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Small-bowel video capsule endoscopic findings of Cronkhite-Canada syndrome

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Cronkhite-Canada syndrome (CCS) is a rare, non-familial disorder characterized by multiple gastrointestinal polyps and ectodermal changes. This article presents the first small-bowel video sequences of CCS using video capsule endoscopy (VCE).

A 78-year-old female patient was admitted to our department with severe protein-losing enteropathy, alopecia, and onychodystrophy of the finger and toenails. The patient had no significant personal or family medical history. Endoscopy revealed multiple polyps of the gastric, duodenal, and colonic mucosa. Histological findings included cystic dilatation and gland distortions with inflammatory infiltration and stromal edema. Endoscopic and histological findings, as well as clinical symptoms, were typical of CCS. Further investigation by VCE (PillCam 2, Given Imaging, Israel) revealed a highly abnormal endoscopic appearance that has not been reported for other small-bowel diseases.

In the duodenum and jejunum, we observed whitish, excessively elongated and arborescent villi resembling dense underwater seagrass in the intestinal lumen. We also observed several herpes-like polyps, a feature that has been reported once. These abnormalities decreased as the capsule progressed along the small bowel, with reduction or absence of folds related to mucosal atrophy in the distal ileum.

In addition to gastroscopy and colonoscopy, small-bowel VCE may be useful for assessing the efficacy of CCS treatments.

Figure 1: Jejunum video capsule endoscopy showing whitish, excessively elongated intestinal villi resembling dense underwater seagrass in the intestinal lumen.



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