Abdominal Pain due to Primary Malignant Melanoma of the Small Intestine

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ABSTRACT: To describe a patient presented with abdominal pain due to primary malignant melanoma of the small intestine. A 73-yr-old presented with anorexia, weight loss, colicky abdominal pain. Upper GI tract endoscopic and colonoscopic findings were normal. CT scan of the abdomen revealed a solid tumor, possibly originating from the distal jejunal segments as diffuse thickening of the intestinal wall, dilatation of the proximal segments of the intestine and mesenteric lymph node enlargement. Exploration laparotomy revealed a solid tumor, causing invagination, 4x3 cm. in size, approximately 60 cm. from the treitz. Histopathological examination of the resected specimen made the diagnosis of malignant melanoma. The search for the primary site was negative. After the wide excision of the tumor and mesenteric lymph nodes, six months after the operation the patient remains well. Primary malignant melanoma of the small intestine is a rare condition that surgical intervention give the best chance for effective palliation and disease-free survival.

KEY WORDS: Primary malignant melanoma, small intestine.

Introduction: Malignant melanoma is one of the most common neoplasms. However, primary noncutaneous melanoma is a rare entity and is most often described in ocular, mucosal and leptomeningeal sites1. Malignant melanomas constitute approximately 1%-3% of all malignant tumors of the gastrointestinal tract and metastatic lesions are more common than primary tumors2,3. Herein, we report the very unusual case of a primary malignant melanoma of the small bowel in a old patient.

Case: A 73-yr-old woman admitted with 1 month history of colicky abdominal pain, anorexia, weight loss and clinically detoration for 1 week prior to hospital admission because of vomitting, prominent abdominal distation and loss of defecation. Physical examination revealed paleness, abdominal distation and tenderness. Laboratory results were with in the normal range except for a moderate hypochromic-microcytic anemia and prerenal azotemia. Upper GI tract endoscopic and colonoscopic findings were normal. CT scan of the abdomen revealed a solid tumor, possibly originating from the distal jejunal segments as diffuse thickening of the intestinal wall, dilatation of the proximal segments of the intestine and mesenteric lymph node enlargement. Exploration laparotomy revealed a solid tumor, causing invagination, 4x3 cm. in size, ulcerating-vagetan, approximately 60 cm.
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from the treitz. Enlarged mesenteric lymph nodes were identified. Examination of the abdominal cavity revealed no macroscopic evidence of metastasis. Wide excision of the tumor, mesenteric lymph node dissection and an end-to-end anastomosis was performed. Histopathologic examination of the specimen showed a neoplastic lesion; melanocytic cells in the basal layer of the epithelium showing pagetoid extension with marked cytologic atypia with large eosinophilic nucleoli, abundant mitotic figures, melanin containing cytoplasmic granules and positive immunohistochemical staining for S-100 and HMB-45. Histopathologic findings established a diagnosis of malignant melanoma. Clinical and laboratory examination to exclude the presence of primary cutaneous, ocular or a melanoma in any other site was negative. The lesion was determined as primary malignant melanoma of the small intestine. six months after the operation the patient remains well.

**Discussion:** Small intestine involvement by malignant melanoma is most frequently metastatic and primary origin at this site is presented as case reports. There is no specific symptom related with the primary malignant melanoma of the small intestine and the clinical presentation is similar to that of other primary tumors of the small intestine; abdominal pain (%62), hemorrhage (%50), nausea and vomiting (%26), mass (%22), intestinal obstruction (%18). Primary intestinal melanoma seems to be associated with a worse prognosis and a more aggressive behaviour due to rapidly growth for a rich vascular and lymphatic supply of the intestinal mucosa respect to metastatic one. Although the small and large intestines normally contain no melanocytes, these cells have been occasionally found in the alimentary and respiratory tracts and even in lymph nodes. Melanomas of the small bowel are thought to originate from melanoblastic cells of the neural crest, which migrate to the distal ileum through the umbilical mesenteric canal. Blecker et al. propose the following criteria for a diagnosis of primary melanoma of small bowel: presence of a solitary mucosal lesion in the intestinal epithelium, absence of melanoma or atypical melanocytic lesions of the skin and presence of intramucosal melanocytic lesions in the overlying or adjacent intestinal epithelium. Primary malign melanoma of the intestinal tract are the absence of a previous or synchronously melanom and the absence of metastatic spread to other organs.

Diagnostic tools are endoscopic evaluation, unreliable CT scanning with estimated sensitivity approximately 60-70, an unreliable diagnostic tool, enteroclysis, can be used either. Surgical resection with wide margins is the treatment of choice. Chemotherapeutic agents including interferon α, cytokines, biological agents and radiation therapy for brain metastases are adjuvant and palliative therapies for malignant melanoma.

Prognosis depends on the existance of metastases at the time of diagnosis and the primary malignant melanoma subset; younger patients, aggressive disease with rapid metastases and very poor prognosis; older patients indolent disease with less rapid metastases. Early stages, primary malignant melanoma are usually asymptomatic and diagnosis is delayed. The occurence of potantially life threatening complication are such as intestinal intussusception, obstruction, bleeding or perforation which is presented in different cases.

In conclusion; primary malignant melanoma of the small intestine is a rare neoplastic lesion of the gut that appropriate diagnosis can only made after exculusion of a coexisting primary lesion elsewhere, metastatic spread to other organs, presence of intramucosal lesion of the overlying or adjacent intestinal mucosa.
REFERENCES


