Antral gastric elastofibroma diagnosed by unroof biopsy with endoscopic submucosal dissection technique

Elastofibroma is a rare pseudotumoral lesion of the soft tissues that is usually located in the subscapular region. Because of this common location, the lesion is often reported as elastofibroma dorsi. It presents as a deep-seated, firm mass, often several centimeters in diameter, that does not adhere to overlying skin. Visceral involvement, including involvement of the gastrointestinal tract, has been described very rarely [1–3].

A 52-year-old patient with a history of gastroesophageal reflux disease (GERD) underwent esophagogastroduodenoscopy (EGD) at our institute. The endoscopy findings were negative for GERD-related lesions but showed a 3-cm mucosal bulge of the anterior wall of the gastric antrum, which was soft, mobile with peristalsis, and surrounded by normal mucosa (Fig. 1a). Linear endoscopic ultrasound (EUS) showed a 4-cm inhomogeneous, hypoechoic lesion in the submucosal layer, but fine-needle aspiration cytologic analysis was inadequate for a diagnosis. In order to perform targeted biopsies, we planned to reach the lesion via unroof biopsy by using endoscopic submucosal dissection (ESD) techniques with a water jet dissecting knife (T-Type HybridKnife; Erbe Elektromedizin, Tübingen, Germany) [4, 5]. A 2-cm mucosal incision was made, and a whitish submucosal soft tissue was exposed (Fig. 1b). Intralesional water immersion EUS via a 20-MHz miniprobe (Olympus Medical Systems, Center Valley, Pennsylvania, USA) confirmed that the exposed whitish tissue corresponded to the submucosal lesion observed with linear EUS.

Biopsy specimens were taken directly inside the lesion, and surprisingly, the soft tissue was enucleated outside the incision during each biopsy, showing an unusual elastic response to traction (Fig. 1c). Clip–band closure was done at the end of procedure. Histology revealed acellular collagen fibers containing elastic serrated fibers, which were specifically stained with the van Gieson rapid method (Fig. 1d, Video 1). The final diagnosis was a rare case of elastofibroma of the stomach, which did not require further treatment.

Competing interests: None

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Fig. 1 a Endoscopic view of the antral mucosal bulge in a 52-year-old patient with a history of gastroesophageal reflux disease. b Unroofing of the lesion. c Endoscopic view during targeted biopsy with traction and enucleation of the elastofibroma. d Histological image showing scattered elastic fibers. Van Gieson rapid method, ×20 magnification.

Video 1
Antral gastric elastofibroma diagnosed by unroof biopsy with endoscopic submucosal dissection technique. ISMETT, Istituto Mediterraneo per i Trapianti e Terapie ad alta specializzazione; EUS, endoscopic ultrasound.

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