Patients with celiac disease have a 28-fold increased risk of developing enteropathy-associated T-cell lymphoma compared with the general population [1]. Early diagnosis is therefore required to improve their prospects. Indigo carmine chromoendoscopy highlights mucosal irregularities and improves the detection of malignant lesions [2]. Furthermore, it can delineate villous atrophy in celiac disease [3]. This method is commonly used in upper and lower gastrointestinal endoscopy but this is not yet the case in small-intestinal endoscopy. In this report we describe the chromoendoscopic appearances of jejunal enteropathy-associated T-cell lymphoma, before and after indigo carmine spraying, in a patient who was undergoing a double-balloon endoscopy procedure.

A 68-year-old Caucasian woman with celiac disease who had been on a gluten-free diet for 3 years was referred for double-balloon endoscopy because an abdominal computed tomography scan had shown thickened small-intestinal wall. Endoscopy was performed with a double-balloon endoscopy system (FMH Medical Inc., Veenendaal, The Netherlands). Using a catheter, 10 mL of a 0.1% solution of indigo carmine was sprayed onto the jejunal mucosa on withdrawal of the endoscope.

Scallop or loss of folds, a mosaic appearance of the jejunal mucosa, and round or circumferential ulcers (10–90 mm along their longitudinal axis) were detected with standard video endoscopy, but the villi were easier to recognize after indigo carmine staining of scalloped jejunal folds (Figure 1) and ulcers were also highlighted (Figure 2, Figure 3). Histological examination revealed the presence of enteropathy-associated T-cell lymphoma in biopsies taken from the ulcers and partial to subtotal villous atrophy in the nonulcerated mucosa. In comparison with standard endoscopy, indigo carmine chromoendoscopy highlighted areas of villous atrophy [4] and ul-
cers, but did not add to the visual determination of other abnormalities such as scalloping, loss of folds, or the typical mosaic pattern [5]. The innovative double-balloon endoscopy method is allowing the use of such techniques in deeply located lesions that are not usually accessible by standard endoscopy. Chromoendoscopy appears to be a suitable technique for examining suspicious areas during small-intestinal endoscopy.

References

Bibliography
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