

Case report



Tamponade revealing hydatid cyst of the left ventricle

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Abstract

The hydatid disease is endemic in certain areas of the world such as the Mediterranean basin. We report the observation of cardiac hydatidosis revealed by pericardial effusion. A 49 year old man, with no particular pathological antecedents, consulted for progressive dyspnea since 3 months. In cardiac echocardiography, we noticed the presence of an abundant pericardial effusion in pre-tamponade. A pericardial puncture indicated urgently was performed. Thoracoabdominal CT scan showed a multivesicular hydatious cyst of type 3 interesting the superior part of the left ventricle. The patient was put on medical treatment (Albendazole®) and referred to surgery for management.

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Introduction

The hydatid disease or hydatid cyst results from the development of the hydatid larvae of a *taenia echinococcus or echinococcus granulosus*. It is endemic in certain areas of the world such as the Mediterranean basin. We report the observation of cardiac hydatidosis revealed by pericardial effusion.

Patient and observation

A 49 year old man, with no particular pathological antecedents, consulted for progressive dyspnea since 3 months. In physical examination, blood pressure was 100/60 mmHg, respiratory rate 24/min and pulse rate 98/min. Cardiovascular examination showed Muffling of heart sounds with No signs of heart failure. The rest of the clinical examination was normal. The electrocardiogram showed a right bundle of branches Chest X-ray showed a Cardiomegaly. (Figure 1) In cardiac echocardiography, we noticed the presence of an abundant pericardial effusion in pretamponade. A pericardial puncture indicated urgently was performed and had removed 1100ml of exudative yellow liquid citrin. Thoracoabdominal CT scan showed a multivesicular hydatid cyst of type 3 interesting the superior part of the left ventricle and another hydatic cyst of 8cm interesting segment 8 of the liver of type 4. There was no pulmonary involvement associated. (Figure 2) The patient was put on medical treatment (Albendazole®), and referred to surgery for management.

Discussion

The cardiac hydatid cyst is rare, representing 0.5% to 2% of all hydatid locations. The literature review showed the predominance of the left ventricular location of the hydatid

cyst (60%) which is explained by the importance of muscle mass and the rich vascularization of the left ventricle [1]. The interventricular septum is affected in 9 to 20% of cases, while the right ventricle and the right atrium (4 to 17%) and the interatrial septum (2%) [2]. The circumstances of discovery are numerous, the symptomatology varies according to the evolutionary stage of the cyst and its seat. Complications are mainly represented by pulmonary embolism, systemic, cerebral, valvular obstruction, atrioventricular block or rupture in the pericardium [3]. Echocardiography remains the key examination for the diagnosis of cardiac hydatid disease. CT and MRI allow more accurate topographic analysis and study of cyst ratios. The curative treatment of cardiac hydatidosis is exclusively surgical. It is systematic and must be done as early as possible to prevent the occurrence of complications.

Conclusion

The cardiac hydatid cyst is a serious and rare pathology. The clinical pictures are variable and nonspecific. The therapeutic management is delicate and combines medical treatment to surgery.

Competing interests

The authors declare no competing interest.

Authors' contributions

All the authors have read and agreed to the final manuscript.

Figures

Figure 1: frontal chest image showing cardiomegaly and bulging of the left lower arch

Figure 2: CT scan mediastinal window showing a type 3 multivesicular cyst sitting in the left ventricle

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Figure 1: frontal chest image showing cardiomegaly and bulging of the left lower arch

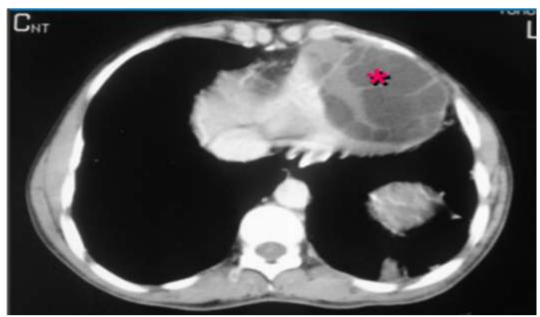


Figure 2: CT scan mediastinal window showing a type 3 multivesicular cyst sitting in the left ventricle