An unusual cause of abdominal obstruction in a 10-year-old boy successfully treated by endoscopy

Duodenal duplication cysts are congenital anomalies caused by embryonic malformations. They are extremely rare and account for only 4% of all gastrointestinal (GI) tract duplications. Symptoms mainly occur during the first decade of life [1]. We report here the case of a 10-year-old boy who developed upper GI obstruction caused by a major acute bleed within a duodenal duplication cyst (Fig. 1). He was initially treated with upper GI aspiration with a nasogastric tube. After a multidisciplinary discussion, we decided to perform an endoscopic marsupialization of the cyst to treat the obstruction and assist with the forthcoming surgery (Video 1). After the cyst had been located during an initial upper GI endoscopy, an endoscopic ultrasound (EUS) was performed to clarify the situation. The cyst was found to be 7.4 × 4.4 cm and had both solid and liquid components (Fig. 2). It was punctured to confirm the recent bleeding and to enable a guidewire to be placed inside, thereby facilitating the rest of the procedure by making the entry point visible despite the recent bleeding. A colonoscope with a hood was then used to create a large incision on top of the cyst using a DualKnife (Olympus) and following the guidewire. After the inside of the cyst had been penetrated and the liquid component sucked out, a snare was used to remove the remaining clots. The mucosal layer was present only at the bottom of the cyst; only the typical muscular layer was present elsewhere (Fig. 3). Coagulation of small bleeding spots was performed with hot biopsy forceps and a double-pigtail stent was placed inside the cyst as there were remaining clots inside. The patient was able to eat the day following the procedure.

To our knowledge, this is one of the first case reports showing endoscopic marsupialization of a hematic duodenal duplication cyst [2]. This technique was effective and safe and allowed risky emergency surgery to be avoided.

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Competing interests

The authors declare that they have no conflict of interest.
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