A 63-year-old asymptomatic man was admitted for evaluation of a gastric lesion incidentally noted on upper gastrointestinal endoscopic examination during a routine health evaluation. At initial endoscopy, a 13-mm submucosal tumor covered with benign-appearing mucosa was found (Figure 1). Endoscopic ultrasonography (EUS) demonstrated a 13.0-mm homogenous, circumscribed hypoechoic lesion rising from the fourth sonographic layer, and this lesion was thought from its morphology to be muscularis propria (Figure 2). Initial biopsy specimens were negative for any neoplastic degeneration. Follow-up endoscopy with mucosal biopsy was performed 13 months after the initial examination. This revealed that the margin of the tumor had become irregular, and the central depression with surrounding erythema had become deeper (Figure 3). The specimens taken from the central depression revealed poorly differentiated adenocarcinoma. At laparotomy, serous surface invasion was strongly suspected on the gastric wall although no ascites or liver metastasis were present. Distal gastrectomy with regional lymph node dissection, cholecystectomy, and gastroduodenostomy were performed. The histopathologic specimen was consistent with moderately differentiated adenocarcinoma, partially mixed with poorly differentiated adenocarcinoma, without focal lymph or vascular invasion. The tumor extended to the subserosa but did not involve the serosa (Figures 4 a, b). All dissected lymph nodes were free of tumor.

Although gastric cancer mimicking a submucosal tumor (GCSMT) is extremely rare [1] and it is difficult to obtain an adequate sample from the underlying lesion [2], the present case indicates that the finding of a small SMT with central erythema or granular changes and hypoechochogenicity as defined by endoscopy and EUS should raise a suspicion of GCSMT. Consistently, previous reports have shown that GCSMTs were 33 mm or less in diameter at diagnosis, and all had central irregular erythematous or granular mucosal changes [3]. If the diagnosis is uncertain, the use of aggressive techniques instead of EUS alone, including EUS-guided biopsy, diagnostic endoscopic mucosal resection, possibly with surgical resection, should be advocated [4], and close follow-up is recommended.
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