Caso Clínico
Clinical Case

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Linfangioma cístico do mediastino
Mediastinal cystic lymphangioma

Resumo
O linfangioma mediastínico é uma neoplasia vascular rara, correspondendo a 0,7 a 4,5% de todos os tumores do mediastino. É um tumor benigno, que ocorre geralmente como uma massa mediastínica de crescimento lento. A maioria dos doentes está assintomática, sendo diagnosticado incidentalmente, após a realização de uma radiografia torácica de rotina. O tratamento de eleição consiste na ressecção cirúrgica completa. O prognóstico depende do grau de ressecabilidade e, se a lesão for totalmente removida, não se esperam recidivas.

Resum浓浓的тор: Tumor mediastínico, linfangioma, cistomediastínico.

Palavras-chave: Tumor mediastínico, linfangioma, cistomediastínico.

Abstract
Mediastinal lymphangioma is a rare vascular neoplasm, accounting for 0.7 to 4.5% of all the mediastinum tumors. It is a benign tumor, generally occurring as a mediastinal mass of slow growth. Most patients are asymptomatic, being incidentally diagnosed after a routine chest radiograph. The best treatment consists of complete surgical resection. Prognosis depends on the degree of resectability degree, and recurrence is not expected if the lesion is totally removed.

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Key-words: Mediastinal tumor, lymphangioma, mediastinal cyst.
Introduction

Lymphangiomas are lymphatic malformations rather than true neoplasms and are thought to result from failure of the lymphatic system to communicate with the venous system. About 90% of all the cases are diagnosed by the age of two years old. Mediastinal lymphangioma is a rare vascular neoplasm, representing about 0.7 to 4.5% of all mediastinal tumors.\(^1,2,3\) Firstly described in the literature in 1951,\(^4,5\) several case reports and case series have been published, but with a reduced number of patients.\(^6,7,8\) The rare cases diagnosed in adulthood are, usually, asymptomatic and incidentally detected. The best treatment consists of complete surgical resection. The authors report a case and make a brief review of clinical presentation, evolution and treatment of this type of tumor.

Case report

A 33-years-old caucasian man was referred to Pulmonology in April 2005 to clarify a radiological abnormality which was present in a routine chest radiography. The patient did not have any relevant pathological history, although he was a current smoker. At the time of presentation he was asymptomatic. Chest radiograph showed a mediastinal opacity in the anterior mediastinum (Fig. 1 and 2). He underwent a thoracic CT scan that identified a paratracheal and pre-tracheal mediastinal mass, from the cranial plane of supra-aortic vessels to sub-carinal region, well-defined, about 67 mm of longitudinal diameter with hydric content attenuation values (Fig. 3). Fiberoptic bronchoscopy was normal. Transtracheal fine needle aspiration was made, with suction of hydric, clear and yellowish content. Cytological exam of his was inconclusive, revealing only mature B and T lymphocytes. Lung function evaluation was normal. The patient was scheduled for a diagnostic thoracotomy. He underwent complete resection of a cystic mass, which was located between the azygos vein, the superior cava vein and the thorax apex. Macroscopic anatomo-patho-
Lymphangioma is usually detected in childhood and occurs mainly in the neck and head region (75% of the cases) and in the axillary region (20%).

Riquet et al. carried out a retrospective analysis of 37 patients and concluded that in children, teenagers and young adults, lymphangiomas are

Discussion

Lymphangioma is usually detected in childhood and occurs mainly in the neck and head region (75% of the cases) and in the axillary region (20%). Cases diagnosed in adulthood are rare and are usually located in the intrathoracic region.
located in the neck or anterior mediastinum and have a vascular malformation component and so it should be considered congenital. On the other hand, in older adults these tumors are found predominantly in the posterior or mediastinum and are constituted of purely liquid cysts, which suggest an acquired origin.

Turning to pathological characteristics, lymphangioma can be classified in three types: cystic, capillary and cavernous, with the first the most frequent. About 1% of cystic lymphangiomas are located in the mediastinum. Cystic lymphangiomas are benign tumors that are usually presented as mediastinal masses of slow growth, showing evidence of progression in terms of tumoral size or invasion of adjacent vital structures. Sometimes this invasion limits the surgical removal of the tumor or makes it difficult.

Most of the patients are asymptomatic, being incidentally diagnosed in adulthood through a routine chest radiograph. Symptoms such as hoarseness, dyspnea, respiratory failure, superior vena cava syndrome or dysphagia occur when the tumor grows and compresses or invades adjacent structures. Sometimes this invasion limits the surgical removal of the tumor or makes it difficult.

The best treatment consists of complete surgical resection of the tumor. Nevertheless, sometimes surgical excision is technically difficult because of the tumor’s size or extension, or if it infiltrates mediastinal plans or involves the great vessels. Sclerosis with chemical agents is an alternative treatment and should be considered when surgery is not possible. Okubo et al describe a case of cystic lymphangioma located in the right superior mediastinum, in which intralval administration of OK-432 was made, with an excellent result. In a review of 22 cases of lymphangioma diagnosed in children, sclerosis with intralval bleomicin was made in three cases, with subsequent complete disappearance of the lesions. However, the author states that experience with this kind of treatment is limited, being surgery considered the treatment of first choice. Thus, sclerotherapy can be useful in cases in which surgery carries a high risk of damage to adjacent structures.

In the cases of incomplete resection of the tumor, there could be an insidious progression of the lesion and subsequent recurrence. If all the tumoral mass has been surgical removed, recovery is complete and recurrence after surgery is not expected. The case described is a rare condition of a mediastinal cystic lymphangioma, whose definitive diagnosis was only possible after the histological and immunohistochemical examination of the surgical mass. Despite in this case thoracic CT scan indicating a hydric attenuation pattern, it did not allow differentiation from other pathologies, namely, cystic teratoma, cystic thymoma or tymic cyst. The case reported occurred in a young adult and was located in the anterior mediastinum, as is usual in lymphangiomas considered congenital. However, the cystic structure of the tumor suggests an acquired origin.
Bibliography