To date there have been very few reports describing the macroscopic appearance of the small bowel in Whipple’s disease as viewed by capsule endoscopy [1,2]. We report the capsule endoscopic findings in two patients with Whipple’s disease before antibiotic therapy and during follow-up, using the M2A capsule endoscope (Given Imaging Ltd., Yoqneam, Israel).

Baseline capsule endoscopy in patient 1 showed massive villous atrophy in the mucosa of the duodenum and the proximal jejunum, a pseudopolypoid surface structure, and a whitish reticular pattern that was suggestive of dilated lymphatic vessels (Figure 1,2). Multiple erosions and villous denudation were also observed. The mucosa was affected continuously, around its whole circumference. These pathologic features were most pronounced in the duodenum and decreased in intensity as the capsule progressed distally. The distal jejunum and the ileum, the mucosa was macroscopically normal.

Hardly any villi or folds were visible in the duodenum and proximal jejunum in the baseline capsule endoscopy examination in patient 2. The surface of the mucosa had a whitish reticular pattern (Figure 5), and there were a very small number of erosions and areas of villous denudation (Figure 6). These features decreased in intensity as the capsule moved distally. In the distal ileum the only pathologic finding was whitish spots on the surface of the mucosa. In all parts of the small bowel the mucosa was affected continuously and around its whole circumference. At follow-up capsule endoscopy in patient 2, 29 months after the baseline examination (i.e. 17 months after termination of antibiotic therapy), the mucosa in all parts of the small intestine appeared normal.

We conclude that Whipple’s disease does not always involve the entire small bowel in a continuous fashion, but that a discontinuous pattern of mucosal involvement can occur. Resolution of the mucosal changes seems to start in the distal parts of the small bowel and progresses in a proximal direction, and antibiotic treatment can lead to complete normalization of the capsule endoscopic appearance of the small-intestinal mucosa in this condition.

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Figure 4 Follow-up capsule endoscopy in patient 1 showed the mucosa in the proximal jejunum to be studded with whitish spots.

Figure 5 The baseline capsule endoscopy in patient 2 showed a whitish reticular pattern in the proximal jejunum that was suggestive of dilated lymphatic vessels.

Figure 6 Lymphangiectasias and villous denudation in the proximal jejunum at baseline capsule endoscopy in patient 2.