by discussion of the paper, and a 3-5-question quiz of material from the paper for the audience. Our schedule for 2019-20 will be every Wednesday, year-round, from 3:30-4:30, except for June 5th (ACVIM Forum); Winter Holidays (Dec. 25th and Jan. 1st); October 16th (VCS travel); and November 27th (Thanksgiving travel), for a planned total of 47 sessions lasting ~50-60 minutes each (total time: ~45 hours this year).

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.

- Oncology Service Rounds – once daily, 1-hour rounds discussing current cases, and case-oriented learning points, supervised by the attending faculty Diplomates
- Medical Oncology Journal Club - once weekly, ~60-min session with rotating presenters; projection-based format, as described

above; supervised by all faculty Diplomates (Wednesdays; 3:30-4:30 pm). Medical Oncology residents present 4-5 sessions per year.

- Radiation Oncology Journal Club - once weekly, 45-min session with rotating presenters (only when Medical Oncology residents are rotating through the Radiation Oncology Service) (Wednesdays; 8:15-9:00 am)
- Surgery/Med Onc/Rad Onc Rounds - once weekly, 1-hour rounds discussing selected cases that require multimodality cancer therapies, presented by residents in each specialty, and supervised by Medical Oncology, Radiation Oncology and Surgery Diplomates (Tuesdays; 8:00-9:00 am)
- Cytology Rounds – once monthly, 1-hour rounds, led by faculty clinical pathologist & medical oncologist (Mondays, 8:00 – 9:00 am). Cases are presented by Medical Oncology Residents.
- Emergency & Critical Care / Cardiology / Neurology Rounds – once weekly, 1-hr topic- or case-based rounds, including cancer cases, for Boards prep; led by Board-certified faculty in these specialty areas (Fridays, 8:00 – 9:00 am)
- Pathophysiology Board Prep/Internal Medicine House Officer Rounds – once weekly, 1-hr, in-depth case-based discussion of pathophysiology in small animals, including cancer cases and biology; directed by multiple Small Animal Internal Medicine faculty. All Medical Oncology residents lead a session once yearly for the first two years of their program (Wednesdays, 8:00 – 9:00 am)
- House Officer Seminar – once weekly, 1-hr presentations by house officers (all residents present one formal seminar to the CVM annually during the second and third years of their program) - includes periodic in-depth presentations on cancer-related topics (Thursdays, 8:00 – 9:00 am)
- Oncology Works-In-Progress: 1-hr formal presentation by resident, once annually years 1 and 2 of the training program, on the status of their oncology research project: conception, experimental design, progress and plans (3rd year residents present this material in House Officer Seminar, described above).

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).

Formal presentations by Medical Oncology Residents:

Local (NCSU-CVM)(mandatory attendance & participation, except where noted):

Medical Oncology Journal Club: >4 presentations per year; all years of program

Pathophysiology/Internal Medicine: 1 presentation per year; years 1 & 2

House Officer Seminar: 1 presentation per year; years 2 & 3

Oncology Works-In-Progress: 1 presentation per year; years 1 & 2

CVM Annual Research Forum (1 abstract session): 1 presentation, any year (attendance & participation encouraged)

Regional/state: Attend (and present, if invited) the annual North Carolina Veterinary Conference (Raleigh, NC). Attend (mandatory) and present (encouraged) at the annual Consortium for Canine Comparative Oncology meeting (C3O, Durham, NC).

National/International: Attend the ACVIM Annual Forum, 2nd & 3rd years of program. Attend the Veterinary Cancer Society (VCS) Annual meeting, 2nd & 3rd years of program. It is an expectation of the program to present an abstract at one or both of these two meeting venues (or equivalent scientific conference) at least once during the training period. Funding is provided for the residents to defray the costs of attending these meetings.

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

Regional and state:

North Carolina Veterinary Conference (annual meeting, Raleigh, NC). Attendance permitted all years; costs are subsidized by the CVM.

Consortium for Canine Comparative Oncology (C3O annual meeting, Durham, NC).

Attendance mandatory all years (clinic is closed); no cost.

National/International:

ACVIM Annual Forum (location varies). Attendance mandated years 2 and 3;

costs are partly subsidized by the Service and Hospital funds.

Veterinary Cancer Society Annual meeting (location varies).

Attendance mandated years 2 and 3; costs are partly subsidized by the Service and Hospital funds.

Attendance at other scientific and medical conferences are encouraged, depending on individual interest.

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.

Schedule for formal examination review sessions:

Internal:

Emergency & Critical Care / Cardiology / Neurology Rounds/Boards Preparation – (40 hrs per year, years 1 and 2 of RTP) ~40 sessions per year, 1 hr once weekly, topic- or case-based rounds, including cancer cases, led by faculty Diplomates in these specialty areas.

Pathophysiology Boards Preparation (organized by Dr. Katharine Lunn)(26 hrs per year, years 1 and 2 of RTP) – ~35 sessions per year, 45 min once weekly, presented by faculty Diplomates in various specialties, including oncology.

Advanced Topics in Oncology (2-4 hrs per year, all years of RTP) – 2-4 sessions per year, 1 hr, presented by Oncology Faculty Diplomates and/or invited PhD oncology researchers

External:

ACVIM Annual Forum (20 hrs per year, years 2 and 3 of RTP)

ACVIM Advanced Continuing Education Courses (hrs per year depends on availability) – attendance supported (time; funds) when relevant course in Oncology is offered

Veterinary Cancer Society (VCS) SOTA presentations (2 hrs per year, years 2 and 3 of RTP)

VCS Resident Review Workshop (3.5 hrs per year, years 2 and 3 of RTP)

Multi-institutional Tumor Boards (NCSU, CSU, Texas A&M, Univ. of Illinois, Univ. of Guelph)(3 hrs per year, all years of RTP) – Web-based program, 1 hr per session x 2-3 sessions per year

Consortium for Canine Comparative Oncology annual meeting (C3O, Durham, NC)(8 hrs per year, all years of RTP)

Summary:

Venue	Year 1	Year 2	Year 3
Critical Care Board prep	40	40	
Pathophys Board prep	26	26	
Adv Top Onc	2	2	2
ACVIM Forum		20	20
VCS Res Rev		3.5	3.5
VCS SOTA		2	2
Multi-inst. Board prep	3	3	3
C3O Forum	8	8	8
TOTAL	79	104.5	38.5

While it may have no bearing on your program, the supervising Diplomat(e)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.

11. Have all supervising Diplomat(e)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"/>
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If no, please explain:

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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
Rhinocopy	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. Chemotherapy is prepared in a Sterilchem GARD III biosafety cabinet in closed ventilation partition, and administered using a MILA closed drug transfer system by personnel wearing personal protective equipment in a dedicated administration room (fully compliant w/ upcoming USP 800 Hazardous Drugs - Handling in Healthcare Settings standards).
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 th ed. (2015)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Withrow: <u>Veterinary Clinical Oncology</u> , 5 th Ed. (2013)	<input checked="" type="checkbox"/> or Library:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chabner: <u>Cancer Chemotherapy</u> , 5 th or 6 th Ed. (2011, 2019)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tannock&Hill: <u>Basic Science of Oncology</u> , 5 th Ed. (2013)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Abbas: <u>Cellular and Molecular Immunology</u> , 9 th Ed. (2017)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Meuten: <u>Tumors in Domestic Animals</u> , 5 th Ed. (2016)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Weinberg: <u>The Biology of Cancer</u> , 2 nd Ed. (2013)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Feldman & Nelson: <u>Canine and Feline Endocrinology and Reproduction</u> , 4 th Ed. (2015)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cowell, Taylor & Meinkoth: <u>Diagnostic Cytology and Hematology of the Dog and Cat</u> , 4 th Ed. (2014)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hall: <u>Radiobiology for the Radiologist</u> , 7 th Ed. (2012)	<input type="checkbox"/> or Library: Vet Med	<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 type="checkbox"/> or Library: Vet Med	<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 rd edition (2015)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Latimer: Duncan & Prasse's <u>Veterinary Laboratory Medicine: Clinical Pathology</u> , 5 th Ed. (2011)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Feldman, Zinkl and Jain: <u>Schalm's Veterinary Hematology</u> , 6 th Ed. (2010)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Norman and Streiner: <u>Biostatistics- the Bare Essentials</u> , 4 th Ed. (2014)	<input type="checkbox"/> or Library: Vet Med	<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: http://guides.library.tamu.edu/acvim				
<i>Journal of Veterinary Internal Medicine</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Journal of the American Veterinary Medical Association</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>American Journal of Veterinary Research</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Journal of the American Animal Hospital Association</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Veterinary Clinical Pathology</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<i>Veterinary and Comparative Oncology</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Veterinary Pathology</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Veterinary Surgery</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Veterinary Radiology and Ultrasound</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Journal of Small Animal Practice</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Research in Veterinary Science</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Veterinary Immunology and Immunopathology</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Cancer</i>	<input type="checkbox"/> or Library: Hunt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>New England Journal of Medicine</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Clinical Cancer Research</i>	<input type="checkbox"/> or Library: Hunt	<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: Hunt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Cancer Chemotherapy & 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: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Journal of Comparative Pathology</i>	<input type="checkbox"/> or Library: Vet Med	<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: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Nature</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Cell</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Science</i>	<input type="checkbox"/> or Library: Vet Med	<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: Hunt	<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: Hunt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Mammalian Genome</i>	<input type="checkbox"/> or Library: Hunt	<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

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.