Endoscopic submucosal dissection with a ligation device for the treatment of rectal carcinoid tumor

Rectal carcinoid tumor is a relatively rare tumor, which is occasionally found during screening colonoscopy. Tumors less than 1 cm in diameter and limited in depth to the submucosal layer can be managed by endoscopic treatment, several types of which have been reported for rectal carcinoid tumor [1,2]. Because carcinoid tumor extends to the submucosal layer, simple endoscopic mucosal resection (EMR) will often leave tumor involvement in the deeper tissue levels [3]. Recently the technique of endoscopic submucosal dissection (ESD) has been shown to be useful in the treatment of rectal carcinoid tumor [3,4]. However, ESD requires high levels of technical skill and procedure times are long. In addition, the rate of complications, such as perforation, is higher with ESD than with EMR. To overcome this situation, we developed a new technique, known as endoscopic submucosal dissection with band ligation (ESD-L), for the treatment of rectal carcinoid tumor. This new technique is a combination of circumferential mucosal cutting and rubber band ligation (Fig. 1).

Previously, endoscopic submucosal resection with band ligation (ESMR-L) has proved to be useful for the treatment of rectal carcinoid tumor [5]. ESMR-L is a relatively simple technique; however, it is sometimes difficult to ensure that suction is being applied right at the center of the tumor, which is the most crucial part in this technique, or at least there may be uncertainty about this. ESD-L has the accuracy of ESD and the simplicity of ESMR-L. The circumferential mucosal cutting makes it much easier to aim and suck the tumor with the ligation device. This technique is useful because there is no need to complete the submucosal dissection, which is the most difficult part in colorectal ESD. Furthermore, the band ligation will facilitate clearance of tumor from the deeper tissue levels (Fig. 2).

We have performed ESD-L on three patients in our institution and no complications, such as perforation or bleeding, have been seen. In conclusion, ESD-L may be a simple and reliable technique for the treatment of rectal carcinoid tumor.
References

Bibliography
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