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Sarcomatoid carcinoma of the jejunum with gastric metastases: A case report and review of the literature

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ABSTRACT

INTRODUCTION: Sarcomatoid carcinoma (SCA) of jejunum is an extremely rare condition. To our knowledge, only 17 cases have been reported in the literature.

PRESENTATION: We introduced an additional case of the sarcomatoid carcinoma of jejunum in a 62-year-old Chinese male who presented with epigastric pain for 3 weeks. Multiple tumors originated in the jejunum and metastases to mesentery lymph nodes and distal stomach were found during the laparotomy. The patient underwent palliative resection of the tumors. He died 11 days after the operation.

DISCUSSION: Sarcomatoid carcinoma (SCA) of jejunum is an extremely poor prognostic tumor in human being. The diagnosis of SCA was based on pathological observations and immunohistochemical staining. There is no official treatment guideline for SCA, but wide excision including the tumor is the main goal of treatment.

CONCLUSION: This is the first case of sarcomatoid carcinoma of jejunum with gastric metastases being reported and also the shortest survival period after the operation. Surgery is the cornerstones of treatment but the ideal means is still unknown due to the short survival and inadequate reports.

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1. Introduction

Sarcomatoid carcinoma (SCA) of jejunum is an extremely rare biphasic tumor characterized by a combination of malignant epithelial and mesenchymal cells [1–3]. Carcinosarcoma, pleomorphic carcinoma and anaplastic giant-cell carcinoma have been previously used to describe this kind of tumor. Nowadays, SCA became the most accepted term used in diagnostic surgical reports [2,3]. To our knowledge, only 17 cases of primary SCA of the jejunum have been reported in the literature to date [4]. The tumor is known to be more malignant than other small intestine cancers [5], and patients with this disease have a significantly worse prognosis due to the tumor's metastatic nature and aggressive clinical course. We report an additional case (18th case) of primary SCA of the jejunum in a 60-year-old Chinese male. He received laparotomy and palliative resection of the tumors. However, he died 11 days after the operation.

2. Case presentation

A 60-year-old Chinese male with no medical morbidity in the past presented with epigastric pain for three weeks. He was a

heavy smoker with two packs a day, quit for two months; and alcohol drinking with two bottles every day for several decades, quit for several months. Abdominal fullness, general malaise and poor digestion took place in the meantime. He visited several local clinics vainly and the symptoms got worse. Our upper gastrointestinal endoscopy displayed a protruding nodular mass in a 2 cm deep dirty based gastric ulcer at lesser curvature side of low body of stomach. Malignancy or gastrointestinal stromal tumor (GIST) was suspected and biopsy was performed. Moreover, colonoscopy showed a 1.5 cm pedunculated polyp at 40 cm from anal verge and polypectomy was executed. Laboratory data including blood routine, biochemistry and tumor markers were within normal limits except mild anemia (hemoglobin (Hb) 10.4 g/dL) and hypoalbuminemia (2.4 g/dL).

Blood loss was noticed after one week of his admission (Hb: 7.8 g/dL). Chest X-ray showed a right upper lobe soft tissue opacity and further computed tomography detected a 5.3 × 5 × 6.7 cm lung cancer over right upper lobe with adrenal metastases, cT2bN0M1b; mucosal wall thickening at lesser curvature of lower body of stomach; ileus of bowel loops; a 5.72 × 7.54 × 7.03 cm well defined heterogeneous cystic mass with peripheral contrast enhancement in the left adrenal gland; and multiple gall stones. The pathology reports of stomach biopsy and colon polypectomy showed adenocarcinoma and tubulovillous adenoma respectively. Gastric cancer and lung cancer were impressed. Surgical treatment for abdomen was first considered in priority before treatment for lung condition.

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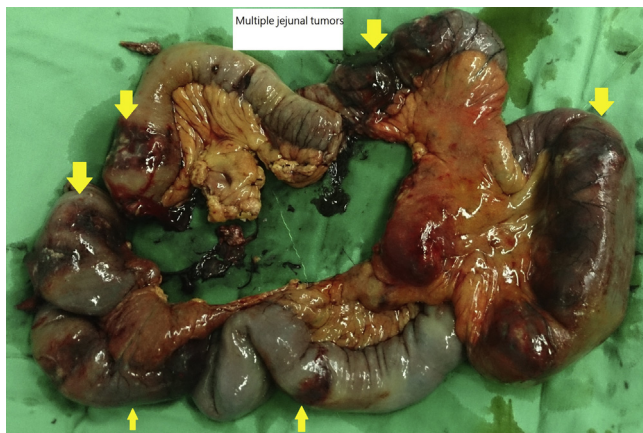


Fig. 1. Multiple tumor masses in the jejunum (yellow arrows).

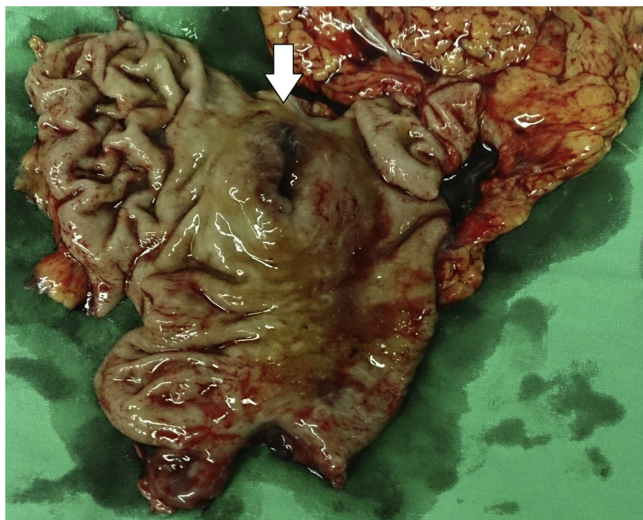


Fig. 2. 3 cm Ulcerative tumor in the lesser curvature side of distal stomach at angularis (white arrow).

The operation findings during the exploratory laparotomy included: a 3 cm ulcerative tumor in the lesser curvature side of distal stomach at angularis (Fig. 1); multiple tumor masses in the jejunum (Fig. 2), lymph nodes enlargement in the jejunal mesentery and at the 4th portion of duodenal mesentery, and multiple gall stones in the gall bladder. We performed hemigastrectomy, excision of a long segment of jejunum, gastrojejunostomy and open cholecystectomy. The initial post-operative course was smooth. However, gastroparesis occurred and parenteral nutrition support

was given. Sudden onset of apnea and cardiac arrest occurred and the patient had no response to our resuscitation effort. Finally the patient died 11 days after the operation.

The pathology report showed poorly differentiated sarcomatoid carcinoma of jejunum (5 in submucosa and one infiltrated to mesentery, largest 5 cm in circumference), one of the lymph node contained tumor cells, and metastatic to stomach. The main tumors in jejunum invaded to the visceral peritoneum with discontinuous extramural extension of tumor deposits, present of lymphovascular invasion and macroscopic tumor perforation. The immunohistochemistry showed CK(+), vimentin(+), P63(–), S100(–), CD117(–), CD34(–), SMA(–), CD30(–), EMA(–), Bc12(–), CD21(–), CD1a(–), CK7(–), CD20(–), WT-1(–) and calretinin(–) (Fig. 3). Our final diagnosis was jejunal sarcomatoid carcinoma with stomach, jejunum, mesenteric lymph nodes metastasis, pT(m)3N1M1, stage IV, and right upper lobe lung cancer with adrenal metastases, cT2bN0M1b.

3. Discussion

Adenocarcinoma, neuroendocrine tumors, sarcomas and lymphomas are the four most common malignant tumors arising in the small intestine [6]. Primary SCA of small bowel is rare and most often it occurred in ileum, followed by jejunum and duodenum [2]. To our knowledge, there were 17 cases of jejunal SCA reported in the literature to date (Table 1) but the real incidence rate may be underestimated. These tumors normally affect middle-aged to elderly patients with a mean age at presentation of 57 years (range, 35–85 years). Reid-Nicholson et al. reported that SCA of the small intestine is more prevalent in male patients, with a male:female ratio of 1.5:1.0 [2], which is different from the recent report from Zhang B et al. showing no significant difference with a male:female ratio of 0.89:1.0 [4]. Most SCAs of the jejunum are typically single tumors, and only 2 patients exhibited multifocal primary tumors [7]. Most of the reported cases presented with metastases (13/18) and most cases died rapidly after the diagnosis. Our case is an additional (the 3rd case) multifocal tumor of SCA in jejunum, and also the first case with stomach metastases. The late presentation and diagnosis can explain the poor prognosis of our patient and we felt distressed with his ultrashort survival since he died 11 days after surgery, which is the shortest one presented in the literature. However, we guess there is a portion of patients died before any definite diagnosis can be made because of its rapid progression and metastases, which leads to under presentation of this kind of cancer.

The risk factors of SCA are unknown, but in certain publications, a correlation with long-standing regional enteritis has been referenced [8,9]. Zhang et al. [4] listed the complete clinical and pathological data (Table 2) in his report earlier. Anemia was the

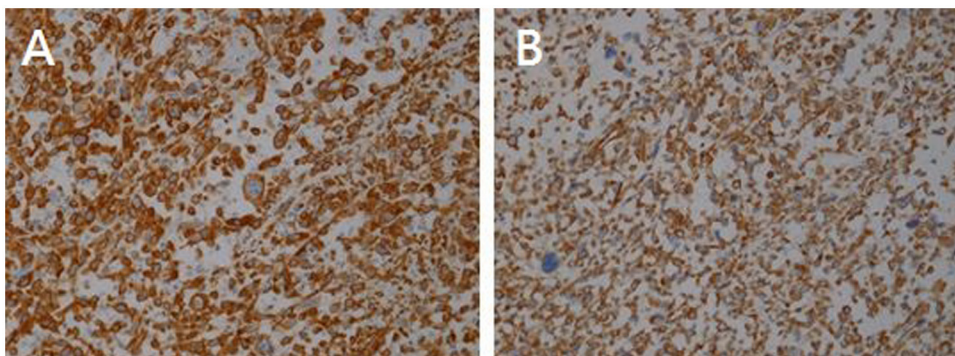


Fig. 3. Positive immunohistological stain for (A) CK and (B) vimentin.

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