Clinical image description

A 75-year-old female patient with hypertension, obesity, and dyslipidemia is being followed up in primary health care. She was referred to the hospital due to the finding on transthoracic echocardiography of a 55x30 mm dense, oval image at the level of the right atrium in relation to the interauricular septum. A transesophageal echocardiogram (TEE) confirmed above findings, suggesting a lesion of similar size, whose origin seemed to be centered on the interauricular septum, with no evidence of obstruction to blood flow at its location.

The investigation continued with computed tomography angiography (CTA) and cardiac magnetic resonance imaging (CMR), revealing an epicardial lipomatosis extending along the posterior surface of the right atrium and the interauricular sulcus, of a lipid and non-vascularized nature, particularly marked at the level of the ostium of the superior vena cava, where it involves the vessel and seems to cause a partial reduction in its lumen. Due to the absence of signs and symptoms, there were no criteria for urgent cardiac surgery, the patient was referred to the cardiothoracic surgery outpatient clinic for follow-up.

Epicardial lipomatosis (EL) is a rare disease characterized by greater development of this layer of adipose tissue due to adipocyte hyperplasia [1,4]. Its etiology is unclear, but it seems to predominate in older, obese people [2-4], and preferentially in women [3]. Its echocardiographic appearance can lead to misdiagnosis due to its similarity to other pathologies, and CMR is an essential test for the correct identification of this entity [1].

In this case, CMR allowed us not only to clarify the features of the lesion, but also to identify the luminal obstruction of the superior vena cava, which could not be seen on TEE and which could be crucial for the subsequent therapeutic approach.

References
**Figure 1:** Image in CTA of a 55x30 mm mass in the right atrium in relation to the interauricular septum.

**Figure 2:** Image of epicardial lipomatosis in late-enhancement MRI.

**Figure 3:** Decrease in the caliber of the superior vena cava due to epicardial lipomatosis.