

Our Treatments

Radiation Oncology

Inova Alexandria Hospital Cancer Center was the first hospital in Northern Virginia to offer Trilogy™, a state-of-the-art linear accelerator that can treat cancer conditions early and with unprecedented precision while reducing treatment times, improving outcomes and minimizing side effects.

Our equipment includes:

- Two Varian Linear Accelerators (Trilogy and 21 EX)
- Nucletron Simulator
- GE LightSpeed CT/Simulator
- Varian High-Dose-Rate Afterloader

Technologies include:

- Stereotactic radiotherapy
- Stereotactic radiosurgery
- Stereotactic body radiotherapy
- Partial breast irradiation
- Intensity-modulated radiotherapy
- High-dose-rate brachytherapy
- Image-guided radiation therapy with cone beam CT
- Low-dose-rate Brachytherapy



Inova Alexandria Hospital Cancer Center's team of physicists, L-R Shidong Tong, PhD, Zhen Zheng, PhD, Shuntong Guo, MS

Medical Oncology

Provided in collaboration with our community-based medical oncologists, these services are for patients prescribed chemotherapy treatment, blood component therapy, hydration therapy, invasive and non-invasive procedures, education and counseling services. Patients are treated using different drug and infusion therapies for palliation and cure. The oncology pharmacist is available for consultation with physicians and patients 24/7.

Interventional Oncology

In collaboration with our interventional radiologists, we are able to offer minimally invasive therapies, including:

- Selective Internal Radiation Therapy (SIRT), which uses millions of tiny resin microspheres that contain the radioactive element yttrium-90 are used to deliver targeted therapy directly to tumors. This treatment is often used in concert with other systemic therapies, such as chemotherapy, to provide life-prolonging treatment for metastatic colorectal malignancy. SIR-Sphere therapy is a promising treatment for hepatocellular carcinoma and neuroendocrine malignancy, such as metastatic carcinoid tumors.
- Thermal Ablation including Radiofrequency and Cryoablation. A probe is placed through a needle hole under CT or US guidance into the tumor, either heating or cooling it to cause tumor tissue destruction. Typically performed under moderate sedation as an outpatient procedure, this may be indicated for renal cell cancer, lung and liver cancer and bone metastases.
- Chemoembolization, pain and palliative therapies, including, nerve plexus blockade and vertebral augmentation.

Our Support Services

Cancer Registry

For almost 30 years, our registry has been responsible for the collection, management and analysis of data on patients with malignant disease. The registry provides statistical reports that enable physicians to evaluate the success of specific cancer treatments. The information also aids in research on the epidemiology of cancer.

Social Services

All patients are interviewed by a social worker to assess current support systems, economic resources and the patient's understanding of their medical situation. Services include individual and family psychosocial assessments, insurance pre-certifications, counseling, education, referrals, support groups and discharge planning. Patients also have access to Life with Cancer®, a resource that provides education, information and support, free of charge.

Dietary Services

A registered dietitian provides an initial assessment for all out-patient oncology patients with moderate to high nutritional risk. Our dietitians use the nationally-recognized Patient Generated-Subjective Global Assessment (PG-SGA) developed by Dr. Faith Ottery.

Charity Care

Our Cancer Care Fund, part of the Inova Alexandria Hospital Foundation, provides patients with services not covered by insurance, such as transportation, prescription drugs and medical supplies. We also have an indigent drug program for self-pay patients that acquires drugs from the individual drug companies at no charge.

Quick reference of key services

- Apheresis
- Blood transfusion
- Brachytherapy
- Breast care navigator
- Chemotherapy
- Chemoembolization
- Clinical research/protocols
- Community education programs
- Complementary therapies
- Cryotherapy
- Diagnostic services (digital mammography, CT, MRI, etc.)
- Hospice
- Hormone therapy
- Image-guided breast biopsy
- Infusion
- Interventional radiology
- Library/resource center
- Inova Life with Cancer®
- Lymphedema treatment
- Medical oncology
- Nutrition services
- Pain management
- Pastoral care
- Platelet transfusion
- Positron emission tomography (PET/CT)
- Prostate seed implants
- Radiation oncology
- Reconstructive surgery
- Rehabilitation
- Sentinel node mapping and surgery
- Stereotactic radiosurgery
- Stereotactic radiotherapy
- Support groups
- Surgical oncology
- Systemic radioisotopes
- Trilogy™
- Women's cancer services

Our Commitment to Your Patients

All newly diagnosed outpatients will be scheduled for a consult within 24 to 48 hours of referral. Inpatients will be scheduled within 24 hours of referral.

Call **703-504-7900** for more information.

Inova Alexandria Hospital Cancer Center

Our philosophy – evidence-based medicine

When it comes to caring for our patients our goal is to use all information available to best diagnose and plan treatment.

Each case is reviewed with all options in mind. Our dedication to evidence-based medicine sets us apart from other cancer programs.

Our information comes from:

- Our peer-review process – weekly meetings to discuss patient cases
- Following National Comprehensive Cancer Network (NCCN) guidelines – used in more than 115 countries, these guidelines are developed by oncology doctors to improve the quality, effectiveness and efficiency of oncology care
- Our participation in the Radiation Therapy Oncology Group (RTOG) – comprising 250 of the leading research institutions in the United States and Canada, this national cancer study research group is funded by the National Cancer Institute and has almost 30 years of experience in running clinical trials
- Our cancer registry

Inova Alexandria Hospital Cancer Center

4320 Seminary Road
Alexandria, Virginia 22304

703-504-7900

Hours: Monday through Friday
7:00 a.m. to 4:30 p.m.

After-hour and weekend emergencies
are handled on an as-needed basis.

A World-Class Team

Jane Grayson, MD

Chief
Division of Radiation Oncology
Inova Alexandria Hospital



Dr. Grayson joined the hospital in 1989, after 14 years at the National Institute of Health's National Cancer Institute (NCI), with the last five years as senior investigator and chief of the NCI-Navy Radiation Oncology Branch.

Dr. Grayson received her medical degree from Harvard Medical School, where she was elected to the Alpha Omega Alpha honor society. After completing a pediatric internship at Johns Hopkins Hospital and a pediatric residency at Stanford University Hospital, she continued her training in pediatric oncology and radiation oncology at the National Cancer Institute.

Dr. Grayson has a special interest in breast, lung and gastrointestinal cancers, as well as lymphoma.

Dr. Grayson is an active member of the American Society of Therapeutic Radiology and Oncology, the American Society of Clinical Oncology and the American College of Radiation Oncology. She served on the Physician Data Query (PDQ®) Committee at the National Institutes of Health for six years.

Matthew Poggi, MD

Medical Director
Inova Alexandria Hospital Cancer Center

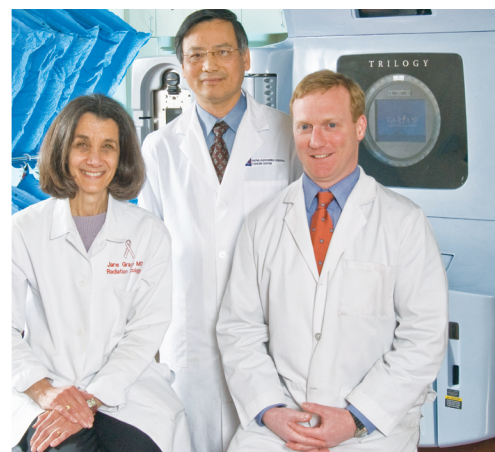


Dr. Poggi is a former commander in the United States Navy and Assistant Head of the Division of Radiation Oncology at Bethesda Naval Hospital. He joined Inova Alexandria Hospital Cancer Center in 2007.

Dr. Poggi received his medical degree from Yale University School of Medicine. Following a surgical internship at Naval Medical Center San Diego and a tour as a General Medical Officer at the Branch Medical Clinic Marine Corps, he completed his radiation oncology residency at the National Cancer Institute.

Dr. Poggi is an associate professor at the F. Edward Herbert School of Medicine of the Uniformed University of the Health Sciences, assistant professor at Howard University and a lecturer at the Armed Forces Radiobiology Institute.

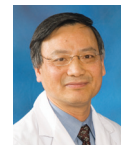
His clinical and research interests are the definitive management of prostate cancer, post-prostatectomy radiation, head and neck cancer, stereotactic radiosurgery and stereotactic radiotherapy.



Inova Alexandria Hospital's 'Trilogy of Experts'

Zhen Zheng, PhD

Physicist
Inova Alexandria Hospital Cancer Center



Dr. Zheng received his Bachelor's degree in Physics from Zhongshan University in China and his PhD degree in the same field from the University of Nebraska-

Lincoln. After obtaining his postdoctoral medical physics training at the University of Pittsburgh School of Medicine, he worked in Rhode Island Hospital as an associate physicist.

Dr. Zheng taught as an assistant professor at Brown University's Warren Alpert Medical School and as an adjunct assistant professor at Tufts University School of Medicine.

Before joining Inova Alexandria Hospital, he was an associate professor at the School of Medicine at the University of Pittsburgh.

Dr. Zheng has broad knowledge of clinical medical physics, including modern and traditional radiotherapy principles and techniques. He is certified by the American Board of Radiology (ABR) in the therapeutic radiologic physics. Dr. Zheng implemented the first intensity-modulated radiation therapy treatment (IMRT) at Inova Alexandria Hospital.

Additional Staff

- Radiation Therapists
- Medical Radiation Dosimetrists
- Oncology Nurse Coordinators
- ONC Radiation Oncology Nurses
- Medical Oncology Nurses
- Nurse Navigators
- Cancer Registrars
- Social Workers
- Dietitians
- Intake Specialists
- Office Manager
- Registration staff