



MEDICAL STUDENT OBJECTIVES

Objective	1: Understand	the Basics of	Padiation	Oncology
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Watch UCLA "Intro to Radiation Oncology" video by Dr. Trudy Wu
Watch "Introduction to Radiation Oncology" video by Dr. Dan Golden
Read Primer for Medical Students
Listen to At the Beam episode "RadOnc 101 feat. Hefei Liu"
Attend ROCDLS on Mondays and Wednesdays from 8 AM to 9 AM
Attend Chart Rounds on Tuesday and Thursday from 8:15 AM to 9 AM
Familiarize yourself with the terms SRS, SBRT, and IMRT
Recognize common dose-fractionation schema

Objective 2: Understand the Workflow from Initial Consultation to Treatment

1. Consultation

- Obtain the relevant history and diagnostic workup and perform thorough physical examinations of the patient (H&P)
- Understand the important aspects of an oncologic history
- Present the relevant details of the H&P and workup to the attending physician
- Review appropriate imaging and pathology

Contour a definitive prostate case Contour a definitive breast case

- Discuss relevant literature so that evidence-based decision-making can occur
- Formulate a cancer treatment plan with the attending physician

Review plans for contoured cases using the mnemonic CB-CHOP

- Understand contraindications to radiation therapy

See and write consult notes for at least 4 definitive cases (i	ideally including 2 post-op) and 2 palliative cases
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2. Simulation

3.

- Assist in the careful design of a course of radiation treatment during patient simulation and treatment planning

Understand how basic anatomy and knowledge of cancer spread influences radiation planning and delivery Learn the workflow in radiation planning and the involvement of radiation therapists, dosimetrists, and physicists
Observe 1 head and neck/brain simulation
Observe 1 body simulation using a Vac-Lok device
Place a CT simulation order
Treatment Planning
 Understand the importance of accurately delineating organs at risk (OARs)
Understand the meaning of gross target volume (GTV), clinical target volume (CTV), and planning target volume (PTV)

Practice contouring common OARs (rectum, bladder, bowel, kidney, heart, esophagus, spinal cord, brainstem)

4. <u>On-Treatment</u>	
 □ Observe the setup and on-board imaging process for 1 fractioned case □ Observe the setup and on-board imaging process for 1 SRS case □ Observe a brachytherapy case □ Observe an MRI-guided case on ViewRay (preferably adaptive) □ Attend on-treatment visits with your service □ Understand common acute and late treatment toxicities 	
Objective 3: Appreciate how Radiation Oncology Integrates into a Multidisciplinary Setting	
Attend site specific tumor boards See 2-3 follow-up visits each week	
Objective 4: Recognize Common Radiation Oncology On-Call Scenarios	
See and/or discuss 2 cases with the call resident Discuss the management of common call scenarios (symptomatic metastasis, brain metastasis, GI bleeding) Understand frequently used palliative fractionation schema Reflect on strategies for approaching goals-of-care discussions Understand the importance of choosing our words carefully when discussing cancer Read the IASLC Language Guide Optional: Read "The Combative Language of Cancer: A Plea for an Armistice" or "Delivering Bad News E by Dr. Matthew Farrell">"Dr. Matthew Farrell	Badly
Objective 5: Share Your Knowledge with Us!	
Deliver a 20-minute presentation on a topic of your choice related to oncology (on the Thursday of your last wee	∍k)