Endoscopic Zenker diverticulotomy using the window technique: a technical trick to improve the field of view

Endoscopic diverticulotomy is a safe, effective, and simple technique to treat patients with symptomatic Zenker’s diverticulum [1]. The endoscopic management was demonstrated to be as effective as surgical external diverticulotomy in most cases and can be recommended as the first choice [2]. Diverticuloscope-assisted diverticulotomy has been demonstrated to be safer and more effective than the cap-assisted procedure [3]. The main benefit of the diverticuloscope is to improve exposure of the muscular fibers by stretching them [4].

In our practice, we additionally use a technical trick called the “window technique” to improve the field of view before the myotomy. After insertion of the diverticuloscope, we initially cut a small square of mucosa to enlarge the space and expose the muscular fibers (Fig. 1). This step usually takes 1 minute. A square, measuring approximately 5 mm, is cut on the four sides and then removed. We usually use a Hook-knife (Olympus, Tokyo, Japan) to create this window with Endocut electric current (ERBE VIO 300 D, Tübingen, Germany).

Thanks to this mucosal window, the cricopharyngeal fibers are stretched and visible (Fig. 2). Without the mucosal window, the two sides of the sectioned mucosa can obscure the myotomy site and prevent perfect control of the depth of cutting. In contrast, the mucosal window helps to

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**Video 1**

Endoscopic Zenker diverticulotomy procedure using the window technique.
enlarge the field of view and allows us to precisely catch the muscular layer by hooking. This technique is commonly used in our unit and we present the case of a 57-year-old woman with a 5-cm diverticulum (Fig. 1 and Video 1). She was successfully treated using this trick without any adverse events and was discharged after 2 nights.

To summarize, endoscopic diverticulotomy is effective and safe but the window technique is a simple trick to improve the field of view and facilitate the myotomy.

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References

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