New drug-delivery balloon catheter for easy and fast injection of triamcinolone after esophageal endoscopic submucosal dissection

Esophageal endoscopic submucosal dissection (ESD) is a very common and useful endoscopic treatment for superficial esophageal cancer [1]. The most common delayed adverse event of esophageal ESD for extensive lesions is stenosis [2]. Local injection of triamcinolone is the most common form of stenosis prevention [3], and the method using a needle is a rather complicated and time-consuming procedure. A new drug-delivery balloon catheter is a device with multiple micro holes on its surface that eject fluid from the balloon when the balloon pressure rises.

A man in his 60s underwent ESD for semiperipheral superficial esophageal cancer in the upper thoracic esophagus (Fig. 1). The resected pathology was squamous cell carcinoma, and curative resection was obtained. After resection, the mucosal defect extended to 7/8 of the circumference (Fig. 2), and triamcinolone 40 mg was injected into the post-treatment ulcer using the new drug-delivery balloon catheter (Video 1). The procedure was completed in only a few minutes, and was very safe and simple. Post-procedure observation showed that triamcinolone was injected evenly and firmly into the ulcer (Fig. 3).

A new drug-delivery balloon catheter allows for safe, simple, and quick triamcinolone injection after esophageal ESD.

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Conflict of Interest

The authors declare that they have no conflict of interest.

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