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Retrograde filling of the afferent limb as a cause of chronic nausea after single anastomosis loop duodenal switch

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Single anastamosis loop duodenal switch (SALDS) is a new surgical technique that was first described by Torres in Spain [1]. As this procedure is gaining in popularity worldwide, it is important to document the rare complications associated with it [2]. An unusual complication that can occur is retrograde filling of the afferent limb, causing symptoms like partial bowel obstruction. However, this has not been described in the literature as occurring after SALDS. This paper presents the first 2 cases of retrograde filling of the afferent limb causing chronic nausea that have been seen after laparoscopic SALDS surgery and subsequent management.

Case presentation

Presentation of Case 1

A 41-year-old female with a BMI of 41.2 kg/m² who had gastroesophageal reflux disease (GERD), hyperlipidemia, and hypertension underwent SALDS. Five months post-operatively she presented with new-onset nausea, abdominal fullness, and pain. During an upper gastrointestinal series (UGI), the patient experienced nausea and abdominal pain after the contrast was ingested. The patient's pain correlated with the contrast that primarily filled the afferent limb and dilated the limb (Fig. 1a, b). There was no reflux seen between the small bowel and the stomach on delayed

films. Because of her UGI series, an exploratory laparotomy was performed to identify the cause of her symptoms.

Presentation of Case 2

A 32-year-old female with a BMI of 71.5 kg/m² who had hypothyroidism, polycystic ovarian disease, and hypertension underwent a 2-stage SALDS. The patient had been scheduled for a full SALDS but the loop of bowel would not reach her duodenum during surgery because of a shortened mesentery. Therefore, she was taken back to surgery 6 months after her sleeve for a completion duodenal switch. Six months after her second surgery, she presented with nausea, intermittent vomiting, abdominal pain, and dizziness. An UGI series revealed contrast filling the afferent limb primarily, without reflux into the stomach on delayed films (Fig. 2). Her symptoms of nausea could be reproduced by having the patient drink barium, and when the barium dilated her afferent limb, she became nauseated. After consultation with the patient, the decision was made to return to the operating room.

Perioperative Case 1 and Case 2 management

Exploratory laparotomy (EL) was performed on both patients. In both cases, we found scar tissue that pulled the efferent limb superior to the duodenoileostomy, causing the flow of food and secretions down the afferent limb (Fig. 3a [1,2]). The scar tissue was taken down to allow flow down the efferent limb (Fig. 3b [3,4]). After this, the afferent limb was placed above the duodenoileostomy by tacking the afferent limb with silk sutures to the Sleeve antrum 4 cm

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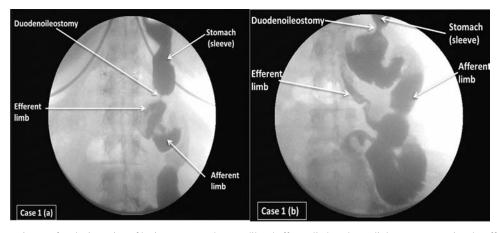


Fig. 1. (a) Image a few minutes after the ingestion of barium contrast shows a dilated afferent limb and very little contrast entering the efferent limb. (b) Image after 30 minutes of the contrast ingestion showing presence of little barium in the distal efferent limb and dilated afferent limb.

proximal to the duodenal ileostomy (DI; Fig. 3b [5]). No complications occurred after either procedure and blood loss was minimal. Total procedure time in both cases was <30 minutes.

Both the patients had an uneventful recovery and were discharged home on day 2. On postoperative day 1 and at 1 month (Fig. 4a, b), a UGI series were performed on both patients, which did not show any leaks or limb obstruction, and contrast drained through the stomach through DI into the efferent limb. Three months postoperatively, both patients are doing well with resolution of all their symptoms.

Discussion

Abdominal adhesions are a common complication of surgery, occurring in a majority of people who undergo abdominal or pelvic surgery. Ninety-four percent of patients develop primary abdominal adhesions after laparotomy [3].

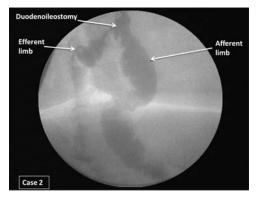


Fig. 2. Highlights preferential filling of the dilated afferent limb with the contrast. Also the efferent limb is much more narrow and filled with little contrast.

However, laparoscopic surgery and microsurgery reduce the risk of adhesion formation, but do not eliminate it entirely [4].

Abdominal adhesions can kink, twist, or pull the intestines out of place, causing an intestinal obstruction [5]. Similarly in these 2 cases, scar tissue was found around DI that pulled the efferent limb superior to DI, causing the food to enter the afferent limb and symptoms like partial bowel obstruction. The symptoms in both of the cases mimic some of the symptoms of afferent loop syndrome except they did not have bilious vomiting (ALS) [6-8]. However, the underlying pathology in ALS is obstruction of the gastrojejunal anastomosis [9,10]. When an UGI was performed in both cases before the EL, filling of afferent limb with contrast suggested a widely patent anastomosis, and the need to revise the DI was eliminated. Eventually in both cases the contrast emptied into the efferent limb without refluxing back to the stomach. Simply by bringing down the scar tissue and tacking the afferent limb above the DI resolved the retrograde filling of afferent limb. Because of these 2 patients, we have made it standard practice to routinely tack the afferent limb to the sleeve 4 cm proximal to the pylorus.

Conclusion

Retrograde filling of the afferent limb after SALDS is rare. The diagnosis is made using fluoroscopy to identify the path of the food and the dilation of the small bowel. The dilated small bowel causes the symptoms, and the treatment is removing the reason for that dilation. In our cases, it was the removal of adhesions distal to the duodenoileostomy that caused resolution of the symptomatic postprandial pain. Tacking the afferent limb to the antrum may help prevent this. Download English Version:

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