Carcinosarcoma of The Rectum Presenting as an Intraabdominal Abscess

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ABSTRACT
Carcinosarcoma is a very rare type of a tumor and tends to occur in the proximal part of the digestive tract. We present an extremely rare case of a carcinosarcoma of the rectum with closed perforation and abscess formation. An 86-year-old woman was operated on with the diagnosis of intraabdominal abscess and a low anterior resection and a Hartmann procedure was performed. Histopathological diagnosis of the tumor was carcinosarcoma. No adjuvant therapy was suggested by our oncology department because of the advanced age and comorbid cardiac and respiratory illnesses of the patient.

Key words: rectum, carcinosarcoma, intraabdominal abscess

Case Report
An 86-year-old woman was contraversial admitted to our hospital with diarrhea, abdominal pain, nausea, vomiting, and weight loss of 8 kg in the last 6 months. On physical examination, she had moderate abdominal distention, guarding, and rebound tenderness in both lower quadrants. Her WBC was 18,000/mm³, hsCRP was 113 mg/L and Hb was 10.4 g/dl. Abdominal computed tomography revealed a pelvic necrotic mass measuring 9x6 cm (Figure 1).

She was operated on with the diagnosis of intraabdominal abscess. Exploratory laparotomy revealed a mass lesion of 10 x 15 cm at the rectosigmoid junction. A tumor could be felt in it originating from the colorectum. It was not possible to dissect the mass altogether; therefore, the abscess was drained first. Draining the abscess disclosed that there was a perforated tumor in the colonic wall. To include another mass lesion palpated 5-6 cm distal to the tumor with a 5 cm of distal margin, a low anterior resection and a Hartmann procedure was performed. Early postoperative period was complicated with acute renal failure and pulmonary problems. IV antibiotic treatment was continued to 21 days and the patient was discharged in good health. No adjuvant therapy was suggested by our oncology department because of the advanced age and comorbid cardiac and respiratory illnesses of the patient. She is currently in the fifth postoperative month.
Histological examination revealed a 4.5 x 4 x 4 cm tumor with necrosis and hemorrhage and serosal perforation, infiltrating the full thickness of the bowel wall; however, the mucosa was intact. Histopathological diagnosis of the tumor was carcinosarcoma (Figure 2). The tumor consisted of overlapping areas of poorly differentiated adenocarcinoma and indiffereniated sarcoma with condroid differantiation in focal areas. In addition, there was a 2.5 cm polyp displaying features of a well differentiated adenocarcinoma originating from a tubulovillous adenoma 5 cm distal to the primary tumor. Three of the seven lymph nodes extracted were metastatic. The sarcomatous component was immunoreactive for vimentin and it was negative for pancytokeratine.

**Discussion**

About twenty cases of colonic carcinosarcomas have been reported after the first report of Weidner in 1986 (1). These tumors are seen slightly more frequently among women. Skin, lung, breast, eye, head and neck are the sites where carcinosarcomas tends to occur mostly (2,3,4). In the gastrointestinal tract, carcinosarcoma arises predominantly in the oesophagus, stomach and biliary tract (5,6); whereas carcinosarcoma of the large intestine has been reported only rarely.

The histogenesis of carcinosarcoma is uncertain. The collision theory and the monoclonal origin theory are popular theories; however, recent molecular studies support the latter. According to this theory, a common stem cell origin for both cell components or metaplastic transformation of one neoplastic cell into the other may be the mechanism of carcinosarcoma formation. This could be either due to a malignant transformation of a pleuripotential stem cell capable of both epithelial and mesenchymal differentiation (the combination theory) or due to a sarcomatoid carcinomatous differentiation of a carcinoma or sarcoma (the conversion theory) (1,7,8). For carcinosarcomas developing in the digestive system organs, the metaplastic theory is supported, which also explains that in most cases, the carcinoma component precedes and that it is differentiated into the sarcomatoid component in accordance with the development of cancer clones (12).

Although a few cases with two to four years of survival were reported, prognosis is generally poor even after surgical resection (6). About 30% of the cases reported were metastatic when diagnosed, and another 40% metastasized during follow-up (5). The effectiveness of adjuvant therapy for these patients is controversial; however, since the metastatic component tends to metastasize predominantly, oncologists usually suggest chemotherapy following colon adenocarcinoma guidelines in these patients (5,6,9). Chemotherapy with 5-FU FL therapy (UFT+leucovorin) can be administered with capecitabine or MMC instead of treatmet together with cisplatin have also been adminis-tered to patients with metastasis in lymph nodes in accord-ance with colon cancer therapy, but still a satisfactory treat-ment effect has not been obtained as yet (3,5,7,9,10,11).

This case demonstrated that carcinosarcoma may cause perforation and intra abdominal abscess formation, and diarrhea probably due to partial intestinal obstruction. It may mimic acute gastroenteritis especially in elderly patients. To our best knowledge, this is the first case of a carcinosarcoma of the colon with closed perforation and abscess formation.
References


