

## **A LATE ONSET DIFFUSE ALVEOLAR HEMORRHAGE IN END STAGE RENAL DISEASE PATIENT**

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Microscopic Polyangitis is ANCA associated vasculitis mainly involving lung, and kidney. We present a case of ESRD patient, who developed p-ANCA positive vasculitis with interesting course of disease.

33 year hispanic male with past medical history of hypertension, End stage renal disease of unknown etiology on dialysis presented with recent history of intermittent cough and fever treated with oral antibiotics as outpatient present to emergency room with cough, fever and chest pain. On physical examination he has decreased breath sound over left lower lung, febrile and negative for any rash, joint pain, or sinusitis. His chest x ray shows left side pleural effusion. Patient was admitted and started treatment for hospital-acquired pneumonia. On floor he remains febrile and his shortness of breath became worst and developed hemoptysis and respiratory failure required intubation. His Urine analysis was showing large amount of RBC, and heavy proteinuria. He was transferred to intensive care unit and started on broad spectrum antibiotics, pulse dose of steroid and cyclophosphamide presuming pulmonary renal syndrome. His serology shows low complement, negative ANA, anti GBM, cryoglobulin, C-ANCA and positive for P-ANCA, anti smooth muscle antibody, and elevated ESR, CRP. Lung biopsy was done which showed capillaritis, confirming microscopic polyangitis. Patient improved on steroid, extubated and cyclophosphamide continued as outpatient treatment. In retrospect, family history was positive for early death of father secondary to unknown kidney disease, and brother had SLE.

ANCA associated vasculitis usually involve multi-organ, in our case positive p-ANCA and capillaritis on biopsy suggestive of Microscopic Polyangitis involving lung. However ESRD most likely related to Microscopic Polyangitis. This case is unique as it illustrates possibility of different period of onset of renal disease and pulmonary disease in microscopic polyangitis.