Gastric necrosis following intragastric balloon placement: urgent sleeve gastrectomy as a rescue and definitive procedure

Use of an intragastric balloon (IGB) as a temporary weight-loss procedure in obese patients has become widespread since 1982 [1,2]. We present a case of gastric necrosis following balloon refilling, successfully treated with an urgent vertical sleeve gastrectomy.

A 55-year-old woman with a body mass index (BMI) of 33.6 kg/m² had undergone IGB placement (Spatz Adjustable Balloon System; Spatz FGIA Inc., Jericho, New York, USA). After 3 months, the IGB was refilled. The patient came to the emergency unit with vomiting and abdominal pain 34 hours after the IGB was refilled. On admission, the woman presented with hypotension and tachycardia. A nasogastric tube was inserted, yielding 3 L of gastric content. After the patient was stabilized, an urgent computed tomography (CT) scan revealed gastric dilatation with wall pneumatosis and signs of perforation (Fig. 1).

An urgent laparotomy was carried out. On exploration, gastric necrosis and perforation were confirmed (Fig. 2). A vertical sleeve gastrectomy was performed. An intraoperative endoscopy assessed the viability of the remnant esophagogastric junction and gastric mucosae. The patient was discharged from hospital on the postoperative day 15. The patient was in good condition 6 months after the sleeve gastrectomy, with a BMI of 29.1 kg/m².

Since the first IGB placement by Nieben and Harboe in 1982, there has been a steep increase in the number of these procedures as a temporary measure for losing weight [1,2]. Among the major IGB complications reported, several stand out: balloon deflation and migration, intestinal obstruction, and massive gastric dilatation with necrosis and perforation [3, 4].

Regarding gastric necrosis in patients with IGB devices, a total of 16 cases have been previously reported. In our case, the perforation was diagnosed 48 hours after refilling the balloon device. There has been only one previous case in which an emergency sleeve gastrectomy was performed as a rescue treatment for gastric fundus necrosis in a patient with gastric banding and a misdiagnosed type II paraesophageal hernia [5].

Competing interests: None
References


Bibliography
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