A 63-year-old man attended the hospital due to early satiety and indigestion. He had had peptic ulcer disease for several years and had received proton pump inhibitor (PPI) therapy for a prolonged period at another center without satisfactory outcome. Endoscopic examination revealed a narrowed pyloric channel that precluded passage of a scope (Fig. 1a). Urea breath test result was negative, proving that previous *Helicobacter pylori* eradication treatment had been successful.

To alleviate the patient’s symptoms, we carried out repeated endoscopic balloon dilation at 7–10-day intervals, using through-the-scope (TTS) balloon dilation catheters up to 12 mm diameter. However, after five sessions of this intervention there was no improvement in the symptoms. As the patient did not want to undergo surgery, endoscopic self-expanding metallic stent (SEMS) installation was attempted. A 7-cm, partial covered stent (Hanarostent, M. I. Tech Co., Ltd., Seoul, Korea) was deployed using an endoscope and the TTS method (Fig. 1b). There were no immediate complications and the patient was put on a liquid diet that night. After 2 weeks, follow-up endoscopy revealed a patent stent in a fairly good position. Considering the possibility of in-stent growth of granulation tissue, the stent was removed after the fourth week of insertion via endoscopy with forceps (Fig. 1c). Use of argon plasma coagulation (APC) to ablate the in-growing granulation tissue (Fig. 1d) allowed reininsertion of the SEMS at 4–8 weeks intervals at the endoscopist’s discretion. The removal/insertion process was repeated six times. The final endoscopic examination revealed a significantly wider pyloric channel, which allowed easy passage of an endoscope (Fig. 2). The patient is currently on double doses of PPI, and has had no signs or symptoms of obstruction over 1 year of follow-up.

Endoscopic balloon dilation is a common method for management of benign pyloric stricture [1–3], but has been criticized for suboptimal results, repeat procedures, and rare complications such as bowel perforation [4, 5]. The present case exemplifies endoscopic SEMS insertion as another way for managing benign pyloric strictures, and our patient is the first successful case to be reported. SEMS may be used as a salvage treatment for pyloric stenosis or even as the main intervention. Removal with APC of tissue growing through the stent mesh or over the stent ends also enables prolonged SEMS placement.

**Competing interests:** None


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**Fig. 1**  
(a) Narrowed pyloric outlet due to recurrent duodenal ulcer, precluding passage of an endoscope. (b) Self-expanding metallic stent (SEMS) inserted using the through-the-scope method. (c) The SEMS was removed endoscopically and reinserted at 4–8 weeks’ intervals. (d) Tissue growing through the stent mesh was trimmed using argon plasma coagulation (APC), several weeks after stent insertion.

**Fig. 2**  
Previously narrowed pyloric channel showing a significantly larger lumen after six sessions of self-expanding metallic stent insertion-removal.
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Endoscopy 2011; 43: E187 – E188
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