A Cause of Sudden Abdominal Pain in Elderly Woman: Sigmoid Volvulus: Letter to the Editor

İleri Yaştaaki Kadın Hastada Şiddetli Abdominal Ağrı Nedeni: Sigmoid Volvulus

Colonic volvulus is defined as the torsion of the large intestine around its mesenteric axis, which leads to an acute colonic obstruction. The risk factors implicated in sigmoid volvulus are chronic constipation, age, use of psychoactive drugs, neurologic disease, megacolon and a history of abdominal surgery.1,2 We report here a volvulus case occurred in a patient with Alzheimer dementia.

A 65-year-old woman with Alzheimer dementia presented to the emergency department with a 4-day history of abdominal distension, pain and constipation. She developed distended abdomen progressively. Her past medical history revealed constipation for 2 years. She had no history of cancer, abdominal surgeries, or colon screening studies. She was a non-smoker and nondrinker. Her vital signs were normal. Abdominal examination revealed marked distention with diminished bowel sounds and severe discomfort with deep palpation of the left lower quadrant, but no peritoneal irritation signs. Laboratory findings including a full blood count were normal. She had a serum sodium of 124 mEq/L (135-145 mEq/L), a potassium level of 2.8 mmol/L (3.6-4.8 mmol/L). A plain radiograph of the abdomen showed a markedly distended sigmoid loop with an inverted U-shape also known as the “coffeebean sign,” consistent with sigmoid volvulus and abdominal computed tomography (CT) reveals dilated colon with an air/fluid level, as well as the “whirl sign” composed of mesentery (Figure 1,2). The patient was hospitalized and hydrated with intravenous saline with potassium supplementation. After preparing the patient with fleet enema, flexible sigmoidoscopy was performed with minimal air insufflation, which showed normal mucosa in rectum and sigmoid colon till the level of the splenic flexure. No abnormality, such as ischaemic colitis, mucosal necrosis, or a “twist” in the colonic mucosa, was noted endoscopically. A repeat abdominal radiograph was done a day later showing resolution of the volvulus, and the patient was able to eat and pass motion normally after the sigmoidoscopy. She was discharged two days later.
Sigmoid volvulus is a common and potentially life-threatening condition occurring in the elderly. A volvulus of the colon occurs in the sigmoid region about 40% of the time, as in our patient. Patients usually have symptoms of continuous abdominal pain, distention, nausea, and constipation. On plain radiography, severely distended sigmoid loop is the classic finding. Some authors describe the dilated twisted sigmoid loop as an “inverted U” or “omega sign”, as in the present case.

Although sigmoid volvulus can often be diagnosed fairly accurately on abdominal radiographs, CT offers the added advantage of excluding other causes of intestinal obstruction in uncertain cases, such as presence of intra-abdominal abscesses, as well as diagnosing complications such as perforation. In most instances, decompression can be done non-operatively with insertion of a rectal tube, or performing flexible sigmoidoscopy. However, sigmoidoscopy should not be performed in patients who have developed clinical evidence of bowel gangrene (such as those with sepsis, fever, or peritonitis).

In conclusion, sigmoid volvulus should be considered in elder patients with chronic constipation and using psychoactive drugs who admitted with severe abdominal pain. Sigmoidoscopy is the easiest and cheapest procedure for both confirming diagnosis and treatment.

**REFERENCES**