A 69-year-old woman with a positive fecal occult blood test was referred for further investigations. She had been diagnosed as having a borderline serous ovarian tumor 8 years earlier, for which she had undergone complete debulking surgery. The tumor had originated in the left ovary and a pathological examination had revealed that it was confined to the left ovary, without capsule invasion. The patient was followed up for 7 years after the surgery without any evidence of recurrence. Colonoscopy showed a hyperemic, polyloid lesion, 10 cm from the anal verge (Fig. 1), but the biopsy findings were nonspecific.

A computed tomography scan confirmed the presence of an intraluminal lesion in the rectum, and submucosal invasion was suspected. To rule out the possibility of recurrence of the borderline tumor or a primary rectal tumor, the patient underwent an exploratory laparotomy. There was no evidence of either carcinomatosis in the abdomen or involvement of adjacent organs. A low anterior resection was carried out with an end-to-end colorectostomy. The resected specimen included the pedunculated rectal polyp, which had invaded the entire rectal wall but was limited to the rectal serosa (Fig. 2).

On pathological review, the tumor was determined to be a borderline serous malignant tumor (Fig. 3a) and the findings were identical to those of tissue specimens taken from the original borderline ovarian tumor (Fig. 3b).

Since surgery, the patient has been doing well with no evidence of recurrence for 18 months.

Although epithelial proliferation in borderline ovarian tumors exceeds that found in benign tumors, they lack stromal invasion and generally behave in a benign fashion, different from invasive ovarian carcinoma. In patients undergoing primary pelvic clearance, the rate of recurrence is 2%–13%; the major site of recurrence is the abdominal cavity owing to the exfoliation of tumor cells [1–3]. Recurrence with colorectal involvement is exceedingly rare, with only one case report of metastasis to the sigmoid colon 7 years after primary debulking surgery similar to the present case [4]. However, borderline ovarian tumors are slow growing, and 85% of recurrences
occur after the 5-year follow-up period [5].
A favorable prognosis can be expected
with surgical resection in the case of both
recurrence and distant metastasis.

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