Smaali et al. Clin Med Img Lib 2022, 8:206

DOI: 10.23937/2474-3682/1510206

Volume 8 | Issue 2 Open Access



Clinical Medical Image Library

IMAGE ARTICLE

A Lung Mass

J Smaali*, R Lemouden, M Chiguer, N ElOmri, A ElKadiri, Y Sekkach and J Fatihi



Internal Medicine Service B, Mohamed V Military Training Hospital, Rabat, Morocco

*Corresponding author: Jihane Smaali, Internal Medicine Service B, Mohamed V Military Training Hospital, Rabat, Morocco

Case Presentation

A 29-year-old man with a history of bulbar ulcer treated 2 years previously and chronic smoking at 13 packs/year was hospitalized for respiratory symptoms made up of right basithoracic pain with cough and clear sputum without fever or progressive night sweats for six months in a context of deterioration in general condition. The clinical examination was unremarkable. On the biological assessment, there was a slight inflammatory syndrome with sedimentation rate at 29 mm in the first hour and CRP at 9.8 mg/l, the blood count was normal, as were the liver and kidney assessments and the viral serologies (HBV, HCV and HIV) were negative. The search for mycobacterium tuberculosis in sputum and by gastric tube was negative on three

occasions and the Quantiferon was at 2.70 IU/ml (2xN). The chest X-ray showed opacity in the apical segment of the right upper lobe. Complementary CT scan revealed significant right apical mass with alveolar condensation, pleural connections and adjacent micronodules strongly suspecting a tumor or infectious localization (Figure 1 and Figure 2). A transparietal biopsy was then performed.

Diagnosis of Caseo-follicular pulmonary tuberculosis was made and Antibacillary treatment was introduced with good clinical and radiological evolution.

Discussion

Despite the positivity of the quantiferon, the atypical clinical and radiological presentation did not allow the

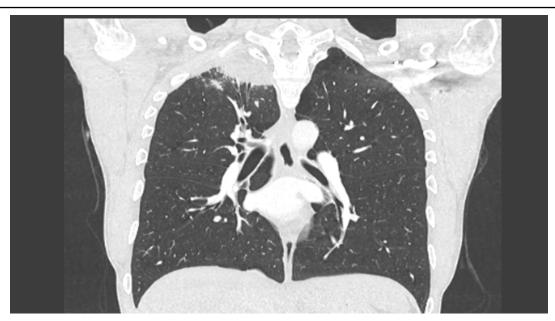


Figure 1: Coronal thoracic CT section showing right apical lung mass.



Citation: Smaali J, Lemouden R, Chiguer M, ElOmri N, ElKadiri A, et al. (2022) A Lung Mass. Clin Med Img Lib 8:206. doi.org/10.23937/2474-3682/1510206

Accepted: October 19, 2022; Published: October 21, 2022

Copyright: © 2022 Smaali J, et al. This is an open-access content distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

diagnosis of pulmonary tuberculosis to be retained. The use of CT-guided biopsy was then necessary and revealed a granulomatous and follicular inflammatory process with caseous necrosis, without lesion suspicious of malignancy.

Pseudotumoral pulmonary tuberculosis is a rare form of tuberculosis in the immunocompetent [1,2]. Its frequency would be 3 to 5% according to most series [1,3]. This presentation can simulate bronchopulmonary cancer, especially when bacilloscopy is negative. It thus poses diagnostic difficulties since in the majority of the cases described, the clinical symptoms are non-specific [3], the most often negative bacteriological samples



Figure 2: Thoracic sagittal CT section showing the apical lung mass.

related to the solid and poorly oxygenated character of the pseudotumoral tuberculosis lesions [3], the CT appearance rather suggestive of a tumor lesion (convex edges, spiculated limits, pleural attachments) [3] and the biopsy samples that are often difficult to perform in forms without endobronchial lesion. These difficulties are at the origin of a delay in diagnosis which would be 30 to 70 days depending on the series [1,3]. The treatment remains classic and is based on antibacillary drugs at the usual dosages and durations [4]. The evolution is favorable in the majority of cases and few complications are reported [3,4].

References

- 1. Chaouch N, Saad S, Zarrouk M, Racil H, Rouhou SC, et al. (2011) Diagnostic difficulty in bronchopulmonary tuberculous pseudotumor. Rev Mal Respir 28: 9-13.
- Astoul P, Seitz B, Fico JL, Boutin C (1990) Tuberculose bronchique simulant un cancer. Rev Mal Respir 7: 163-165.
- Cherian MJ, Dahniya MH, Al-Marzouk NF, Abel A, Bader S, et al. (1998) Pulmonary tuberculosis presenting as mass lesions and simulating neoplasms in adults. Australas Radiol 42: 303-308.
- Agarwal R, Srinivas R, Ashutosh N, Aggarwal AA (2008) Parenchymal pseudotumoral tuberculosis: case series and systematic review of literature. Respir Med 102: 382-389.



Figure 3: Thoracic cross-sectional CT scan showing the right apical lung mass with alveolar condensation, pleural connections and adjacent micronodules.