A 73-year-old woman with rectal adenocarcinoma at 10 cm from the anal verge underwent laparoscopy-assisted low anterior resection with a protective loop ileostomy. Postoperatively the patient received adjuvant radiotherapy and chemotherapy for 6 months. After the chemoradiation treatments, a digital rectal examination prior to ileostomy takedown revealed anastomotic obstruction. Under direct visualization using a colonoscope (CF-Q240; Olympus Optical Co, Ltd, Japan), no opening was found in the anastomotic occlusive web (Figure 1). Fluoroscopy showed a blind end at the level of the anastomosis (Figure 2). An injector (NM-200U; Olympus) was inserted into the center of the circular staple line at the level of the anastomosis, and diluted dye (Telebrix; Guerbet, France) was injected to identify the proximal lumen under fluoroscopic guidance (Figure 3). Injection of water through the injector dilated the lumen of the proximal atrophied bowel. The anastomotic occlusive web was incised in a radial fashion using a needle-knife (Figure 4). Under endoscopic observation, a controlled radial expansion balloon dilator (Boston Scientific Cork Ltd, Ireland) was inserted through the web opening and insufflated with water (Figure 5).

The successful destruction of the occlusive web facilitated passage of the colonoscope, allowing evaluation of the entire colon (Figure 6). The patient tolerated the procedure well without complications.

Management of anastomotic strictures is mainly performed endoscopically by balloon dilation [1 - 3]. Patients with a completely occluding anastomotic web lack even a small opening through which a guide wire can be inserted, making further major corrective surgery technically demanding. In one patient, a completely
obstructed colonic anastomosis was managed using a combined antegrade-retrograde endoscopic rendezvous technique using two colonoscopes [4]. With our endoscopic technique, injection of a dye under fluoroscopic guidance enabled us to identify the proximal lumen and to rupture the occlusive web successfully.

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