Peroral endoscopic myotomy (POEM) was first performed in 2008 by Inoue and since then has been used widely, with noninferiority to Heller’s myotomy [1]. A critical step during POEM is ensuring an appropriate length of the gastric myotomy (2–2.5 cm), as a short myotomy can lead to a lack of response, and if too long, a higher incidence of moderate reflux esophagitis may occur without improving clinical efficacy [2,3]. Various methods of verifying the proper extent of the tunnel have been described: use of a double scope for transillumination at the gastric cardia [4]; identification of the two penetrating vessels during posterior POEM [5]; distance from incisors (insertion depth); intraprocedural X-ray; or injection of indocyanine green into the submucosa on the gastric
side before tunneling. However, none of these methods measure the distance from the esophagogastric junction (EGJ) to the end of the tunnel. We present a simple method that might help to ensure a 2-cm gastric myotomy (▶ Video 1).

Once the submucosal tunnel seems to be appropriate, the tip of the scope is positioned at the EGJ, usually recognized as a narrowing area followed by expansion of the submucosal space, and the tip of the knife is placed outside the working channel, just far enough to see the tip in the screen. Externally, with the help of a ruler, a mark is placed on the knife 2 cm from the endoscope channel (▶ Fig. 1). Then, under endoscopic visualization, the knife is gently advanced right above the muscularis propria until the 2-cm mark reaches the entrance of the working channel or the end of the tunnel (▶ Fig. 2). Using this method, we can see when the submucosal tunnel has reached 2-cm in length on the gastric side, and therefore the gastric myotomy would be appropriate.

Competing interests

The authors declare that they have no conflict of interest.

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