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

Timothée Wallenhorst, Mael Pagenault, Guillaume Bouguen, Laurent Siproudhis, Jean-François Bretagne

► To cite this version:

Timothée Wallenhorst, Mael Pagenault, Guillaume Bouguen, Laurent Siproudhis, Jean-François Bretagne. Small-bowel video capsule endoscopic findings of Cronkhite-Canada syndrome. *Gastrointestinal Endoscopy*, 2016, 84 (4), pp.739-40. 10.1016/j.gie.2016.04.004 . hal-01304355

HAL Id: hal-01304355

<https://hal-univ-rennes1.archives-ouvertes.fr/hal-01304355>

Submitted on 20 Apr 2016

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

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

Timothée Wallenhorst, MD¹, Mael Pagenault, MD¹, Guillaume Bouguen, MD^{1,2}, PhD^{1,2}, Laurent Siproudhis, MD¹, PhD^{1,2}, Jean-François Bretagne, MD, PhD^{1,2}.

1. Department of Hepato-Gastroenterology, University Hospital of Rennes, Pontchaillou, France
2. INSERM U991, University of Rennes 1, Rennes, France

Corresponding author:

Dr. Timothée Wallenhorst, MD
Service des Maladies de l'Appareil Digestif
CHU Pontchaillou, 2 rue Henri le Guilloux
35033 Rennes Cedex, FRANCE
Phone: + 33 2 99 28 43 17
Fax: + 33 2 99 28 41 89
Email address: timothee.wallenhorst@chu-rennes.fr

Conflicts of Interest and Source of Funding:

TW, MP, GB, LS, JFB have no conflicts of interest to declare.

Grant support: This work did not receive any financial support.

Author contributions: TW and JFB edited the manuscript. MP, TW and JFB analyzed the video capsule endoscopic findings. All authors reviewed the paper and approved the final submitted draft.

Word count (excluding title page and figure): 200 words.

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.