Endoscopic mucosal resection with a magnetic traction system: a new strategy to facilitate complete resection

En bloc endoscopic mucosal resection (EMR) with a snare is the standard resection technique for adenomas <25 mm [1]. One limitation of this technique is, when gravity is not helping, the lack of good exposure of the lesion margins before cutting to ensure successful complete excision [2]. An independent traction system with clip and rubber band, as described for endoscopic submucosal dissection procedures [2], is not currently applicable for EMR because the snare cannot be placed around the lesion after placement of the traction system (▶ Fig. 1; ▶ Video 1). A new traction strategy using traction magnetic clips (ProdiGI; Medtronic), initially developed for traction-assisted ESD to improve exposure of the submucosal layer, could be the awaited solution to overcome this limitation.

We report the case of a 77-year-old man, who presented with a cecal adenoma of 12 mm. In order to achieve better visualization of all the margins and ensure a complete resection, we opted to use a traction magnetic clip kit. We started by placing the first magnetic clip on the opposite colonic wall (at a 90° angle). After submucosal injection of the lesion had been performed and the colon was maximally insufflated, a second magnetic clip was placed at the top of the lesion. A 25-mm snare was then placed around the lesion. This was followed by colonic exsufflation in order to allow the two opposing magnets to pair. Afterwards, the colon was re-insufflated, resulting in traction of the lesion, which allowed optimal placement of the snare with direct visualization of all the margins. The lesion was then resected en bloc. Up until now, there has never been a traction technique that could be applied during EMR; however, using those magnets, we have demonstrated that traction can be performed during EMR and may add extra value by ensuring a complete resection.

Endoscopy_UCTN_Code_TTT_1AQ_2AD

Competing interests

The authors declare that they have no conflict of interest.

Figueredo Mariana et al. Endoscopic mucosal resection... Endoscopy | © 2022. The Author(s).
The authors

Mariana Figueiredo¹, Clara Yzet¹, Pierre Lafeuille³ Thierry Ponchon³, Jérémy Jacques², Jéréme Rivory¹, Mathieu Pioche¹
1 Gastroenterology and Endoscopy Unit, Pavillon L, Hôpital Edouard Herriot, Lyon, France
2 Gastroenterology and Endoscopy Unit, Hôpital Dupuytren, Limoges, France

Corresponding author

Mariana Figueiredo, MD
Service hépato-gastroentérologie, Hôpital Edouard Herriot, 5 place d’Arsonval, 69003 Lyon, France
mariana.figueiredo.pro@gmail.com

References


Bibliography

Endoscopy
DOI 10.1055/a-1826-2394
ISSN 0013-726X
published online 2022
© 2022. The Author(s).
This is an open access article published by Thieme under the terms of the Creative Commons Attribution-NonDerivative-NonCommercial License, permitting copying and reproduction so long as the original work is given appropriate credit. Contents may not be used for commercial purposes, or adapted, remixed, transformed or built upon. (https://creativecommons.org/licenses/by-nc-nd/4.0/)
Georg Thieme Verlag KG, Rüdigerstraße 14, 70469 Stuttgart, Germany