Mild angiogram with selective embolization of the aneurysm was performed, achieving complete occlusion of the lesion (Fig. 1D) and immediate resolution of hemoptysis. No dilation of the bronchial arteries or extravasation of contrast medium from these vessels was observed.

Rasmussen’s aneurysm is an uncommon severe complication of pulmonary tuberculosis, with a prevalence of less than 5%. If it ruptures, mortality is over 50%. Although this complication was first described in 1868 by Fritz Valdemar Rasmussen in patients with tuberculous cavities and hemoptysis, the term “Rasmussen’s aneurysm” nowadays has a wider meaning, and includes aneurysm or pseudoaneurysm of the pulmonary arteries in the context of diseases involving destruction of the pulmonary parenchyma. These diseases cause progressive weakening of the arterial wall, as the adventitia and media layers are replaced by granulation tissue and fibrin, resulting in thinning of the vessel wall and the risk of pseudoaneurysm formation. CT-angiography is the diagnostic test of first choice in patients with hemoptysis: it provides anatomical information on the Rasmussen’s aneurysm and the underlying causes and guides the interventional radiologist precisely toward to the aneurysm, while simultaneously studying the bronchial arteries. During a chest CT-angiography in patients with hemoptysis, radiologists must observe not only the systemic circulation, but also the pulmonary arteries, particularly in patients with a history of destructive lung diseases. Failure to do so may prevent detection of a Rasmussen’s aneurysm, and if the patient finally undergoes an angiogram for treatment of their hemoptysis, the result may be unnecessary embolization of the systemic arteries.

Our case is of interest because, while our patient did not have a history of tuberculosis, the cause of his life-threatening hemoptysis was a Rasmussen’s aneurysm associated with his previous history of lung infections.

References


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This instrument, which is very familiar in eye, nose and throat surgery and in interventions of the base of the skull, has rarely been used in lower airway procedures. It consists basically of a revolving tip connected to a control panel. Its advantages include very rapid tissue dissection; it aspirates as it cuts, keeping the surgical field clear most of the time, so the anesthetist can provide the fraction of inspiratory oxygen (FiO2) required by the patient. Several different attachments are marketed allow larger or smaller resections depending on the size of the lesion, the required precision, and Skimmer® Blade cutting mode. The device also includes a serrated, 2.9 mm or 4 mm diameter TriCut® Blade rotating tip. Rotation speed is controlled manually or by a pedal (1500–5000 rpm). Drawbacks include its length, which at 37 cm...
Lung Injury Caused by All-Trans-Retinoic Acid in the Treatment of Acute Promyelocytic Leukemia

Afectación pulmonar por ácido transretinoico en el tratamiento de la leucemia promielocítica aguda

To the Editor:

Treatment with all-trans-retinoic acid (ATRA) induces myeloid differentiation among leukemia cells in acute promyelocytic leukemia (APL). The differentiation syndrome (DS) or ATRA syndrome occurs in up to 25% of APL patients treated with ATRA, due to an inflammatory reaction accompanied by an increase in capillary permeability. It is characterized by breathing difficulties, fever, pulmonary infiltrates, pleuro-pericardial effusion, kidney failure, and hypotension.

We report the case of a 45-year-old man with a diagnosis of APL, under treatment with ATRA (45 mg/m²) and idarubicin (12 mg/m²), who developed fever and dyspnea hours after suspending prophylactic treatment with intravenous dexamethasone. Pulmonary auscultation revealed bilateral crackles. Chest radiograph showed a suspicious increase in density in the right lower lobe. The patient’s situation was complicated by oxacillin-sensitive Staphylococcus aureus bacteremia, due to an infected catheter, which was treated with piperacillin-tazobactam and vancomycin.

As no clinical improvement was observed, a chest computed axial tomography was requested, showing bilateral nodules and ground glass densities, mainly in the lower lobes. An area of parenchymal consolidation and associated pleural effusion was identified in the left lower lobe (LLL) (Fig. 1A and B). Bronchovascular lavage was performed and microbiological cultures were negative. Treatment was started with intravenous dexamethasone (10 mg/12 h), showing favorable progress and complete resolution of the bilateral pulmonary infiltrate in less than 48 h. A diagnosis was given of DS due to ATRA treatment.

The introduction of ATRA in the treatment of APL has been one of the most significant advances in the management of

![Fig. 1. Chest computed tomography showed: (A) Bilateral nodular lesions and ground glass densities, mainly affecting the lower lobes. (B) Area of parenchymal consolidation and associated pleural effusion in left lower lobe.](image)

References


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