



The Phillips Family Cancer Center



All we do is all for you.



Stony Brook **Medicine**



Care that builds trust and confidence

A cancer diagnosis is life-changing — for you and your family.

We are here to address every concern. Your personal Phillips Family Cancer Center team will ensure access to the most advanced medicines, technologies and clinical trials. Together, you will decide on the best course of treatment — customized specifically for your cancer and your personal need.

Throughout this journey, we offer support services and programs, including counseling, nutrition planning, care-member groups, exercise classes, therapeutic massages, meditation courses, and many other free life-style courses — all conducted by professionals who are specialists in treating patients with cancer.





The Phillips Family Cancer Center is fully integrated with Stony Brook Cancer Center and provides residents on the East End with specialty cancer care and direct access to:

- Experts in cancer diagnosis and treatment
- Innovative and cutting-edge technology for cancer treatment
- Streamlined clinical care in a patient-friendly environment
- Dedicated staff with consistently high patient satisfaction scores
- Academic oncology practice with clinical trials for tomorrow's treatments
- Nationally recognized treatment programs, right here in the Hamptons
- Plus, a robust schedule of free wellness programs and services tailored to support and strengthen cancer patients, caretakers and survivors

Radiation Oncology Treatments

Organ Motion Management

- Real-Time Position Management (RPM) Respiratory Gating System
- Deep Inspiration Breath Hold (DIBH) Technique
- Calypso Beacon System (GPS system in the tumor)
- Optical Surface Monitoring System (OSMS) for motion management

External Beam Radiation Therapy

- 3D Conformal Radiation Therapy (3D-CRT)
- Intensity-Modulated Radiation Therapy (IMRT)
- Image-Guided Radiation Therapy (IGRT)
- Volumetric Modulated Arc Therapy (VMAT)
- Prone Breast Irradiation
- Accelerated Partial Breast Irradiation (APBI)
- 4D CT Simulator with breathing control
- Sophisticated Eclipse Treatment Planning System driven by artificial intelligence
- Real-time Image Verifying System, which visualizes the radiation beam, reaching to the tumor

Radiosurgery/SBRT

- Stereotactic Radiosurgery (SRS)
- Stereotactic Radiotherapy (SRT)
- Stereotactic Body Radiation Therapy (SBRT) and Stereotactic Ablative Radiotherapy (SABR)
- Hypofractionated SBRT
- Intensity-Modulated Radiosurgery



Stony Brook's Department of Radiation Oncology is accredited by the American College of Radiology (ACR). A national distinction, the ACR seal of accreditation represents the highest level of quality and patient safety.



Advanced Technology and Equipment

- TrueBeam® Linear Accelerator
- Volumetric Modulated Arc Therapy (VMAT)
- Optical Surface Monitoring (OSMS) System
- Respiratory Gating and breath hold technology
- 4D CT Simulator with breathing control
- Eclipse Treatment Planning System driven by artificial intelligence
- Real-time Image Guidance and Verifying System

Radiosurgery and SBRT

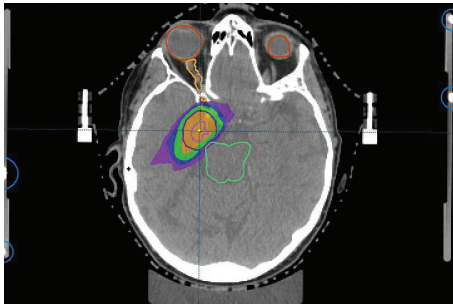
The New Line of Defense in the Fight against Cancer

Radiosurgery (SRS) and stereotactic body radiation therapy (SBRT) are administered with an entirely noninvasive treatment procedure that uses sharply refined radiation beams focused on the small tumors within the brain, spinal cord, lung, liver or any other organs that contain tumors.

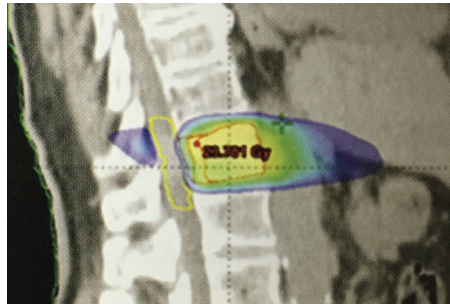
To perform radiosurgery and SBRT we use the latest technology called the Edge™ radiosurgery system. It delivers a sharply refined radiation beam treatment with respiratory gating and motion monitoring that assists precise tumor targeting using real-time image guidance.

Radiosurgery and SBRT are used for benign as well as malignant conditions. It can be a sole modality of treatment, and is often used together with surgery and chemotherapy. The treatment is performed by using complex computer algorithms for dose calculations, intricate radiation blocking mechanisms and real-time imaging tracking for target tumor localization.

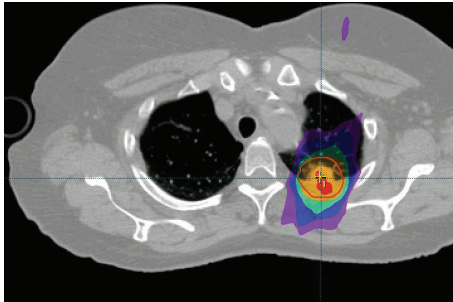
Examples of benign or malignant conditions treated with radiosurgery/SBRT shown here:



Brain tumor



Spine tumor

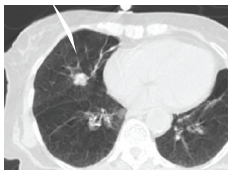


Lung cancer

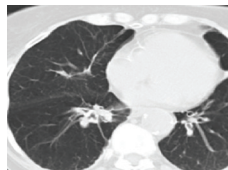


Liver cancer

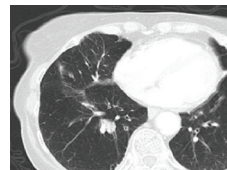
Stage 1 Lung Cancer



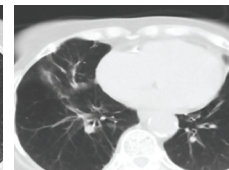
SBRT Treatment



After 3 months



After 8 months



After 2 years

Evaluation Process for Radiation Therapy

A Step-by-Step Guide for Our Patients

Consultation. You will meet with the radiation oncologist and nurse for an evaluation and to discuss treatment. You will be given detailed education about the treatment designed for your own care and treatment purpose.

Positioning, Tumor Localization and Tissue Mapping (Simulation). Proper positioning is important. Devices are used to keep your body in a comfortable and stable position during treatment. A localization Computed Tomography (CT) scan, often with dye or contrast, will be performed to get a three-dimensional picture of the tumor.

Computerized Treatment Planning. Digital images from the simulation, Magnetic Resonance Imaging (MRI), Positron Emission Tomography (PET), etc. allow the physician to mark the tumor area and the normal tissues. Dosimetrists and physicists will map out where the tissue is located and design a plan to optimize the radiation dose to treat the tumor.

Pre-treatment Quality Assurance (QA). Each individual treatment is unique. We perform an in-depth quality assurance check prior to the initial treatment to ensure that the accurate dose will be delivered as it was designed. Every computerized process is reviewed. Your safety is our top priority.

Verification Simulation (V-sim). This process is a trial run. You are placed in the actual treatment simulation position along with the immobilization devices to assure accuracy. Measurements will be checked and the beam arrangements will be assessed to make sure they match the treatment plan.

Treatment Delivery. Once you are positioned on the treatment table in the exact same location and position as the initial visit, a new image is taken in real-time so we can see the tumor. Once all safety checks are done, you will receive the treatment. Throughout the delivery of treatment, this state-of-the-art technology is used to maintain precise positioning and accurate targeting. The machines and technology we use are called Cone-Beam CT (CBCT), Optical Surface Monitoring System (OSMS), Respiratory Gating and the Calypso® (GPS) system.

Follow up and Surveillance. Throughout the course of treatment, the doctors and nurses check your status once a week or as needed. When treatments are complete, you will be scheduled for follow-up visits to monitor progress post-treatment and evaluate healing and tumor control.





Medical Oncology Treatments

- Oncology Patient Navigator
- Continuity care and management of treatment-related complications
- Palliative care team for prompt and smooth transition to symptom management
- Conventional cytotoxic chemotherapy
- Immunotherapy
- Concurrent chemotherapy with radiation
- Immunomodulators
- Blood transfusions
- Hormonal treatment
- Granulocyte colony-stimulating factor, EPO
- Access to clinical trials
- Co-management of patients with our oncologists for those visiting the East End but undergoing treatment elsewhere





Evaluation Process for Chemotherapy

What to Expect: A Step-by-Step Guide for Our Patients

Initial Evaluation and Consultation. You will meet with the medical oncologist and nurse for an evaluation and to discuss chemotherapy, immunotherapy or hormone therapy, etc. The doctor will discuss and tailor your treatment for personalized care. You will have detailed education about the treatment, including the potential side effects.

Preparing for Chemotherapy. You may need additional blood tests as a baseline, and you may also need a bone marrow biopsy to check your blood-forming capacity. Depending on the cancer type and chemotherapy drugs, an appointment will be arranged for a chemotherapy port to be placed under your chest skin.

Chemotherapy Delivery. Once you are fully prepared, you will start chemotherapy. It can vary from a simple injection to long duration infusion, depending on the drug, in multiple cycles. You will be on a cozy comfortable treatment couch with a TV and a large window. You can bring your own music or device. We will also provide snacks. Highly skilled experienced chemotherapy nurses will monitor your status constantly. There will be nurse practitioners and oncology physicians on-site.

Follow up and Surveillance. Throughout the course of treatments, the physician and nurse check your status. When treatments are complete, you will be scheduled for follow-up visits to monitor progress post-treatment and evaluate tumor control.

On-Site Pharmacy Dedicated to Cancer Therapy

- Access to all the clinical cancer treatments on-site, and clinical trials of phases I-III studies
- Able to provide antineoplastic medications that meet the highest standard criteria for administration, storage and handling on-site
- A specially trained chemotherapy pharmacist will check medicine dosing, drug interactions and provide counseling



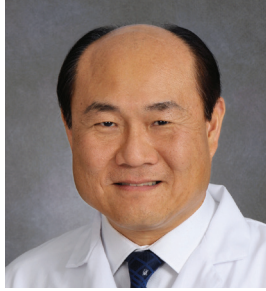
Clinical Trial Programs with Translational Research

Our clinical trials are tomorrow's cancer treatments that are being developed today. At The Phillips Family Cancer Center, you have access to:

- Leading-edge research, advanced treatments, and the latest clinical trials and technology.
- Specialty service lines with clinical trials dedicated to care and improving quality of life.
- A suitable clinical trial based on the status of your tumor and health, chosen by your physician with your consent.

As full members of the NRG (NSABP-RTOG-GOG) Cooperative Group, our researchers serve as national principle investigators on the clinical trials. We also participate in the Alliance Oncology and Eastern Cooperative Oncology Group.

The Phillips Family Cancer Center is fully integrated with Stony Brook Cancer Center for ongoing translational research studies on various tumors.



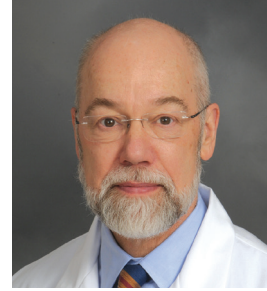
Samuel Ryu, MD
Professor, Director of
The Phillips Family
Cancer Center

- Brain Tumors (benign and malignant)
- Spinal Tumors
- Radiosurgery



Margarita Yarovikova, MD
Assistant Professor,
Medical Director of Oncology

- Breast Cancer
- Head and Neck, Lung Cancer
- Gastrointestinal Cancer
- Pancreatic Cancer
- Prostate Cancer
- Skin Cancer
- Benign and Malignant Hematology



Edward Valentine, MD, MBA
Assistant Professor,
Radiation Oncology

- Gynecological Cancer
- Lymphoma
- Breast Cancer
- Skin Cancer
- Soft Tissue Sarcoma
- HDR Brachytherapy



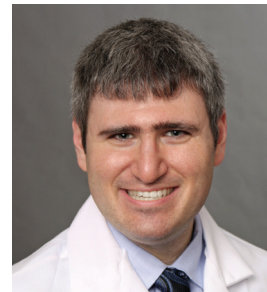
Mark Ashamalla, MD, PhD
Assistant Professor,
Radiation Oncology

- Breast Cancer
- Lung Cancer
- Gynecological Cancer
- Lymphoma
- Head and Neck Cancer
- Stereotactic Body Radiotherapy (SBRT)



Gabrielle Gossner, MD
Assistant Professor,
Gynecology Oncology

- Gynecology and Reproductive Medicine
- Specializing in Laparoscopic and Robotic Hysterectomy Surgery



Alexander Slade, MD, PhD
Assistant Professor,
Radiation Oncology

- Genitourinary Cancer
- Prostate Cancer
- Gastrointestinal
- Stereotactic Body Radiotherapy (SBRT)



Tracey Joost-Morea, MS, FNP-BC
Hematology/Oncology
Nurse Practitioner



Elena Morales, ANP-C
Hematology/Oncology
Nurse Practitioner



Laura Borghardt, MS, MBA, CMD
Director of Cancer Services,
Stony Brook
Southampton Hospital

- Administration/ Department Operations
- Patient and Family Advocacy
- External Relations

“We recognize cancer is a life-changing experience and we are committed to providing you with access to the highest level of care, advanced treatments, leading-edge research and the latest clinical trials.”

—Samuel Ryu, MD
Director, The Phillips Family Cancer Center

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phillipsfamilycancercenter.stonybrookmedicine.edu

For additional information or to make an appointment, call
(631) 638-7400.

