An 86-year-old woman was admitted to our endoscopy unit, having been referred by the oncologists. She had undergone a computed tomography scan because of weight loss and abdominal pain, and had been found to have a 6-cm hypogastric mass with contrast enhancement (▶ Fig. 1). Her case was discussed by our multidisciplinary team and endoscopic ultrasonography (EUS) plus fine-needle biopsy (FNB) was proposed. Before performing EUS, we decided to perform an underwater colonoscopy, using a standard colonoscope and filling the bowel with tap water, to prepare the bowel for the water-filled technique. After colonic irrigation had been performed, an echoendoscope was advanced using the water-filled technique [1] and EUS guidance until the splenic flexure was reached, and the examination was performed by withdrawing the scope with rotational movement until the mass was visualized from the mid-sigmoid colon (▶ Video 1). The visualization of the mass, an FNB was performed with two passes of a 22G needle (Acquire; Boston Scientific; Natick, Massachusetts, USA) and macroscopic on-site evaluation (MOSE) [2]. Histology revealed a gastrointestinal stromal tumor (GIST) and the patient was referred to the surgeons for further management.

EUS-FNB in the lower GI tract is generally performed only through the rectum, because of the difficulties encountered in advancing a linear echoendoscope as far as the right-sided colon. The water-filled technique is an easy technique that allows the echoendoscope to be advanced under EUS guidance only, without using the endoscopic vision. With this technique, operative EUS could also be performed in difficult sites, such as the transverse or right-sided colon, or in patients who had undergone upper gastrointestinal surgical reconstruction [3].

Fig. 1 Image from a computed tomography scan showing a 6-cm mass involving an area between the ileal loops.

Video 1 Endoscopic ultrasonography-guided fine-needle biopsy of a mass is performed from the mid-sigmoid colon after the scope had been advanced to the splenic flexure using the water-filled technique and slowly withdrawn until the mass was visualized.
References


Bibliography

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