A 61-year-old man ate polyurethane pieces made of self-expanding spray foam. He presented to the emergency department 3 weeks later with upper abdominal pain. Routine laboratory tests were normal. Esophagogastroduodenoscopy (EGD) revealed a bezoar (Fig. 1a) and three deep ulcers in the gastric corpus (Fig. 1b). The bezoar was approximately 8 cm in diameter, nonadherent, nonobstructive, gray, shiny and of hard consistency.

EGD was repeated twice with the patient sedated by propofol to extract the bezoar, which took a total endoscopy time of 7 hours. As all endoscopic instruments such as snares were slipping on the surface of the bezoar and lithotripsy Dormia baskets were too small, a gutter was dug around the whole circumference of the bezoar to allow it to be grasped with a polypectomy snare. To do so, a rat-tooth and alligator-jaw grasping forceps (FG-47L-1; Olympus, Tokyo, Japan) was used because it presented a large opening diameter (14.9 mm), which accelerated the process, and the rat-teeth did not slip over the surface of the bezoar (Fig. 1c). A 55 × 25-mm internal-diameter polypectomy snare (Sonnet; Cook Medical, Limerick, Ireland) was inserted into the gutter and firmly closed to split the bezoar (Fig. 1d). The process was repeated until the size of the fragments allowed atraumatic extraction (Fig. 2).

At the end of the first EGD, particular attention was paid to not leaving fragments of a size less than 3 cm in the stomach, which could have migrated into the small bowel and caused ileus. No complications occurred and proton pump inhibitors were prescribed; the patient was doing well at 1-month follow-up.

Expanding spray foam is made of polyurethane or acrylic latex; when the spray lands on surfaces it expands and foams up, then hardens to an aerated material. As polyurethane is highly inflammable, we did not use electrosurgical devices to fragment the bezoar but in vitro application of argon plasma coagulation on harvested fragments had almost no effect. The ulcers were likely to have been caused by local pressure on the gastric wall, as has been reported with intragastric balloons used for weight loss [1,2]. A case of polyurethane foam ingestion complicated by small bowel obstruction in a patient who underwent surgery has been reported [3]; to the best of our knowledge, this is the first case of successful endoscopic extraction of a gastric bezoar made of self-expanding foam. Such bezoars are part of a new entity called plastobezoar [4].

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