An alternative endoscopic treatment for massive gastric bezoars: Ho:YAG laser fragmentation

Gastrointestinal (GI) bezoars are aggregates of indigestible material that occur mainly in patients with altered GI anatomy (i.e., bariatric surgery, partial gastrectomy) and/or motility disorders (i.e., gastroparesis, drug-induced delayed gastric emptying). Other risk factors are high fiber intake, psychiatric diseases, and severe constipation [1].

Treatment strategies for bezoar fragmentation include pharmacological, endoscopic, and surgical approaches. Endoscopic treatment of gastric bezoar consists of attempted fragmentation by using different devices such as snare, forceps, baskets, lithotripters, argon plasma coagulation, and needle-knife [2,3]. The use of a laser-ignited mini-explosive technique with neodymium-doped yttrium aluminium garnet (Nd:YAG) laser has also been described [4]. To date, only one article from China (original language) has described the use of holmium:YAG (Ho:YAG) laser lithotripsy in this field [5].

We present two video cases of massive gastric phytobezoar, which were unresponsive to pharmacological approaches and were successfully treated with Ho:YAG laser (Lumenis Ltd., Yokneam, Israel). The first patient was a 73-year-old man with a history of Billroth I partial gastrectomy and were discharged 1 day after the endoscopic treatment.

In conclusion, Ho:YAG laser fragmentation represents a safe, effective, and rapid endoscopic approach for the treatment of massive gastric bezoars.

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