

MEET McLAREN

PROTON THERAPY



PART OF THE KARMANOS CANCER NETWORK

The McLaren Proton Therapy Center is part of the Karmanos Cancer Network, the largest cancer research and provider network in the state with 16 treatment locations throughout Michigan and Ohio. Karmanos Cancer Institute, headquartered in Detroit, is a McLaren Health Care subsidiary, and a National Cancer Institute (NCI)-designated comprehensive cancer center. McLaren Proton Therapy Center radiation oncologists work closely with Karmanos physicians to find the best treatment options for each patient.

CONTINUITY OF CARE FOR PATIENTS

Our board-certified radiation oncologists welcome your calls to evaluate if proton therapy is the best treatment option for a patient.

Patient Referrals (855) 697-7686

Fax (810) 342-4229

Referral forms also available at mclaren.org/protontherapy

CANCERS TREATED BY PROTON THERAPY

Proton therapy most often treats solid tumors in sensitive areas where conventional therapy may not be the best option. This includes tumors that are close to critical structures, difficult to treat cancers, and recurrent cancer after receiving previous radiation. Proton therapy is not a more superior option for all cancers, but is applicable to treat certain cancers, including:

- Bladder Cancer
- Brain and Central Nervous System Cancer
- Breast Cancer
- Esophageal Cancer
- Select Gastrointestinal Cancer
- Select Gynecological Cancer
- Head, Neck, and Skull Base Cancer
- Kidney Cancer
- Liver Cancer
- Lung and Thorax Cancer
- Lymphoma
- Pancreatic Cancer
- Pediatric, Adolescent, and Young Adult Cancer
- Prostate Cancer
- Sarcoma
- Spine and Chest Wall Cancer
- Recurrent Disease

OUR PHYSICIANS



**Hesham
Gayar, MD**

Medical Director
McLaren Proton
Therapy Center



**Hani
Al Halabi, MD**



**Omar
Gayar, MD**



**Brooke
Spencer, MD**



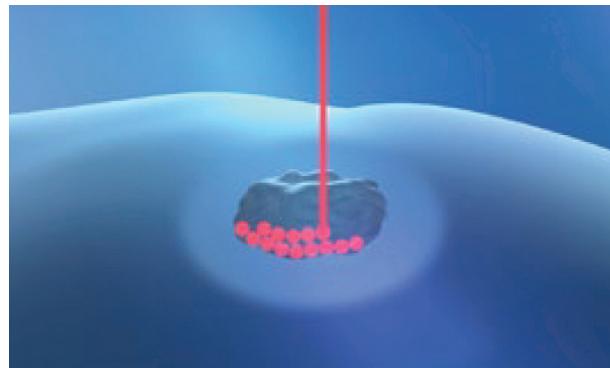
**Brian
Yeh, MD**

PROTON THERAPY IS NON-INVASIVE

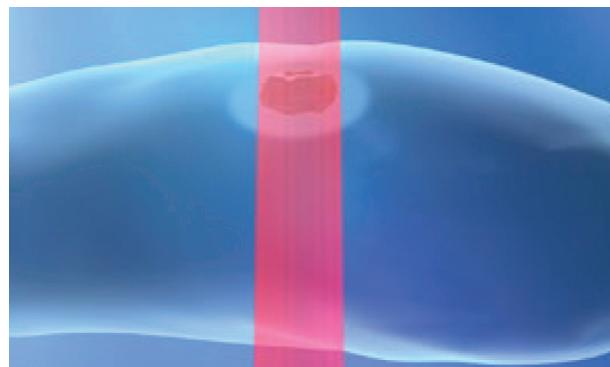
Proton therapy is the most advanced radiation cancer treatment available. When treated with proton therapy, patients are expected to experience fewer side effects and complications compared to conventional radiation. This is due to the precise delivery of radiation to the targeted tumor while irradiating less healthy tissues surrounding the cancer. The images to the right illustrate the benefits of proton therapy (top) in sparing healthy tissues compared to traditional X-ray (photon) therapy (bottom).

CLINICAL TRIALS

Patients at the McLaren Proton Therapy Center have access to treatments offered by Karmanos Cancer Institute, as well as clinical trials, cancer prevention programs, and multidisciplinary teams of cancer specialists. Karmanos is recognized as a national leader in research, advanced treatments, and the latest types of therapy. Patients at McLaren Proton Therapy Center may also participate in national clinical trials through the Proton Collaborative Group (PCG). PCG's primary mission is to improve the survival outcomes and quality of life of cancer patients.



Proton Therapy (produces no exit dose)



Traditional X-ray (produces an exit dose)

The above images illustrate the benefits of proton therapy in sparing healthy tissue compared to traditional X-ray therapy. Proton therapy deposits a high dose of radiation at the tumor and stops; this eliminates any "exit dose" of radiation, therefore reducing the risk of side effects.

THE HOSPITALITY HOUSE AT MCLAREN FLINT

Located adjacent to McLaren Proton Therapy Center, the Hospitality House at McLaren Flint provides comfortable, extended-stay housing at minimal to no cost for patients and their families. The House offers activities, programs, quiet spaces and an array of amenities.

Learn more at mclaren.org/hospitalityhouse

