Department of Radiation Oncology
Carol G. Simon Cancer Center
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The Pioneer in the Treatment Modality of Image-Guided Radiation Therapy
As a premier cancer treatment and research facility, The Carol G. Simon Cancer Center provides the most advanced radiation treatments in a comfortable and caring environment. Located on the campus of Atlantic Health System’s Morristown Memorial Hospital, the Carol G. Simon Cancer Center performs over 15,000 treatments annually. Each year, more than 500 new patients with cancer are referred to the Radiation Oncology Department by nationally renowned physicians. The entire staff of the Carol G. Simon Cancer Center understands the powerful impact of a cancer diagnosis. We are dedicated to tailoring treatments that are effective and specific to the needs of each person. Patients benefit from advanced therapies performed in a modern, relaxed setting under the direction of a compassionate, supportive and technically superb team of specialists.

Approximately 60% of all cancer patients require radiation therapy during some phase of their cancer care. Radiation treatments may be just one part of an integrated cancer treatment strategy involving other treatment modalities including surgery and chemotherapy.

For more information regarding Radiation Oncology at Morristown Memorial Hospital’s Carol G. Simon Cancer Center, please call 973-971-5329.
The Carol G. Simon Cancer Center is outfitted with the most technologically advanced radiation equipment.

Treatment Planning and Delivery

The REGISTERED ONCOLOGY NURSES specialize in oncology and provide physical care, along with cancer education, procedural and radiation treatment information, and advice on managing side effects. The nurses also lend emotional support and provide information about available hospital and community resources.

SOCIAL WORKERS are licensed professionals who specialize in working with patients with cancer. They provide support in helping patients and their families with social and emotional concerns during treatment. In addition, there is availability of assistance with financial needs, transportation needs, and referrals to community agencies.

REGISTERED DIETITIANS provide individual and group consultation on the special dietary needs of patients during radiation treatment.

SUPPORT STAFF provide professional, caring and confidential interactions for information, scheduling and follow-up appointments for radiation oncology patients.

FOR OUR PLANNING WE UTILIZE:

- 3-D Conformal Treatment Planning to allow the physicians to precisely outline the treatment field. Utilizing sophisticated computer programs, data from the CT and/or MRI scan is integrated to develop an individual treatment plan which conforms the distribution of radiation exactly to the dimensions of a patient’s tumor.

- Fluoroscopy capability in our simulation room.
The Radiation Oncology Team

The Carol G. Simon Cancer Center is staffed by highly skilled professionals prominent in the field of Radiation Oncology who work closely together to achieve the most effective treatment for each individual patient.

All **RADIATION ONCOLOGISTS** in the Department of Radiation Oncology are board certified Radiation Oncologists and proficient in the most recent developments in cancer treatment. The Radiation Oncologist plans, directs and monitors patient treatments throughout the course of radiation therapy.

**MEDICAL PHYSICISTS** are board certified professionals that ensure the safety, precision and accuracy of the equipment throughout the course of treatment.

**DOSIMETRISTS** assist the Radiation Oncologists in designing the treatment plan utilizing computer modelling. They calculate the exact time and angles for the treatment the Radiation Oncologist has prescribed.

**RADIATION THERAPISTS** assist the Radiation Oncologist in setting up the approved plan of treatment. They accurately reproduce this plan and administer the radiation daily. Therapists with specialized education and experience in radiation oncology are registered by the American Registry of Radiologic Technologists and are licensed by the State of New Jersey.

- Immobilization casts that are custom-designed for precise, reproducible positioning on the treatment table. These devices are used during the radiation procedure to optimize the treatment.

- Complete mould room facilities where beam-shaping devices are fabricated within millimeter tolerances of the patient’s treatment specifications.

- Intensity Modulated Radiation Therapy Treatment, which is the most advanced form of radiation treatment today. This type of treatment minimizes the adverse side effects of radiation by delivering radiation in a targeted site specific manner.
Treatment Planning and Delivery

Delivery
- We have three high-performance linear accelerators with multi-leaf collimation to produce precise beam shaping to target the treatment site and protect surrounding normal tissue. The results are shorter treatment times, more comfort and fewer side effects.

Image-Guided Radiation Therapy
- The Somatom CT scanner--FOCAL (Fusion of CT scanner and Linear accelerator) treatment, combines the use of diagnostic quality CT images and high energy x-rays to pinpoint the tumor location and minimize dosage to uninvolved tissue. This new treatment modality with advanced image guidance has been successfully utilized in the management of several malignancies.

Patient Comfort
- Experts agree that the atmosphere and environment in which patients are treated can be instrumental in the healing process. The Carol G. Simon Cancer Center offers amenities such as artwork awash in natural light, abstract mobiles and tranquil indoor/outdoor gardens to positively impact a patient’s outlook. Incorporated throughout the center is plant life, inviting spaces, atriums and commissioned artwork. Dressing suites with private storage lockers, a separate waiting area for inpatients, and patient and family consultation are also provided.
Brachytherapy Treatment

Among our specialized treatments are new methods for delivering radiation to tumors deep inside the body. Precise dosage and precise localization of radiation is automatically delivered through an applicator which is positioned internally within the body and close to the tumor. Brachytherapy treatment can be given in two different ways:

High Dose Rate Brachytherapy

A radioactive source is placed inside a catheter for a short duration of time in the tumor. The time the source stays inside the patient is dependent on how much dosage needs to be delivered. This treatment method can be used for many different varieties of cancer, such as lung, esophageal, gynecological, prostate, and recurrent cancers.

Low Dose Rate Brachytherapy

The applicator is placed close to the tumor for a longer duration of time. This includes permanent seed implantation that delivers tiny radioactive seeds directly into the tumor. It also includes iridium ribbons (Ir192) and cesium implant (Cs137) that deliver high doses of radiation to the cancer while minimizing the dose to adjacent organs. This treatment method is provided primarily on an inpatient basis.
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