

Advancing Health

A CASE STUDY from MedStar Washington Hospital Center

Cancer-Free After Extensive Peritoneal Metastases: **Cytoreduction with HIPEC**

Chukwuemeka Ihemelandu, MD, FACS

Washington Cancer Institute at MedStar Washington Hospital Center

Abstract

An otherwise healthy 59-year-old man was diagnosed with colon cancer and extensive peritoneal metastases. Despite his advanced disease, the patient was able to undergo a combination of cytoreductive surgery and Hyperthermic Intraperitoneal Chemotherapy (HIPEC), in which all visible tumors are removed and the abdominal cavity is treated with heated chemotherapy for 90 minutes. Today, the patient is cancer-free.

CASE STUDY

Cytoreduction with HIPEC

Hospital #1

Patient Presentation

- 59-year-old male presented to a local hospital with rectal bleeding, nausea, vomiting and abdominal pain that had persisted for one month.
- No past medical or surgical history.

Assessment

- CT revealed some inflammation in the area of the splenic flexure (suggestive of a mass) with an elevated level of CEA (cardinoembryonic antigen).
- Colonoscopy revealed a large polypoid, non-obstructing mass in the splenic flexure.
- During an elective laparoscopic resection of the mass, the patient was found to have more extensive disease, with peritoneal metastases, invasion into the fourth portion of the duodenum, and a 1-cm lesion on the right lobe of the liver edge.
- The procedure was aborted and the patient was referred to the peritoneal surface oncology program at MedStar Washington Hospital Center.

Hospital #2:

MedStar Washington Hospital Center Procedure

- The patient underwent a cytoreduction with heated intraperitoneal chemotherapy (HIPEC) which involved: excision of

abdominal wall tumor, enterectomy (small bowel resection), mobilization of the splenic flexure with partial colectomy, omentectomy, wedge resection of liver lesion, and hyperthermic intraperitoneal chemotherapy for 90 minutes. The abdominal cavity was perfused with mitomycin C and doxorubicin and 5FU/leucovorin was given intravenously.

Results/Outcomes

- The patient was discharged on post-operative day 12. Pathology revealed a T4N2M1 moderately differentiated invasive adenocarcinoma of the left colon. The patient went on to receive adjuvant chemotherapy. The patient is now cancer free and has resumed his active life style.

Conclusion

- Patients with peritoneal metastases from colorectal and other cancers show favorable results when managed with a combination of cytoreductive surgery and HIPEC.
- Patients with high-grade tumors, at risk of developing peritoneal metastases, can be managed with prophylactic cytoreductive surgery and HIPEC to decrease the risk of recurrent disease in the future.



"This innovative and complex approach to advanced intra-abdominal malignancies has remarkable survival outcomes. Our peritoneal surface malignancy program is the first and most experienced in the United States, offering hope and revolutionizing treatment for many patients."

Chukwuemeka Ihemelandu, MD, FACS

Surgical Oncology at MedStar Washington Hospital Center

MedStar Washington Hospital Center's surgical oncology team is widely recognized for its clinical and research leadership in the treatment of advanced intra-abdominal cancers. Using innovative surgical techniques and intra-operative heated chemotherapy, our surgeons have been able to significantly improve outcomes for patients, even those with advanced disease and metastases.

Washington Cancer Institute at MedStar Washington Hospital Center is a state-of-the-art facility, featuring some of the most sophisticated diagnostic and treatment technologies in the country. Each year, we diagnose more than 2,300 new cases of cancer, more than any other cancer center in the Washington, D.C. area.

Non-Profit
Organization
U.S. Postage

PAID

MedStar Washington
Hospital Center



MedStar Washington Hospital Center
110 Irving Street, NW, EB 7118
Washington, DC 20010

MedStar Washington Hospital Center
110 Irving St., NW,
Washington, DC 20010

To schedule an informational visit to your office or for a patient consultation, please call Dr. Ihemelandu directly at **202-877-4599** or visit **MedStarWashington.org**.

MedStar Washington Hospital Center is a 926-bed, major teaching and research hospital. It is the largest private, not-for-profit hospital in the nation's capital, among the 100 largest hospitals in the nation and a major referral center for treating the most complex cases.

