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Occult colon cancer with sepsis as the primary manifestation identified by bone marrow puncture: A case report

Wang HJ, Zhou CJ
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Malignant struma ovarii with papillary carcinoma combined with retroperitoneal lymph node metastasis: A case report

Wen Xiao, Jin-Rong Zhou, Dong Chen

BACKGROUND
Struma ovarii is a rare specific ovarian tumor. It is a highly differentiated monodermal teratoma with a malignant transformation rate as low as 5%. Thus, malignant transformation and metastasis are extremely rare. The clinical manifestations of this disease are not typical and are easily misdiagnosed.

CASE SUMMARY
A 55-year-old female patient had a history of pain in the right hepatic region for approximately 1 year. Computed tomography and magnetic resonance imaging showed a solid cystic mass in the right adnexal region and a solid mass in the right retroperitoneum. The patient underwent surgical resection, and the combined morphological and immunohistochemical results led to the final diagnosis of right struma ovarii with papillary carcinoma and right retroperitoneal lymph node metastasis.

CONCLUSION
Malignant struma ovarii with distant metastasis is extremely rare, and the clinical manifestations of this disease are nonspecific. Accurate preoperative diagnoses are difficult to obtain, and pathological examination is the gold standard for diagnosing this disease.

Key Words: Malignant struma ovarii; Papillary carcinoma; Metastasis; Radiology; Computed tomography; Magnetic resonance imaging; Case report

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Core Tip: Malignant struma ovarii (MSO) with biologically malignant behavior is an extremely rare disease. The rarity of MSO and the nonspecific clinical presentation make it very difficult to diagnose preoperatively. We report a case of MSO, for which we analyzed a combination of pathological and immunohistochemical findings, to improve the understanding of this disease. A clear preoperative diagnosis of MSO can be particularly helpful for doctors in formulating the best treatment plan, allowing patients to avoid unnecessary treatments to the greatest extent possible.

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INTRODUCTION

Struma ovarii is a rare and highly differentiated monodermal tumor that contains more than 50% thyroid tissue and accounts for 2%-3% of ovarian teratomas[2,3]. This tumor is usually benign, and malignant transformation and metastasis are extremely rare, with malignant transformation occurring in approximately 5% of cases[4,6]. The disease can affect females of all ages but is most common in patients of childbearing age[10]. The clinical manifestations of this disease are not specific and are mostly characterized by abdominal symptoms, such as abdominal pain and irregular vaginal bleeding[4]. Malignant struma ovarii (MSO) is very difficult to diagnose preoperatively due to the lack of specific imaging manifestations, so histopathology is necessary to confirm the diagnosis.

The purpose of our report is to present a case of MSO and analyze its clinical, pathological, and imaging features to improve the understanding of this disease and to provide a reference for the preoperative diagnosis and treatment selection of this disease.

CASE PRESENTATION

Chief complaints
A 55-year-old female patient was admitted to the hospital with pain in the liver area lasting for more than 1 year.

History of present illness
The patient presented with persistent pain in the liver area with a burning sensation on the skin for 1 year, and one instance of a small amount of bloody vaginal secretion was found six months ago.

History of past illness
The patient has had hypertension for more than 5 years.

Personal and family history
Her mother died of stomach cancer, and her father died of emphysema.

Physical examination
A lymph node measuring approximately 0.6 cm × 0.6 cm was palpated in the right inguinal region of the patient. There was an irregular active mass palpable on the left anterior side of the uterus, approximately 8 cm × 6 cm × 6 cm in size.

Laboratory examinations
Her blood pressure was elevated, with a maximum systolic pressure of 180 mmHg, and HPV type 39/53 (+) was detected. Her serum thyroglobulin (TG) concentration was > 500 ng/mL, which decreased to 39.13 ng/mL after gynecological surgery (normal range: 3.50-77.00 ng/mL). The other laboratory examinations (including routine blood and urine tests, coagulation function tests, liver and kidney function tests, and evaluations of tumor marker levels) were normal, with CA125 (-).

Imaging examinations
Computed tomography (CT) examination showed an irregular mass with mixed density in the right adnexal region, measuring approximately 8.7 cm × 7.6 cm × 6.5 cm, with a clear boundary (Figure 1). A contrast-enhanced scan showed obvious heterogeneous enhancement, and multiple thickened and
tortuous vessel shadows were found in the lesion, which was mainly supplied by the right reproductive artery (Figure 1C and D). In addition, there was a fat density shadow in the left portion of the mass, which was not enhanced on the contrast-enhanced scan (Figure 1A). In the right retroperitoneum, there was a rounded mass with soft tissue density that was approximately 4.3 cm × 3.2 cm × 4.6 cm in size, with a well-defined boundary (Figure 1). The mass located to the right in front of the inferior vena cava was closely associated with the inferior vena cava, which was mildly compressed. Additionally, a contrast-enhanced scan showed heterogeneous marked enhancement (Figure 1A and B).

Magnetic resonance imaging (MRI) showed an irregular mass with mixed signal in the right adnexal region with an iso/hypointense signal on T1-weighted imaging (T1WI) (Figure 2A), a slightly high heterogeneous signal intensity on T2-weighted imaging (T2WI) and short tau inversion recovery (STIR) imaging (Figure 2B-D), hyperintense signal on diffusion-weighted imaging (DWI) (Figure 3A), and further hyperintense signal at the edge of the lesion (each sequence), suggesting the possibility of hemorrhage within the lesion. The mass in the right retroperitoneum was characterized by low signal intensity on T1WI (Figure 3B), inhomogeneous slightly high/high signal intensity on T2WI (Figure 3C), and inhomogeneous high signal intensity on STIR imaging (Figure 3D).

Surgically resected specimens revealed thyroid-like tissue with local papillary structure and necrosis in the tumor of the right adnexa (Figure 4A and B). Immunohistochemistry showed CK19(+), TG(+), TTF-1(+), galectin-3(+), HBME-1(+), and CD56 (partially absent) in the lesion (Figure 5). Thyroid-like tissue with localized papillary structures was identified within the tumor in the right retroperitoneum; this lesion was closely associated with the retroperitoneal lymph nodes (Figure 4C).

**FINAL DIAGNOSIS**

MSO with papillary carcinoma in the right adnexa and right-sided retroperitoneal lymph node metastasis.
Xiao W et al. MSO combined with retroperitoneal metastasis

Figure 2 Pre-operative pelvis magnetic resonance imaging scan. A: T1-weighted image shows an irregular mass with mixed signal in the right adnexal region with iso/hypo-signal intensity (axial, yellow arrow); B: T2-weighted image shows an irregular mass with a heterogeneous slightly high signal intensity in the right adnexal region (axial, yellow arrow); C and D: Short time of inversion recovery image shows an irregular mass with a heterogeneous slightly high signal intensity in the right adnexal region (yellow arrow) (C: Coronal; D: Sagittal).

TREATMENT
After a series of relevant examinations, the patient underwent selective vascular embolization (right internal iliac artery and ovarian artery) because of the rich blood supply to the tumor in the pelvis, followed by resection of the right pelvic tumor and right retroperitoneal tumor + bilateral adnexal resection + pelvic lavage under general anesthesia. During the surgery, the boundary between the pelvic mass and right ovary was not clear, the right fallopian tube was not involved, and the mass was mainly supplied by the right ovarian artery. The right retroperitoneal mass had an intact capsule, which was adjacent to the inferior vena cava but was clearly demarcated from the inferior vena cava and ureter. Hysterectomy and pelvic lymph node dissection were not performed. Postoperatively, routine anti-infective treatment was provided.

OUTCOME AND FOLLOW-UP
The patient recovered well postoperatively with significant relief of her abdominal pain. She was followed up five months postoperatively, and no signs of recurrence were seen on CT.

DISCUSSION
Struma ovarii is a rare type of mature teratoma with monodermal high specificity. It contains at least 50% thyroid tissue and is a germ cell tumor of the ovary, accounting for 2%-3% of ovarian teratomas[2-5,6]. The disease is mostly benign and unilateral, and malignant transformation and metastasis are extremely rare. The malignant transformation rate is as low as 5%, and the most common malignancies are papillary carcinoma (approximately 70%) and follicular carcinoma (approximately 30%)[4,6,10-11]. MSO metastasizes in approximately 5%-23% of cases[2,10], mainly leading to lymphatic and blood metastasis and peritoneal and omental metastasis, but metastases have also been seen in the pelvis, liver, lung, etc.[1,2].
Figure 3 Pre-operative abdomen and pelvis magnetic resonance imaging scan. A: Axial diffusion-weighted imaging (DWI) image shows hypersignal intensity of the lesion in the right adnexal region (axial, yellow arrow); B: T1-weighted image shows a regular mass with low signal intensity in the right retroperitoneum (axial, white arrow); C: T2-weighted image shows a regular mass with inhomogeneous slightly-high/high signal intensity in the right retroperitoneum (coronal, white arrow); D: STIR image shows a regular mass with inhomogeneous high signal intensity in the right retroperitoneum (axial, white arrow).

Figure 4 Surgically resected specimen of case. A: At low magnification, there are scattered follicular structures of different sizes and papillary structures (blue arrow) in some areas (hematoxylin-eosin staining, ×100); B: At high magnification, ovoid or round cells are seen to be poleally disordered, with enlarged and overfapping nuclei, which are transparent or ground glass like (black arrow) and irregular in shape, including nuclear sulcus (white arrow) and pseudoinclusion bodies (orange arrow) (hematoxylin-eosin staining, ×200); C: There is metastasis to the right retroperitoneum lymph node.

Struma ovarii was first described by Von Kalden in 1895[2,3]. It can occur in women of any age. However, this tumor is more common in women aged 4-60 years and is less common in postmenopausal women[10]. The clinical manifestations of the disease are nonspecific and usually include abdominal symptoms, such as abdominal pain, abdominal distention, abdominal mass, irregular vaginal bleeding, and infertility. Some patients also have hyperthyroidism, a small amount of ascites and other symptoms[4,6]. Additionally, some patients can present with elevated ovarian tumor marker CA125[3,6], but this index was not elevated in the patient in this report.
Pathologically, the solid component of MSO includes thyroid tissue and abundant interstitial vessels. Histological malignancy is not equivalent to biological malignancy, and biological malignancy can be diagnosed by any one of the following criteria: (1) Extraovarian metastasis; (2) Tumor invasion on the surface of the serous membrane of the ovary; and (3) Recurrence after the initial surgery[5]. This patient met the first two conditions, so this case was judged to be biologically malignant.

Patients with both MSO and thyroid cancer are generally classified into three conditions: (1) Metastasis of thyroid cancer to the ovary; (2) Metastasis of MSO to the thyroid; and (3) Concurrent occurrence of thyroid cancer and MSO[11]. This patient had a solid cystic mass with mixed echogenicity measuring approximately 0.6 cm x 0.5 cm x 0.3 cm in size on an ultrasound examination of the left lobe of the thyroid gland. This patient underwent single-photon emission computed tomography (SPECT) thyroid imaging, which showed no abnormalities in thyroid morphology, density, size, or function based on 99mTc uptake. Elevated TG was detected before abdominal surgery, and no increase in this index was seen postoperatively. Unfortunately, the patient has not yet undergone total thyroidectomy. However, based on the results of the above supplementary examination, it is reasonable to assume that the patient did not have thyroid disease. Some scholars believe that the presence of a teratoma and normal thyroid epithelial tissue is highly suggestive of primary MSO rather than a lesion that is the source of the thyroid cancer metastasis [6,8]. Therefore, we considered the patient's MSO to be the primary focus.

Due to the rarity of MSO, there are few relevant reports on this disease, most of which are case reports, and no definitive optimal uniform treatment protocol is currently available. The management course of abdominal hysterectomy and bilateral salpingo-oophorectomy with omentectomy, with or without hysterectomy, and unilateral adnexal resection is supported by most scholars only for young patients without metastases to preserve fertility to the greatest extent possible. Extraovarian tumor extension is considered an indication for total thyroidectomy and adjuvant treatment, such as radioactive iodine [I]-131 ablation, in postoperative patients[6,10,12,13]. The greatest controversy has been whether to routinely administer postoperative adjuvant therapy to patients without evidence of metastasis. Some studies have suggested that the recurrence rate is lower in patients who received routine adjuvant therapy after surgery than in patients who only underwent surgery, but other studies have suggested that there are no significant differences in the recurrence rate and prognosis of patients despite the use of adjuvant therapy after surgery[6].

The clinical course of MSO is long, and the prognosis is generally good. The presence of metastases does not cause treatment dilemmas, with most patients achieving a long survival duration after treatment. However, the presence of the histologic subtype of atypical papillary thyroid carcinoma in the tumor is an independent predictor of poor prognosis or treatment failure[11]. Additionally, some patients may develop recurrence and require close long-term follow-up. TG is a glycoprotein unique to thyroid tissue, and some patients with MSO have elevated serum TG levels, which are useful for monitoring tumor recurrence and tumor regression after treatment[1,5].

MSO has a similar imaging presentation to struma ovarii, does not have obvious specific imaging findings, and is more common unilaterally[4]. The most common CT presentations are cystic masses or predominantly cystic lobulated cystic-solid masses, which can include single or multiple cysts with segregation of the cystic portion and solid components that represent thyroid tissue. The mass is typically characterized by a well-defined, highly attenuated area and calcifications[8].

On MRI, MSO shows a solid cystic mass of uterine adnexal origin with well-defined borders and cystic cavities of different sizes. Each cystic cavity has a different signal due to different TG contents. Most of these cavities present a high signal on T1WI, and an extremely low signal on T2WI is characteristic of these cavities. DWI shows a high signal when the cystic cavity has a high protein content. On
contrast-enhanced scans, the solid components of the tumor and cystic wall and the separation between these tissues showed progressive and distinct enhancement\[^8\].

In general, MSO needs to be differentiated from the following tumors: (1) Cystadenocarcinoma: the solid component mostly shows wall nodules or nodular soft tissue protruding into the cystic cavity, a large amount of ascites, and malignant signs such as lymph node metastasis; (2) Cystadenoma: The cyst wall and septum are thin and smooth and without obvious enhancement on contrast-enhanced scans; and (3) Infectious lesions: abdominal pain, fever, and elevated white blood cells are common, and the lesions are mostly adherent to the surrounding tissue structures.

A clear preoperative diagnosis of MSO can be particularly helpful for doctors in formulating the best treatment plan, allowing patients to avoid unnecessary treatments, such as hysterectomy, and preserving fertility to the greatest extent possible in young patients without metastasis. The patient in this case report presented with abdominal pain. CT and MRI demonstrated a solid cystic mass in the pelvis and a right retroperitoneal mass; the preoperative examination revealed the absence of tumor markers [CA125(-)]. Thus, the preoperative misdiagnosis was a malignant right ovarian teratoma combined with hemorrhage and right retroperitoneal neurogenic tumor, without preoperative examination of the thyroid.

**CONCLUSION**

In summary, cases of MSO with distant metastasis are extremely rare, and the clinical manifestations of this disease are nonspecific. Thus, it is difficult to obtain an accurate diagnosis preoperatively. Preoperative CT, MRI and thyroid function examinations, combined with the patients’ clinical manifestations, can help improve the accuracy of the preoperative diagnosis and provide great assistance in developing an appropriate treatment plan.

**FOOTNOTES**

Author contributions: Xiao W consulted the literature, collected the images, and wrote this paper; Zhou JR collected the clinical data and consulted the literature; Chen D designed the research, reviewed and revised the paper.

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