A novel retrieval method using a Cusco speculum for large colorectal resection specimens following endoscopic treatment

Endoscopic submucosal dissection (ESD) was performed for early rectal cancer in a 70-year-old man (Fig. 1). The bulky tumor occupied nearly half of the lumen. As the forcible removal of the resected specimen from the rectum using only the retrieval net (Disposable Loop Retrieval Net; net diameter 40×75 mm; Meditalia, Palermo, Italy) could have resulted in its fragmentation, we decided to take a different approach. The endoscope was withdrawn from the patient’s body, so that it could be passed through a Cusco speculum (Fig. 2). When the endoscope was reinserted into the rectum, the specimen was grasped with the retrieval net. The Cusco speculum was then carefully inserted into the anus to dilate the anal canal and retrieve the specimen (Fig. 3; Video 1). The actual size of the specimen was 50×45 mm in diameter and the height of the raised portions was 25 mm (Fig. 4). In this way, the specimen was retrieved undamaged and there were no complications due to the procedure.

ESD is the gold standard for en bloc excision of large colorectal tumors. After ESD, the whole specimen must be retrieved in order to ensure that correct pathological evaluation can be performed. In the lower gastrointestinal tract, the anal canal is the narrowest portion because of the presence of the anal sphincter. During the retrieval process, the specimen can easily be fragmented because of the tightening force of this muscle. Various techniques have therefore been devised to retrieve large specimens without damaging them [1–3].

In this study, we used a Cusco speculum, which is frequently used in the obstetrics and gynecology department of any hospital and can be reused repeatedly. Furthermore, the procedure did not adversely affect the patient. It has been reported...
that, during transanal surgery under general anesthesia, the anal sphincter was damaged, leading to various degrees of incontinence, in approximately 20% of patients when the anal canal was stretched to a diameter of 4 cm [4], while damage to the anal sphincter was not seen when the anal canal was dilated up to 3 cm.

In our case, the anal canal was dilated to approximately 3 cm with the patient under conscious sedation and the specimen was retrieved without any adverse events. This method was used not only to retrieve the large ESD specimen but also to retrieve a huge polyp that was resected by endoscopic mucosal resection (EMR) (Fig. 5). In summary, dilation of the anal canal using a Cusco speculum was found to be both safe and effective for the retrieval of specimens resected by EMR and ESD.

Endoscopy_UCTN_Code_CPL_1AJ_2AD

Competing interests: None

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DOI http://dx.doi.org/10.1055/s-0042-117713
Endoscopy 2016; 48: E336–E337
© Georg Thieme Verlag KG Stuttgart · New York ISSN 0013-726X

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Fukita Yosho et al. Cusco speculum for retrieval of large colorectal specimens... Endoscopy 2016; 48: E336–E337