A rare cause of intestinal obstruction: ileal squamous cell carcinoma - a case report

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Abstract

Introduction: Small bowel obstruction caused by metastatic lesion from other primary cancer is a rare event. The most common types of tumor metastasizing to the small bowel are malignant melanoma, carcinoma from lung, breast, and ovary, and choriocarcinoma Idelevich et al. reviewed the literature and found that between 1988 and 2005, only 36 cases have been reported. Interestingly, the most common primary cancer in these cases was lobular breast carcinoma (47%), followed by lung cancer (11%) and malignant melanoma (8%), most of which are adenocarcinoma. Rarely however, does it selectively affect the small bowel in the form of an isolated metastatic stricture. We are reporting such a case of terminal ileum obstruction due to metastatic deposit of invasive cervical squamous cell carcinoma, 8 months after total abdominal hysterectomy, emphasizing role of meticulous searching of lymph nodes during surgery of cervical carcinoma to avoid such fatal complication.

Keywords: Squamous cell carcinoma, Ileum, Obstruction.

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INTRODUCTION

Small bowel obstruction caused by metastatic lesion from other primary cancer is a rare event. The most common types of tumor metastasizing to the small bowel are malignant melanoma. Idelevich et al. reviewed the literature and found that between 1988 and 2005; only 36 cases have been reported. Interestingly, the most common primary cancer in these cases was lobular breast carcinoma (47%), followed by lung cancer (11%) and malignant melanoma (8%), most of which are adenocarcinoma. Rarely however, it selectively affect the small bowel in the form of an isolated metastatic stricture. We are reporting such a case of a metastatic stricture of the terminal ileum originating from cervical carcinoma which is squamous cell carcinoma in nature.

CASE REPORT

43 year old female presented with symptoms of chronic intestinal obstruction for last 3 months with a past history of invasive cervical carcinoma for which she had undergone total abdominal hysterectomy 8 months back. On admission she was severely dehydrated with tachycardia absent bowel sound and electrolyte disbalance. Patient was planned for immediate surgery. On exploration, she was found to have an impassable single stricture in the terminal ileum. The bowel proximal to the stricture was dilated. Mesentric lymph nodes found to be enlarged adjacent to that. There was no evidence of visceral metastasis, peritoneal seedlings or ascites. A right hemicolecotomy was performed and received in our department along with enlarged mesentric lymph nodes. Grossly, there was a hard mass (2cm X 3cm) just proximal to ileocecal junction almost impassable, causing a single stricture in ileum, with dilatation of lumen proximal to that with ileal wall thinning and blackish staining, along with attached enlarged mesentric lymph node (figure: 1). On histopathological evaluation it is evident that mucosal folds are normal with normal glandular configuration, but submucosal area shows pleomorphic malignant squamous cells in sheets and clusters with abundant eosinophilic cytoplasm.(figure:2) Mitotic count was high in the clusters of tumor cells. There was metastatic deposit of squamous cell carcinoma in mesenteric lymph lodes and vascular invasion evident at places (figure 3A and 3B) favouring possibility of hematogenous and lymphatic spread of tumor.

DISCUSSION

Secondary involvement of the small intestine in the malignant disease is rare and seen almost always as a part of the generalized spread with multiple seedlings in the peritoneal cavity and frequently with ascites. Rarely, the secondary tumor of the ileum may be a solitary nodule. DeCastro et al., in 1957, reported 26 cases of solitary metastatic nodules of the small bowel. Farmer and Hawk, found only 14 cases of discrete lesions of the small bowel in a series of 87 metastatic carcinoma patients. Idelevich et al., reviewed the literature and found that between 1988 and 2005, only 36 such cases have been reported. Interestingly, the most common three primary cancer in these cases was lobular breast carcinoma (47%), followed by lung cancer patient may present with perforation of the bowel or hemorrhage from the lesion. Diagnosis of intestinal obstruction due to a metastasis should be suspected if, in addition, there are symptoms pertaining to a primary lesion or if the patient gives a history of having received treatment for a primary malignancy in the past. Treatment is essentially in the form of either a palliative intestinal resection or a bypass surgery to relieve intestinal obstruction as done in the present case.

CONCLUSION

Though rare, it is necessary to keep in consideration that cervical carcinoma may metastasize to small intestine through retrograde lymph node spreading, peritoneal seeding, as observed in this case. For this meticulous search of lymph nodes is needed during surgery and depending on that, post operative chemotherapy or radiotherapy should be considered to prevent future fatal complications.

REFERENCES


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