Endoscopic transmural hydro-dissection as a rescue therapy for rectal fibrotic adenoma

The rectum is considered a feasible and safe area in which to perform endoscopic submucosal dissection (ESD) [1, 2]. Therefore, ESD is a suitable approach for the treatment of high risk rectal adenomas. However, scarred and fibrotic polyps have recently been described as the only preoperative predictor of failed ESD in the rectum [2, 3]. Transanal endoscopic microsurgery (TEM) has been shown to be an effective treatment for lower rectal carcinomas staged as T1 or T2 [4], owing to the depth of the resection.

We present the case of a 25 mm 0-I s type adenoma with wide scarred areas caused by two previous failed TEMs, located 3 cm away from the dentate line (Fig. 1), in a 75-year-old man without any relevant medical history. The pocket creation method was adopted because of the expected submucosal fibrotic tissue [5]. The first stage of the tunnel was created without any drawbacks using an Erbejet-2-HybridKnife (Erbe Elektromedizin GmbH, Tübingen, Germany). However, when the area below the lesion was reached, dramatic fibrotic tissue became visible. This finding made it extremely difficult to identify...
a feasible cutting line between the submucosal and muscular layers. At this point (stage 2), we decided to carry out a transmural dissection between the transverse and longitudinal muscular layers, in order to reach a feasible cutting line inside the submucosal layer (▶ Fig. 2, ▶ Fig. 3, ▶ Video 1). Consequently, we successfully achieved en bloc resection of the lesion (stage 3). Subsequently, the muscular defect was closed using endoclips (Resolution; Boston Scientific, Marlborough, Massachusetts, USA). The patient was discharged 72 hours after the procedure.

The histopathological analysis revealed a transmural specimen with high grade dysplasia (R0 resection), intense fibrotic submucosal tissue, and superficial muscular propria layer (▶ Fig. 4).

In conclusion, the pocket creation method performed in fibrotic and scarred lesions located in the lower rectum,
allowed a safe and deep dissection across muscular layers. This approach might support ESD as a rescue therapy following failed TEM.

**Competing interests**

None

**The authors**

Joaquín Rodríguez Sánchez1, Eva de la Santa Belda1, Lucia González López2, Carlos Sánchez García1, Bartolomé López Viedma1, José Olmedo Camacho1

1 Gastrointestinal Endoscopy Unit, Hospital General Universitario de Ciudad Real, Ciudad Real, Spain
2 Pathology Department, Hospital General Universitario de Ciudad Real, Ciudad Real, Spain

**Corresponding author**

Joaquín Rodríguez Sánchez, MD, PhD
Gastrointestinal Endoscopy Unit, Hospital General Universitario de Ciudad Real, C/Obispo Rafael Torija s/n, Ciudad Real 13005, Spain
Fax: +34-926-278000
joakinrodriguez@gmail.com

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