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## CLINICAL CASE

### Splenic artery aneurysm. Report of a case<sup>☆</sup>



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#### KEYWORDS

Aneurysm;  
Splenic artery;  
Splenectomy

#### Abstract

**Background:** The incidence of splenic artery aneurysm is not well known because it is often asymptomatic.

**Clinical case:** The case is presented of a 40-year-old woman diagnosed with a splenic artery aneurysm. She was clinically asymptomatic. A three-dimensional angiographic study was performed. The artery embolisation was rejected, according to the results of the study; thus it was decided to perform a laparoscopic splenic-aneurysmectomy.

**Conclusions:** Splenic artery aneurysms may present with non-specific symptoms, such as abdominal pain or anorexia. However, 2–10% of aneurysms debut as spontaneous rupture. For this reason treatment is indicated in symptomatic aneurysms or those with rupture risk factors. In these cases there are different possibilities, such as therapeutic embolisation, endovascular stenting or surgery. Surgical approach varies depending on the location of the aneurysm in the splenic artery, enabling aneurysmectomy, splenic-aneurysmectomy, or aneurysm exclusion to be performed.

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#### PALABRAS CLAVE

Aneurisma;  
Arteria esplénica;  
Esplenectomía

#### Aneurisma de arteria esplénica. A propósito de un caso

#### Resumen

**Antecedentes:** El aneurisma de la arteria esplénica es una patología cuya incidencia es poco conocida debido a su carácter mayoritariamente asintomático.

**Caso clínico:** Se comunica el caso de una mujer de 40 años clínicamente asintomática diagnosticada de aneurisma de arteria esplénica. Tras cateterizar la arteria esplénica y realizar

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un estudio angiográfico tridimensional se descarta la posibilidad de embolización. Se decide esplenoneurismectomía programada por vía laparoscópica.

**Conclusiones:** Los aneurismas de arteria esplénica pueden dar síntomas inespecíficos como dolor abdominal o anorexia. Por otra parte, no debe subestimarse un 2-10% de aneurismas que comienzan con rotura espontánea. Es por esto que el tratamiento está indicado en aneurismas sintomáticos o con factores de riesgo de rotura. En este escenario existen varias posibilidades terapéuticas, como la embolización, la colocación de stent endovasculares o la cirugía. La técnica quirúrgica varía en función de la localización del aneurisma dentro del trayecto de la arteria esplénica, pudiendo realizarse aneurismectomía, exclusión aneurismática o esplenoneurismectomía.

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## Background

The splenic artery aneurysm includes all dilatations of said artery, which are greater than 1 cm in diameter. Although the true prevalence of this entity is unknown and approximately 90% of these cases are asymptomatic, it is undoubtedly significant since it accounts for 60% of digestive arterial aneurysms.<sup>1</sup>

## Clinical case

This is the report of the case of a clinically asymptomatic 40-year-old woman patient who was diagnosed with splenic artery aneurysm. This was incidentally discovered during a routine check-up conducted by her primary care physician.

Upon examination, there was no abdominal pain, and no tumours or megalies were felt. She was referred to the interventional radiology service for her therapeutic assessment. Upon catheterisation of the splenic artery and conduction of a three-dimensional angiographic study, a maximum fusiform dilatation of 23 mm in diameter (Fig. 1) was confirmed. Thus, the possibility of embolisation was rejected.

It was decided to perform a laparoscopic splenoaneurysmectomy (Fig. 2). For that purpose, a Hasson trocar was placed at the umbilical level and two 5 and 12 mm trocars

were inserted in a subcostal position, with the cleavage of the splenic angle and the opening of the epiploic transcavity (Fig. 2A), the placement of 2 metallic clips on the splenic artery in a position proximal to the aneurysm, and the section of short gastric vessels (Fig. 2B). Finally, the section of the splenic pedicle was conducted using an Endo GIA stapler with vascular load, and the surgical piece was extracted and placed in a bag (Fig. 2C and D).

There were no events during the post-surgical period, and the patient showed oral tolerance the same day during the afternoon. The patient was released from the hospital after 3 days.

## Discussion

Most splenic artery aneurysms are asymptomatic or present non-specific symptoms (abdominal pain, anorexia, nausea, vomiting, etc.), so they are diagnosed by chance during the performance of imaging tests.<sup>1,2</sup>

Nevertheless, it must not be underestimated that about 2–10% of aneurysms begin with spontaneous rupture.<sup>3</sup> In these cases, patients present acute pain in the epigastrium, left hypochondrium, left shoulder (Kehr's sign) and haemodynamic instability. The haemorrhage may stop in the epiploic transcavity or move from Winslow's hiatus to



**Figure 1** Angiographic study confirming fusiform dilatation located in the distal third of the splenic artery.

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