DREXEL UNIVERSITY COLLEGE OF MEDICINE/
HANEMANN UNIVERSITY HOSPITAL
DEPARTMENT OF RADIATION ONCOLOGY

CHRISTIANA CARE RADIATION ONCOLOGY

General Goals and Objectives for All Postgraduate Years

- Resident is to arrive on time and be available when patient appointments begin. Resident will be responsible for checking OR and clinic schedule and for being present for all procedures and appointments relative to the service he/she is on.
- Resident is responsible for ensuring patients are scheduled for tests, follow-up, consults with other departments as directed by the attending.
- H&P dictations are to be completed within 24 hours of the consultation. These dictations are expected to be complete and correct covering all pertinent aspects of the case and discussion that had taken place with the patient. Resident is to follow up on results related to the plan.
- Resident is required to dictate all treatment completion notes by the end of workweek.
- Resident is to complete all treatment notes on the same day the patient is seen.
- Resident will respond to all pages in a timely fashion.
- Resident will contour volumes and draw blocks in timely fashion. Resident is to communicate with dosimetrist and attending the progress they have made on plans. Residents are expected to be present at all simulations and port films for all of their patients. Residents are expected to fill out radiation dose prescribed on treatment chart.
- Resident will attend all conferences and will be on time for the start of the conference, unless there is a specific patient care conflict. The resident will be expected to present their patients at the quality assurance/chart rounds conference.
- Resident will plan outside activities and appointments during times not interfering with their primary patient care activities and radiation procedures. They will review the schedule and discuss with their current attending/teaching physician and the residency Program Director before scheduling.
- Resident will participate in on-call rotation and follow on-call procedures.
- Resident will keep an up to date case log using the ACGME web-based log system.
- Resident will record work hours on the web-based log system and verify hours on a monthly basis.
- Resident will be expected to present at journal clubs on a rotating basis.
- Resident will be expected to review patient list prior to tumor board conferences and attend all conferences pertinent to their rotation. The resident is expected to present his/her patients at tumor boards.
Specific Goals and Objectives for Each Academic Year
Drexel University College of Medicine/Hahnemann University Hospital
Christiana Care Radiation Oncology

PGY-2:

Patient Care
Provide compassionate, appropriate and effective treatment of cancer and related issues as well as general healthcare problems.

- Perform a comprehensive history and physical examination and appropriately stage patients according to AJCC staging system.
- Understand the risks and benefits of various evidence-based treatment options and, prognosis based upon staging and clinical analysis.
- Demonstrate proficiency in application of technical aspects of simulation, treatment planning and treatment delivery. Assist the attending physician in preparing the treatment prescription, simulation and treatment plan. Gather data, order tests, assist in interpreting data, and manage therapies.
- Assist the attending in recognizing acute treatment related effects and evaluate response.
- During follow up clinics, assist the attending in recognizing chronic treatment related effects and in management of these patients after treatment.
- Assist in performing procedures.

Medical Knowledge
Demonstrate knowledge of established and evolving biomedical, clinical, epidemiological, behavioral sciences as applied to the patient.

- Understand the prevalence, causes, natural history, clinical presentation, and histopathology of cancers as well as proper diagnosis and work-up.
- Demonstrate knowledge of available clinical trials, review eligibility requirements for clinical trials, and recognize and identify patients who may be eligible for clinical trial accrual.
- Understand basic concepts of brachytherapy.
- Understand basic concepts of radiobiology.
- Understand basic radiation physics concepts and calculations.
- Understand staging systems and review NCCN guidelines by disease site.
- Begin to develop ideas for future research with the assistance of designated attending.
- Use medical knowledge to help solve problems.
Practice-based Learning and Improvement
Demonstrate the ability to question and evaluate the care of patients, assimilate scientific evidence, appraise literature, improve patient care, pledge to life-long learning.

- Apply evidence-based clinical and supportive scientific data to the management of the clinical problem and assist the attending physician with formulating a comprehensive treatment plan.
- Use information technology to access online medical information.
- Review pertinent literature concerning the patient and summarize it and present it at appropriate conferences.
- Identify one’s strengths and weaknesses, set learning and improvement goals.
- Evaluate practice and begin to use quality improvement methods with aim to improve practice.
- Participate in education of patients, families and referring physicians, fellows and students.

Interpersonal and Communication Skills
Demonstrate interpersonal and communication skills leading to exchange of communication and information with patients, families, referring physicians, students and fellows.

- Communicate effectively with the patient and family member using verbal and non-verbal skills to help them understand treatment options, risks and possible outcomes.
- Create and sustain a relationship that is therapeutic for patients and supportive of their families.
- Recognize that effective communication skills require effective listening skills as the delivery of medical care is an interactive process between medical providers and patients.
- Work effectively as a team member.

Systems-based Practice
Demonstrate an understanding of healthcare systems and be aware of resources available to patients to provide optimal healthcare.

- Institute appropriate physician contacts to assure efficient and efficacious multidisciplinary approach to management of disease in this site.
- Assist attending in referring patients to appropriate clinics for management of non-radiation related issues.
- Assist attending in ordering appropriate staging and follow up exams in a prompt and timely fashion.
- Recognize cost issues associated with proposed treatment plans and initiate activities to limit those costs where possible, therefore improving cost effective care.
- Work effectively in various healthcare settings relative to radiation oncology.
• Coordinate patient care working with attending but also social workers, nurse navigators and other healthcare professionals. Work as a team to enhance patient safety and improve quality of care.
• Become an advocate for quality patient care and work to improve by becoming part of the quality care initiative.

Professionalism

Demonstrate a commitment to carrying out and adhering to ethical principles.

• Respect patient age, gender, emotional state, and culture in all contacts.
• Respect patient’s dignity, autonomy and privacy.
• Listen to patients and respect their viewpoints.
• Demonstrate honesty and act responsibly.

PGY-3
Continue development in each of the competencies addressed at the PGY-2 level and additionally:

Patient Care

• Further refine history and physical consultation skills including ability to perform gynecological and head and neck examinations.
• Recognize and manage acute and chronic treatment effects with guidance of the attending.
• In follow up, begin to manage post treatment care and evaluate for recurrent/metastatic disease with appropriate diagnostic studies.
• Upon review of current standards of care, propose alternatives for clinical or translational research in this patient population.
• Become more proficient at brachytherapy procedures with help of attending.

Medical Knowledge

• Develop proficiency in staging, extent of disease evaluation, and NCCN guidelines by disease site.
• Recommend evidence based treatment options and discuss and compare outcomes such as local control rate, survival probability and toxicities associated with the options identified.
• Develop basic understanding of other disciplines in oncology including chemotherapy and surgery.
• Become comfortable with developing presentations for our own department as well as others, including journal clubs.
• Begin developing research project to continue during residency.
• Understand radiobiology concepts and apply to clinical radiation oncology.
• Understand physics concepts and apply to clinical radiation oncology.
Practice-based Learning and Improvement

- Formulate complete comprehensive cancer treatment plans with the guidance of the attending.
- Perform simulations and develop treatment plan under the direct supervision of the attending.

Interpersonal and Communication Skills

- Elicit and provide information to patients and their families using effective nonverbal, explanatory, questioning and writing skills.
- Respond promptly to patients’ queries and requests.
- Develop team leadership skills to promote effective care delivery and a wholesome educational environment.

Systems-based Practice

- Exhibit sufficient computer skills to access appropriate medical records and patient data from both department and hospital-based systems.
- Advocate for high quality radiation oncology patient care and assist patients in dealing with system complexities.

Professionalism

- Demonstrate a commitment to carrying out professional responsibilities and a responsiveness to the needs of patients that supersedes self-interest.

PGY-4
Continue development in each of the competencies addressed at the PGY-2 and PGY-3 level and additionally:

Patient Care
- Comprehensively evaluate patients with cancer and understand multidisciplinary aspects of patient’s care.
- Be able to perform simulation with only observation by attending.
- Be able to perform brachytherapy procedures with little assistance from attending.

Medical Knowledge
• For effective consultation and referral and for patient education, assess and describe common presentations of radiation interactions with antineoplastic and/or biologic agents.
• Develop in-depth knowledge of chemotherapeutic and surgical roles in multidisciplinary care.
• Distinguish between important and non-important problems of each patient; prioritize and resolve issues with minimal direct action by the attending physician.
• Understand in-depth concepts in radiobiology and apply to clinical practice.
• Understand in-depth concepts in radiation physics, be able to perform calculations, and apply to clinical practice.

Practice-based Learning and Improvement

* Refine practice experience through use of chart reviews, M&M and QA monitors to assess performance and management skills.
* Where appropriate and with guidance from the mentoring faculty, review tumor site specific patient experience for outcomes analysis and submission of abstract(s) for presentation.

Interpersonal and Communication Skills

• Develop a style of interaction with staff, attending physicians and colleagues in a manner that promotes and fosters cooperation, trust and respect.
• Become proficient in communicating and educating medical students and junior residents in the program.

Systems-based Practice

• Utilize services within the hospital setting or those available externally to assure patient access to quality care and management.

Professionalism

• Demonstrate appropriate ethical activities and professional behaviors at all times.
• Recognize challenging issues and seek appropriate guidance to resolution.

PGY-5
Continue development in each of the competencies addressed at the PGY-2, 3 and 4 level and additionally:

Patient Care
• Independently evaluate patients and report findings to attending mentor and autonomously manage patients undergoing radiation therapy.
• Be able to perform standard brachytherapy procedures under observation of an attending.
• Be able to independently perform simulation, write a clear radiation prescription and devise an appropriate treatment plan with dosimetrist.

Medical Knowledge

• Acquire an attitude consistent with life-long learning habits.
• Demonstrate a depth of knowledge that will allow residents to practice independently without direct supervision.

Practice-based Learning and Improvement

• Formulate and execute comprehensive treatment prescriptions, plans and simulations in an independent fashion (subject to approval by the attending faculty).
• Evaluate patient during on-treatment visits and in follow up clinic for assessment of acute or late toxicities and present and carry out a comprehensive management plan with minimal attending physician oversight.

Interpersonal and Communication Skills

• Exemplify empathy and conscientious attention to patient/family related concerns surrounding their cancer care and management.

Systems-based Practice

• Integrate necessary non-radiation interventions to facilitate patient care in multidisciplinary practice environment.
• Identify system and process errors in order to improve quality of care delivery and patient safety.

Professionalism

• Recognize and act quickly to protect patients from risk.
• Recognize the limits of professional competence and scope of practice.
• Develop a level of confidence and professionalism that confers trust by your patients.

Teaching Methods:

Residents are taught by attending physician one to one or through didactic lecture and visiting professors.
Resident Assessment Methods:

Each resident is expected to fill out an evaluation of rotation form annually.

Program Assessment Methods:

Each resident is expected to fill out evaluation of program annually.

Supervision:

One on one by the attending physician.

Assessment of Resident:

Direct observation, in-house written exams, in-service exams, 360 assessment, evaluation by patient, oral exams during PGY5, resident logs, and informal mini oral exam.

Educational resources:

- Residents have access to the Drexelmed library 24/7.
- Basic Radiation Oncology, Anatomy, Radiology, Medical Oncology, Physics and Radiation Biology texts are available in the Radiation Oncology library/conference room or in the residents’ room.
- Pertinent journals are available on-line. There is also a list of suggested articles, by site, in our Residency Program’s Policy and Procedure manual located in the residents’ room.
- Access to NCCN guidelines are accessible and are free on line along with guidelines from NCI, ACS, ASTRO.