A 44-year-old man went to the local hospital with a 3-day history of nausea, vomiting, abdominal pain, and difficulty eating after drinking. Gastrointestinal endoscopy showed a kidney-shaped bezoar obstructing the esophagus at 30 cm from incisors. On esophagography, the esophageal walls were seen to be stretched thin by the large bezoar (▶Fig.1). Computed tomography scanning showed that the bezoar, which was located in the lower esophagus, was about 30-mm wide, 25 mm in the anteroposterior direction, and 53 mm in length (▶Fig.2a, b). Multiplanar reformation showed that the bezoar was close to the major blood vessels and heart (▶Fig.2c).

On day 4 of admission, the patient underwent laser lithotripsy. After the bezoar had been partially broken up by the lithotripsy, we attempted removal with a wire-guided retrieval basket and snare, but neither were successful (▶Video 1). Laser lithotripsy was performed again. The broken bezoar fragments were then pushed into the stomach and crushed by the wire-guided retrieval basket. Once the bezoar had been removed from the esophagus, multiple ulcers, including two large ones, were seen at 30–36 cm from the incisors (▶Fig.3a). Following the lithotripsy procedure, the patient was treated with sodium bicarbonate to facilitate dissolution of the bezoars. At follow-up 1 month later, gastroscopy showed that the bezoars had disappeared and the esophageal ulcers were well healed (▶Fig.3b).

Esophageal bezoars are rare, in contrast to the more common gastric bezoars. Esophageal bezoars are often associated with mechanical obstruction of the esophagus or reflux of gastric bezoars [1, 2]. A bezoar that lodges in the esophagus often causes acute obstruction; its most acute onset can cause chest pain and difficulty in swallowing. If the bezoar is incarcerated in the esophagus for a longer time, the esophageal wall can ulcerate, bleed, and even perforate [3]. Usually, a wire-guided retrieval basket or snare is used as the first approach for foreign body removal in the esophagus [4, 5]; however, alternative methods to manage large foreign bodies should be considered. As in our case, the hard bezoar was
huge and near to large blood vessels. The risk of esophageal perforation or blood vessel rupture meant that conventional treatment was difficult, which was the main reason we chose to use laser lithotripsy.

Competing interests

The authors declare that they have no conflict of interest.

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