A 36-year-old woman presented with high grade peptic stenosis in the distal esophagus (Fig. 1). After three consecutive sessions of steroid injection/dilation with disappointing results, a biodegradable polydioxanone esophageal stent (SX-Ella-BD, 25 × 80 mm; Ella-CS, r.s.o., Hradec Králové, Czech Republic) was inserted (Fig. 2). The patient experienced retrosternal pain for a short period of time after the intervention, but otherwise she had an uneventful recovery and was discharged 48 hours after the intervention. The patient was kept on high dose proton pump inhibitor treatment and had almost complete resolution of dysphagia. At 4 months after stent insertion the patient presented with recurrent dysphagia. A repeat endoscopy showed the partially degraded stent, with hyperplastic tissue at the proximal end, resulting in severe stenosis (Fig. 3). The stenosis was treated with argon plasma coagulation (Fig. 4). On follow-up endoscopy 10 months after stent insertion, the tissue hyperplasia had largely subsided (Fig. 5a) and the stenosis had resolved completely (Fig. 5b). The patient continues to remain symptom-free since over 18 months.

Recently, self-expanding pH-dependent biodegradable polydioxanone stents have become available for the treatment of refractory peptic esophageal stenosis [1]. These stents confer a continuous dilatation force over a longer time period, while avoiding repeat endoscopy for stent removal. However, experience with these stents is still limited [2] and cases of severe tissue hyperplasia resulting in recurrent dysphagia have been described [3]. To alleviate symptoms, endoscopic balloon dilation [3] or the temporary implantation of a second self-expanding plastic stent have been reported [4]. The present case report adds argon plasma coagulation as another possible treatment option. This treatment seems to be particularly suited because of its low complication rate [5], and the tissue hyperplasia will eventually subside after complete degradation of the stent.
Competing interests: None

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