Retroflexion in the proximal colon in the evaluation and resection of large non-pedunculated polyps.

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Abstract

We present the case of a piecemeal endoscopic mucosal resection of a 40 mm flat lesion of the proximal ascending colon. On the follow-up colonoscopy there was residual lesion which seemed to be not totally visible in direct vision. Retroflexion of the colonoscope was crucial to better characterize the lesion and perform submucosal injection, thus making endoscopic mucosal resection in direct vision effective. Retroflexion in colonoscopy is commonly used for rectal lesions. However, as shown in this case, it can be a very useful technique in the proximal colon to detect lesions that otherwise would not be visible or resect lesions that are difficult to access in the forward view. In conclusion, retroflexion in the proximal colon is simple to perform, safe and can be very useful in the evaluation and resection of lesions with difficult approach in direct vision.

Keywords: Colon, Colorectal polyps, Endoscopy.

Accepted on July 13, 2018

Introduction

Retroflexion in colonoscopy is used more frequently to evaluate or resect lesions in the distal rectum that are difficult to assess in direct vision. However, this maneuver can be very useful also in the proximal colon. Observation of the proximal colon in retroflexion may detect lesions that otherwise are not visible [1,2]. Another advantage of this maneuver is the possibility of removing lesions that are difficult to access in the forward view.

Case Presentation

A 65-year-old male patient was referred to our institution for resection of a polyp in the ascending colon detected at a screening colonoscopy. The lesion was located in the proximal ascending colon, immediately above the ileocecal valve, in the contralateral fold. It was a flat lesion 0-IIa (Paris classification), laterally spreading tumor granular (LST-G) homogeneous type, with about 40 mm of biggest diameter, occupying more than one third of the luminal circumference (Figure 1). After submucosal injection with saline, adrenaline and methylene blue, piecemeal Endoscopic Mucosal Resection (EMR) was performed (Figures 2 and 3). The procedure was performed with the Olympus® 190-series colonoscope. No complications occurred. The histological analysis revealed a tubulo-villous adenoma with foci of high-grade dysplasia.

Three months later, the follow-up colonoscopy showed residual lesion (Figure 4). Since the lesion appeared to involve the proximal aspect of the fold that was not visible in direct vision, we decided to perform retroflexion, in order to better characterize the lesion (Figure 5). This time, submucosal injection was performed in retroflexed view so that the lesion could be approached in forward view for resection. There was no significant fibrosis and it was possible to manage the residual lesion endoscopically, with en bloc EMR. There were

Figure 1. Flat lesion 0-IIa, LST-G homogeneous type in the ascending colon (First colonoscopy).

Figure 2. Lesion after submucosal injection (First colonoscopy).
Discussion and Conclusion

Retroflexion in the proximal colon is a useful technique for the detection, evaluation and resection of non-pedunculated polyps. Regarding the resection demonstrated in this case, it can be very important to first lift the proximal edge of the polyp while in retroflexed position. This allows for the entire polyp to become more visible in a forward view and facilitate the snaring and resection. Retroflexion can be used only to perform submucosal injection at the distal end of the lesion, like in our case, but in certain circumstances resection may be facilitated if performed in inversion. Moreover, it seems a safe technique, with only one adverse event described in the literature [3]. In conclusion, retroflexion in the proximal colon is simple to perform, safe and can be very useful in the evaluation and resection of lesions with difficult approach in direct vision.

References


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