IMAGES AND VIDEOS

TOE imaging of a large aortic mass: an unusual cause of systemic embolization in a septic patient

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Summary

A 72-year-old woman presented with sepsis and lower limb ischaemia. Transoesophageal echocardiography (TOE) for suspected endocarditis revealed no cardiac pathology or source of emboli but a large thrombus-like mass was noted in a normal-size descending aorta (Fig. 1A, Video 1). Repeat TOE after two weeks of anticoagulation showed two new masses and no change in the size of the original one (Fig. 1B). The patient died after bilateral leg amputation. There was no PM to provide pathology confirmation, but the most likely diagnosis was of a thrombus, possibly infected. Large aortic clots in a mildly diseased aorta are unusual and a rare cause of systemic embolization (1). TOE is considered the best imaging technique for aortic thrombi (2), and in this case, it clarified the correct diagnosis. A systematic TOE protocol (3) with assessment of all structures including descending aorta should be followed irrespective of the original indication. In the present case, a more focussed study might have missed the main pathology that was captured due to the thoroughness of the operator in completing the scan including all aortic views.

Video 1


Declaration of interest

The authors declare that there is no conflict of interest that could be perceived as prejudicing the impartiality of this article.

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Patient consent

No consent was obtained (deceased patient).

Author contribution statement

Dr Sarah R Blake summarised the clinical information and wrote the manuscript. Dr Jamal Khan performed the repeat TOE and reviewed the manuscript. Dr Adrian Chenzbraun performed the first TOE and revised the paper.

References


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Figure 1
(A) First TOE: large thrombus at 30 cm depth overlying a calcific but uncomplicated plaque (arrow). (B) Repeat TOE: lack of regression of initial thrombus (1) and two new smaller thrombi at 35 cm (2) and 40 cm (3). Left panel: X-plane imaging; Right panel: 3D imaging.