CASE REPORT - OPEN ACCESS

International Journal of Surgery Case Reports 29 (2016) 133-136



Contents lists available at ScienceDirect

International Journal of Surgery Case Reports

journal homepage: www.casereports.com



A case report of chylous ascites after gastric bypass for morbid obesity



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ARTICLE INFO

Article history: Received 31 August 2016 Accepted 30 October 2016 Available online 5 November 2016

Keywords: Chylous ascites Gastric bypass Gastric cancer Morbid obesity

ABSTRACT

INTRODUCTION: We described the case of a highly aggressive antral gastric carcinoma with a scarce symptomatology, in a patient undergone Roux-en-Y Gastric Bypass (RYGB) for obesity.

PRESENTATION OF CASE: A 61 year-old white man in apparent good health, who underwent laparoscopic RYGB for obesity 18 months earlier, with a loss of 30 kg, reported a sudden abdominal distension and breath shortness with a weight gain of 5 kg in few days. Endoscopy of both upper gastro-intestinal tract and the colon were performed along with CT-scan and positron-emission tomography (PET) CT- scan. A biopsy of the palpable lymph node in the left supraclavicular fossa was taken for analysis. Abdominal paracentesis produced milky fluid, while citrine pleural fluid was aspirated by thoracentesis. Immunochemistry studies of the lymph node biopsy revealed tumor cells positive for cytokeratin (CK)7 and CK20, CDX2 and CAM 5.2 and negative for HER2 and TTF1 suggesting colon cancer. The colon and upper gastro-intestinal endoscopy were normal. A CT-scan and positron-emission tomography (PET) with 2-[fluorine-18]fluoro-2-deoxy-p-glucose (FDG) showed an intense FDG-uptake in the gastric antrum and in the lymph nodal chains. Given these findings, a diagnosis of poorly differentiated antral gastric carcinoma with multiple lymph node metastases was raised. The patients died 4 months after diagnosis.

DISCUSSION: RYGB is a widely performed bariatric operation and no data are reported on the risk of developing gastric cancer in the excluded stomach.

CONCLUSION: This case report suggests that great attention should be devoted to post-RYGB patients for an early diagnosis of malignant gastric cancer.

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1. Introduction

According to the epidemic increases in prevalence of obesity in the last decades, the use of bariatric surgery is constantly on the rise, not only to cure obesity itself but also to prevent obesity-related diseases, such as type 2 diabetes, cardiovascular diseases and respiratory diseases [1,2]. So far, one of the most commonly utilized surgical procedure, even in adolescents, is Roux-en-Y Gastric Bypass (RYGB) that can be performed laparoscopically, and it is considered the "gold standard" treatment for morbid obesity. RYGB consists of creation of a small and vertically oriented gastric pouch with a volume usually less of 30 mL. The upper pouch is completely divided by the gastric remnant and is anastomised to the jejunum, 30–75 cm distally to the ligament of Treitz, thus resulting in an exclusion of a gastric portion to further endoscopic examination [1].

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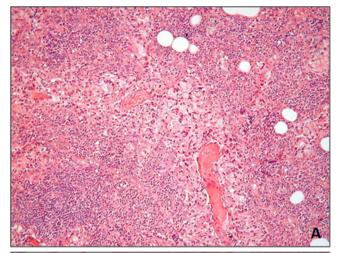
A case of poorly differentiated antral gastric carcinoma with multiple lymph node metastases, in spite of a scarce symptomatology, is described, along with the diagnostic sequence and confounding factors, resulting in a delayed diagnosis and a poor prognosis.

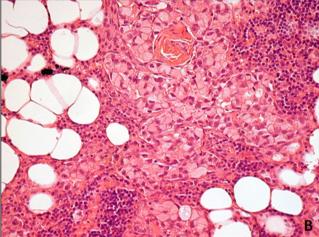
2. Case summary

A 61 year-old white man presented to our day-hospital of Metabolic Diseases because of abdominal distension and breath shortness of one week duration. He had been operated 18 months earlier of laparoscopic RYGB for obesity and lost 30 kg in 1 year, passing from a body mass index (BMI) of 41.8 to $31.7\,{\rm kg/m^2}$, and thereafter maintained a constant weight while he was in apparent good health and took no medications other than vitamin supplementation. The patient noted a sudden weight gain of 5 kg in few days. His medical history included heavy drinking (100 g alcohol per day) and smoking habit with ca. 30–40 cigarettes daily for more than 30 years. After the RYGB he continued smoking but stopped drinking. He denied nausea, post-prandial discomfort or pain, diar-

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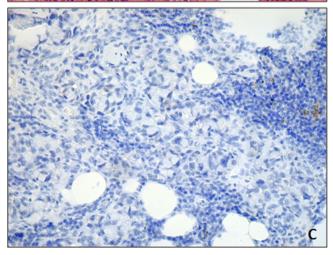


Fig. 1. A.B. Microphotograph of the poorly differentiated carcinoma with signet ring features. C. No immunohistochemistry staining was seen for HER-2- Score 0 (Dako Polyclonal 1:400).

rhoea, constipation, or decreased appetite. He did not refer of any abdominal trauma.

Physical examination revealed the presence of abundant ascites, a large right pleural effusion and a palpable lymph node in the left supraclavicular fossa.

Abdominal paracentesis produced 3000 mL milky-fluid rich in triglycerides, while a total of 1500 mL of citrine pleural fluid was aspirated by thoracentesis.

Transaminase, alkaline phosphatase, bilirubin, and albumin were in a normal range. A CT-scan showed multiple mesenteric and celiac lymphadenopathy with an average diameter of 1 cm. Multiple enlarged retroperitoneal lymph nodes were also present. No abnormality of the liver or pancreas were reported. Cytologic examination of ascites showed malignant cells.

An incisional left supraclavicular lymph node biopsy was performed and the sample was submitted on paraffin sections for immunochemistry studies with antibodies against several antigens.

The tumour cells were positive for cytokeratin (CK)7 and CK20, CDX2 and CAM 5.2 immunohistochemistry and negative for HER2 and TTF1 (Fig. 1).

The colonoscopy and the upper gastro-intestinal endoscopy were normal. Bone metastases were excluded by scintigraphy. A CT-scan and positron-emission tomography (PET) with 2-[fluorine-18]fluoro-2-deoxy-D-glucose (FDG) detected an intense FDG-uptake in the gastric antrum and in the lymph nodal chains (Fig. 2). Given these findings, a diagnosis of poorly differentiated antral gastric carcinoma with multiple lymph node metastases was raised.

3. Discussion

Obesity prevalence is dramatically increased worldwide and consequently, surgical procedures aimed to induce and maintain weigh loss are largely increasing in the Western Countries, reaching a plauteau of about 113,000 cases per year only in the United States [1]. At the moment, there are no statistical data showing the risk of gastric cancer in the excluded distal stomach after gastric bypass for obesity.

The incidence of gastric cancer in the major part of Western Countries is about 10–15 new cases per 100,000 inhabitants per year, with a median age at diagnosis in the United States of 70 years [3].

A decreasing incidence rate of distal gastric cancer has been observed while tumors in the proximal stomach, i.e. cardia and gastroesophageal junction, are increasing [4]. It is well recognized that *Helicobacter pylori* infection, dietary habits, smoking, and obesity are risk factors for the development of gastric cancer.

The main manifestation of this clinical case was the presence of a chylous ascites resulting from the accumulation of a milk-like peritoneal fluid as a consequence of intestinal lymph metastasis. Indeed, over two thirds of all cases of chylous ascites are due to abdominal malignancy that metastasize to mesenteric lymph nodes [5]. Primary malignancies which more commonly result in mesenteric lymph nodal involvement include carcinoma of the lung, pancreas, and gastrointestinal tract [5,6].

The presence of a left supraclavicular lymph node, the so called Virchow's Node [7], can help the physician identify the visceral origin of the tumor. The gastric origin of the lymph node metastasis in this specific clinical case was unclear on the basis on the immunohistochemistry. Cytokeratin, which forms the intermediate filaments of the cytoskeleton within both normal and malignant epithelial cells, is commonly used as a marker of epithelial cells. The multi-marker phenotype CK20-CK7-CK2 is generally applied to identify colorectal cancer metastasis. Tumor cells expressing positive immunoreactivity to low molecular weight cytokeratin (CAM 5.2), in combination with CK 20, CK 7 is useful to distinguish primary lung carcinoma (CK7+/CK20-) from primary colonic carcinoma (CK7-/CK20+) [8]. Therefore, the indications obtained from the histology of the supraclavicular lymph node were all in favor of a primary colorectal carcinoma.

Great attention, however, should be given to the stomach remnant in RYGB patients, even when the CT scan is negative for mass

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