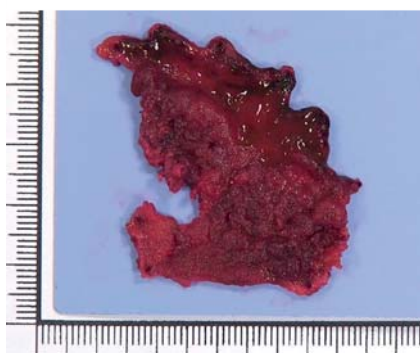


A very rare case of submucosal invasive duodenal adenocarcinoma in a patient with a history of radiation therapy

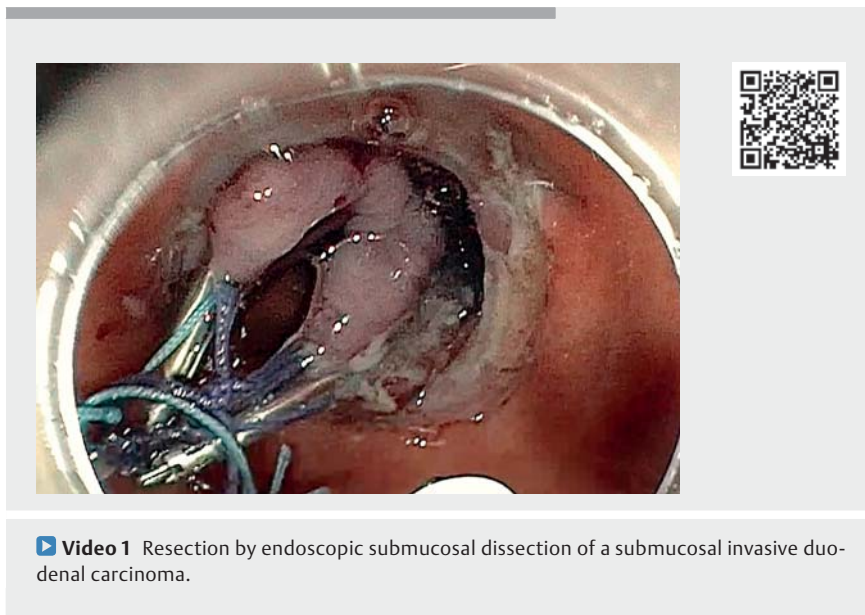


► **Fig. 1** Endoscopic narrow-band imaging view of the lesion that was situated in the duodenal bulb.



► **Fig. 2** Macroscopic appearance of the 4-cm specimen resected by endoscopic submucosal dissection.

Adenocarcinomas of the small intestine are rare compared with other gastrointestinal carcinomas. They are mostly found situated in the duodenum. Despite an increasing incidence of duodenal carcinomas in recent decades, most such lesions are either intramucosal or deep invasive carcinomas; intermediate invasive cancers in the submucosa are extremely rare, having been described only in a few cases in the Japanese language [1, 2]. Because of the rarity of their incidence, the exact risk of lymph node recurrence for these submucosal tumors is unknown. Therefore, the importance of R0 resection by endoscopic submucosal



► **Video 1** Resection by endoscopic submucosal dissection of a submucosal invasive duodenal carcinoma.

dissection to obtain a perfect histological assessment is debatable as submucosal invasion usually leads to salvage surgery being performed. In our patient, who had a past history of radiation therapy, endoscopic submucosal dissection was performed (► **Fig. 1**; ► **Video 1**), and histological assessment revealed a well-differentiated adenocarcinoma invading the submucosa to a depth of 250 μm (► **Fig. 2**), without any evidence of lymphovascular invasion or tumor budding. This case illustrates that, although the model of the adenoma–carcinoma sequence is believed to apply to the small intestine, as well as to the large intestine, submucosal invasive duodenal carcinomas are extremely rare. In our case, we could not identify an area of abnormal pit pattern suspicious for deep invasion. The patient's history of radiation therapy could also have facilitated the invasion of this tumor into the submucosa.

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Competing interests

The authors declare that they have no conflict of interest.

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