Acute appendicitis is one of the most common acute abdominal conditions in the clinic, and is characterized by an acute onset, severe symptoms, and rapid progression [1]. Currently, endoscopic retrograde appendicitis therapy (ERAT) is an emerging treatment method for acute appendicitis, which involves colonoscopically guided intubation of the appendix, drainage of pus, imaging to clarify the diagnosis, flushing of the lumen, placement of drainage, and so on, to relieve the obstruction and reduce the pressure in the appendiceal lumen [2]. ERAT has the advantages of less trauma, shorter operation time, shorter hospital stay, lower complication rate, faster postoperative recovery, preservation of appendiceal immunity, and absence of surgical scar [2, 3]. However, the conventional transparent hood and guidewire used for ERAT, the contrast catheter, and other instruments do not enter the appendiceal lumen easily, often leading to failure of the operation, and this limits the popularity and widespread adoption of ERAT [4].

We report here the case of a 33-year-old man diagnosed with acute appendicitis and referred for ERAT. Colonoscopy showed marked hyperemia and swelling of the mucosa around the appendiceal orifice (Fig. 1). We have simplified and modified the ERAT by using an independently developed funnel-shaped hood with a small-diameter tip (Fig. 2) which facilitates insertion of the hood into the appendiceal lumen, and purulent secretion was seen to flow out. The appendiceal lumen was repeatedly rinsed with saline until no pus or fecal material remained to come out and the rinsing fluid was seen to be clear. The appendiceal orifice was intubated with a zebra guidewire. Purulent secretion can be seen flowing from the appendix during placement of a drainage tube. A well-placed drainage tube.
appendiceal lumen for the subsequent maneuvers (▶ Fig. 3, ▶ Video 1). The patient’s abdominal symptoms completely disappeared after funnel-hood-assisted ERAT, and there was no pressure or rebound pain in the abdomen on physical examination. The patient was discharged on the 3rd postoperative day.

Funnel-hood-assisted ERAT makes appendiceal intubation less difficult and is a technological innovation that may be expected to improve the treatment success rate of ERAT and thus to help popularize this treatment.

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References


Conflict of Interest

The authors declare that they have no conflict of interest.

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