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Sessile serrated adenoma/polyp leading to acute appendicitis with multiple pyogenic liver abscesses: A case report

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ABSTRACT

INTRODUCTION: Although appendicitis is a common disease, appendicitis concurrent with liver abscesses and sessile serrated adenoma/polyp (SSA/P) is rare.**PRESENTATION OF CASE:** A 69-year-old man presented with symptoms of abdominal pain and fever. Computed tomography (CT) revealed multiple liver abscesses and an enlarged appendix with a pseudotumoral appearance, which suggested acute appendicitis. In the emergency operation, ileocecal resection was performed for the perforated appendicitis with an inflammatory mass in the ileocecum. On macroscopic examination, the torose lesion was localized at next to the appendiceal orifice. The tumor was diagnosed as SSA/P based on the microscopic finding. The postoperative course was uneventful, and the liver abscesses were cured by antibiotic therapy. The patient was discharged 17 days after the surgery. **DISCUSSION:** In this case, SSA/P localization at next to the appendiceal orifice was suggested as the cause of the perforated appendicitis with multiple liver abscesses. The patient was successfully treated with a combination of surgery and antibiotic therapy.**CONCLUSION:** This is the first reported case of a patient with SSA/P that led to acute appendicitis with multiple pyogenic liver abscesses.© 2017 Published by Elsevier Ltd on behalf of IJS Publishing Group Ltd. This is an open access article under the CC BY-NC-ND license (<http://creativecommons.org/licenses/by-nc-nd/4.0/>).

1. Introduction

Appendicitis is most common disease, however, appendicitis complicated with a pyogenic liver abscess is rare [1].

Sessile serrated adenoma/polyp (SSA/P) is a colonic polyp [3] that can occur in the appendix [4]. SSA/P is now considered a precursor of microsatellite unstable colorectal carcinoma [5], and differentiating SSA/P from hyperplastic polyp is clinically important [6].

This is the first reported case of perforated appendicitis with multiple pyogenic liver abscesses concurrent with SSA/P. This case report was prepared in accordance with the SCARE criteria [7].

2. Presentation of case

A 69-year-old man was admitted for a 7-day history of abdominal pain and fever (39.2 °C). He had no previous medical and family history of genetic disorders. Abdominal examination revealed tenderness and muscular defense in the epigastric fossa. The laboratory

data of the patient at admission were as follows: C-reactive protein, 20.96 mg/dL (normal range, 0–0.5 mg/dL); white blood cell count, 13,900/μL (range: 4500–9000/μL); total bilirubin, 2.2 mg/dL (range: 0.2–1.0 mg/dL); aspartate aminotransferase, 68 IU/L (range: 8–38 IU/L); alanine aminotransferase, 88 IU/L (range: 4–44 IU/L); alkaline phosphatase, 663 IU/L (range: 104–338 IU/L); and γ-glutamyl transpeptidase, 248 IU/L (range: 16–73 IU/L). The tumor marker levels were within their normal ranges (carcinoembryonic antigen, 2.3 ng/mL; carbohydrate antigen 19–9, 10 U/mL). Contrast-enhanced computed tomography (CT) revealed multiple liver abscesses (Fig. 1a, b) and an enlarged appendix with a pseudotumoral appearance (septum-like structure; Fig. 1c, d), which suggested acute appendicitis. Therefore, we considered that the acute appendicitis was complicated with multiple liver abscesses and thus performed emergency operation after the patient consented to undergo emergency surgery. During the surgery, we found an inflammatory mass in the ileocecum due to the perforated appendicitis severely adhering to the retroperitoneal tissues and bladder. The intra-abdominal adhesions in the abdominal cavity were highly advanced; therefore, the perforation was blocked and peritonitis was localized. The perforated appendicitis was away from the liver. Curative treatment with appendectomy or cecum resection was considered difficult, so ileocecal resection was per-

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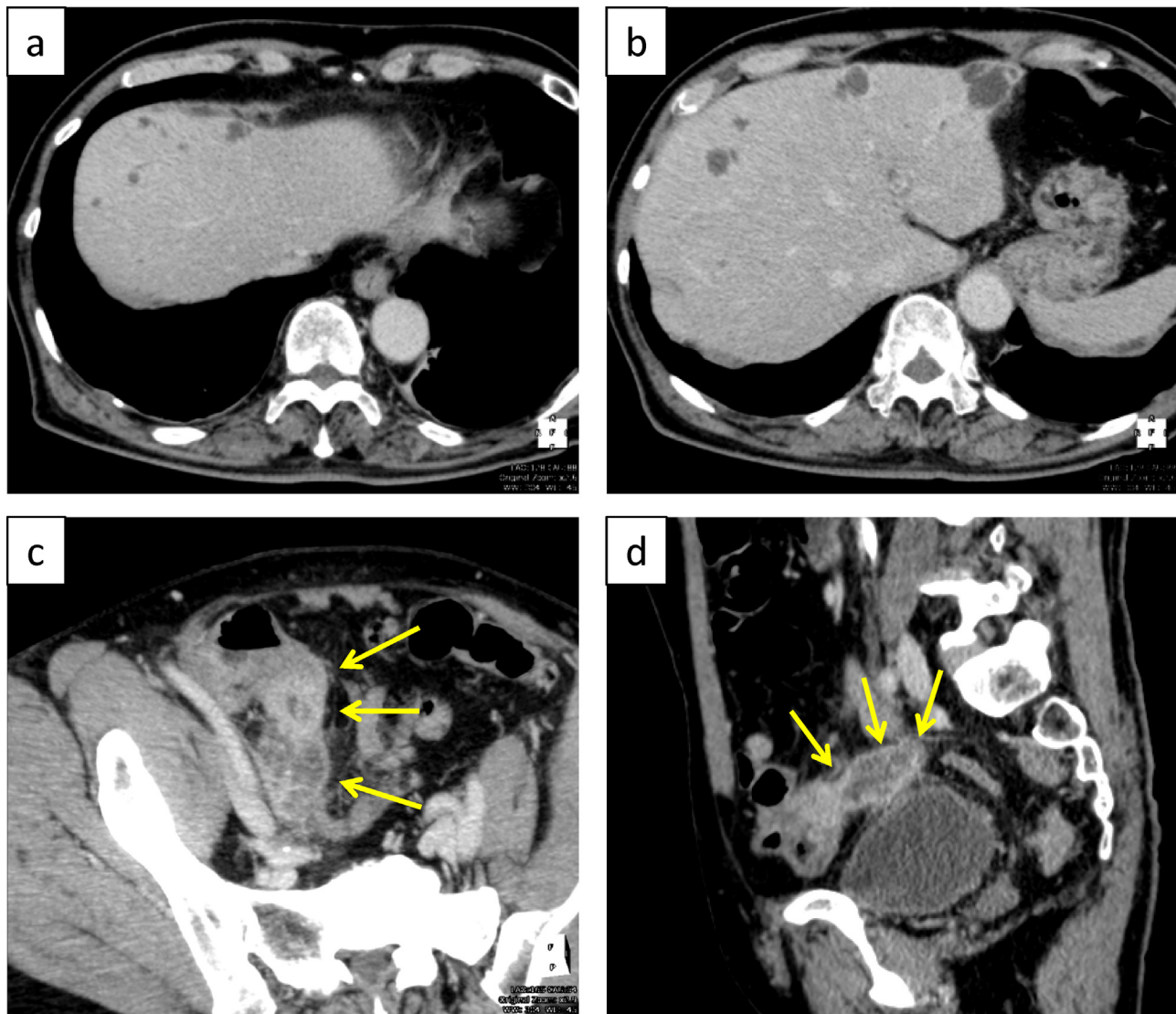


Fig. 1. Computed tomography (CT) image. CT scan showing (a, b) multiple liver abscesses and (b, c) an enlarged appendix with a pseudotumoral appearance (septum-like structure) (yellow arrow).

formed. On the other hand, for the liver abscess, we continued the antibiotic therapy without drainage because of the multiple liver abscesses. Macroscopic examination of the excised specimen revealed a torose lesion (20×10 mm in size) localized at next to the appendiceal orifice, and perforation of the appendix (Fig. 2). Microscopic examination of the lesion revealed serrated cavities in the gland (Fig. 3a) and the typical histological features of an SSA/P, such as dilatation and branching of basal crypts (Fig. 3b, c). Immunohistochemical staining was positive for p53, MUC5, and MUC6 expressions, and a nuclear expression of the proliferation-associated Ki-67-antigen (Fig. 4). Expressions of MUC5 and MUC6, mucin core proteins, were observed in the colorectal serrated polyps. Based on these findings, the tumor was diagnosed as SSA/P.

Although the patient had high fever (38.5 – 39.0 °C) due to the liver abscess 10 days even after the surgery, the liver abscess was successfully treated with antibiotic therapy using piperacillin/tazobactam-metronidazole, based on the results of the culture, where

Escherichia coli and *Bacteroides fragilis* were isolated from the appendiceal abscess. We confirmed the decreased size and number of the abscesses on CT 13 days after the surgery (Fig. 5a, b).

The postoperative course was uneventful, and the patient was discharged from the hospital 17 days after the surgery. He also received oral antibiotic therapy with semisynthetic 3rd generation cephalosporin for 17 days in the outpatient care setting until his serum CRP level returned to normal. The abscesses completely disappeared 59 days after the surgery (Fig. 5c, d).

3. Discussion

Although acute appendicitis is a common emergency disease (7%) [8], appendicitis with pyogenic liver abscess is rare, with an estimated incidence of less than 0.03% [1]. In most cases, liver abscess metachronously occurs after the start of treatment for a perforated, gangrenous, or phlegmonous appendicitis [2,9,10]. In a previous report, liver abscess was caused by organisms via the following three major routes: the biliary tract (60%), portal vein (6%), and hepatic artery (10%) [11].

In patients with appendicitis who have multiple liver abscesses, malignant biliary obstruction, inadequate drainage, or immunodeficiency, the overall mortality is as high as 11–31%, although the mortality rates have decreased over the past decades due to

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