Lymphangioma of the Colon Treated by Endoscopic Resection Following Fine-Needle Puncture Aspiration

A 47-year-old Japanese man was admitted for further evaluation of positive fecal occult blood observed during a routine medical health check. A barium enema study demonstrated a smooth, lobulated, sessile polypoid tumor, 45 mm in diameter, in the transverse colon. Endoscopy showed a lobulated, hemispherical tumor, which was an easily deformed, fluid-filled blister with a gravish-white transparency (Figure 1). The endoscopic ultrasound probe (Aloka, SSD-550, 15 MHz) demonstrated a multilocular anechoic area in the submucosa (Figure 2). These findings were suggestive of lymphangioma. Using a needle-tipped catheter, 3 ml of yellowishwhite cystic fluid was aspirated from the tumor. A second endoscopy, two months later, showed that the tumor had shrunk as a result of the puncture aspiration. With intraluminal air being gradually deflated, the tumor was snared at its base with a thorn-attached snare (Olympus, SD-16U), then electrocauterized with blended current, and resected without any complications. The histological examination revealed a submucosal tumor composed of lymphatic vessels of various sizes-findings consistent with cavernous lymphangioma. Two months later, endoscopy revealed a red ulcer scar at the resection site, with no residual tumor (Figure 3).

Since colonic lymphangioma has caused complications such as intussusception, stenosis, massive bleeding, and protein-losing enteropathy (1,2), treatment has consisted of segmental colectomy and local excision in as many as 60% of cases in Japan (3). However, considering that no malignant cases have been reported in the literature (3,4), so that invasive surgery should be avoided as much as possible, endoscopic resection has been increasingly performed on tumors of less than 20 mm in diameter (3,4). Karasawa et al. observed tumor volume reduction at the second endoscopy due to the outflow of cystic fluid caused by a preceding forceps biopsy (5). With the technique presented here, even sessile lymphangiomas of more than 20 mm in diameter can be resected endoscopically.

The precondition for endoscopic resection is that the tumor should be confined to the submucosa. At presentation, some lymphangiomas have, however, already penetrated beyond the sumucosa, into the muscularis propria or the mesentery (1, 2). Endosonography is recommended to assess the endoscopic resectability.

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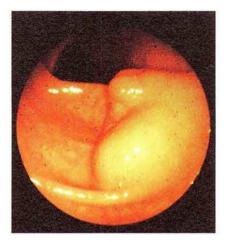


Figure 1: Endoscopic view of a lobulated, hemispherical tumor. It was an easily deformed, fluidfilled blister, with a grayish-white transparency.

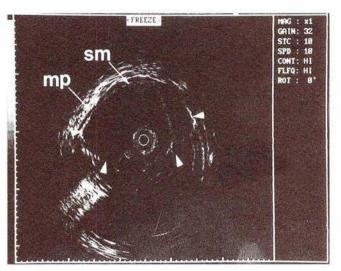


Figure 2: The endoscopic ultrasound probe demonstrating a multilocular anechoic area (arrowheads) in the submucosa (sm), with an intact muscularis propria layer (mp)



Figure 3: Endoscopic view showing a red ulcer scar at the resection site, with no residual tumor

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