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Pneumatosis intestinalis after systemic chemotherapy for colorectal cancer: A case report

Hsien Liu, Cheng-Ta Hsieh, Jui-Ming Sun

BACKGROUND
Pneumatosis intestinalis (PI), also known as intramural gas in the small intestine, is a rare condition encountered by patients with cancer after receiving chemotherapy.

CASE SUMMARY
A 78-year-old man with a history of colorectal cancer developed epigastric pain and diarrhea after receiving combination chemotherapy of fluorouracil, leucovorin, irinotecan, and cetuximab. Abdomen radiography revealed intramural air in the small intestinal wall. A computed tomography scan of the abdomen revealed the features of PI with air expanding into the mesentery. After surgery, the patient remained symptom-free throughout a 9 mo follow-up period during which he received chemotherapy of fluorouracil, leucovorin, and irinotecan.

CONCLUSION
Although chemotherapy-induced PI is rare among patients with cancer, the differential diagnosis of PI and fulminant complications (such as ischemia, infarction, and perforation of the gastrointestinal tract) should be conducted, in which case
an urgent surgical intervention is required.

**Key Words:** Pneumatosis intestinalis; Colorectal cancer; Chemotherapy; Surgery; Case report

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**Core Tip:** Pneumatosis intestinalis (PI) is a rare condition encountered by patients with cancer after receiving chemotherapy. The differential diagnosis of PI and chemotherapy-induced fulminating complications (such as ischemia, infarction, and perforation of the gastrointestinal tract) should be conducted, in which case an urgent surgical intervention is required.

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**INTRODUCTION**

Pneumatosis intestinalis (PI), which is characterized by the presence of submucosal or subserosal gas in the intestinal wall, is an uncommon disease[1]. It can occur as an idiopathic disease, or more commonly, as a secondary condition associated with the coexistence of gastrointestinal tract disorders or respiratory system diseases such as chronic obstructive pulmonary disease, ischemic bowel disease, intestinal obstruction, necrotizing enterocolitis, immunodeficiency, bacterial infection, and viral infection[2,3]. However, chemotherapy-induced PI is relatively rare in patients with cancer. Chemotherapy agent–induced cytotoxic damage and mucosal ischemia in the gastrointestinal tract may also lead to gastrointestinal perforation, necrotizing enterocolitis, or ischemic bowel[4]. Prompt surgical intervention may be required to manage the perforation or ischemic necrosis of the gastrointestinal tract [3]. Therefore, the differential diagnosis of PI and bowel perforation in patients with cancer after chemotherapy is essential for clinical physicians to treat acute abdomen[4]. Herein, we report a rare case of a patient with colon cancer who presented with acute abdomen after systemic chemotherapy. PI was diagnosed following radiological studies and surgical intervention. The possible mechanisms of PI in patients with cancer receiving chemotherapy are discussed and reviewed.

---

**CASE PRESENTATION**

**Chief complaints**
A 78-year-old man complained of acute lower abdominal pain with cramping pain and diarrhea lasting for 3 d.

**History of present illness**
A 78-year-old man with a history of mucinous adenocarcinoma (pT3N2bcM1b, stage IVB) in the descending colon and upper rectum underwent laparoscopic radical left hemicolectomy, sigmoidectomy, and loop T-colostomy. He then underwent chemotherapy comprising fluorouracil, leucovorin, and irinotecan (FOLFIRI); intravenous injections of 400 mg/m² fluorouracil, 200 mg/m² leucovorin, and 120 mg/m² irinotecan were administered every 2 wk. Starting from the second course of FOLFIRI treatment, the adjuvant chemo-agent (cetuximab) was administered at a dose of 500 mg/m². One week after the third course of FOLFIRI combined with the second course of cetuximab chemotherapy, he complained of acute lower abdominal pain with cramping pain and diarrhea lasting for 3 days.

**History of past illness**
The patient had a history of mucinous adenocarcinoma (pT3N2bcM1b, stage IVB) in the descending colon and upper rectum and underwent laparoscopic radical left hemicolectomy, sigmoidectomy, and loop T-colostomy.

**Physical examination**
The patient presented at our emergency department with a body temperature of 36.7 °C, heart rate of 127 bpm, blood pressure of 180/108 mmHg, and respiratory rate of 18 breaths per minute. A physical
examination revealed abdominal distention, tenderness in the epigastric region, and hypoactive bowel sounds. No rebounding pain was observed. The colostomy exhibited good perfusion with brown soft stool passage.

**Laboratory examinations**
Laboratory examinations revealed a white blood cell count of 1200/μL, platelet count of 245000/μL, hemoglobin level of 10.3 mg/dL, total bilirubin of 0.6 mg/dL, lipase level of 34 mg/dL, lactate level of 1.0 mg/dL, and C-reactive protein level of 146 mg/dL.

**Imaging examinations**
Abdominal radiograph revealed gas in the small intestinal wall (Figure 1). A computed tomography (CT) scan of the abdomen with contrast enhancement indicated intramural gas in the small intestine that expanded into the mesentery (Figure 2).

**FINAL DIAGNOSIS**
A pathological examination confirmed the diagnosis of PI with focal ischemic and ulcerative changes.

**TREATMENT**
The patient underwent upper midline mini-laparotomy surgery because bowel perforation or necrotizing enterocolitis was suspected. During surgery, expanded intraluminal air spaces in the small intestine were observed (Figure 3). An approximately 50 cm length of the proximal jejunum exhibited severe edematous changes and compromised mild blood circulation without necrosis. Segmental resection of the small bowel with end-to-end anastomosis was performed.

**OUTCOME AND FOLLOW-UP**
Postoperatively, the patient’s previously observed symptoms improved after 2 wk of parenteral nutrition, antibiotic treatment, and oxygen therapy. The FOLFIRI treatment for his colorectal cancer was started 3 mo after discharge. No recurrence of PI was observed during the 9 mo follow-up.

**DISCUSSION**
PI was first reported radiologically in 1946 by Lerner and Gazin[5]. It is an uncommon disease characterized by the presence of gas and free air in the extraluminal spaces of the intestines from the mucosa to mesenteric vessels[3]. Several terms have been used to describe PI, including pneumatosis cystoides intestinalis, intramural gas, pneumatosis coli, pseudolipomatosis, intestinal emphysema, bullous emphysema of the intestine, and lymphopneumatosis[1]. The incidence of PI is 0.03% according to the literature; however, this is believed to be an underestimation because most patients are asymptomatic and, consequently, do not receive clinical attention[6].

PI is a radiological finding and not a diagnosis[7], and it is commonly classified as primary and secondary forms[8]. Secondary PI is found in approximately 80% to 85% of patients and is often associated with bowel ischemia, trauma, inflammatory bowel diseases, chronic obstructive pulmonary disorder, use of specific medications, immunocompromised disease, and immunosuppressive therapy[8,9]. Although the exact pathogenesis of PI remains unclear, four categories are used to describe the pathogenesis of PI, namely, bowel necrosis, mucosal disruption, increased mucosal permeability, and pulmonary disease[10]. Mechanical and bacterial theories have been proposed to explain the development of PI[6,9]. A mechanical theory suggests that a defect in mucosal integrity allows for gas to be transmitted through the dissection of submucosal or subserosal layers and that peristalsis then propagates the gas to distant sites[6]. A bacterial theory proposes that some intramural gas is normally present in the gastrointestinal tract and that the overgrowth of normal bacteria (such as *Escherichia coli* and *Clostridium difficile*) leads to bacterial invasion of the bowel wall and lymphatic system through mucosal defects and the subsequent production of excess gas.

Chemotherapy-induced PI in patients with cancer is rare[4,11-15]. Many cytotoxic chemotherapeutic agents have been reported to be associated with PI; they include cyclophosphamide, cytarabine, vincristine, doxorubicin, daunorubicin, etoposide, docetaxel, irinotecan, cisplatin, methotrexate, fluorouracil, paclitaxel, tyrosine kinase inhibitors (imatinib, sunitinib, sorafenib, and erlotinib), bevacizumab (a monoclonal body to vascular endothelial growth factor), and cetuximab (a monoclonal
Figure 1 Plain radiograph of the abdomen revealing intramural gas in the small intestine.

Figure 2 Computed tomographic images of the abdomen. A: Gas entrapment in the wall of the small intestine (arrowheads); B: Air expanding into the mesentery (arrows).

antibody to epidermal growth factor receptor)\(^{[11,13-16]}\). This may contribute to cytotoxic damage, loss of mucosal integrity, mucosal ischemia, and the development of PI. Although four chemoagents (fluorouracil, leucovorin, irinotecan, and cetuximab) might have contributed to the development of PI in our patient, no recurrence of PI was observed after subsequent FOLFIRI treatment without cetuximab. This suggests that cetuximab played an essential role in the development of PI. The perforation of the gastrointestinal tract is also a rare life-threatening complication (due to bowel toxicity) that may occur after molecular-targeted chemotherapy\(^{[12]}\). Therefore, the differential diagnosis of PI and bowel perforation is crucial to the management of acute abdomen in oncologic patients receiving systemic chemotherapy, such as in the case of our patient.

The clinical presentation of patients with PI includes being asymptomatic, vomiting, weight loss, constipation, hematochezia, tenesmus, diarrhea, abdominal pain, and life-threatening peritoneal symptoms such as pneumoperitoneum, intestinal ischemia, peritonitis, and bowel obstruction\(^{[1]}\). The main radiological feature of PI is the presence of circular, linear, or curvilinear gas within the wall of the gastrointestinal tract on plain radiographs or CT scans\(^{[17]}\). CT scan is the most sensitive imaging tool for differentiating intraluminal air from the submucosal layer and identifying additional causes of PI, which include portal air, colonic tissue stranding, and dilated bowel. In a review of 37426 abdominal
and pelvic CT scans, Hawn et al[18] detected PI in 108 (0.3%) patients. In another review involving 28326 abdominal CT scans, Morris et al[17] discovered that out of 104 (0.37%) patients who were diagnosed as having pneumatosis, only 23% had observable PI on their plain radiographs. Cyst-like gas collection is usually benign, whereas linear collection tends to be associated with bowel infarction[10,18]. However, the recognition of these patterns should not be the sole basis for differentiating benign and fulminant conditions.

A consensus regarding the appropriate management of PI has not been reached due to the difficulties of delineating the underlying etiologies[17]. An initial clarification to differentiate life-threatening conditions from nonurgent ones is crucial[8]. Approximately 50% of patients with PI can be successfully managed nonoperatively. Because PI indicates that necrotic tissue is allowing gas to enter the extraluminal space, ischemia or infarction of the gastrointestinal tract system should be suspected, in which case an urgent surgical intervention is required. Based on the underlying diseases leading to PI, surgical procedures such as bowel resection, lysis of adhesion, bowel biopsies, or nontherapeutic exploratory laparotomy should be performed. However, patients with concomitant PI and portal venous gas tend to have bowel ischemia, which is associated with a high mortality rate. Patients with a serum lactic acid level of more than 2 mmol/L at the time of diagnosis have an overall mortality rate of more than 80%[18]. Patients with no signs of peritonism or sepsis can usually be managed conservatively[9]. Therefore, the occurrence of PI should trigger a clinical physician to investigate the possible causes, ensure a correct diagnosis, and develop an appropriate management protocol.

CONCLUSION

PI is a radiologic sign and not a diagnosis. Although chemotherapy-induced PI is rare among patients with cancer, the differential diagnosis of PI and life-threatening conditions (such as ischemia, infarction, and perforation of the gastrointestinal tract) should be conducted for patients who present with acute abdomen.

FOOTNOTES

Author contributions: Liu H and Hsieh CT drafted the manuscript; Liu H performed the surgery; Liu H collected the clinical data and performed the follow-up; Hsieh CT and Sun JM conducted the literature review; and Sun JM revised the manuscript critically for intellectual content; all authors have read and approved the final manuscript.

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