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Original Article

Successful outcomes of a novel endoscopic treatment for GI tumors: endoscopic submucosal dissection with a mixture of high-molecular-weight hyaluronic acid, glycerin, and sugar

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### Background

Endoscopic submucosal dissection (ESD) has recently been developed for endoscopic treatment of GI tumors, which enables us to resect even large tumors en bloc. However, a considerable frequency of perforation has become another problem. The best way to prevent perforation is to create a sufficient submucosal fluid cushion (SFC). The aim of this study is to find out the feasibility of ESD by using a mixture of 1900 KDa hyaluronic acid (Suvenyl) and a 10% glycerin plus 5% fructose solution (Glyceol).

### Methods

Sixty-seven consecutive GI tumors in 54 patients who met indication criteria of ESD were enrolled. The mixing ratios of Suvenyl and Glyceol were 1:3 for esophageal/colorectal tumors and stomach tumors with scar, and 1:7 for stomach tumors without scar. After creation of SFCs, mucosal incision around the tumors and submucosal dissection under the tumors were made by cutting devices. The clinical outcomes were investigated.

## Results

Mean resected and tumor sizes were 38.6 and 25.6 mm, respectively. Perforation occurred in one colon tumor with severe fibrosis (1.5%), which was managed by endoscopic clipping without salvage surgery. No blood transfusion was performed. In one stomach and in one rectal tumor (3%), endoscopic hemostasis was necessary because of postoperative bleeding. Overall endoscopic and histologic en bloc resection rates were 94% (63/67) and 78% (52/67), respectively, and there was no recurrence after follow-up of 1 year.

## Conclusions

ESD when using a mixture of Suvenyl and Glyceol results in excellent outcomes, and this injection solution should be used for ESD.



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