

Abstract

Leptospirosis is a spirochetal zoonosis caused by *Leptospira interrogans*. Eventhough most cases are mild to moderate; it can be complicated with multi organ failure. Typical presentation of Leptospirosis will be an undifferentiated fever with mild renal and hepatic impairment and in the severe context it can have hepatorenal failure, encephalopathy and even pulmonary haemorrhages. Pulmonary haemorrhages should be considered in the patients presenting with febrile illnesses associated with respiratory distress, especially when hemoptysis is present. We present a case of Leptospirosis presented with respiratory distress and acute kidney injury with a short history of constitutional symptoms who required mechanical ventilation due to respiratory failure and successfully recovered with repeated cycles of plasma exchange..