Primary pyloric stenosis (PPS) in adults is a rare condition. The symptoms are those of gastric outlet obstruction. The standard treatment is balloon dilation, pyloroplasty, or occasionally surgical distal gastrectomy [1]. Peroral endoscopic pyloromyotomy (POP) has been used to improve gastric emptying in selected patients with refractory gastroparesis due to diabetes [2, 3] or with gastric outlet obstruction following esophagectomy [4]. To the best of our knowledge, this is the first case in which POP was used to treat PPS.

The patient was an otherwise healthy 18-year-old man with chronic symptoms of gastric outlet obstruction. After a thorough examination, adult idiopathic hypertrophic pyloric stenosis (AIHPS) was diagnosed (Fig. 1a). He was initially treated several times with injections of onabotulinumtoxinA (Botox, Allergan) into the pylorus, which resulted in transient, dramatic relief of his symptoms.

After the patient had given informed consent, we performed POP while he was under general anesthesia. Prophylactic antibiotics were administered. A posterior myotomy was planned in case the patient were to require a surgical myotomy in the future. After the submucosal injection of 0.9% NaCl approximately 5 cm proximal to the pylorus, a 1-cm incision was made in the mucosa. A submucosal tunnel was created along the posterior gastric wall to the pyloric ring with a Triangle Tip Electrosurgical Knife (KD-640L; Olympus, Tokyo, Japan). The circular muscle of the pylorus was dissected until the mucosa of the duodenal bulb had been reached (Fig. 2). The longitudinal muscular layer was left intact. The endoscope was withdrawn, and the mucosal opening was closed with six endoscopic clips (HX-610-090L; Olympus) (Fig. 3, Video 1). The patient was observed overnight while fasting and discharged the next day. No complications developed. At 6-month follow-up, he remained free of symptoms.

In conclusion, POP appears to be a valuable approach that can relieve the symptoms of patients with PPS.

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