Dear Editor,

Bezoars are accumulated collections of indigestible material in the gastrointestinal tract. Although their true incidence in the pediatric population is unknown, bezoars usually occur in females, adolescents, and children with psychiatric or neurological disorders (1).

The treatment changes according to the type of bezoar and its location. It can be conservative or surgical. Recently, the effectiveness of Coca-Cola for the dissolution of gastric bezoar has been reported (2).

Here, we present a case of gastric trichobezoar treated by endoscopic fragmentation in combination with Coca-Cola administration.

A 13-year-old-girl presented to the gastroenterology clinic due to abdominal fullness and discomfort. Physical examination revealed a palpable tumor sized 10×7 cm within the epigastrium. On barium abdominal X-ray and computed tomography, the stomach was found to be distended and filled with a large solid mass (Figure 1). The patient had a habit of eating hair, light rope, nails, and wet wipes.

Upper gastrointestinal endoscopy was performed. The inner cavity of the stomach was filled with a large bezoar composed of hair and light ropes (Figure 2). We injected Coca-Cola into the bezoar from multiple directions. Attempts of endoscopic fragmentation using mouse-teeth clamp and polypectomy snare were unsuccessful because of hard consistency of the bezoar. After endoscopy, we administered oral Coca-Cola, adjuvant prokinetics, and pancreatic enzyme supplements.

At the end of second week, the gastric bezoar had dissolved partially. Coca-Cola was injected through the accessory working channel into the bezoar mass, and the mass was fragmented using several accessories. Medical therapy was continued.

At the end of third week, the size of the bezoar increased and compacted. After endoscopy, it was learned that the patient continued to eat hair. A giant bezoar sized 15×11 cm was resected during surgery.

In 2013, Ladas et al. (3) published a review of adult cases with Coca-Cola administration and reported complete phytobezoar dissolution in 50% of cases and partial dissolution and concomitant endoscopic removal in additional 41.3% cases. Lee et al. (4) reported that complete dissolution of bezoars was observed in 23.5% of cases, whereas partial dissolution was observed in 76.5% cases treated with Coca-Cola administration. It is interesting to note that Coca-Cola is completely ineffective for persim-
mon phytobezoars (4). Because of different risk factors and etiologies, these data may not generalize to the pediatric population.

In the literature, a few interesting cases, including some of children, were treated effectively with Coca-Cola administration, with direct injection of small amounts of Coca-Cola directly into the bezoar. However, all of them were phytobezoar (1,4). There has been no report on trichobezoar treated with Coca-Cola administration. We treated a trichobezoar by endoscopic fragmentation in combination with Coca-Cola administration. At second week, we were partially successful. However, due to continued hair eating and persistence of the bezoar, we had to opt for surgical resection.

In conclusion, Coca-Cola administration may be inexpensive, effective, safe, and well-tolerated first-line alternative to surgical or endoscopic removal of bezoars. However, it is not as effective in treating trichobezoar as in case of phytobezoar.

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REFERENCES