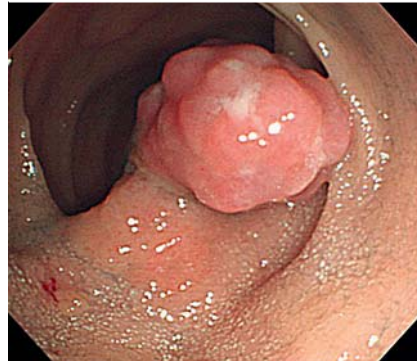


## Endoscopic mucosal resection of inflammatory fibroid polyp in the transverse colon

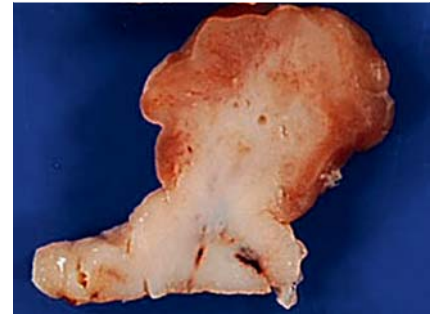
A 70-year-old woman visited our hospital complaining of anemia. Laboratory testing revealed a peripheral blood hemoglobin concentration of 9.4 g/dL. Upper and lower gastrointestinal endoscopic examinations were performed to investigate the cause of the anemia. The findings of the upper endoscopic examination were normal. However, the lower endoscopic examination revealed a semipedunculated polyp with a flat elevated lesion in the transverse colon (● Fig. 1). The surface of the broad-based polyp was erythematous and eroded. The pathological analysis of the biopsy specimen from the polyp suggested inflammatory fibroid polyp (IFP). It was considered that the polyp was the cause of the anemia and that excision was therefore indicated.

The polyp was resected by the endoscopic mucosal resection (EMR) technique, with injection of physiologic saline solution into the submucosal layer followed by clipping. The resected specimen measured 20×10×10 mm. The cut surface was whitish (● Fig. 2). Histologically the polyp consisted of loosely structured fibroblastic tissue composed of fibroblastic cells intermingled with numerous inflammatory cells. The fibroblasts were vaguely arranged in a whorl structure, and the inflammatory cells consisted of eosinophils, lymphocytes, and plasma cells (● Fig. 3a). Erosion was observed on the surface of the polyp (● Fig. 3b). These features were compatible with the diagnosis of IFP. After removal of the polyp, the patient's anemia was alleviated.

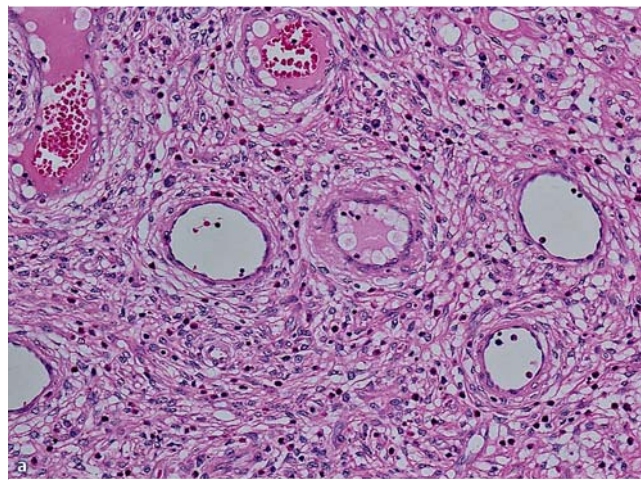
With regard to pathogenesis and etiology, it has been recently proposed that IFP is caused by an allergic reaction to bacterial, chemical, traumatic, and/or neurogenic stimuli, or is a reactive lesion of fibroblastic or myofibroblastic nature [1,2]. Over the past decades, surgical excision has been the main treatment of choice for colonic IFPs, because of their relatively large size and the difficulty of differentiating them from malignant polyps endoscopically or even pathologically. If, however, the diagnosis of IFP is confirmed, polyps of the large intestine can best be removed endoscopically as they are clinically and histologically benign [3]. Based on a literature review, six cases of colonic



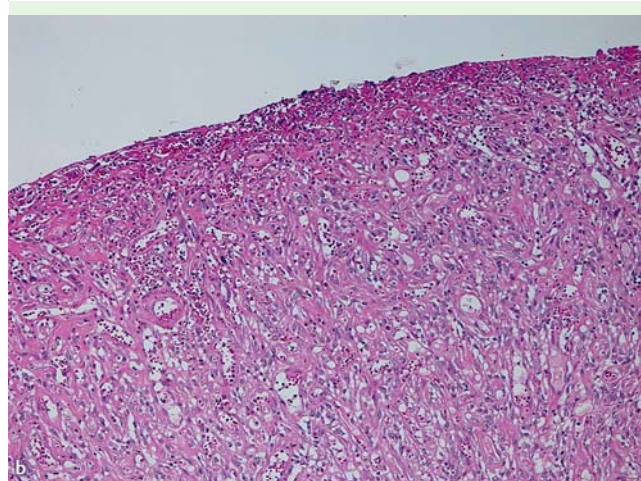
**Fig. 1** The lower endoscopic examination revealed a semipedunculated polyp with flat elevated lesion in the transverse colon.



**Fig. 2** The resected specimen measured 20×10×10 mm in size. The cut surface was whitish.



**Fig. 3 a** Histologically the polyp consisted of loosely structured fibroblastic tissue composed of fibroblastic cells intermingled with numerous inflammatory cells. The fibroblasts were vaguely arranged in a whorl structure, and the inflammatory cells consisted of eosinophils, lymphocytes, and plasma cells. **b** Erosion was observed on the surface of the polyp.



IFP treated by endoscopic resection including the present case are summarized in ● Table 1 [3,4–7]. Our case is the first reported case of a large, broad-based, semipedunculated-type IFP where EMR

was performed successfully. EMR may be the treatment of a choice even in large pedunculated and semipedunculated polyps with a thick stalk.

**Table 1** Summary of colonic inflammatory fibroid polyps treated by endoscopic resection

Authors	Year	Patient age and sex	Polyp location	Polyp size, mm	Gross appearance of polyp	Resection method
Niv and Hurwitz [3]	1985	71 M	Cecum	40	Pedunculated	Polypectomy
Nakase et al. [4]	2000	45 F	Cecum	5	Sessile	EMR
Sakamoto et al. [5]	2005	40 M	Asc.	35	Pedunculated	Polypectomy
Park et al. [6]	2007	28 M	Sig.	40	Pedunculated	Polypectomy
Kim et al. [7]	2008	23 F	Des.	45	Pedunculated	Polypectomy
Present case		70 F	Trans.	20	Semipedunculated	EMR

M, male; F, female; Asc., ascending colon; Sig., sigmoid colon; Des., descending colon; Trans., transverse colon; EMR, endoscopic mucosal resection.

Endoscopy\_UCTN\_Code\_TTT\_1AQ\_2AD

Competing interests: None

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