Endoscopic-ultrasound evaluation and fine needle aspiration with a linear echoendoscope in the cecum: it is possible

Endoscopic ultrasound (EUS)-guided fine needle aspiration (FNA) is central to the accurate diagnosis of subepithelial lesions. Similarly, staging of early neoplastic lesions is also an important step in deciding the best treatment option [1, 2]. Unfortunately, the oblique endoscopic view of the linear-array echoendoscope precludes routine cecal intubation. Therefore, EUS evaluation in the right colon and cecum is usually restricted to mini-probes and forward-view radial echoendoscopes, which do not allow tissue sampling [3]. We describe a new technique that allows a standard oblique-view linear-array echoendoscope to be used to intubate the cecum and perform EUS-FNA.

We employed a combined overtube–guidewire technique. Firstly, we placed a colonic hydrophilic-coated flexible steel-coiled overtube (Entrada; US Endoscopy) over a standard colonoscope (CF-Q150; Olympus). We then performed a colonoscopy and placed a guidewire (Jagwire; Boston Scientific) into the cecum. The colonoscope was pulled out leaving the guidewire in place. Next, we inserted a standard linear-array echoendoscope (GF UCT-180; Olympus) over the guidewire and through the overtube. Once the colon had been reached, the scope was carefully inserted using the guidewire to secure cecal intubation. Finally, ultrasound interrogation of the subepithelial lesion and EUS-FNA were successfully performed (▶Video 1). In our second patient, we used the same technique to stage an early neoplastic lesion (▶Video 1).

Using a colonoscope to straighten the sigmoid loops is an important step in correct placement of the overtube. Ultimately, this will allow the echoendoscope to safely reach the descending colon. The next step is the placement of a guidewire into the cecum. This guidewire directs the echoendoscope, helps widen the colonic flexures, and safeguards passage of the scope into the ascending colon and cecum. EUS-FNA of right colonic submucosal tumors nevertheless remains challenging, but the aforementioned technique seems feasible and reproducible. It may further facilitate the management of subepithelial lesions in the right colon.

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Competing interests

None

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