A 36-year-old woman with abdominal pain, diarrhea, and weight loss underwent capsule endoscopy after a normal enteroclysis. The capsule study revealed small-bowel ulcers and erosions and a diagnosis of cryptogenic multifocal ulcerous stenosing enteritis was made [1,2] (Fig. 1, 2). Enteropathy due to non-steroidal anti-inflammatory use, Crohn’s disease, and celiac disease were all ruled out. Asymptomatic capsule retention in the ileum was diagnosed subsequently (Fig. 3). The patient was not fit for surgery. She died after 7 months as a result of bilateral bronchopneumonia complicated by sepsis. At autopsy, six short stenosing strictures and a video capsule disintegrated into three parts were discovered in the distal ileum (Fig. 4). Histological examination revealed superficial erosions and reparative changes with granulation tissue and scar formation in the mucosa and submucosa (Fig. 5). The longest reported duration of video capsule retention is 2.5 years and the International Conference on Capsule Endoscopy (ICCE) consensus for capsule retention stated no time limit for removing a retained capsule [3]. Only one case of capsule disintegration (after retention in the ileum for 6 months) has been reported so far [4].

To the best of our knowledge, this is only the second reported case of video capsule retention (caused by multiple ileal strictures) resulting in disintegration of the capsule. The mechanism of capsule disintegration is not clear but the combination of chronic exposure to digestive and bacterial enzyme activity and peristalsis on the joint between the optical dome and the capsule body is the most probable explanation. There are some potential problems in this situation. The smaller components of the disintegrated video capsule could be caught within the stricture and induce ileus, and the sharp parts could injure the intestinal wall. On the other hand, the capsule’s batteries are only minimally toxic, containing silver oxide.

In reporting this case we want to draw attention to the possible risk of capsule disintegration after a long period of retention. The length of time which an asymptomatic retained capsule can be safely left in the small bowel should therefore be determined.

Acknowledgment

This study was supported by research project MZO 00179 906 from the Ministry of Health of the Czech Republic.
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Endoscopy 2008; 40: E104–E105
© Georg Thieme Verlag KG Stuttgart - New York - ISSN 0013-726X

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Fig. 4 The capsule disintegrated into three parts (the optical dome, the plastic body, and the capsule’s internal components) after its removal from the ileum at autopsy.

Fig. 5 Histological findings included focal mucosal fibrosis with proliferation of granulation tissue. The epithelium was desquamated as a result of postmortem autolytic changes (hematoxylin and eosin stain, original magnification × 200).