ABSTRACT

Thrombotic thrombocytopenic purpura is a primary thrombotic microangiopathy with a high mortality and devastating complications without early treatment. Bilateral serous retinal detachment is one it's rare ocular manifestations. A 28-year old previously healthy female presented with low grade fever, flu like symptoms and yellowish discolouration of eyes for 2-weeks. There was no preceding history of diarrhea. She was found to have severe anaemia, thrombocytopaenia and indirect hyperbilirubinaemia. Haematological assessment revealed evidence of microangiopathic haemolysis with no evidence of haematological malignancy. Septic screening was negative. Coagulation studies, renal functions, and urinalysis were normal. She had been normotensive initially. Pregnancy testing, autoimmune screening, viral hepatitis and retroviral screening were negative. She was treated with therapeutic plasma exchange (TPE) and high dose oral steroids with steady haematological improvement. After 6-cycles of TPE, patient had acute onset bilateral painless visual loss without any other neurological manifestations. Urgent MRI brain was normal. Ophthalmological assessment revealed bilateral serous retinal detachments confirmed by optical coherence tomography. At the same time there was a haematological worsening of TTP. Patient was treated with intravenous methylprednisolone pulses and intensifying TPE, which led to remission of TTP with full recovery of vision.