Endoscopic retrograde appendicitis therapy for giant periappendiceal abscess with intestinal obstruction

In recent years, endoscopic retrograde appendicitis therapy (ERAT) has been widely used in the treatment of acute uncomplicated appendicitis [1]. However, the treatment of a periappendiceal abscess has always been a challenge. Early surgery may cause serious complications such as total peritonitis and postoperative anastomotic leakage [2]. We report a case of acute appendicitis with a giant periappendiceal abscess and intestinal obstruction. Through ERAT, full endoscopic drainage was achieved and the intestinal obstruction was quickly resolved.

A 34-year-old woman presented with abdominal pain, nausea, vomiting, and no anal exhaust defecation for 2 days. Computed tomography (CT) showed acute appendicitis with a giant periappendiceal abscess (9.0 cm × 6.3 cm) and intestinal obstruction (Fig. 1). After informed consent was given, an ERAT procedure was performed (Video 1) with the patient under general anesthesia. The intestine was prepared through colon dialysis. Colonoscopy showed significant protrusion of the mucosa around the appendix. The appendiceal cavity was successfully incised using a duodenal papillary incision knife (Fig. 2). Then a guidewire was delivered to the giant periappendiceal abscess, which was clearly visualized by iohexol radiography (Fig. 3). After that, a biliary plastic stent was successfully implanted. A large amount of pus flowed out of the stent (Fig. 4). The procedure was performed successfully without any adverse events. Postoperative abdominal X-ray indicated no signs of intestinal obstruction. The patient recovered well.

Follow-up CT after 2 months showed that the periappendiceal abscess had fully disappeared (Fig. 5). The stent was removed under colonoscopy (Video 1). ERAT may be a safe and effective method for adequate drainage of a periappendiceal abscess in the early stage. Further clinical studies with larger samples and long-term follow-up are needed to evaluate this.

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Competing interests

The authors declare that they have no conflict of interest.

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