

Giant Brunner's gland hamartoma of the duodenal bulb removed by endoscopic submucosal dissection



A duodenal Brunner's gland hamartoma is an extremely rare benign tumor of the duodenum, representing less than 1% of primary tumors of the small intestine [1]. Most patients are asymptomatic, but sometimes the condition can cause symptoms such as obstruction or gastrointestinal hemorrhage [2]. In symptomatic patients, endoscopic or surgical treatment is required. When possible, endoscopic management is the first-line treatment, especially for pedunculated lesions [3].

We present here the case of a 43-year-old man referred for endoscopic treatment of a giant pedunculated polyp in the anterior wall of the duodenal bulb (▶ **Video 1**) that was discovered during an anemia check-up. A computed tomography scan revealed an intramucosal pedunculated polyp of 8–10 cm in size, without any sign of malignancy. Endoscopic treatment was indicated to avoid surgery. Initially, a standard polypectomy was considered, but the mass was too large to fit into a snare (▶ **Fig. 1**). We therefore decided to remove the lesion by endoscopic submucosal dissection (ESD), which was achieved with an en bloc resection specimen of 10×5×4.5 cm in size (▶ **Fig. 2**). To reduce the risk of delayed bleeding, prophylactic clip closure was performed. Pathological examination revealed a Brunner's gland hamartoma, with an absence of dysplasia. The patient was discharged 48 hours after the intervention, having had no adverse events.

Surgical treatment is usually reserved for lesions that are impossible to remove endoscopically, such as in the case of giant tumors or when snaring has failed [4]; however, ESD was feasible for this giant lesion. A hybrid-ESD technique for a duodenal hamartoma was previously described 15 years ago by Ohba et al. [5]. In expert centers, ESD may be an alternative



▶ **Video 1** Endoscopic submucosal dissection of a giant brunner's gland hamartoma of the duodenal bulb.



▶ **Fig. 1** Endoscopic view of a giant Brunner's gland hamartoma of the duodenal bulb.



▶ **Fig. 2** Macroscopic appearance of the en bloc resection specimen (10×5×4.5 cm in size), which was found to be a giant Brunner's gland hamartoma of the duodenal bulb.

treatment approach for complex lesions, thereby avoiding surgery and allowing for a precise pathology examination.

Endoscopy_UCTN_Code_TTT_1AO_2AG

Competing interests

The authors declare that they have no conflict of interest.

The authors

Miguel Pantaleón Sánchez¹, Mathieu Pioche¹, Mariana Figueiredo Ferreira, Mariana Milashka Brihay¹, Jérôme Rivory, Clara Yzet
Gastroenterology and Endoscopy Unit, Edouard Herriot Hospital, Lyon, France

Corresponding author

Miguel Pantaleón Sánchez, MD, PhD

Service hépato-gastroentérologie, Hôpital
Edouard Herriot, 5 place d'Arsonval, 69003
Lyon, France
miguelpantaleon@hotmail.com

References

- [1] Zhu M, Li H, Wu Y et al. Brunner's gland hamartoma of the duodenum: a literature review. *Adv Ther* 2021; 38: 2779–2794
- [2] Levine JA, Burgart LJ, Batts KP et al. Brunner's gland hamartomas: clinical presentation and pathological features of 27 cases. *Am J Gastroenterol* 1995; 90: 290–294
- [3] Yi L, Cheng Z, Qiu H et al. A giant Brunner's gland hamartoma being treated as a pedunculated polyp: a case report. *BMC Gastroenterol* 2019; 19: 151
- [4] Peloso A, Viganò J, Vanoli A et al. Saving from unnecessary pancreaticoduodenectomy. Brunner's gland hamartoma: Case report on a rare duodenal lesion and exhaustive literature review. *Ann Med Surg (Lond)* 2017; 17: 43–49
- [5] Ohba R, Otaka M, Jin M et al. Large Brunner's gland hyperplasia treated with modified endoscopic submucosal dissection. *Dig Dis Sci* 2007; 52: 170–172

Bibliography

Endoscopy 2022; 54: E1018–E1019

DOI 10.1055/a-1893-5782

ISSN 0013-726X

published online 24.8.2022

© 2022. The Author(s).

This is an open access article published by Thieme under the terms of the Creative Commons Attribution-NonDerivative-NonCommercial License, permitting copying and reproduction so long as the original work is given appropriate credit. Contents may not be used for commercial purposes, or adapted, remixed, transformed or built upon. (<https://creativecommons.org/licenses/by-nc-nd/4.0/>)

Georg Thieme Verlag KG, Rüdigerstraße 14,
70469 Stuttgart, Germany



ENDOSCOPY E-VIDEOS

<https://eref.thieme.de/e-videos>



Endoscopy E-Videos is an open access online section, reporting on interesting cases and new techniques in gastroenterological endoscopy. All papers include a high quality video and all contributions are freely accessible online. Processing charges apply (currently EUR 375), discounts and waivers acc. to HINARI are available.

This section has its own submission website at

<https://mc.manuscriptcentral.com/e-videos>