



[PICTURES IN CLINICAL MEDICINE]

Extraluminal Duodenal Gastrointestinal Stromal Tumor with Arteriovenous Malformation

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Key words: gastrointestinal stromal tumor, arteriovenous malformation, duodenum, endoscopic ultrasound, extraluminal, color Doppler imaging

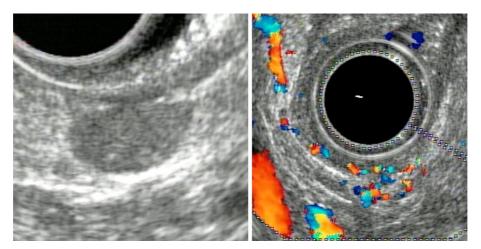
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Picture 1.

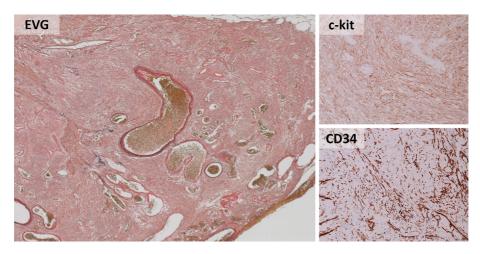


Picture 2.



Picture 3.

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Picture 4.

A 72-year-old man was admitted for the investigation of a hypervasucular lesion in the second part of the duodenum (Picture 1). Esophagogastroduodenoscopy showed a slightly elevated lesion in the duodenum (Picture 2). Endoscopic ultrasound confirmed an 8-mm hypoechoic mass arising from muscularis propria, and color Doppler imaging revealed a turbulent flow in the mass accompanied by arterial inflow and pulsating outflow (Picture 3). A histopathologic examination after partial duodenectomy showed synchronous development of an 8-mm gastrointestinal stromal tumor (GIST) with a mitotic count of 1/50 high-power fields and arteriovenous malformation (AVM) at the same site; immunostaining showed the expression of c-kit and CD34, and elastica-van Gieson staining showed anastomoses of dilated abnormal vessels (Picture 4). Thus far, only a few synchronous occurrences of AVM and GIST have been reported in the literature (1, 2), and this is the first case of an AVM associated with a duodenal GIST.

We declare that this manuscript is original, has not been published before and is not currently being considered for publication elsewhere. We obtained informed consent from the patient.

The authors state that they have no Conflict of Interest (COI).

References

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