

First case report of simultaneous occurrence of anti-neutrophil cytoplasmic antibody (ANCA) associated vasculitis and invasive Klebsiella pneumoniae syndrome

Key words: ANCA vasculitis, Invasive Klebsiella pneumoniae syndrome, case report

Abstract

Introduction: Invasive Klebsiella pneumoniae syndrome, is a rare disease which is seen in South-East Asia. This originates in the liver and leads to haematogenous spread to brain, eye, and lungs, leading to multiple abscesses resulting in a life-threatening illness. Anti-neutrophil cytoplasmic antibody (ANCA) associated vasculitis is a rare, multisystem disease condition which affect small and medium sized blood vessels of the body. This is the first reported case of simultaneous occurrence of ANCA positive vasculitis and Invasive Klebsiella pneumoniae syndrome.

This 63-year-old lady with a history of adult-onset bronchial asthma, who was investigated for possible interstitial lung disease in the past and defaulted, having hypertension and diabetes, admitted with a 5 day history of worsening shortness of breath, associated with cough, yellow coloured sputum, wheezing, fever with chills and rigors, and a central ischaemic chest pain a day prior to admission. On examination, she was in respiratory distress with bilateral coarse crepitations and rhonchi. There were features suggestive of heart failure. She was found to have a blood culture positive for Klebsiella pneumoniae and multiple cerebral and lung abscesses and possible liver abscess on imaging. This led to diagnosis of invasive Klebsiella pneumoniae syndrome. She was found to have features of multiple system involvement suggestive of vasculitis, such as mononeuritis multiplex, cerebral vasculitis features on MRA, lung nodules on imaging with adult-onset asthma, and maxillary sinusitis and positive p-ANCA. A diagnosis of ANCA positive vasculitis was made.

Conclusion: To date there are no case reports on simultaneous occurrence of ANCA positive vasculitis and invasive Klebsiella pneumoniae syndrome. This reports the first case report of simultaneous occurrence of ANCA positive vasculitis and invasive Klebsiella pneumoniae syndrome.