LETTERS TO THE EDITOR EDİTÖRE MEKTUPLAR Duodenal stromal tumor: A rare and overlooked cause of massive gastrointestinal bleeding

Duodenal stromal tümör: Nadir ve gözden kaçan masif bir gastrointestinal kanama nedeni

To the Editor,

A 56-year-old male patient was admitted to the Emergency Department of our hospital with the complaint of melena lasting for eight days. Before admission, he had been hospitalized for three days in a local state hospital. His initial hemoglobin was 4 g/dl at that hospital with the presence of hypotension, and he had received 7 units of packed red blood cells. Esophagogastroduodenoscopy was performed within 24 hours of admission to our hospital and showed fresh red blood in the second part of the duodenum, and a bleeding ulcerative mass 4 cm in diameter was found in the third part of the duodenum as the endoscope was moved further. No biopsies were taken and the patient underwent surgery soon after this endoscopy for curative reasons, also considering that the patient had experienced hypotension due to this mass. Following duodenotomy, the mass was totally excised by wedge resection (Figure 1).

Macroscopic examination revealed a solitary, wellcircumscribed and lobulated mass 4x5 cm in diameter arising from the submucosa of the duodenum. Histologically, the tumor was composed of spindle and epithelioid cells. The cells were separated by fibrous bands. Immunohistochemical staining revealed positive staining for CD117 (strongly) (Figure 2), CD34 and S100 (focal). The case was diagnosed as gastrointestinal stromal tumor (GIST).

GIST is a relatively newly discovered and defined clinical and pathological entity (1). Normally, gas-

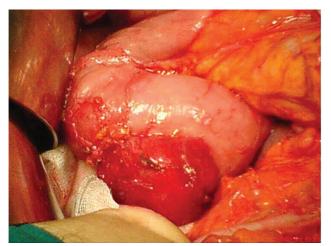


Figure 1. Lobulated mass 4x5 cm in diameter arising from the submucosa of the duodenum.

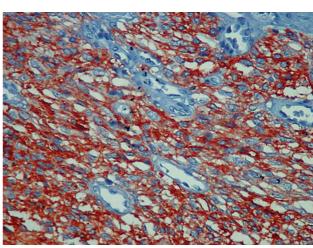


Figure 2. Tumoral cells stained positively with CD 117 (IHK X50).

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Address for correspondence: Özlem YÖNEM Cumhuriyet Üniversitesi Tıp Fakültesi Gastroenteroloji Bilim Dalı, Sivas, Turkey Phone: + 90 346 258 09 43 E-mail:oyonem@cumhuriyet.edu.tr trointestinal bleeding secondary to small bowel tumors arises in a progressive process, leading to chronic anemia and diagnostic difficulties (2). Presentation of a GIST as acute bleeding is rare, and the third part of the duodenum is not routinely investigated while performing upper endoscopy to ascertain the bleeding source.

Duodenal stromal tumors most commonly arise in the second part of the duodenum and about half of them are malignant. On presentation, 41%-47% of malignant GISTs are metastatic (3). These tumors grow expansively without being invasive and sometimes metastasize to the liver or recur locally (4). The most suitable treatment for duodenal

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GISTs is total surgical resection (5). However, surgical management of duodenal tumors is difficult because of the complex anatomical relationships around the duodenum. In cases of unresectable or metastatic GIST, imatinib mesylate, which is a powerful and selective inhibitor of tyrosine kinase KIT and PDGFRa receptors, can be used (5). As the tumor of our patient was not that large (4 cm) and his ampulla of Vater was preserved, wedge resection of the tumor was sufficient, leaving intact margins, and no additional treatment was planned. In conclusion, duodenal GIST in the third part of the duodenum and its presentation as massive bleeding are extremely rare.

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Carcinoid tumor within Meckel's diverticulum causing gastrointestinal bleeding

Meckel divertikülinde gastrointestinal kanamaya neden olan karsinoid tümor

To the Editor,

The most common complications of Meckel's diverticulum, which affects approximately 2% of the general population, are bleeding, intestinal obstruction and diverticulitis (1). Bleeding is usually the result of ileal mucosal ulceration that occurs due

Address for correspondence: Ersin ÖZTÜRK Uludağ Üniversitesi Tıp Fakültesi Genel Cerrahi Anabilim Dalı, 16059 Görükle, Bursa, Turkey Phone: + 90 224 295 20 21 E-mail: drozturk@uludag.edu.tr to acid producing, heterotopic gastric mucosa located within the diverticulum (1). Another possible cause of mucosal ulceration is carcinoid tumor (well-differentiated neuroendocrine tumor), which is also a rare clinical entity (2). Hence, a carcinoid

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