Ineffectiveness of capsule endoscopy and total double-balloon enteroscopy to elicit the cause of obscure overt gastrointestinal bleeding: think GIST!

A 55-year-old healthy woman was admitted because of a 2-month history of recurrent melena. Two previous esophagogastroduodenoscopies (EGD) and colonoscopies were negative. On admission the patient was hemodynamically stable. Her hemoglobin concentration was 8.6 g/dL. Physical examination was unremarkable. An emergency repeat EGD was negative. Capsule endoscopy revealed fresh blood, a suspicious submucosal lesion but no mucosal erosions in the jejunum (Fig. 1). Emergency next-day double-balloon enteroscopy (DBE) (oral and anal) did not show any blood or luminal lesion. Multi-slice computed tomographic (MSCT) angiography revealed a tumor attached externally to the distal jejunum (Fig. 2). The patient underwent surgery and the tumor was completely resected (Fig. 3). Histopathological examination showed a gastrointestinal stromal tumor (GIST).

This case is interesting for several reasons. First, it shows the utility of small-bowel endoscopy to discover active bleeding. Second, it demonstrates that radiological methods such as CT angiography should be included in the algorithm for acute overt gastrointestinal bleeding [1]. In this case, capsule endoscopy showed active gastrointestinal bleeding, but it was unable to define any mucosal lesion. One would expect that DBE, with its capability of to-and-fro movements and ability to flush the mucosa with water, would allow better mucosal inspection [2]. However, the subtle submucosal localization of this GIST made endoscopic diagnosis impossible [3, 4]. The tumor mass was mainly located outside the lumen and appeared as a huge peduncle attached to the small bowel. Thus, in this case, only CT, MRI, angiography, or an exploratory laparotomy would help the clinician reach a diagnosis. In summary, in the era of advanced luminal small-bowel imaging this case reminds us of the challenging pathological appearance of GIST and the necessity of including radiological imaging methods in the management algorithm of patients with acute obscure overt gastrointestinal bleeding in whom endoscopic methods do not permit a diagnosis.

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