Hybrid endoscopic mucosal resection (H-EMR) has been described as a valid alternative to traditional EMR. This technique involves an initial submucosal injection, followed by a circumferential incision and, finally, the resection of the central tissue with a snare [1]. This strategy can be applied to lesions under 20 mm in diameter, and allows the visualization and inclusion of the whole lesion, with certainty of complete en bloc resection [2]. However, H-EMR can be challenging to perform in nonlifting and difficult-to-access lesions. The underwater H-EMR technique has the potential to overcome this limitation.

We report the case of a 71-year-old man who was referred to our department for resection of a residual adenomatous 6-mm lesion, after previous incomplete removal by EMR. The access to the lesion was not easy, as it was located in the cecum on the colonic surface of the proximal ileocecal valve (Video 1). Submucosal injection was performed, but the lifting of the lesion was short-lived and suboptimal owing to underlying fibrosis (secondary to the previous resection attempt). We then decided to deflate the colon and infuse saline serum to completely fill the lumen. This resulted in contraction of the mucosa and submucosa, making the lesion float into the liquid-filled lumen. A circumferential incision with the tip of a hot snare was then performed around the lesion, and the surrounding tissue was safely and completely resected using the same snare. With this method, we have demonstrated that underwater H-EMR is feasible and can be useful in selected cases, by assuring complete resection of difficult-to-access and nonlifting lesions.

Competing interests
The authors declare that they have no conflict of interest.

The authors
Mariana Figueiredo1, Clara Yzet1, Marianna Milashka1, Jérôme Rivory1, Mathieu Pioche1,2
1 Gastroenterology and Endoscopy Unit, Pavillon L, Edouard Herriot Hospital, Lyon, France
2 Inserm U1032, Labtau, Lyon, France

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

References

Bibliography
Endoscopy
DOI 10.1055/a-1841-5787
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

Figueiredo Mariana et al. Underwater hybrid endoscopic ... Endoscopy | © 2022. The Author(s).