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ABOUT COVER
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Mesentery solitary fibrous tumor with postoperative recurrence and sarcomatosis: A case report and review of literature

Chong-Chi Chiu, Haruaki Ishibashi, Satoshi Wakama, Yang Liu, Yuan Hao, Chao-Ming Hung, Po-Huang Lee, Kun-Ming Rau, Hui-Ming Lee, Yutaka Yonemura

Abstract

BACKGROUND
Solitary fibrous tumors are rare neoplasms of mesenchymal origin. They are often of low malignant potential and rarely metastasize. They frequently arise from the pleura and can occur at any soft tissue site in the body. However, these tumors rarely develop in the mesentery, peritoneal cavity or peritoneum.

CASE SUMMARY
We report on a scarce case of solitary fibrous tumor of the rectal mesentery showing sarcomatosis about 4 years after previous tumor resection. This 69-year-old male had no clinical symptoms but was transferred to our hospital because of a suspected tumor recurrence from follow-up abdominal computed tomography.
Tumor markers (CEA, CA 19-9 and CA 125) were within the normal range. Open laparotomy showed sarcomatosis, and pathology confirmed its mesenchymal origin and diagnosis as the solitary fibrous tumor. Our case may be the second recurrent mesentery solitary fibrous tumor reported to date, and the only one with progression to sarcomatosis. There has been no evidence of recurrence in follow-up at the 28th mo after extensive intra-operative peritoneal lavage and cytoreductive surgery.

**CONCLUSION**

Although there are few risk factors of cancer recurrence in this patient, careful long-term follow-up after cytoreductive surgery is necessary.

**Key Words:** Solitary fibrous tumor of rectum mesentery; Recurrence; Sarcomatosis; Extensive intra-operative peritoneal lavage; Cytoreductive surgery; Case report

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**Core Tip:** Solitary fibrous tumors (SFTs) are mostly benign and they rarely develop in the mesentery and cause sarcomatosis. The favored treatment strategy is whole-tumor excision with continued follow-up. According to a literature review, our patient is the first case report of mesentery SFT with the presentation of postoperative intraperitoneal recurrence and sarcomatosis.

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**INTRODUCTION**

Solitary fibrous tumors (SFTs) are mostly of mesenchymal origin and were first documented by Klemperer and Rabin[1]. SFTs growing from the mesentery are very rare[2]. In this paper, we report a patient with SFT of mesentery origin with postoperative recurrence and sarcomatosis, and subsequently we provide a review of the literature.

---

**CASE PRESENTATION**

**Chief complaints**

According to regular computed tomography (CT) follow-up, a 69-year-old Japanese man was noted to have a suspected SFT recurrence.

**History of present illness**

This patient received surgical resection of a rectal mesenteric tumor on 13 January 2016. Pathology confirmed a pedunculated rectal mesenteric tumor of mesenchymal origin to be SFT with malignant potential in terms of mildly positive p53 immunoreactivity. In addition to the primary tumor, a white nodule found on the peritoneal cavity was simultaneously resected and was noted with the same pathologic characteristics. He underwent regular follow-up without any symptoms at the hospital, but according to CT images on 1 March 2020, SFT recurrence was suspected. For further management he was referred to Kishiwada Tokushukai Hospital in Osaka Prefecture, Japan.

**History of past illness**

He had no medical history except for the surgical resection of a rectal mesenteric SFT with malignant potential on 13 January 2016.

**Personal and family history**

The patient had no family history.
Physical examination
Physical examination revealed no evident abnormalities on admission except for the previous abdominal operation scar.

Laboratory examinations
Routine blood results were normal, including the levels of the tumor marker cancer antigen 19-9 (CA 19-9; < 2.0 U/mL; normal level < 37.0 U/mL), carcinoembryonic antigen (CEA; 1.1 ng/mL; normal level < 5.0 ng/mL), and cancer antigen 125 (CA 125; 9.1 U/mL; normal level < 35.0 U/mL).

Imaging examinations
Contrast-enhanced CT images of the abdomen and pelvis revealed large and small nodules in the peritoneal cavity around the pelvic floor as well as suspected disseminated lesions. No prominent abnormal findings were noted in the liver, biliary system, pancreas, spleen or adrenal glands with no evident ascites (Figure 1).

FINAL DIAGNOSIS

Pathological findings
This patient received cytoreductive surgery and the specimen was examined. Macroscopic examination revealed more than 100 whitish tumor nodules (each measuring 1-3 mm) seeded over the parietal peritoneum and visceral peritoneum of the partial ileum and colon as well as the urinary bladder. The specimens were noted to have relatively clear boundaries, and some were noted to have fat infiltration (Figures 2 and 3).

Histopathologically, this tumor had a heterogeneous cell population comprising mainly spindle cells with proliferated fibrous collagen and diverse groups of cells exhibiting patternless or storiform growth. No tumor necrosis, nuclear polymorphism or cellular atypia was noted. The nuclear mitotic index was 4 mitoses/50 high-power fields (Figure 4A and B).

Immunohistochemically, the tumor showed diffuse strong immunoreactivity against CD34 (Figure 5A), CD99 (Figure 5B) and Bcl-2 (Figure 5C). The patient was diagnosed with SFT. Immunoreactivity for p53 was mildly positive (Figure 5D). The mitotic proliferative index for Ki-67 immunostaining was fewer than 4 mitoses/HP, representing a Ki-67 mitotic proliferative index of approximately 5% (Figure 5E). However, the tumor stained negatively for S100, HMB45, actin, desmin, CD10, cytokeratin, cytokeratin 7, CD31, EMA and CD68.

Grossly, pathology examination indicated that our patient’s tumor fitted both the histopathological and immunohistochemical characteristics of SFT. Moreover, the washing cytology of the pelvis did not reveal any suspicious malignant cells.

TREATMENT

Operative intervention
A midline laparotomy was performed from the xiphoid to the pubis. The old abdominal incision was also excised. Nearly 100 whitish tumor nodules (each measuring 1-3 mm) were seeded over the parietal peritoneum and visceral peritoneum of the partial ileum and colon as well as the urinary bladder, with no ascites in the pelvis (Figure 6). The intraoperative peritoneal carcinomatosis index was 19 (2-0-0-0-2-2-2-2-2-2-2).

The laparotomy procedure was initiated after extensive intraoperative peritoneal lavage (EIPL) with 10 L of saline in the abdominopelvic cavity. Cytoreductive surgery (CRS) with electroevaporation was performed, which included adhesiolysis, umbilical and falciform ligament resection, total anterior parietal peritonectomy, bilateral subphrenic peritonectomy, complete pelvic peritonectomy (Figure 7), greater and lesser omentectomy, cholecystectomy, stripping of the tumor from Glisson’s capsule and hepatoduodenal ligament, stripping of the floor of the omental bursa, circumferential resection of hepatogastric ligaments and extended radical right hemicolecotomy. Subsequently, EIPL was performed with 10 L of saline in the abdominopelvic cavity. At the end of the surgery, primary ileo-transverse colon anastomosis was performed without stoma establishment. The overall cancer resection score was 0 and the operative duration was 285 minutes. Total blood loss was 1180 mL, and blood component transfusion (total packed red blood cells = 4 units, fresh frozen plasma = 8 units) was required.

OUTCOME AND FOLLOW-UP
The patient experienced an uneventful recovery with no postoperative complications and was...
Figure 1 Image of abdominal computed tomography. Suspected carcinomatosis or sarcomatosis was noted in the pelvis with no evident ascites.

Figure 2 Intestine specimen after extended radical right hemicolectomy. Multiple whitish tumor nodules seeding over the visceral peritoneum of the partial ileum and colon.

discharged 13 d after surgery. Neither chemotherapy nor radiation therapy was administered. Repeat CT imaging was performed for every 4 mo during the first 2 years of follow-up. He has been in good general condition without evidence of recurrence or metastasis 28 mo after our surgical management. Subsequent CT imaging every 6 mo through the subsequent 5 years is planned.

**DISCUSSION**

SFT was first described by Klemperer and Rabin in 1931[1] and was originally an exclusive diagnosis of pleural neoplasms[3]. Later, some SFTs were recognized as originating in various extra-thoracic sites[4]. They are predominantly localized in the pleura, followed by the head and neck, and are seldom present in the abdomen or pelvis[4,5-7]. To date, fewer than 1,000 cases of SFT in the pleura[8], as well as fewer than 100 cases of SFT in the abdomen or pelvis[9] have been reported. SFT of mesentery origin is extremely rare. We searched the PubMed database (http://www.ncbi.nlm.nih.gov/pubmed/) and reviewed the relevant papers published. Of these reports of SFTs originating from the mesentery retrieved from the literature, we only found 13 cases (Table 1)[2,10-20].

SFT is predominant in the sixth and seventh decades of life with no difference in sex distribution[5, 21]. To date, no definite causative/contributing etiology or genetic predilection exists for this tumor[8].
Table 1 Patients with mesentery solitary fibrous tumors

<table>
<thead>
<tr>
<th>Patient</th>
<th>Age</th>
<th>Sex</th>
<th>Symptom</th>
<th>Tumor location</th>
<th>Tumor size in cm</th>
<th>Management</th>
<th>Follow-up (F/U) in mo</th>
<th>Recurrence during F/U</th>
<th>Ref.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>33</td>
<td>M</td>
<td>NM</td>
<td>Mesentery</td>
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<td>Operation</td>
<td>NM</td>
<td>NM</td>
<td>[10]</td>
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<td>2</td>
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<td>M</td>
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<td>Sigmoid mesentery</td>
<td>18</td>
<td>Operation</td>
<td>NM</td>
<td>NM</td>
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<td>1</td>
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<td>Operation</td>
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<td>No</td>
<td>[14]</td>
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<tr>
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<td>Abdominal pain</td>
<td>Mesentery</td>
<td>23</td>
<td>Operation</td>
<td>7</td>
<td>No</td>
<td>[15]</td>
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<tr>
<td>7</td>
<td>26</td>
<td>M</td>
<td>Abdominal distension</td>
<td>Ileum mesentery</td>
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<td>Operation</td>
<td>18</td>
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<td>[16]</td>
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<td>8</td>
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<td>M</td>
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<td>Rectum mesentery</td>
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<tr>
<td>9</td>
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<td>F</td>
<td>Abdominal pain</td>
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<td>9</td>
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<td>2</td>
<td>NM</td>
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<tr>
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<td>Abdominal mass</td>
<td>Sigmoid mesentery</td>
<td>13</td>
<td>Operation</td>
<td>252</td>
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<td>[19]</td>
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<tr>
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<td>Ileum mesentery</td>
<td>10</td>
<td>Operation</td>
<td>NM</td>
<td>NM</td>
<td>[20]</td>
</tr>
<tr>
<td>13</td>
<td>65</td>
<td>M</td>
<td>Abdominal pain</td>
<td>Ileum mesentery</td>
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<td>Operation</td>
<td>12</td>
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<td>[2]</td>
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<tr>
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<td>M</td>
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<td>Sarcomatosis (rectum mesentery recurrence related)</td>
<td></td>
<td>Multiple</td>
<td>Operation (cytoreductive)</td>
<td>28</td>
<td>No</td>
</tr>
</tbody>
</table>

F: Female; NM: Not mentioned; M: Male.

Figure 3 Image of an ileum specimen. Multiple whitish tumor nodules seeding over the visceral peritoneum of the distal ileum.

Patients with SFT may be asymptomatic at presentation[8]. However, extra-pleural lesions may cause clinically related symptoms to the tumor site. Systemic symptoms such as hypoglycemia (caused by insulin-like growth factor II secretion from the tumor[22]), arthralgia, osteoarthritis and clubbing have been documented[21]. These symptoms usually resolve upon tumor removal. In the present case, recurrent SFT was incidentally detected during regular follow-up and the patient did not exhibit any
Figure 4 Microscopic features. The heterogeneous cell population comprised of mostly spindle cells with fibrous collagen proliferation as well as various other cell populations exhibiting patternless or storiform growth. No tumor necrosis, nuclear polymorphism, or cellular atypia was noted. The nuclear mitotic index was 4 mitoses/50 high-power fields (A: × 100 original magnification; B: × 400 original magnification).

Figure 5 Immunohistochemical staining. A-E: The lesion showed diffuse strong staining for CD34 (× 400 original magnification) (A); CD99 (× 400 original magnification) (B); Bcl-2 (× 400 original magnification) (C); mildly positive immunoreactivity for p53 (× 400 original magnification) (D); and a Ki-67 mitotic proliferative index of approximately 5% (× 100 original magnification) (E).

SFTs do not display any tumor markers. Fluorodeoxyglucose positron emission tomography (FDG-PET) manifestations of SFT have been sparsely reported in the literature and clinical use of FDG-PET imaging for SFT detection remains unclear[23,24]. Cardillo et al[24] showed a weak association between malignancy and FDG-PET uptake in their eight-case study. However, we could acquire important information about the lesions or detect postoperative recurrence according to the radiological examinations, such as type-B ultrasonic, CT and magnetic resonance imaging scans[25,26].

Type-B ultrasonic examination could show intraperitoneal SFT as a hypoechoic but sometimes as a heterogeneous lesion. Besides, this lesion might exhibit flow during Doppler imaging due to its characteristic of high vascularity[23].

On CT imaging, we could note that some well-circumscribed SFT lesions compress adjacent tissues and organs and even cause colon obstruction, urinary retention or bilateral hydronephrosis[27,28]. After contrast use, larger lesions would present with scattered intratumoral foci of hypoenhancement or non-enhancement in the necrosis, hemorrhage or cystic change regions. On the contrary, the homogeneous enhancement would be typically demonstrated in the smaller lesions[29]. Besides, it could provide information on the local extent of disease and the presence of distant metastases. However, the malignancy potential could not be decided according to this radiological distinction.
Figure 6 Image of the pelvis during operation. Multiple whitish nodules were noted to be seeded over the parietal peritoneum and visceral peritoneum of the partial ileum and colon as well as the urinary bladder, with no ascites in the pelvis.

Figure 7 Peritoneectomy during cytoreductive surgery. Total anterior parietal peritonectomy, bilateral subphrenic peritonectomy, and complete pelvic peritonectomy (including the visceral peritoneum covering the urinary bladder) were performed.

T1 weighted signal enhancement of MRI imaging could identify subacute hemorrhage of the lesion with the characteristic of intermediate heterogeneous signal intensity. On T2 weighted images, flow voids could also be noticed as areas of heterogeneous low-signal intensity.[30]. Besides, intense heterogeneous enhancement of the lesion is noticed in the arterial phase of Gadolinium-enhanced, fat-suppressed T1 weighted images and progressive enhancement in the venous phase[29].

Definite diagnosis of SFT is confirmed through histopathology and immunohistochemical staining. Histopathologically, most SFTs have a patternless or storiform architecture characterized by the coexistence of hypo- and hypercellular areas separated by fibrous stroma, with hemangiopericytoma-like branching blood vessels[31]. Studies of immunohistochemical and electron microscopic aspects have proven that SFTs grow from fibroblastic or myofibroblastic cells of the mesothelium[32,33]. Although differential diagnosis includes other spindle cell tumors, SFT has a unique staining pattern (positive for STAT6, CD34, CD99 and Bcl-2). Among these immunohistochemical markers, STAT6 is probably the most sensitive and specific marker of SFT, because most SFTs have an NAB2-STAT6 fusion gene, which is specific to this tumor type[34]. By contrast, SFTs generally exhibit negative reactivity to cytokeratin, alpha-SMA, S-100, CD31 and c-kit[35]. In our patient, intense diffuse strong staining for CD34, CD99 and Bcl-2 was detected, and SFT was confirmed, although the STAT6 marker was not examined.

SFTs have historically been considered indolent tumors that rarely metastasize in the literature. However, their behavior is unpredictable, with a broad spectrum of biologic behavior. Most SFTs behave benignly after complete surgical resection; however, some have been reported to behave aggressively either through local recurrence or distant metastasis[35]. The 2013 World Health Organization classification of SFT defines malignant forms as having a large tumor size (longer than 5 or 10 cm), sessile lesions, hypercellularity, and increased mitotic index (> 4 mitoses/10 high-power fields) [36,37], with cytological atypia, nuclear pleomorphism, tumor necrosis, infiltrative margins or hemorrhage[38]. However, discrepancies of morphological malignancy and clinical malignancy have been observed for SFT[3]. Some experts have advocated that malignant transformation with dedifferen-
occurrence of malignancy. In our case, malignancy may be the recurrence of the previous tumor.

Immunohistochemistry for some proteins may clinically provide hints of SFT malignancy. Takizawa et al. noted no tumor recurrence in cases with positive immunostaining for both CD34 and Bcl-2. Deprivation of CD34 and Bcl-2 immunoreactivity was observed in the component with malignant transformation. In benign SFTs, p53 immunoreactivity was not detected. However, p53 immunoreactivity has been confirmed in morphologically and clinically malignant SFT. According to these criteria, our present case had borderline benign (diffuse strong immunostaining for CD34, CD99 and Bcl-2) and malignant (mildly positive p53 immunoreactivity) pathologic characteristics. However, due to the clinical presentation of intraoperative sarcomatosis, recurrence remains a concern despite the complete removal of the seeding tumors achieved for our patient.

No consensus has been reached for the treatment guidelines for SFTs in this particular location (rectal mesentery) because of their scarcity and the confusion regarding their pathological confirmation. However, complete surgical resection is the standard and mainstay treatment for most SFTs, including abdominopelvic SFTs and those that arise in other organs, regardless of histologic subtype. The most essential prognostic factor is surgical resectability because complete resection of the tumor is curative in more than 90% of cases. Poor prognosis is observed in patients with incomplete resection. However, SFTs are hypervascular, complicating surgical resection regardless of the tumor location.

Local recurrence or metastasis develops in 12%-22% of cases. Patients with extra-thoracic SFTs are statistically more likely to develop the metastatic disease than those with thoracic SFTs. Adjuvant chemoradiotherapy is not widely practiced or accepted as the standard of care. Some experts have suggested radiotherapy or adjuvant chemotherapy, although poor outcomes have been reported for these treatments. Some experts have used antiangiogenic agents as a therapeutic strategy in recent years. However, similar to the finding of low response rates in standard chemotherapy, progression-free survival appeared similar between cytotoxic chemotherapy and antiangiogenic agents. Thus, improved systemic therapies are required for metastatic or unresectable diseases.

To date, no standard therapy has been established for inoperable SFTs. SFTs are generally regarded as chemoresistant tumors. Our patient’s Ki-67 mitotic proliferative index was only approximately 5%, suggesting that it was a type of low-grade sarcoma; we proposed that chemotherapy would have little effect. Although radiotherapy was another option, radiotherapy was not conducted for our patient because of the side effect of radiation injury on the small bowel related to the proposed large area of radiation and adhesion after two episodes of laparotomy. Instead, we sincerely believed that EIPL could effectively lower the amount of intra-abdominal free cancer cells, and it is a preventative strategy for further peritoneal recurrence. Moreover, we performed complete en bloc surgical resection with negative margins through CRS for this “inoperable” patient, which is of paramount importance.

Predicting the aggressive clinical behavior of SFTs is difficult. Late recurrence or metastasis may develop even when the SFT has been identified as benign. While surgical resection continues to be the initial modality for treating malignant SFTs, the utility of adjuvant chemotherapy or radiation is still unknown given that most data is based on small case series. Thus, no guidelines exist for determining the modality and frequency of post-treatment surveillance. Long-term and regular surveillance is mandatory. Some experts have suggested that long follow-up periods (≥ 15 years) should be maintained with closer follow-ups during the first 2 years, particularly for patients with high-risk features.

**CONCLUSION**

In conclusion, this article reported the first case of rectal mesentery SFT with postoperative recurrence and sarcomatosis. Instead of adjuvant chemotherapy or radiotherapy, we performed EIPL and CRS, and no evidence of recurrence was found during the 28-mo follow-up period.

**FOOTNOTES**

**Author contributions:** Chiu CC collected clinical records, wrote, revised and submitted the draft; Ishibashi H, Wakama S and Liu Y assisted with the operation and cared for the patient; Hao Y and Liu Y assisted with photo management; Hung CM provided critical opinion; Lee PH revised the manuscript; Rau KM and Lee HM searched the related references during the preparation process; Yonemura Y performed the operation, provided critical feedback, supervision, and opinion of this study.

**Informed consent statement:** Written informed consent for the publication of this case report was obtained from the patient.

**Conflict-of-interest statement:** The authors declare that they have no conflict of interest.
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