“Cascade Stomach”: Laparoscopic Treatment

The “cascade stomach” consists in a biloculation of the gastric cavity into a ventral (corpus and antrum) and a dorsal (fundus) recess (1, 2). Some authors associate this condition with gastric volvulus, while others consider that it is an inherent anomaly (1, 3). Various causative factors have been reported in the literature (1—5).

Our case concerned a 16-year-old boy who complained of postprandial epigastric pain, dyspepsia and nausea, relieved by the supine position. This had continued for about 1 year, and the patient experienced a weight loss of about 10 kg in the last 4 months. An upper gastrointestinal series (Figure 1) and a spiral computed tomography (CT) scan made the diagnosis easy.

We decided to treat the posterior displacement of the gastric fundus by surgically repositioning it in the anterior plane and anchoring it to the anterior wall of the corpus by means of a gastro-gastric anastomosis; this procedure allowed the restoration of optimal gastric emptying. We preferred not to perform a partial gastrectomy, which would necessarily have abolished the fundal secretion. We chose the laparoscopic technique because the young age...
and good general condition of the patient and the absence of previous abdominal surgery met the indication criteria. Mobilization of the gastric fundus did not require section of the vasa brevia, which is sometimes necessary to position the fundus in the ventral plane. No intra-abdominal adhesions were detected, thus substantiating the theory of the acquired nature of this condition. The procedure was uncomplicated.

A follow-up upper gastrointestinal series obtained on the 8th postoperative day (Figure 2) and an EGD confirmed the patency of the anastomosis. At the 3-month follow-up the patient reported complete resolution of symptoms and a 3-kg weight gain.

In conclusion, we recommend our procedure as the treatment of choice for "cascade stomach," given its feasibility and excellent clinical outcome.

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References

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