

Clinical Image

Atypical Form of Pleural Disease and Diagnostic Challenges

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Clinical Image

A 64-year-old male presented with subfebrile temperature, night sweats and fatigue for several months, without respiratory symptoms. Latest findings of X-ray and computed tomography of the chest show progression - right pleura with irregular thickenings with mediastinal lymphadenopathy (Figure 1a, 1b). Transbronchial needle aspiration was performed with no malignant cells found. Fine-Needle Aspiration Biopsy (FNAB) under Thoracic Ultrasound (TUS) control was performed (Figure 1c, 1d) and the diagnosis of epithelioid mesothelioma (Figure 2a) was immunohistochemically proved by positivity on CK AE1/3 (Figure 2b), CK7 (Figure 2c), Wt-1 (Figure 2d), D2-40 (Figure 2e), HBME-1 (Figure 2f) and negativity for other applied markers.

TUS is sensitive diagnostic tool for pleural diseases evaluation including malignancy and have place in planning and performing interventional procedures [1]. FNAB under TUS control, although not common procedure, has its role in diagnostic of pleural diseases.

Teaching Points

- Malignant pleural diseases can be presented with general symptoms and no pain experienced.
- FNAB under TUS control could be useful to provide adequate tissue samples in atypical pleural diseases.

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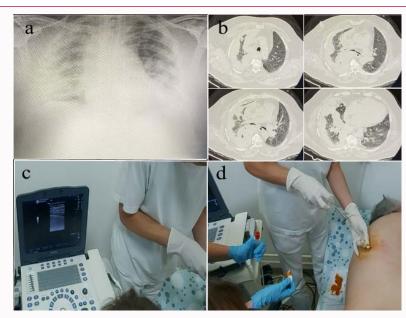


Figure 1: 1a) X-ray of the chest; 1b) computed tomography of the chest; 1c) TUS performing in order to visualize parietal pleura and deeper structures of the lung seeking for the right needle position; 1d) FNAB and collecting tissue samples.

is properly cited.

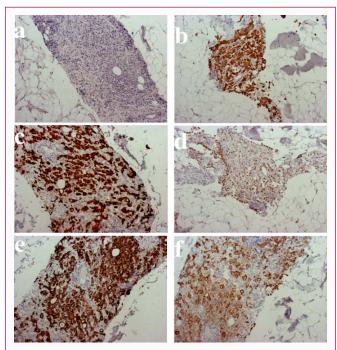


Figure 2: 2a) Histological picture of epithelioid variant of mesothelioma; 2b) positivity on CK AE1/3; 2c) positivity on CK7; 2d) positivity on Wt-1; 2e) positivity on D2-40; 2f) positivity on HBME-1.

(Hematoxylin –eosin and immunostaining with hematoxylin counterstain, original magnification x200).

References

1. Hassan M, Mercer RM, Rahman NM. Thoracic ultrasound in the modern management of pleural disease. Eur Respir Rev. 2020;29:190136.