Rare cause of abdominal angina

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DESCRIPTION

The median arcuate ligament syndrome (MALS) or Dunbar syndrome was first described in 1963 by Harjola1 and 2 years later, Dunbar et al2 reported the first surgically treated patients. It is a rare condition that results from the compression of the celiac axis, causing symptoms like postprandial abdominal pain, nausea, epigastric bruit and unintentional weight loss.³ It is more common in women in their fourth and fifth decades of life and symptoms can persist for 3 months to 10 years.⁴

We present a case of a 77-year-old woman, with hypertension and severe mitral stenosis, who came to the emergency room for epigastric pain, with a severity of 8 on 10 on a pain scale of 0–10. She reported postprandial episodic epigastric pain and nausea without vomiting since the age of 45, with spontaneous resolution. The patient had been evaluated in an outpatient clinic for these complaints in the previous years, with an extensive evaluation of her gastrointestinal tract (upper and lower endoscopy) and evaluation of gall bladder diseases with multiple abdominal ultrasounds. Blood tests and abdominal ultrasound were unremarkable. An abdominal CT angiography was performed because she had no pain relief with analgesic therapy. High-grade stenosis of the celiac axis origin due to extrinsic compression by the median arcuate ligament was identified (figures 1 and 2). Due to the recurring pattern and characteristics of the abdominal pain, and to the lack of evidence of alternative diagnosis from the investigations performed, MALS was assumed. There is currently no specific treatment for this condition.⁵ We adopted a watchful waiting approach attending to the age and comorbidities of the patient. Surgery is the only effective approach; however, celiac angioplasty or endovascular stenting can be considered.⁶

Learning points

► Abdominal pain includes an extensive range of differential diagnoses and therefore, deep research is needed before we reach the correct diagnosis.
► Median arcuate ligament syndrome is rare, and as a diagnosis of exclusion, the patient may endure months to years of recurrent abdominal pain without knowledge of aetiology.
► In patients with abdominal pain that persists after medical therapy, it may be useful to perform a vascular investigation.

REFERENCES
