Sessile serrated lesion misdiagnosed as a hyperplastic polyp

An 81-year-old woman presented for colonoscopy because of iron deficiency anemia. She had undergone colonoscopy 5 years previously during which a 2-cm prominent fold had been identified in the proximal ascending colon (Fig. 1). A biopsy of this lesion was interpreted as being a hyperplastic polyp (Fig. 2), although the polyp showed features of a serrated lesion. Because of clinical concern over a more sinister process, colonoscopy was repeated 1 year later. The endoscopic appearance of the area of concern was unchanged (Fig. 3); biopsies were again interpreted as being consistent with a hyperplastic polyp. Endoscopic resection was not performed.

At the time of re-presentation, she was found to have a hemoglobin of 6.1 g/dL. Colonoscopy was repeated and she was found to have a 5-cm nongranular, centrally depressed lesion that was suspicious of malignancy in the same location within the proximal ascending colon (Fig. 4). Endoscopic biopsies of this lesion were consistent with invasive adenocarcinoma. She underwent laparoscopy-assisted right hemicolectomy and partial hepatectomy of two metastatic lesions; a third lesion was ablated by interventional radiology. Final pathology revealed a 6.9-cm mass with two metastatic liver lesions, stage T3N0M1a. Review of the initial biopsies confirmed that the proximal ascending colon polyp seen initially 5 years previously was a sessile serrated lesion.

Although in the past many serrated lesions were misdiagnosed as benign hyperplastic polyps, increasing pathologist and endoscopist recognition has reduced the rate of occurrence of this error [1]. Serrated lesions are now recognized as an important neoplastic precursor to adenocarcinoma of the colon [2, 3]. After reinterpretation, many lesions identified as hyperplastic in the past can be reclassified as serrated lesions [4]. In the illustrated case, the initial biopsies had features suggestive of a serrated polyp but were misinterpreted as hyperplastic because of the reduced recognition of these lesions at that time and the limitations of interpreting polyp pathology from small forceps biopsies. As endoscopic mucosal resection of large polyps is a safe and efficacious technique, polyps should be resected to ensure accurate pathology. The illustrated case is unique as it demonstrates the unfortunate natural history of an unresected serrated adenoma, developing into a metastatic adenocarcinoma over a 4-year time period. Furthermore, the case highlights the limita-
tions of optical and histologic diagnosis of serrated polyps and the critical importance of resecting these lesions because of their malignant potential.

Competing interests: None

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