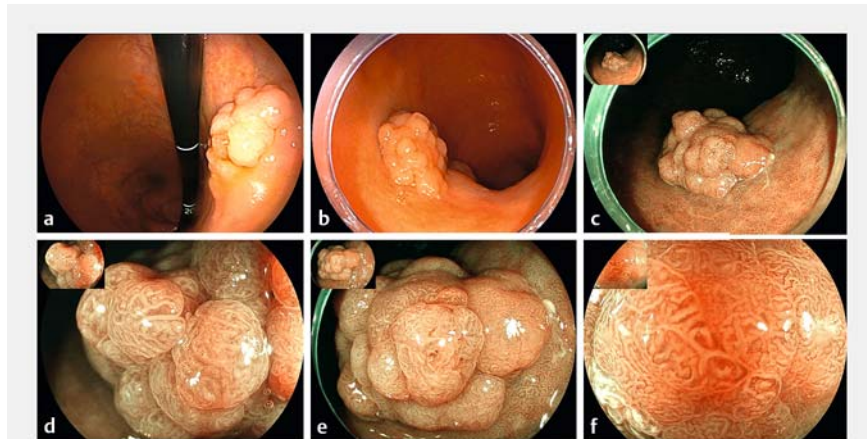


Three synchronous lesions with different historical types diagnosed by endoscopic submucosal dissection in one patient

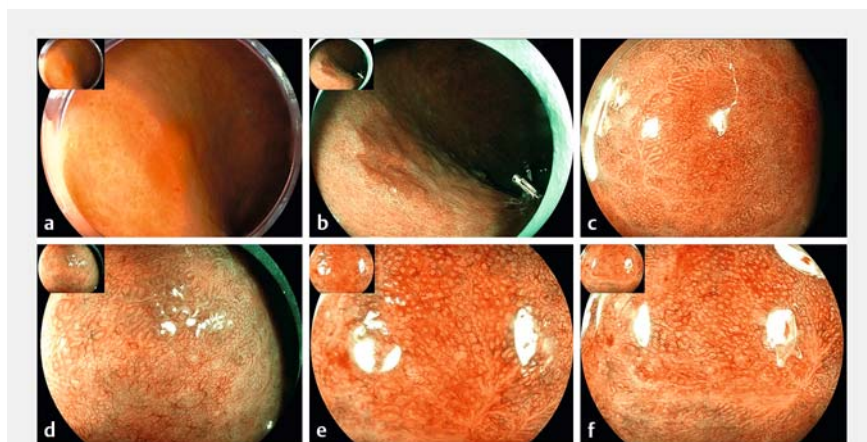


A 69-year-old man underwent gastroscopy owing to intermittent abdominal distension for over 4 months. The gastroscopy revealed two distinct lesions in the lower stomach body, which was highly atrophied (O-3) [1], and the background mucosa was infected with *Helicobacter pylori*. Lesion 1, labeled as O-Is+IIa [2], measured 40×20 mm and had a nodular mixed-type appearance on the posterior wall of the stomach body (► **Fig. 1 a, b**). Lesion 2, labeled as O-IIb, measured 15×10 mm and was adjacent to lesion 1 on the oral side (► **Fig. 2 a**). Biopsy pathology of both lesions showed atypical cells. Further investigation using magnifying endoscopy with blue-laser imaging (ME-BLI) revealed that lesion 1 had a distinct boundary and mimicked a colonic laterally spreading tumor with a villous surface pattern (► **Fig. 1 d, e**). ME-BLI also revealed that the area of the lesion presenting noticeable redness had an intensive and irregular vascular pattern (► **Fig. 1 f**). Lesion 2 also had a distinct boundary and presented a brownish area. ME-BLI further revealed an irregular vascular pattern and white globe appearance (► **Fig. 2 d, e**). Both lesions were removed completely by endoscopic submucosal dissection (ESD). The histological diagnosis was intestinal adenoma with partial high-grade intraepithelial neoplasia for lesion 1 and crawling-type adenocarcinoma [3] (tub2) for lesion 2 (► **Fig. 3**, ► **Fig. 4 b, c**).

The patient underwent a follow-up gastroscopy after 10 months, which revealed a 15×10-mm O-IIc lesion (► **Fig. 5**) with a clear boundary in the gastric antrum. Lesion 3 showed light redness, and further ME-BLI revealed increased density of the glandular ducts with an irregular surface and vascular pattern (► **Fig. 5 d, e**). It was also removed by ESD and the final



► **Fig. 1** Features of lesion 1 under white light endoscopy and magnifying endoscopy with blue-laser imaging (ME-BLI).



► **Fig. 2** Features of lesion 2 under white light endoscopy and ME-BLI.

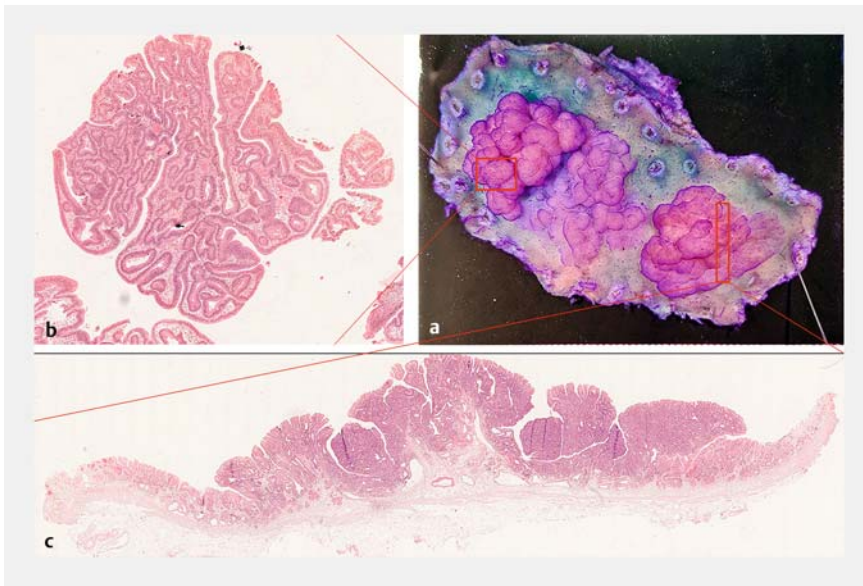
diagnosis was well-differentiated tubular adenocarcinoma (tub1) (► **Fig. 4 e, f**).

This case highlights the detection of three synchronous gastric lesions with different pathologic types (► **Video 1**). Each one had a different macroscopical appearance.

Endoscopy_UCTN_Code_CCL_1AB_2AD_3AB

Competing interests

The authors declare that they have no conflict of interest.



► **Fig. 3** Postoperative specimen and hematoxylin and eosin (H&E) stain of lesion 1. **a** Endoscopic submucosal dissection specimen. **b** H&E stain of the red area. **c** H&E stain of the anal side.

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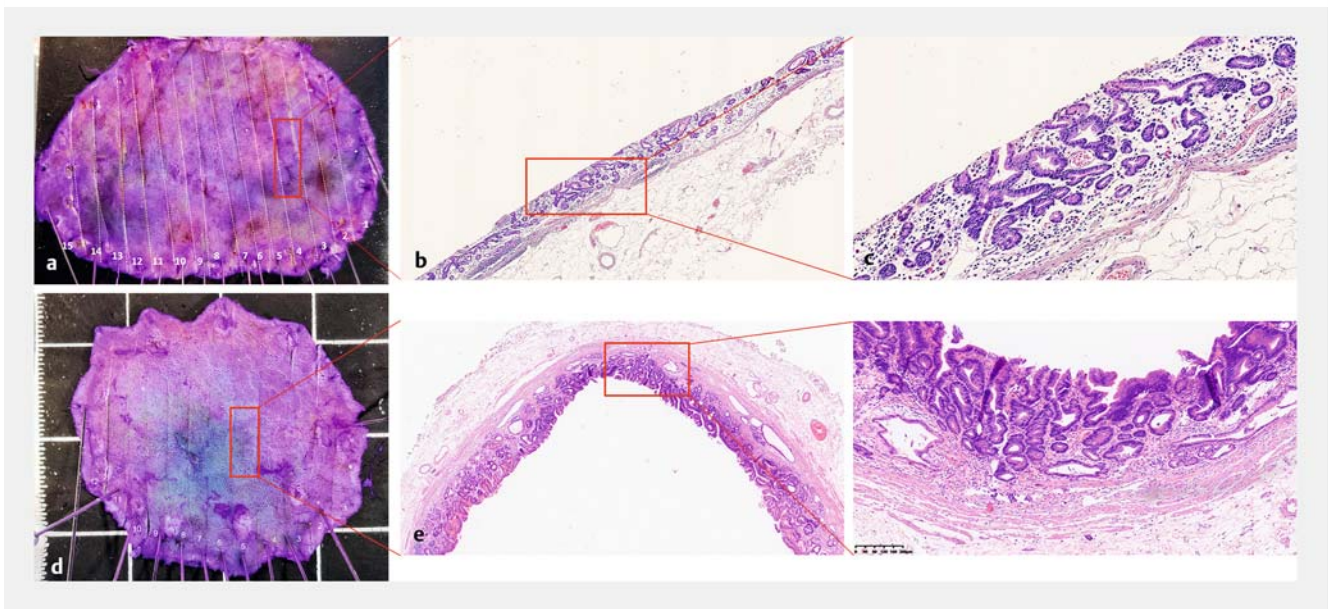
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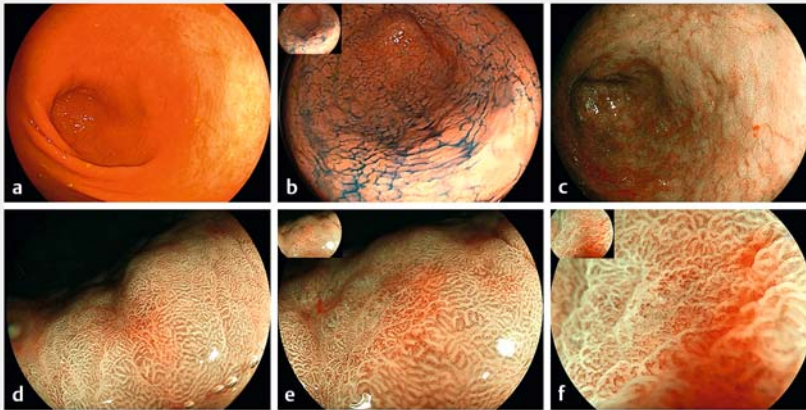
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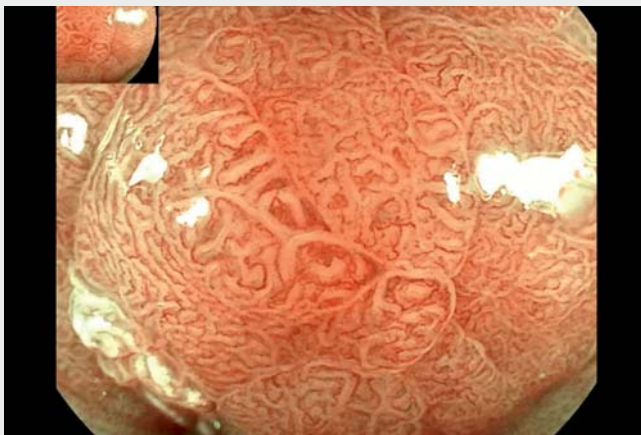
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► **Fig. 4** Postoperative specimen and H&E stain of lesions 2 and 3.



► **Fig. 5** Features of lesion 3 under white light endoscopy and ME-BLI.



► **Video 1** Three synchronous lesions with different histological types diagnosed by endoscopic submucosal dissection in one patient.

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