The Julia and Ned R. Arnold Center for Radiation Oncology at New York Hospital Queens

A higher level of cancer care.

New York Hospital Queens

Member
NewYork-Presbyterian Healthcare System
Affiliate: Weill Medical College of Cornell University

The Julia and Ned R. Arnold Center for Radiation Oncology at New York Hospital Queens (NYHQ) is one of the leading Radiation Oncology Programs in the country. The Center boasts a highly trained staff, the most current and advanced treatment capabilities and an uplifting and caring environment for patients.

Dattatreyudu Nori, M.D., F.A.C.R., F.A.C.R.O., Chairman, Department of Radiation Oncology at NYHQ directs the Center. Dr. Nori also serves as Professor and Radiation Oncologist in Chief at NewYork-Presbyterian Hospital, Weill Medical College of Cornell University. Dr. Nori was recently selected as one of the top cancer physicians in the country in a survey of more than 100,000 cancer doctors conducted by Castle Connolly Medical, Ltd.

The convenient and supportive environment at The Julia and Ned R. Arnold Center for Radiation Oncology is uniquely suited for patients being treated for cancer.

Our medical staff works with patients, families and collaborating physicians to produce the best possible outcomes for each patient. Our physicians are all highly experienced and board certified. Each is a faculty member of the Weill Medical College of Cornell University. They are caring physicians who review all of a patient's concerns and work hand in hand with the referring physician to manage a patient's cancer care. This sensitive, collaborative approach to care is also practiced by our Physicists, Radiation Therapists and Nurses.

Free parking is available for Radiation Oncology patients in the New York Hospital Queens visitor parking lot. Located near entrances to the Long Island Expressway and the Grand Central Parkway, the hospital is also accessible by subway, the Port Washington line of the Long Island Railroad and the Long Island Bus. The Department also has a van and transportation is available to patients who need it.

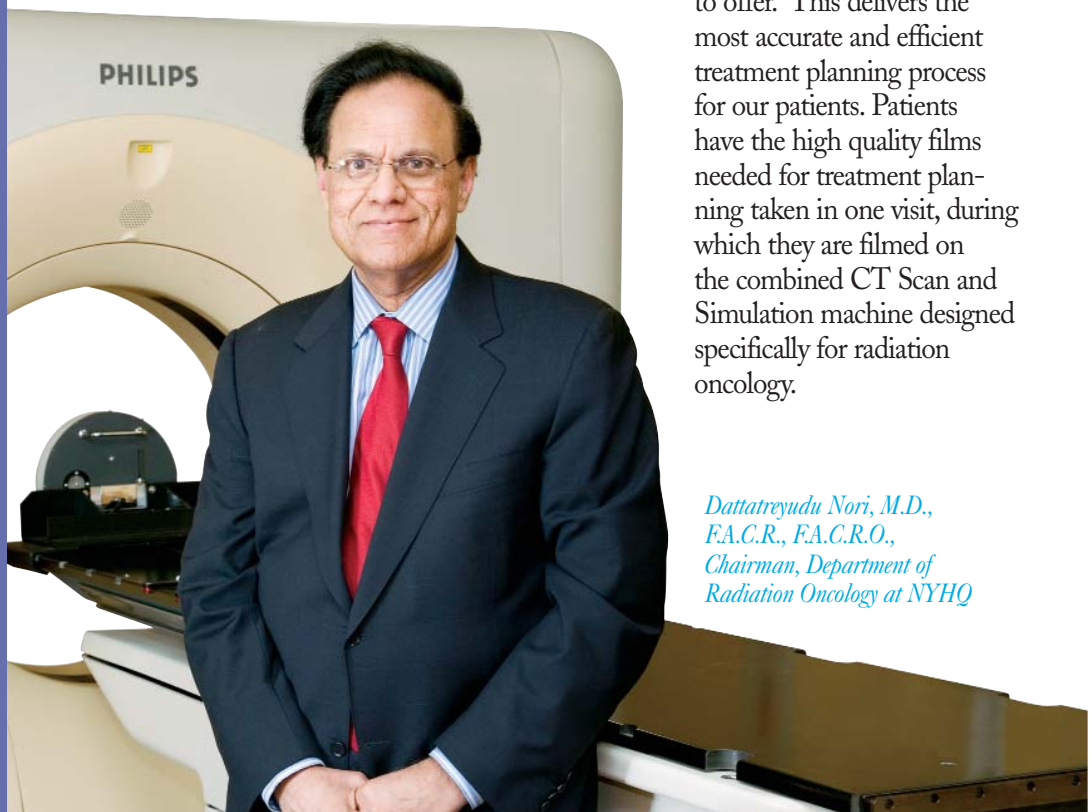
Clinical Treatment

The word "oncology" refers to the study and treatment of cancerous malignancies.

Radiation oncology utilizes X-rays and other forms of radiant or particulate energy for the treatment of cancer. The amount of radiation is precisely measured and targeted to the tumor and the duration of application is closely controlled.

Radiation therapy is one of the three major modalities of treatment for cancer; the other two are surgery and chemotherapy (which is also known as drug therapy).

Radiation therapy has two forms – external beam therapy and brachytherapy. The first step in radiation therapy is treatment planning. The Arnold Center has the newest CT/Simulator – the best technology has to offer. This delivers the most accurate and efficient treatment planning process for our patients. Patients have the high quality films needed for treatment planning taken in one visit, during which they are filmed on the combined CT Scan and Simulation machine designed specifically for radiation oncology.



Dattatreyudu Nori, M.D., F.A.C.R., F.A.C.R.O., Chairman, Department of Radiation Oncology at NYHQ

External Beam Therapy

In external beam therapy, X-rays or electron beams are directed at the tumor from outside the body using a machine called a linear accelerator. With the availability of the latest technology at NYHQ, patients are able to receive external beam therapy that uses image guided radiation therapy (IGRT) and, as needed, respiratory gating. IGRT allows cone beam images to be taken just before treatment, which enables final adjustments to the treatment just before radiation is administered. Respiratory gating allows us to target the radiation beam to be synchronized with the patient's breathing. Both IGRT and respiratory gating allow for more precise aiming of a stronger radiation beam at the target area while minimizing the exposure of surrounding healthy tissue to the radiation.

Brachytherapy

NYHQ utilizes the latest brachytherapy technology. In brachytherapy, radioactive pellets are introduced directly into the body – next to, or inside the tumor – and are used for higher-intensity application to small areas. Depending on the needs of the patient, this may be done in one of two ways – the material can be sent by remote control through a catheter or thin tube and then withdrawn, or it can be implanted during a minor surgical procedure. Ours is one of the only centers with a fully dedicated brachytherapy suite, including an adjacent recovery room.

The Arnold Center has been designed for patient comfort as well as for the most effective application of radiation therapy. The 20,000 square-foot center includes the following features:

Patient waiting, dressing and consultation areas

- Spacious two-story reception area bathed in natural light from a ceiling skylight
- Five dressing rooms
- Nearby private lounge in which outpatients can wait for treatment
- Separate waiting area for inpatients
- Six patient consultation rooms
- Simulation room

Preliminary treatment preparation

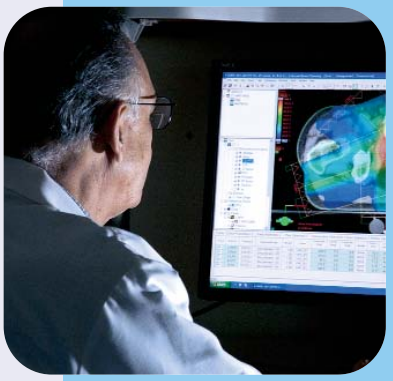
- Mechanical engineering unit that produces customized beam-shaping devices designed within millimeter tolerances to an individual patient's treatment specification
- Special system for creating custom-fit aids that keep patients precisely positioned

Treatment design

- Two 3-D conformal treatment planning rooms, one for external beam radiation and one for brachytherapy

Treatment delivery

- Three high-energy linear accelerators with X-ray and electron beam capabilities, including multi-leaf collimation for IMRT (Intensity Modulated Radiation Therapy) – a sophisticated computerized device that helps to shape the beam to protect the surrounding normal tissues as it treats the tumor
- Dedicated brachytherapy suite with computer-controlled, high-dose rate remote afterloader, biplane fluoroscopy and ultrasound facilities
- State-of-the-art recovery room for patient monitoring after brachytherapy procedures using anesthesia
- Large modern nursing station



Research

Because the effective treatment of cancer is a constantly evolving process, The Arnold Center conducts research as a means of advancing day-to-day practice. Center physicians develop new treatment programs from a continuous review of the Center's own experience.

In addition, studies in The Frank Randazzo, Jr., Cell Biology Laboratory seek to understand the basic mechanisms of tumor response to radiation and chemotherapy, alone or in combination. The goal is to produce more effective treatments overall and to increasingly tailor treatment to the individual patient's cancer.

Education

Physicians from the United States and abroad come here for specialized training. As part of a teaching institution, The Arnold Center conducts an ongoing program of professional education. This is essential to create a superior clinical environment, train residents and fellows, and to keep the many practitioners who refer patients to the Center appraised of new information and treatment approaches. The Center also has a classroom dedicated to staff and community education.

The Julia and Ned R. Arnold Center for Radiation Oncology at New York Hospital Queens

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nyhq.org

Expertise you trust.
Service you deserve.

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