

## MEDICINA CLINICA PRÁCTICA



www.elsevier.es/medicinaclinicapractica

Images in medicine

## Alveolar haemorrhage - A case of granulomatosis with polyangiitis



Hemorragia alveolar: un caso de granulomatosis con poliangeítis

Ana Rita Parente\*, Jerina Nogueira, Nídia Calado, Isabel Lavadinho

Serviço de Medicina Interna da Unidade Local de Saúde do Norte Alentejano - Hospital Dr. José Maria Grande, Portalegre, Portugal

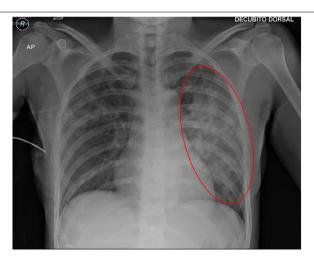


Fig. 1.

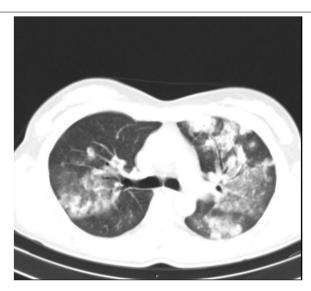


Fig. 2.

A 43-year-old woman with a past medical history of renal microlithiasis was admitted to the Emergency Department with sudden onset of haemoptysis, dyspnoea and the need for oxygen therapy to maintain oxygen saturation above 90%.

The chest X-ray showed diffuse infiltrates in the left haemithorax (Fig. 1) and a chest CT documented densification of the bilateral pulmonary interstitium, especially on the left hand side (Fig. 2), compatible with Alveolar Haemorrhage. She was admitted to the Intermediate Care Unit for haemodynamic surveillance and required red blood cell transfusion. Koch's bacillus screening was negative.

A bronchofibroscopy revealed haematic traces throughout the left bronchial tree. A urinalysis showed microscopic haematuria and proteinuria. Vasculitis was suspected, therefore specific laboratory studies were requested and the patient was started on a methylprednisolone cycle (1000 mg) during 5 days, followed by oral corticosteroid therapy.

The laboratory studies results came back positive for anti-proteinase 3 anti-neutrophil cytoplasmic antibodies, giving the diagnosis of granulomatosis with polyangiitis.

The patient was discharge on oral corticosteroid therapy and given a progressive tapering plan.

Granulomatosis with polyangiitis is a type of small vessel vasculitis, characterized by necrotizing granulomatous inflammation <sup>1,2</sup> and most often affects the respiratory tract and kidneys. Alveolar haemorrhage occurs up to 10% of cases.<sup>2</sup>

## References

- 1. Comarmond C, Cacoub P. Granulomatosis with polyangiitis (Wegener): clinical aspects and treatment. *Autoimmun Rev* 2014;13:1121–5, http://dx.doi.org/10.1016/j.autrev.2014.08.017. Epub 2014 Aug 20. PMID: 25149391.
- 2. Kaya H, Yilmaz S, Sezgi C, Abakay O, Taylan M, Sen H, et al. Two cases of extrapulmonary onset granulomatosis with polyangiitis which caused diffuse alveolar haemorrhage. Respir Med Case Rep 2014;13(September):32–6, http://dx.doi.org/10.1016/j.rmcr.2014.09.002. PMID: 26029556; PMCID: PMC4246354.

Corresponding author.

E-mail address: ritapp8@gmail.com (A.R. Parente).