

Radixact TomoTherapy with MC Radiation Oncology Center at Nicklaus Children's main campus. MC Radiation Oncology center is offering on-site radiation therapy delivered by the most professional and compassionate cancer team. We are providing the latest state of the art radiation services, equipped with the latest technology called Radixact TomoTherapy and CT simulation for cancer patients of all ages.

For more information, go to our website <http://MCRadiationCenter.com/>

Enter on the 62 Avenue entrance and follow signs for the yellow parking lot. Park and go to the research building.



Call us at the number below if you have any questions.
MC Radiation Oncology Center at The Nicklaus Children's Hospital - Main Campus in the Research Building

Address

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COMMITTED TO FIGHTING CANCER

Cancer Treatment that Revolves Around You

The diagnosis of cancer can be overwhelming. MC Radiation Oncology along with your healthcare team are here to provide guidance from pre-screening, treatment through survivorship.

The TomoTherapy Radixact treatment delivery system design provides volumetric beam delivery. This customized design combined with next generation CT fusion imaging provides state of the art cancer treatment for patients.



MEET YOUR CANCER CARE EXPERTS

Dr. Michael David Smith is the Director of Radiation Oncology at MC Radiation Oncology, Nicklaus Children’s Hospital. Dr. Smith received his Doctorate in Medicine from Indiana University School of Medicine in Indianapolis, Indiana. He was a Resident in Radiation Oncology at Baylor College of Medicine in Houston, Texas. From there he was appointed as Assistant Professor of Radiation Oncology on the faculty at Vanderbilt University in Nashville Tennessee. While at Vanderbilt, Dr. Smith contributed to the design and performance of several nationwide clinical trials involving several different cancer types. At NCH, Dr. Smith is an active member of the Tumor Board and participates in the design of cancer therapy specifically, utilizing the “whole person” approach. Dr. Smith has vast experience with Lung cancer, Colo-Rectal cancer and Brachytherapy. Dr. Smith is well versed in Accelerated Partial Breast Radiotherapy as well as Prostate Brachytherapy. Dr. Smith is board certified in Radiation Oncology by the American board of Radiology.

While not practicing medicine, Dr. Smith is an avid Scuba Diver and enjoys collecting antique Medical books and equipment.

Radixact TomoTherapy is the first treatment delivery system to provide highly conformal plans while sparing healthy tissues

Image guided, intensity modulated radiation therapy (IG-IMRT), featuring best-in-class clinical workflows and highly conformal treatments enabled by a unique ultra-fast multi-leaf collimator (MLC). The Radixact® System shapes radiation to the tumor while sparing normal, healthy tissue.

State of the art treatment provided to the community on the campus of Nicklaus Children’s Hospital (NCH).

- 1. Same day consultation appointments and second opinions available.
- 2. We offer the latest TomoTherapy Radixact technology.
- 3. MC Radiation Oncology is a center of excellence providing patients with flexibility for scheduling appointments, while providing unrelenting patient care.
- 4. We offer versatile radiation treatments. Efficient delivery system with the highest standard of care. Aggressively treating cancer, while minimizing side effects as a result of its submillimeter precision. Radixact system enables physicians to deliver precise, non-invasive treatment while minimizing overall toxicity hence, improving patients quality of life.
- 5. MC Radiation Oncology center provides financial assistance.



MORE VERSATILE

Full-Body Radiotherapy — from Simple to Complex Cases
Flexibility to treat virtually any indication — from the simplest to the most complex — on a single workhorse platform.



MORE EFFICIENT

Deliver the Highest Standard of Care to More Patients
Smart integration and automation accelerates treatment planning, while a high-output linear accelerator speeds treatment delivery.



MORE EFFECTIVE

Aggressively Treat and Adapt for Fewer Side Effects
Best-in-class image-guided, intensity-modulated treatments, combined with easy to use adaptive planning result in the most personalized care to maximize dose to the target and spare healthy tissue.

RADIATION THERAPY

Radiation therapy uses a special type of very high-energy X-rays to destroy cancer cells and shrink tumors. In order to give the patient the most effective treatment options. MC Radiation Oncology Center offers a complete array of radiation oncology services using long established conventional approaches to the the most robust methods available. We consider the advantage of every treatment device and technique when deciding on the optimal treatment approach for each patient. We select treatment delivery options that target tumors precisely. Optimal and precise treatment plans afford impact, while minimizing damage to critical structures and healthy tissue. As mentioned above, radiation therapy for cancer uses high-energy Xray beams, so our patients will feel no pain during treatment. Although the therapy is generally not painful, the equipment used during planning and treatment can be scary to some. Our health care team will provide a safe and comfortable experience throughout your treatment.

In order to provide the safest and most effective treatment, radiation therapy is delivered in many small doses over a period of time. Most patients require brief treatment sessions five days a week for several weeks.

Comprehensive Programs and Services

After an initial consultation with the radiation oncologist, he will consider the device and technique when deciding on the optimal with treatment approach for each patient.

Some highlights of our radiation oncology services include: (All of these will be Hyperlinks to a site with information about the service)

- Precise Treatment Planning <https://www.accuray.com/software/precision-treatment-planning/>
- Image-guided Radiotherapy (IGRT) using Tomotherapy Radixact <https://www.accuray.com/radixact/>
- Intensity Modulated Radiation Therapy (IMRT) <https://www.accuray.com/resources/radixact-system-uzb/>
- Stereotactic Body Radiation Therapy (SBRT) https://www.accuray.com/radixact/radixact-resources/?sf_paged=2

Care Team

Our patients benefit from a multidisciplinary approach that combines the expertise of Multispecialty groups working together to provide quality care.

In addition to radiation oncologist Michael Smith, MD, other members of the care team include:

- Radiation Oncology Nurse
- Medical Radiation Physicist
- Dosimetrists
- Radiation Therapists
- Admissions & Billing
- And other healthcare professionals



WHAT ARE THE ADVANTAGES OF RADIXACT™ TOMOTHERAPY TREATMENT?

Treats a Wide Range of Cancers – Image-guided radiation therapy (IGRT) combines CT imaging and radiation delivery into a single device. This unique design makes TomoTherapy a viable option for treating a wide range of cancers, including recurrent diseases in patients who’ve already received maximum radiation doses to critical organs.

Customized Treatments – Customized treatment plans can be monitored and modified during the course of treatment.

Minimized Radiation Doses – Minimized radiation doses to surrounding healthy tissue can result in reduced treatment-related side effects and improves our patients’ quality of life.

Ability to Treat Multiple Tumors – Simultaneous treatment of multiple tumors is possible, which means reduced treatment time and greater comfort for our patients.

Noninvasive and Painless Treatment – TomoTherapy treatment is noninvasive and as painless as having a CT scan or an x-ray.



Benefits include:

- Leading-edge technology for individualized patient care
- Radixact system enables physicians to deliver precise, non-invasive treatment while minimizing overall toxicity hence, improving patients quality of life.
- Multidisciplinary approach to treating cancer in a personalized and compassionate environment

WHAT RADIXACT™ TOMOTHERAPY TREATS

A List of the Most Common Conditions Treatable with Radixact™ TomoTherapy



Breast

- Breast Cancer



Prostate/Pelvic

- Prostate cancer
- Colorectal cancer



Head and Neck

- Esophagus
- Head and neck cancers
- Brain cancer
- Spinal tumors



Lung

- Early stage Lung cancer
- Recurring Lung cancer
- Metastatic Lung tumors