A 44-year-old man presented to us with a history of chest discomfort since 3 days and pain and swelling of the left lower limb. There was no history of dyspnoea, palpitations or syncope. He was a smoker but not a diabetic or hypertensive. Cardiovascular examination was normal. ECG showed inverted T waves in lateral leads. An echocardiogram was performed which showed regional wall motion abnormality in the left anterior descending artery territory with good biventricular function. There was no evidence of pulmonary embolism. A large band-like structure with a fleshy calcific centre was noted in the left ventricular cavity. Troponin T levels were mildly elevated but all other blood investigations were normal. Venous Doppler showed evidence of deep vein thrombosis involving the left lower limb. He was taken up for a coronary angiogram in view of his ECG and echocardiogram findings. The angiogram did not reveal any significant coronary artery disease. However, fluoroscopy of the heart revealed the following interesting finding (videos 1 and 2; figure 1).

A calcific ball-like structure was seen moving in the left ventricular (LV) cavity.

The echocardiogram was repeated. In the mid-segment of the LV cavity, a horizontal band (false tendon) was seen with a thick, calcific, ball-like central portion. There were no other mass lesions in the ventricle (video 3; figure 2). The septal and free wall attachments of the band were defined and it was confirmed to be a false tendon. The mass lesion had no direct attachment to any other part of the ventricle. The wall-motion abnormality persisted. There was no evidence of a patent foramen ovale on bubble contrast study.

False tendons are band-like structures sometimes seen in the left ventricle. The incidence varies from 0.4% to 61% in various series. They usually extend from the interventricular septum to the free wall or rarely between two segments of the septum or from the papillary muscle to the septum. They are usually found at the level of the apical or mid-segments of the left ventricular cavity. They are usually thin, band-like structures but they may occasionally be thick and muscular. On the basis of histology, they can be classified into three types—fibrous, fibromuscular and muscular. The last two types tend to be thicker. False tendons are usually of no clinical significance but their presence may cause diagnostic confusions on the echocardiogram. In this case the false tendon was extremely thick...
and calcified raising the possibility of a mass lesion or thrombus. However, careful echocardiographical assessment revealed the band-like morphology with attachments medially to the septum and laterally to the left ventricular free wall. The interesting finding was caused by the central ball-like structure on the false tendon which was calcific and hence visible as a freely moving ball during the angiogram. Since tumours or thrombus arising from the false tendon have not been described in literature, we may have to conclude that this is an extremely unusual anatomic variant of the false tendon. We do not believe that the false tendon was in any way responsible for the acute coronary syndrome in this case but was rather an incidental finding. The acute coronary syndrome was probably the result of an acute thrombotic occlusion of the coronary artery which recanalised spontaneously or due to coronary vasospasm. The patient was treated with heparin followed by oral anticoagulants for deep vein thrombosis. He was also started on aspirin and atorvastatin. He has been advised regular follow-up.

### Learning points

- False tendons are fibromuscular bands seen in the left ventricle.
- Though they are usually thin bands they may occasionally be thick and calcified and may be confused with a mass lesion on echocardiogram or on fluoroscopy.
- Careful assessment of the echocardiogram generally makes the diagnosis evident.

### Contributors

All authors have participated in the intellectual content and design of this work as well as the writing of the manuscript. HK is the guarantor.

### Competing interests

None.

### Patient consent

Obtained.

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### REFERENCES

Figure 2  (A) Echocardiogram images showing the attachments of the false tendon (black arrows) and the calcific central part (white arrow) which resembles a mass (B) and (C) showing the medial/septal (white arrow) and lateral/free wall (black arrow) attachments of the false tendon.