

A simple and low impact glove tip to achieve colonic endoscopic submucosal dissection with adaptive traction in patients with stoma

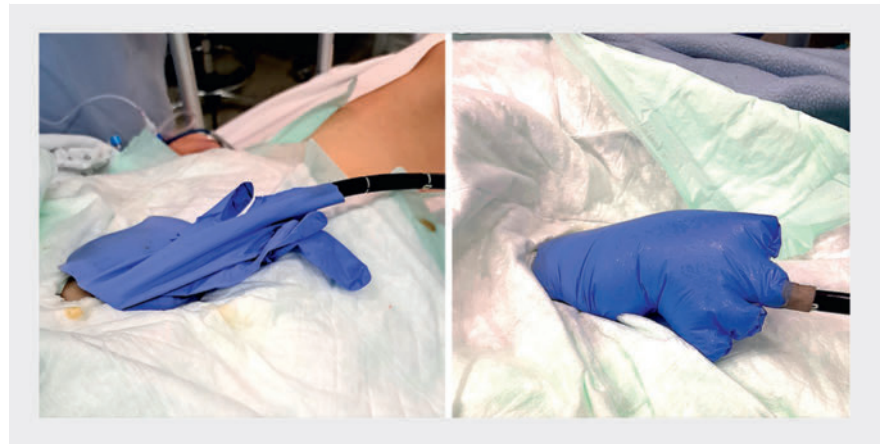


Colonoscopy in patients with a stoma is burdened by some technical challenges, such as the difficulty in inflating the colon, which collapses because of gas leakage through colostomy. This makes certain endoscopic procedures, like endoscopic submucosal dissection (ESD), particularly challenging and time-consuming. The use of devices, like an overtube with a valve, can be useful because it helps maintain insufflation through its unique insufflation cap. However, this device is not always available and does not have a negligible ecological and economic impact.

For this reason, we have developed a simple and low impact system to avoid gas leakage through a stoma: a glove fixed around the stoma trapping the air inside (► **Fig. 1**).

Herein, we report two cases of patients with a sigmoid stoma for distal cancer who also had a second superficial lesion in the colon, justifying a quick R0 endoscopic resection to obtain histology before management of the more advanced distal lesion. Those colonic lesions were resected successfully with ESD using an adaptive traction device (A-TRACT) whose benefits in ESD have already been reported [1–5] (► **Video 1**).

The first case is an 83-year-old patient with a large (60 mm), granular laterally spreading tumor granular (LST) with a macro-nodule located in the right flexure. The second is a 73-year-old patient who was referred for resection of a homogeneous granular LST (20 mm) at the level of the ileocecal valve. After circumferential incision and trimming, adaptive multipolar traction was applied allowing the start of dissection with good submucosal exposure. The traction devices were tightened after cutting half of the lesions to re-establish proper traction. The procedures ended without adverse events and with a good insufflation during the procedures.



► **Fig. 1** Glove fixed around the stoma before (on the left) and after (on the right) colonic insufflation.

We can hypothesize that such a simple and low impact system, combined with an adaptive traction strategy, could facilitate the intervention for complex lesions in patients with a stoma.

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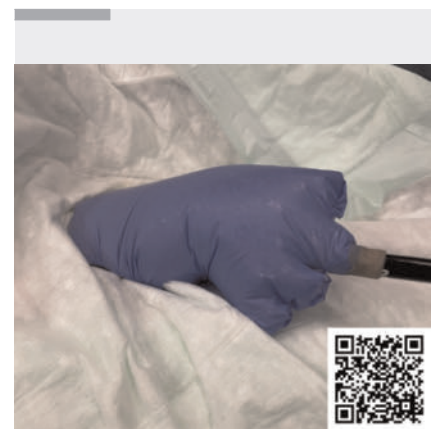
Conflict of Interest

Jérôme Rivory, Louis-Jean Masgnaux, Mathieu Pioche are co-founders of the ATRACT devices and co. Nothing to declare for the other authors.

The authors

Elena De Cristofaro¹, Pierre Lafeuille², Jérôme Rivory², Rosario D'Almeida², Louis Jean Masgnaux², Alexandru Lupu², Mathieu Pioche²

- 1 Department of Systems Medicine, Gastroenterology Unit, University of Rome Tor Vergata, Rome, Italy
- 2 Gastroenterology and Endoscopy Unit, Edouard Herriot Hospital, Hospices Civils de Lyon, Lyon, France



► **Video 1** A simple and low impact glove tip achieves colonic endoscopic submucosal dissection with adaptive traction in patients with a stoma.

Corresponding author

Mathieu Pioche, MD
Endoscopy Unit, Department of Digestive Diseases, Pavillon L – Edouard Herriot Hospital, 69437 Lyon Cedex, France
Mathieupioche15@gmail.com

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