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Odd localisation for a gastric cancer histology

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ABSTRACT

INTRODUCTION: More than 96% of signet-ring cell carcinomas occur in the stomach and the rest in other organs, including the gallbladder, pancreas, urinary bladder and breast. Primary signet-ring cell carcinoma of the colon and rectum is very rare, accounting for 0.1%–2.4% of all colorectal cancers.

PRESENTATION OF CASE: We report a case of a 55-year old man who is operated for a caecal mass evocative of an appendicitis abscess. Intraoperatively, we discover a large, ulcerated ilio-caecal mass with several lymphadenopathies. The further workup reveals a primary signet-ring cell carcinoma of the colon with multiple lymph nodes and osteolytic bony metastases.

DISCUSSION: Primary signet-ring cell carcinoma of the colon and rectum presents usually as an advanced stage disease with a dismal prognosis. It spreads mainly to the lymph nodes and to the peritoneum and very rarely to the liver. The mean age of patients diagnosed with primary signet-ring cell carcinoma is significantly younger than for ordinary adenocarcinoma. The upper endoscopy is the investigation of choice to exclude a primary gastric pathology. There are very few reports about this type of cancer and no reports about this type of cancer associated with osteolytic bony metastases.

CONCLUSION: The characteristics and pathophysiology of a primary signet-ring cell carcinoma of the colon and rectum are not well understood. Usually only palliative treatment is possible. The importance of an early diagnosis of this tumor is mandatory to have a curative approach.

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1. Introduction

More than 96% of signet-ring cell carcinomas occur in the stomach and the rest in other organs, including the gallbladder, pancreas, urinary bladder and breast [1]. Primary SRC carcinoma of the colon and rectum is very rare, accounting for 0.1%–2.4% of all colorectal cancers [2]. Compared to the colorectal adenocarcinoma, this tumor type is diagnosed at more advanced stages, presents at a younger age and has a worse prognosis than the common adenocarcinoma [3,4]. It is characterized by a dismal prognosis. The dissemination pattern is chiefly peritoneal with a predominantly lymphatic invasion. Liver metastases are very rare [3–6]. It has been described that its radiographic characteristics can mimic an inflammatory process [7].

We report a case of a primary SRC carcinoma of the caecum that presents with symptoms and radiologic images compatible with

an acute appendicitis abscess. It is treated by surgical resection. The further work up reveals multiple osteolytic bony metastases (Fig. 1).

So far, there are very few reports about this tumor type presenting with bony metastases and because of the rarity of the SRC carcinoma, its characteristics and pathophysiology are not well understood.

2. Presentation of case

A 55-year old patient presents to our emergency department with right lower quadrant pain for the last 24 h accompanied by a subfebrile state. The patient is in excellent general condition without previous surgical history. He has a mild hypertension and diabetes on oral medication. The pain is accompanied by nausea without vomiting. He denies any weight loss, change in stool habits, hematochezia or melena. He does not report any previous history of abdominal pain.

Physical examination reveals a right lower quadrant tenderness. The bowel sounds are normal.

The lab tests show a CRP of 22 mg/l, and no leucocytosis. A low dose CT scan is performed because of a high suspicion of an appendicitis and shows an inflammatory thickening of the ceecal wall

Abbreviations: SRC, signet-ring cell.

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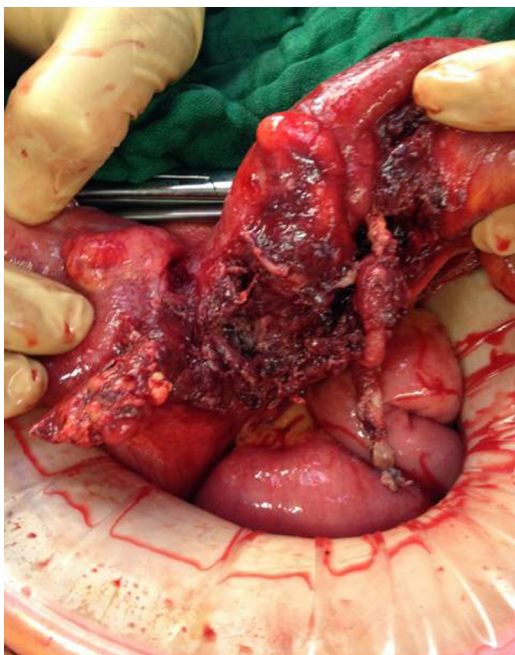


Fig. 1. Intraoperative status with an abscessed ileo-caecal mass.

with a collection of the ileo-caecal zone which could correspond to an abscessed appendix. The appendix itself is not visualized. There are retroperitoneal lymphadenopathies to be found (Fig. 2).

The clinical presentation and the image on the low-dose CT scan are highly evocative of an acute appendicitis with a small abscess. The patient is planned for a laparoscopic appendectomy. The abdominal exploration reveals a thickened caecum patched together with the terminal ileum on the posterior abdominal wall. A conversion into a laparotomy is decided due to very inflammatory tissues and inability to carry on safely with the laparoscopic approach. We discover a large mass involving the caecum and the terminal ileum. Frozen section reveals the presence of an adenocarcinoma. An oncologic right hemicolectomy is therefore performed, which turns out to be extremely difficult because the mass is patched on the iliac vessels and on the right ureter. An ileo-transverse anastomosis is performed with uncomplicated postoperative recovery. The final pathologic analysis reveals a SRC carcinoma of 10,5 cm, infiltrating the serosa, with an extensive lymphatic invasion and 15 metastatic ganglions (15/15). The resection margins are without tumor and the K-RAS is tested positive.

In order to exclude a primary gastric pathology, we perform a gastroscopy, as this histology has most of the time a primary gastric localization. The gastroscopy is normal and a thoracic CT-scan shows the absence of secondary lesions. But the PET CT shows multiple osteolytic bone metastases: to the ribs, to the vertebral bodies, the right humerus and a destruction of the two omoplates, all of them associated with a high fracture risk.

His post-operative tumor marker CEA level is elevated at 251 µg/l and PSA and CA19-9 levels are negative. The alkaline phosphatase is at a normal level preoperatively (115 U/l) and rises up to 144 U/l 5 weeks later.

Folfox regimen with Irinotecan and Bevacizumab has been started and the patient is still undergoing treatment (Fig. 3).

3. Discussion

SRC cancer is characterized by the abundant intracytoplasmic mucin that pushes the nucleus to the periphery, creating a microscopic signet-ring appearance. The tumor must consist of at least

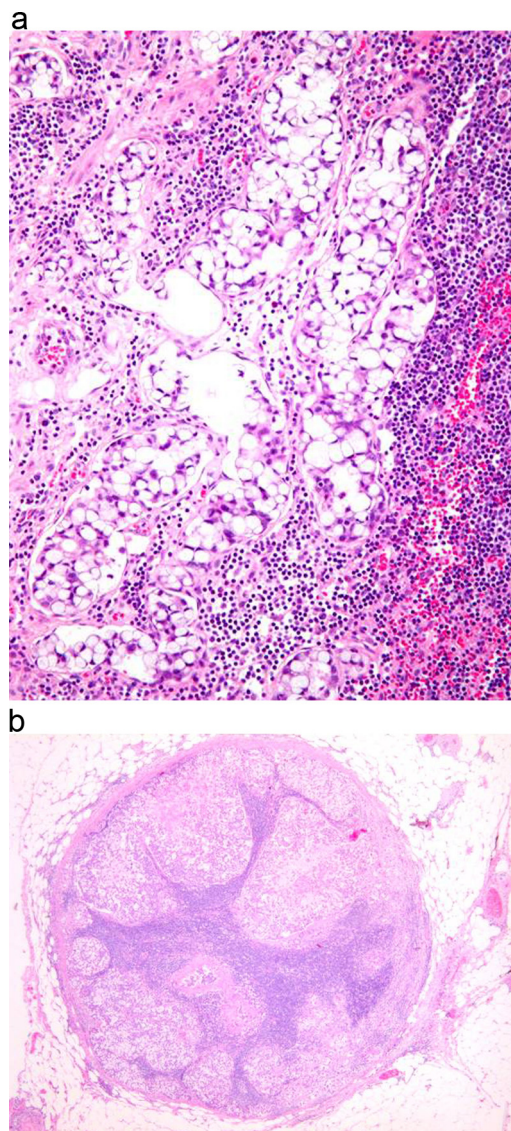


Fig. 2. A. Histology. The tumor cells are « signet ring » shaped, with prominent intracytoplasmic mucin, which pushes the nucleus to the cell periphery. According to the WHO classification, the designation « signet ring cell carcinoma » is used if at least 50% of the tumor cells are signet ring-shaped. B. Massive regional lymph node metastasis from the signet ring cell carcinoma.

50% of these signet cells [8]: More than 96% of the SRC carcinomas occur in the stomach [1]. The incidence of the primary SRC carcinoma of the colon and rectum is reported 0.6 per 100 000 persons in the year 2000. The incidence rate is increasing with an annual percent change of 4.8% in contrast to the ordinary adenocarcinoma the incidence of which is slightly decreasing [6].

The mean age of patients diagnosed with primary SRC carcinoma is 39.6–60 – which is significantly younger than for an ordinary adenocarcinoma (70 years). [1,5,9].

Metastasis from gastric carcinoma is probably the most common secondary lesion in the colon and rectum [10]. They appear mostly in the transverse colon, while the primary SRC cancer of the colon appears predominantly in the rectum (32.9%), followed by the sigmoid colon (20.4%), the caecum (11.2%) and the ascending colon (10.5%). This can be a feature distinguishing a primary SRC carcinoma of the colon from the gastric SRC metastasis. The upper endoscopy is the investigation of choice to exclude a primary gastric pathology.

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