



# LARGE BOWEL OBSTRUCTION DUE TO MALIGNANT MASS WITH INGUINAL HERNIA: A CASE REPORT

AtlantiCare

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## Introduction:

Inguinal hernias vary in size and contents, but in some cases, they can be significantly large. There have been few reports of giant inguinoscrotal hernias containing colon adenocarcinoma. This case report serves to present a rare case of sigmoid colon adenocarcinoma in a giant inguinoscrotal hernia causing large bowel obstruction. As of 2018, there were less than 40 such cases reported.

## Case Presentation:

70-year-old male with PMH of polycystic kidney disease presented with abdominal distension, decreased appetite, diarrhea, and significant weight loss. Physical examination demonstrated a large left inguinal hernia with a firm mass in the inferior portion of the hernia. Imaging demonstrated sigmoid colon mass present in the scrotum due to large left inguinal hernia (Figure 1, 2). The patient underwent an exploratory laparotomy with findings of massive dilation of the left inguinal hernia containing a loop of sigmoid colon with a palpable mass in the scrotum. The hernia was reduced into the abdomen, and an open sigmoid resection with high ligation of the IMA pedicle was performed, followed by a left inguinal hernia repair with mesh. The mesh was sutured to Cooper's ligament and the peritoneal flap was closed to cover the mesh. An end colostomy was created in the left lower quadrant. The patient did well and was discharged home on postoperative day 7.



Figure 1

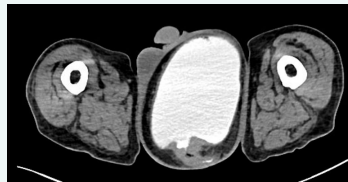


Figure 2

## Pathology:

Invasive colonic adenocarcinoma, moderately differentiated, 5.3 cm in greatest dimension, extending into pericolic soft tissue involving 1/14 lymph nodes, with two soft tissue tumor deposits. Stage 3 pT3pN1a with intact nuclear expression of MMR proteins MLH1, MSH2, MSH6, and PMS2.

## Discussion:

This case emphasizes the importance of maintaining high clinical suspicion for malignancy in patients with concerning symptoms. As this case is rare, there is no treatment algorithm marking the importance of individualized multidisciplinary management. Further investigation into similar cases of colon cancer within inguinal hernias and their diagnosis, surgical approach, and oncologic and long-term outcomes would provide insight to this population and help guide future management.

## References:

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