

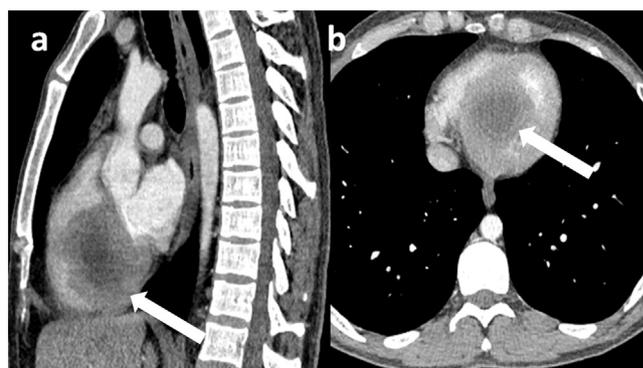
## Medical Imagery

## Intracardiac echinococcosis cyst mimicking a septal cardiac tumor with neurological symptoms



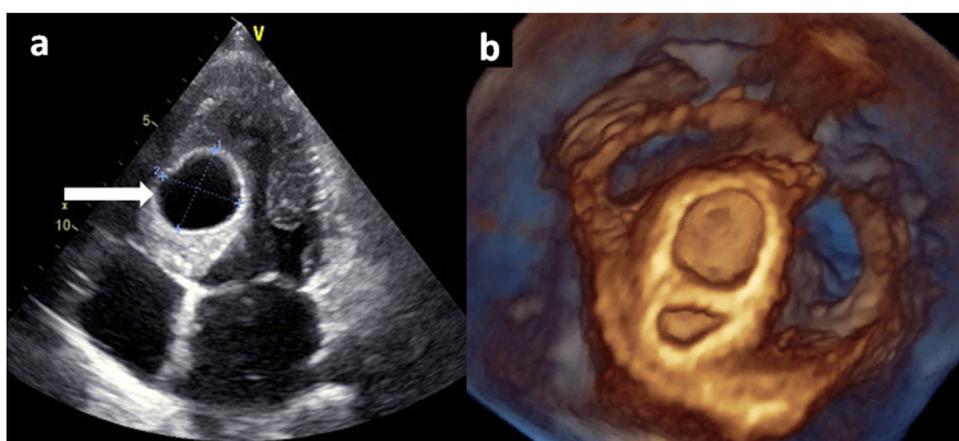
We present the case of a 37-year-old man with no known medical history who was initially admitted for exploration of acute blurred vision. A cerebral Computed Tomography revealed signs of recent ischemic stroke. A systematic transthoracic echocardiography was performed and showed a 30 mm septated anechoic mass measuring in the interventricular septum (Figure 1). A thoraco-abdomino-pelvic Computed Tomography confirmed an isolated round cystlike structure involving the septum (Figure 2) with no other cysts seen in the liver, kidney or spleen. Given the North African origin of the patient, the diagnosis of cardiac echinococcus was most likely. He was then transferred for urgent surgical treatment. With median sternotomy and under cardiopulmonary bypass, a puncture, sterilization of the cavity with scolicalid agents and excision of the endocyst along with the ectocyst were performed. Then the residual cavity was plicated with continuous Prolene sutures (Figure 3) (Supplementary video). The patient was discharged under albendazole therapy for 12 weeks postoperatively.

Myocardial hydatid cysts are uncommon, found in fewer than 2% of cases of hydatidosis (Dighiero et al., 1958). Acute stroke as a presenting symptom is exceptionally reported (Gupta and Priyadarshi, 2019); echocardiography and cardiac CT imaging

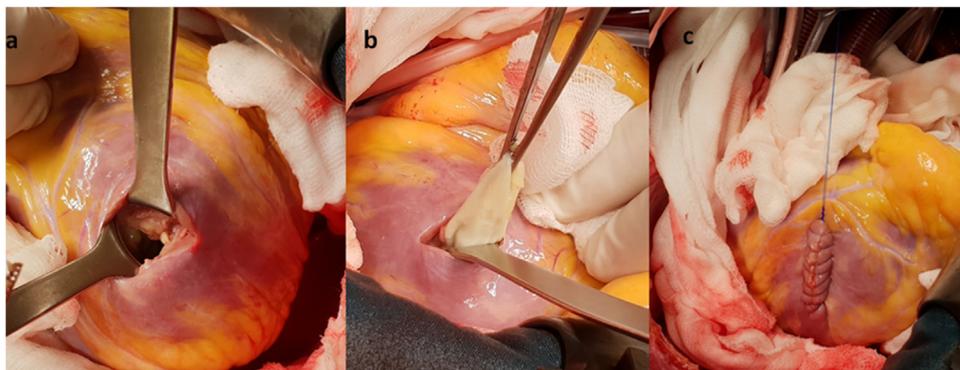


**Figure 2.** Thoracic computed tomography: thoracic computed tomography in the sagittal (a) and transverse plane (b) showing an isolated round cystlike structure involving the inter ventricular septum.

are considered diagnostic modalities of choice (Gupta and Priyadarshi, 2019). Differential diagnosis should include cardiac tumours, thrombus, myxoma and sarcoma (Wadhawa et al., 2018).



**Figure 1.** Trans thoracic echocardiography: An apical 4-chamber trans thoracic echocardiography view showing a large cystic mass in the inter ventricular septum (white arrow) (2a), a three dimensional echocardiography showing the septal multiseptated cyst.



**Figure 3.** Per operative view: Per operative view showing the cystic cavity with (3a) the proligerous membrane extraction (3b) and the final result demonstrating a plicated residual cavity by a running suture.

### Conflict of interest

No conflict of interest to declare.

### Funding source

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### Ethical approval

Written informed consent was obtained from the patient for the publication of this case report and its accompanying images.

### Acknowledgement

None.

### Appendix A. Supplementary data

Supplementary material related to this article can be found, in the online version, at doi:<https://doi.org/10.1016/j.ijid.2019.08.024>.

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