

Surgical Oncology

Surgical cancer treatment options



BARBARA ANN
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AT OUR KARMANOS CANCER INSTITUTE

in Flint, we use a multidisciplinary approach for the treatment of cancer, customizing a personalized treatment plan to suit each patient's need after active consultation of all the care providers. A significant proportion of our cancer patients will undergo surgery, either by itself or in combination with other therapies. Our fellowship trained surgical oncologists are at the forefront of cancer treatment utilizing innovative techniques, technology and clinical advances to provide the highest standards of cancer care for our patients in the region.



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OUR SURGICAL ONCOLOGISTS OFFER TREATMENT OPTIONS FOR A VARIETY OF CANCERS INCLUDING:

- Breast
- Endocrine
 - Adrenal cancer
 - Parathyroid tumor
 - Thyroid tumor
- Gastrointestinal
 - Ampullary and periampullary cancers
 - Anal Cancer
 - Appendix Cancer
 - Bile Duct Cancer
 - Cholangiocarcinoma
 - Colon Cancer
 - Esophageal cancer
 - Gall Bladder Cancer
 - Gastroesophageal Junction (GEJ)
 - Gastrointestinal Stromal Tumors (GIST)
 - Gastric cancer
 - Pancreatic cancer
 - Liver cancer
 - Rectal cancer
 - Small Intestine Cancer
- Melanoma
- Merkel Cell Carcinoma
- Neuroendocrine
 - Carcinoid tumor
 - Pancreatic neuroendocrine tumor (PNET)
- Peritoneum
 - Psuedomyxoma peritonii (DPAM)
 - Mesothelioma
 - Ovarian Cancer
- Sarcoma

Surgery

Surgery plays a very important role in the care of patients affected with cancer. It is utilized not only as the means to achieve complete cure in some patients, but also for initial diagnosis, staging of the disease, support during treatment such as feeding tubes, chemotherapy ports, radiation guides and seeds, and palliation. Most patients with cancer will require some type of surgery during the course of their care.

The primary focus of our surgical oncologists is to offer the greatest chance for a complete removal of the tumor(s). They work in consultation with other cancer treatment experts to maximize the potential for cure. With recent advances in surgical techniques, our surgeons are now able to operate on a growing number of patients and have good outcomes.



MINIMALLY INVASIVE TECHNIQUES

Minimally invasive techniques such as endoscopic, laparoscopic and robotic surgery are used to remove tumors while saving as much normal tissue and function as possible. This is beneficial for our patients as it results in smaller incisions as compared to traditional open surgery, less pain, less scarring, shorter hospital stays and faster recovery times. Some of these procedures offered by surgical oncologists include:

- Adrenalectomy (removal of adrenal gland tumors)
- Esophagectomy (removal of esophagus)
- Entrectomy (removal of small intestine)
- Gastrectomy (removal of stomach)
- GE junction tumors (removal of tumors at the GE junction)
- Pancreatectomy (removal of pancreas)
- Hepatectomy (removal of liver)
- Colectomy (removal of colon)
- Proctectomy (removal of rectum)
- Thyroidectomy (removal of thyroid)
- Parathyroidectomy (removal of parathyroid gland)

Specialized treatments

REGIONAL THERAPY:

For some patients with advanced cancers, when traditional chemotherapy or surgery ceases to be a good option, regional chemotherapy can sometimes help extend and improve quality of life. At Karmanos Cancer Institute, we offer regional treatments including:

- ❖ **HIPEC** - Hyperthermic Intraperitoneal Chemotherapy (HIPEC) is targeted treatment for cancer involving the lining of the abdominal cavity, also known as peritoneal carcinomatosis. This condition can arise from cancer of the appendix, colon, ovaries and mesothelioma of the peritoneum. Although this has been a difficult area to treat in the past, HIPEC is advancing the outcomes for many patients.

HIPEC is the second of a two-part treatment. After cytoreductive surgery is performed to remove all tumors visible and within reach, surgeons administer the HIPEC therapy by bathing the abdominal cavity with a heated chemotherapy solution. This surgical procedure enables the solution to be administered directly to the affected area, bypassing the drug's effects to the bloodstream and the rest of the body.
- ❖ **ILI/ILP** - Isolated Limb infusion/Isolated Limb Perfusion (ILI/ILP) are specialized forms of regional treatment for in-transit melanoma and unresectable extremity sarcoma. Because these conditions can involve multiple tumor nodules or adjacent structures, surgery ceases to be a viable treatment option. ILI/ ILP allows delivery

of high dose chemotherapy directly to the tumor sites, which can significantly improve response rates in some patients.

- **Ablation** – Ablative treatments use heat or cold to destroy and ablate tumors without the need for more extensive surgeries. Ablative treatments are delivered directly to the tumor site(s) through special probes. Using ultrasound imaging, the surgeon guides the probes to the correct position and monitors the progress of treatment. In addition to treating cancer, ablative therapies have advantages including:
 - Minimal pain
 - Shorter recovery time than traditional surgery or radiation therapy
 - Can be used in conjunction with other cancer treatments
 - Can be easily repeated if necessary

We offer both Radiofrequency ablation (RFA) and Microwave Ablation at Karmanos Cancer Institute in Flint.

- **TACE and Y-90** – Transarterial Chemoembolization (TACE) and Yttrium radioembolization (Y-90) are targeted treatments aimed at certain unresectable neuroendocrine tumors or tumors arising from the colon that have spread to the liver and for primary cancer of the liver that is not resectable. These procedures utilize small image-guided catheter to deliver chemotherapy or radiation beads directly to the tumor bed in the liver.

MULTIDISCIPLINARY APPROACH TO CANCER CARE

Given our strong interest in providing a comprehensive approach to cancer care, we believe that a healthy diet and body can enhance recovery and help reduce stress. All our patients are offered and have access to our dieticians and therapists. At Karmanos Cancer Institute at McLaren Flint, we also offer art therapy, yoga and meditation to our patients. We believe in empowering our patients with all complementary and educational resources to allow them in becoming active participants in their health and healing.

For a current listing of our complementary therapy programs, visit mclaren.org/flintcancer or ask a Cancer Institute staff member.





TOLUTOPE OYASIJ, MD, MRCSI

Dr. Tolutope Oyasiji is a board certified general surgeon and fellowship trained surgical oncologist.

He earned his medical degree from the University of Ibadan, Nigeria. He completed residency in general surgery at the Royal College of Surgeons in Ireland and the Yale New Haven Hospital of the Yale University School of Medicine, New Haven, Connecticut. He, then, proceeded to complete fellowship training in complex general surgical oncology at the Roswell Park Cancer Institute, Buffalo, New York.

Dr. Oyasiji's clinical and research interests include malignancies of the gastrointestinal tract (esophageal, gastric, pancreatic, gall bladder, biliary tract, liver, small intestine, colon and rectum), soft tissue malignancies (melanoma and sarcoma), peritoneal malignancies, endocrine (thyroid and parathyroid), breast malignancies and regional therapy (HIPEC, isolated limb infusion and perfusion). He utilizes minimally invasive approach, ranging from laparoscopic to robotic surgery. He emphasizes compassionate, empathetic and comprehensive approach to the management of cancer in a scientific and evidence-based manner.

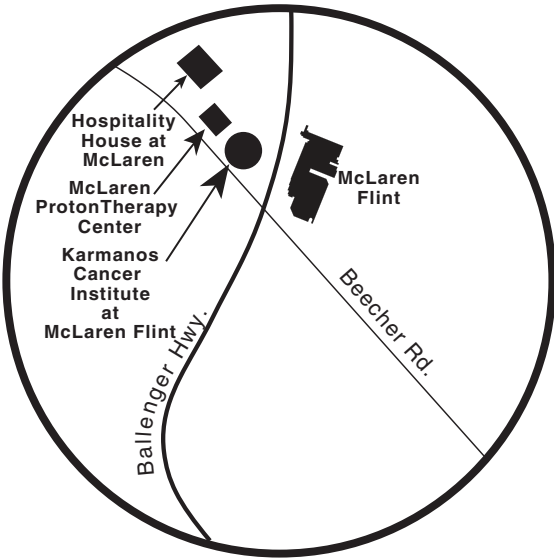


SMIT SINGLA, MD, MRCSEd, MSc

Dr. Smit Singla is a fellowship trained surgical oncologist. He completed a fellowship in complex general surgical oncology at Roswell Park Cancer Institute in Buffalo. He completed his general surgery residency training from Temple University Hospital in Philadelphia and The Royal College of Surgeons of Edinburgh, United Kingdom. During his training, he spent two years doing a research fellowship in surgical oncology at the University of Pennsylvania in Philadelphia. He earned his medical degree from the Government Medical College Patiala, India, and graduate degree from Cardiff University in the United Kingdom.

His clinical interests include malignancies of the gastrointestinal tract including esophageal, gastric, pancreatic, liver, small intestine, colon, melanoma, sarcoma, thyroid and breast. He believes in minimally invasive approach to surgical procedures including laparoscopic and robotic surgery.

His interests also include regional therapies including hyperthermic intraperitoneal chemotherapy (HIPEC) for peritoneal diseases and isolated limb infusion for in-transit melanoma and extremity sarcoma and research on treatment of neuroendocrine tumors and surgical quality outcomes and initiatives.



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Wayne State University

4100 Beecher Road · Flint, MI 48532

Phone: (810) 342-3801

Fax: (810) 342-3856

mclaren.org/flintcancersurgery