Intestinal Obstruction Due to Fluid Accumulation in an Abdominal Hernia: A Rare Complication of Colonic Lavage

Colonic washout prior to colonoscopy, using polyethylene glycol-based electrolyte solutions (PEG-ELS), has proved to be safe and effective (1). However, complications, both major and minor, have been described (2–4). Recently, we observed a life-threatening complication using this technique.

An asymptomatic 88-year-old woman was referred to our department with iron-deficiency anemia. The clinical examination showed a large, incarcerated hernia within a cholecystectomy scar. On the barium swallow, the terminal ileum and ascending colon were found to be in the hernial sac (Figure 1). The patient was submitted to a colonic washout with PEG-ELS in preparation for colonoscopy. After drinking two liters, the patient developed obstructive symptoms. The clinical examination showed diffuse tenderness of the abdomen and muscle guarding. A radiograph revealed air-fluid levels in dilated small intestinal loops (Figure 2). An emergency laparotomy was performed to rule out strangulation. There were no signs of diminished viability of the bowel, and no resection was needed. The hernial sac was reduced, and the hernial ring, allowing the passage of three fingers, was closed. After a lengthy postoperative recovery, the patient is in good health one year later.

We think that the weight of the fluid accumulated in the incarcerated loops induced sufficient traction on the mesentery to cause obstruction. In a similar case report, obstruction was due to overinsufflation by the endoscopist (5). Although this complication is rare, its severity should be kept in mind by all colonoscopists. Patients with an abdominal hernia, especially when it is incarcerated, deserve extra attention when submitted to colonic lavage.
References


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