Esophagogastroduodenoscopy was performed in a 48-year-old Caucasian male suffering from progressive dysphagia for 2 years. A stenosis of unknown origin was found at 25 cm from the incisors, which could not be passed by a conventional endoscope (8.8 mm) (Fig. 1). The stenosis was characterized by two lumina separated by a bridge of intact mucosa. Computed tomography scans showed extensive thickening of the esophageal wall, probably due to scarring, with formation of a septum in the esophageal lumen (Fig. 2). Using a pediatric endoscope (5.9 mm) the proximal stenosis could be passed. At 38 cm, a septum of intact mucosa was found similar to that in the proximal esophagus. Again, two lumina could be observed; however, only the larger lumen could be intubated endoscopically (Video 1). A guide wire showed communication of the two esophageal ducts (Fig. 3). Miniprobe endosonography revealed normal muscular layers within the esophageal wall as well as within the septum (Fig. 4). Kinematography showed a long-segment stenosis of the upper esophagus and an additional filiform, blind-ending lumen ventral to the esophageal main lumen (Video 2). Incomplete tubular duplication of the esophagus was diagnosed.

Duplication of the esophagus is a rare congenital malformation caused by an error in early embryogenesis, with an incidence of about 1 in 8200 [1]. The cystic form of esophageal duplication is more commonly observed whereas the tubular type seems to be extremely rare (5% – 10%) [2]. Most patients (70% – 90%) who suffer from esophageal duplication become symptomatic in childhood and are diagnosed before 2 years of age. Only a few case reports exist of tubular esophageal duplication becoming symptomatic in adulthood [3 – 5]. Incomplete tubular duplication of the esophagus was diagnosed. According to the very limited literature, surgery is the first-line treatment of tubular esophageal duplication. In our case, however, the patient refused surgery. Dilation therapy and proton pump inhibitor medication led to clinical improvement with satisfactory relief of the patient's complaints.
References


Fig. 4 Endosonographically physiologically muscular layers of the esophageal wall with no hint of malignancy and normal muscular layers within the septum.

Bibliography


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