A GIANT MALIGNANT SOLITARY FIBROUS TUMOR OF THE PLEURA

Julio Ricardo Torres Bermúdez MD PhD Oriana Andreina Fernández González Sebastian Sevilla López

PII: S0300-2896(24)00277-1

DOI: https://doi.org/doi:10.1016/j.arbres.2024.07.015

Reference: ARBRES 3631

To appear in: Archivos de Bronconeumologia

Received Date: 24 June 2024 Accepted Date: 12 July 2024

Please cite this article as: Bermúdez JRT, González OAF, López SS, A GIANT MALIGNANT SOLITARY FIBROUS TUMOR OF THE PLEURA, *Archivos de Bronconeumología* (2024), doi: https://doi.org/10.1016/j.arbres.2024.07.015

This is a PDF file of an article that has undergone enhancements after acceptance, such as the addition of a cover page and metadata, and formatting for readability, but it is not yet the definitive version of record. This version will undergo additional copyediting, typesetting and review before it is published in its final form, but we are providing this version to give early visibility of the article. Please note that, during the production process, errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

© 2024 SEPAR. Published by Elsevier España, S.L.U. All rights are reserved, including those for text and data mining, AI training, and similar technologies.



ARTICLE TYPE

CLINICAL IMAGE.

TITLE

A GIANT MALIGNANT SOLITARY FIBROUS TUMOR OF THE PLEURA.

AUTHORS

Julio Ricardo Torres Bermúdez^a, MD, PhD. https://orcid.org/0000-0003-1828-8340

Email: ricardo970sigma@yahoo.com

Oriana Andreina Fernández González^a.

Email: orian.fergo@gmail.com

Sebastian Sevilla Lópezª

Emaill: sebastiansevilla@yahoo.es

^a Thoracic Surgery Department. Hospital Universitario de Jaén Avenida del Ejercito Español, 10, 23007. Jaén. Spain.

Corresponding author: Julio Ricardo Torres Bermúdez^a. ricardo970sigma@yahoo.com Calle Ecija no. 31. Huétor Vega. 18198. Granada. ESPAÑA.

Key words: solitary fibrous tumors of the pleura, intrapericardial pneumonectomy, wall and diaphragm resection, adjuvant therapy.

Malignant solitary fibrous tumors of the pleura (SFTP) are aggressive tumors with a recurrence rate between 0% and 42.9% (1). Surgical resection is the standard treatment (1-2).

A 50-year-old male patient presented with a 3 months history of 10 kg weight loss, dyspnea, chest pain, and anemia. A computed tomography (CT) scan showed a 12 x16 cm mass with compression of mediastinum (Fig 1 a and b). The patient underwent a left intrapericardial pneumonectomy with an en bloc resection of the 4^{th} - 7^{th} left ribs and a segment of diaphragm (Fig 1 c: L- Lung, R- Ribs, D-Diaphragm). The chest wall and diaphragm defects were closed using a 20 x 15 cm composite polyester with collagen film (SYMBOTEXTM) (Fig 1 d) and a 10 x15 cm titanised polypropylene (TILENE®) mesh respectively.

Histologically the specimen showed a 16 x 19 x 17 cm, 2 kg SFTP infiltrating into the lung parenchyma, 4th rib and diaphragm with more than 2 cm free resection margins. The tumor had hypercellularity, atypia, dedifferentiation,

pleomorphism, and 6 mitosis/10 high-power fields (HPFs). Immunohistochemically expressed vimentin and CD34. The tumor was classified as SFTP with high malignant potential. The patient started adjuvant therapy with adriamicin and doxorubin regime.

Informed consent.

The authors have obtained the informed consent of the patient. This document is held by the corresponding author.

Funding of the research.

This research did not receive any specific grant from funding agencies in the public, commercial or not for profit sectors.

Authorship contributions:

JRTB conceived and designed the study. JRTB, OAFG and SSL contributed to the writing of the manuscript, revised the article critically and approved the final version.

Conflict of interest of every author.

The authors have no conflicts of interest to declare that might be directly or indirectly related to the manuscript contents.

REFERENCES

- 1- Mercer RM, Wigston C, Banka R, Cardillo G, Benamore R, Nicholson AG, et al. Management of solitary fibrous tumours of the pleura: a systematic review and meta-analysis. ERJ Open Res 2020; 6: 00055-2020 [https://doi.org/10.1183/23120541.00055-2020].
- 2- Dörr NM, Krüger M, Möller M, Zinne N, Toennies M, Schega O et al. Solitary fibrous tumors of the pleura: do we need a different perspective on malignancy? Eur J Cardiothorac Surg 2024; doi:10.1093/ejcts/ezae096.

Figure 1a and b. A chest CT showed a 12 x16 cm mass with compression of mediastinum. 1c. Specimen after a left intrapericardial pneumonectomy with an en bloc resection of the 4th -7th left ribs and a segment of diaphragm (L- LUNG, R- RIBS, D- DIAPHRAM). 1d. Closure of the wall defect using a 20 x 15 cm composite polyester mesh with collagen film (SYMBOTEXTM)

