

# DEPARTMENT OF RADIOLOGY

## RADIATION ONCOLOGY

Course Director: Mitchell Karten, MD

Duration: Varies

- NYCOM students (4th year- 4 week required and/or elective)
- Stony Brook students (3rd or 4th year- 2 week rotation)
- Visiting Institutions and/or US or foreign students (4 week clinical rotation) with Radiology Elective Director' s approval
- Rotating NUMC Interns (4 weeks)

## GOALS

Understand the fundamentals of radiation oncology and clinical indications for therapy of cancer.

## EDUCATIONAL OBJECTIVES

By the completion of this rotation, the medical student will:

- Understand the role of radiation therapy in cancer treatment
- Understand the multidisciplinary approach to cancer treatment
- Acquire a basic understanding of radiobiology, radiation physics and radiation safety
- Gain a firm knowledge of the indications, contra-indications, and risks of radiation therapy
- Gain an understanding of the role of the radiation oncologist in cancer management

## CLINICAL EXPERIENCE

The division does not have residents or fellows; therefore, the students will have primary access to patients and clinical instruction with Dr. Karten who is Board Certified in Radiation Oncology and Medical Oncology. He can provide a unique one-on-one instructional environment with emphasis on multidisciplinary management.

Students will see a wide variety of cases encompassing many oncology sites including breast, lung, colorectal, head and neck, and gynecological.

## DIDACTIC EXPERIENCE

- The students on the radiation oncology rotation will attend weekly med/surg, breast, biweekly gynecologic oncology tumor boards.
- Site specific lectures will be provided to cover the major oncology sites including prognosis, diagnosis, staging, and treatment.
- Lectures will also be provided in physics, radiobiology, and radiation safety.
- The student may also attend additional interdisciplinary conferences.

## SUGGESTED READING MATERIALS

*American Cancer Society Textbook of Clinical Oncology*, (paperback) in press spring 2008 American Cancer Society excellent manageable text

*Chemotherapy and Radiation for Dummies*, 2005 patient perspective

## Reference Texts

*Perez and Brady's Principles and Practice of Radiation Oncology*, Lippincott, Williams & Wilkins; 5 edition (December 1, 2007)

DeVita, Hellman, and Rosenberg's, *Cancer: Principles & Practice of Oncology (Cancer: Principles & Practice (DeVita)(2 Vol.))* Lippincott Williams & Wilkins; 8 edition (May 1, 2008)

## Websites

<http://www.nccn.org>

NCCN treatment guidelines site specific

<http://www.cancer.gov/site>

Specific summaries

## OTHER IMPORTANT INFORMATION

Hours are from 8:00 a.m. to 4:00 p.m. On the first day of the rotation, students will register with the Undergraduate Medical Education Office and meet at 9:00 a.m. in the Radiation Oncology Division in the basement of S Building for general orientation.

## EVALUATION METHOD

Evaluation is determined by active participation, as evidenced by asking questions, researching topics of discussion, and participating in therapeutic decision making.

## HOW TO APPLY

If you are interested in applying, please call 516-572-5399 or visit us at [www.numc.edu](http://www.numc.edu).