

Abstract

The Present case was an Immune reconstitution inflammatory syndrome (IRIS) affecting the central nervous system (CNS) in patient with HIV and tuberculosis in HIV patient initiated on antiretroviral therapy. This case identified as the patient was visited Life Care Clinic, at Aurangabad. The patient was newly initiated on antiretroviral therapy (ART), The IRIS was diagnosed based on National AIDS Control Organization guidelines. A typical Mycobacterial CNS-IRIS in AIDS patient was represented, the increase in CD4 count in a rapid way and biopsy showing on encephalitis our diagnosis of IRIS was confirmed. The patient was started on prednisolone and his hemiparesis

Keywords: Immune reconstitution inflammatory syndrome (IRIS); Central nervous system (CNS) CD4/TB/HIV/ART

Introduction

Patients with HIV/Tuberculosis (TB) co-infection who are on anti-TB treatment and highly active antiretroviral therapy (HAART) will develop an exacerbation of symptoms, signs or radiological manifestations of TB that are not due to recurrence or relapse of their tuberculosis [1-4]. The IRIS is defined as the occurrence or manifestation of new opportunistic infections or existing opportunistic infections within six weeks to six months after initiating the antiretroviral therapy with increase in the CD4 cells. The IRIS is a complex and a not yet completely well-understood phenomenon that is seen most commonly in HIV infection, the aetiology of these immune reconstitution inflammatory syndrome (IRIS) reactions is unknown, but it is presumed that they occur, as a consequence of HAART-related reconstitution of immunity and leading to an abnormal immune response to antigens released by dead or dying bacilli. Mycobacteria account for approximately 40% of all cases of infective IRIS in patients

biopsy showing on encephalitis our diagnosis of IRIS was confirmed.

The patient was started on prednisolone and his hemiparesis improved mass effect decreased and patient went home walking then after six months and the Patient weighed about 55kgs and his CD4 count was 359 cells/mm

³ and is asymptomatic this confirms Immune reconstitution inflammatory syndrome (IRIS) affecting the central nervous system (CNS) in patient with HIV and tuberculosis.

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