

A case of early gastric cancer accompanied by a hamartomatous inverted polyp and successfully managed with endoscopic submucosal dissection

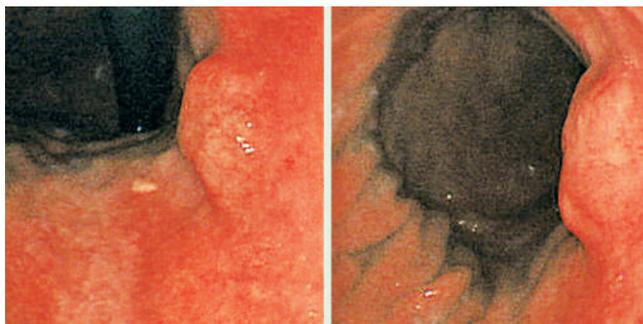


Figure 1 The upper gastrointestinal endoscopy revealed a submucosal tumor (SMT) in the posterior wall of the upper third area of the stomach, with bridging fold and positive cushion sign. The biopsy of discolored mucosa at the top of the SMT indicated the possibility of adenocarcinoma.

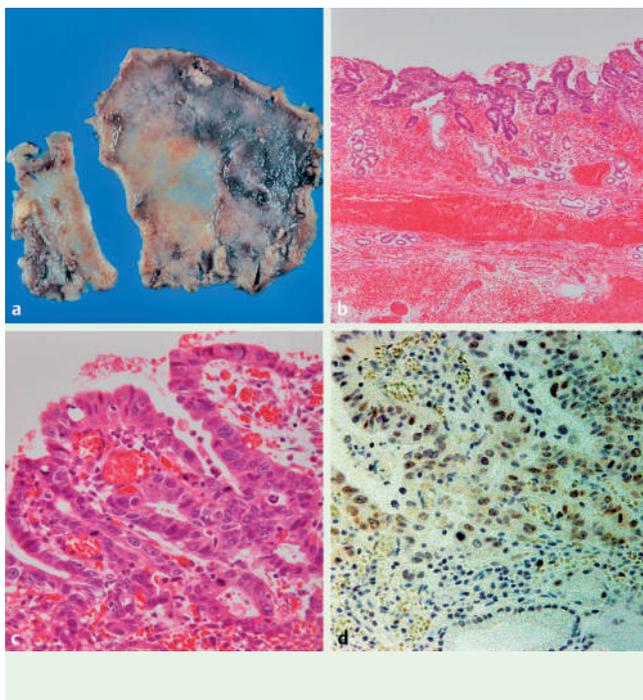


Figure 2 After circumferential incision of mucosa all around the submucosal tumor (SMT), the resected piece was separated as far as possible. We could not lift it with injection agent, especially just under the SMT. We therefore removed the mucosa, including the SMT, in two blocks with snare resection (a). Pathologic examinations revealed irregular tubular structures limited to the mucosal layer (b, c), with p53-positive immunohistochemical staining (d). In the submucosal layer, cystic dilated glands without atypia were observed (b) and were p53 negative (d).

A submucosal tumor (SMT) was found during a regular health check-up in a 59-year-old man. Following barium meal study the SMT was shown to be growing. He visited our hospital for further examination.

The upper gastrointestinal endoscopy revealed an SMT in the posterior wall of the upper third area of the stomach, with bridging fold and positive cushion sign (● **Figure 1**). A focal discoloration of mucosa at the top of the SMT indicated the possibility of co-existence of gastric cancer. We therefore performed a biopsy of this mucosa, and irregular tubular structures were observed on pathologic stud-

ies. No malignancy was observed in the mucosa around the SMT. Endoscopic submucosal dissection was carried out for diagnostic therapy.

Pathologic examinations revealed irregular tubular structures limited to the mucosal layer, and an immunohistochemical test revealed p53-positive staining (● **Figure 2**). In the submucosal layer, cystic dilated glands without atypia were observed, compatible with hamartomatous inverted polyp (HIP). These facts indicated early gastric cancer (IIb) on the surface of the HIP.

HIP is characterized pathologically as a proliferation of cystic dilated glands

without atypia, accompanied by dendritic proliferation of the smooth muscle bundle [1]. HIP is very rare and difficult to diagnose. In addition, HIP is reported as a paracancerous lesion, and is associated with gastric cancers [1,2]. Therefore, we have to diagnose it immediately and carefully with these points in mind during endoscopic studies, including biopsy. However, a superficial biopsy cannot be effective for critical diagnosis of submucosal lesions.

We propose that aggressive biopsy of SMT is necessary if equivocal findings are noted. Endoscopic submucosal dissection can be an effective procedure of diagnostic therapy for HIP and early cancer. Thus, HIP can be one of the differential diagnoses of SMT lesions of the stomach, and can be occasionally associated with early gastric cancer.

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S. Ono¹, T. Kamoshida¹, Y. Hiroshima¹, A. Okawara¹, T. Matsuo¹, N. Kakinoki¹, A. Ishikawa¹, Y. Kishimoto¹, S. Hirai¹, Y. Oka¹, T. Shimokama²

¹ Department of Internal Medicine, Hitachi General Hospital, Hitachi, Japan

² Department of Pathology, Hitachi General Hospital, Hitachi, Japan

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Bibliography

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Corresponding author

S. Ono, MD

Department of Internal Medicine
Hitachi General Hospital
2-1-1 Jonan-cho
Hitachi
Ibaraki
Japan
Fax: +81-294-238351
satoshi-tky@umin.ac.jp