Simultaneous occurrence of pulmonary tuberculosis and carcinomatous lymphangitis

Ocorrência simultânea de tuberculose pulmonar e linfangite carcinomatosa

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ABSTRACT
Tuberculosis is an important cause of mortality due to its high prevalence, considering that one third of the world’s population is infected with the tuberculosis bacillus. We report the first case of carcinomatous lymphangitis associated with active pulmonary tuberculosis. Carcinomatous lymphangitis is a rare event that may be confounded with tuberculosis because of its radiographic and clinical characteristics.


RESUMO
Tuberculose é uma causa importante de mortalidade devido a sua alta prevalência, uma vez que um terço da população mundial encontra-se infectada com o bacilo da tuberculose. Nós relatamos o primeiro caso de linfangite carcinomatosa associada à tuberculose pulmonar ativa. A linfangite carcinomatosa é um evento raro que pode ser confundida com tuberculose pelos aspectos clínicos e radiológicos.


CASE REPORT
A 45-year-old female patient was admitted in July 2005 with dyspnea, cough with bloody sputum, fever and night sweating, anorexia and weight loss of five kilograms in two months. Three months before admission she had undergone hysterectomy for a reason that was unknown at that moment. No other significant sign or symptom was observed. An interstitial and alveolar infiltrate was identified in both lungs on chest x-ray. Three sputum samples were negative for acid-fast bacilli. A tuberculin skin test yielded anergy. A chest CT scan demonstrated significant bilateral interstitial infiltrate, without other findings. The patient underwent bronchoscopy with biopsy, from which the anatomopathological findings were compatible with CL (Figure 1). The immunohistochemical pattern revealed an ovarian origin. The anatomopathological examination from the...
previous hysterectomy was retrieved and the result confirmed ovarian cancer. Chemotherapy with paclitaxel and carboplatin in association with dexamethasone was started. Three weeks after starting the chemotherapy, a culture from bronchoalveolar lavage in Lowestein-Jensen yielded *Mycobacterium tuberculosis*. Rifampin, isoniazid and pyrazinamide were started and the patient successfully completed the tuberculosis treatment six months later. She now presents complete clinical remission from ovarian cancer and CL.

DISCUSSION

To our knowledge, no cases of simultaneous CL and pulmonary tuberculosis have been described. The typical radiographic appearance of CL on CT scans is septal thickening. Nevertheless, the radiographic findings may resemble tuberculosis and there are several descriptions of patients undergoing treatment for suspected tuberculosis among whom there was disease progression, with the discovery of CL only on biopsy.

Tuberculosis continues to be a challenge in developed and underdeveloped countries. Radiographic and clinical findings of pulmonary tuberculosis present low specificity and a huge range of differential diagnoses, particularly with miliary tuberculosis, with findings of interstitial lung infiltrate that frequently requires bronchoalveolar lavage and biopsy in order to ascertain the etiological diagnosis.

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REFERENCES