Same-session salvage endoscopic submucosal dissection for an incompletely resected rectal neuroendocrine tumor

A 61-year-old gentleman was referred for a rectal subepithelial lesion identified incidentally during screening colonoscopy. Lower endoscopic ultrasound demonstrated a 10-mm submucosal lesion 5 mm in thickness with well-defined borders not invading the muscularis propria (Fig. 1). Endoscopic mucosal resection (EMR) was performed with adequate submucosal lift (Fig. 2); however, hot snare resection transected the lesion with obvious residual yellow tissue within the submucosa (Fig. 3).

The procedure was immediately converted to endoscopic submucosal dissection (ESD) using a hook knife (Olympus America, Center Valley, Pennsylvania, USA) (Video 1). The lesion had an intact capsule at the lateral and deep margins (Fig. 4). The final resection site demonstrated no macroscopic residual disease and required 33 minutes for ESD (Fig. 5). Histological examination revealed a grade 1 well-differentiated neuroendocrine tumor (NET) involving the mucosa and submucosa without evidence of lymphovascular invasion and a Ki-67 index of 1%. The peripheral and deep resection margins were negative for tumor. The patient reported no adverse events at 4-week follow-up.

Small rectal NETs localized to the mucosa or submucosa can be treated with endoscopic resection [1]. Superficial rectal NETs smaller than 1 cm are often managed with EMR. However, there are currently no widely used guidelines regarding the management of rectal NETs 10–20 mm in diameter [2–5].

In this case, although the lesion was small, the submucosal involvement resulted in incomplete resection with EMR despite adequate lifting. This highlights that if recognized ahead of time, even small lesions involving the submucosa should be considered for upfront ESD. However, if EMR is attempted and results in incomplete resection, same-session conversion to ESD is feasible. This pre-
vents the need for a second procedure and another sedation and allows for performance of submucosal dissection of relatively normal tissue. Delayed ESD is tedious owing to the robust submucosal fibrosis that may occur after hot snare resection.

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Competing interests

Dr. Chandrasekhara is a shareholder for Neva-kar Corporation and is on the advisory board of Interpace Diagnostics. He is a consultant for Covidien LP.

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Video 1 Same-session salvage endoscopic submucosal dissection for an incompletely resected rectal neuroendocrine tumor.