



INFECTIOUS DISEASES (BACTERIAL, FUNGAL, VIRAL, PARASITIC, INFESTATIONS)

INDOLEAMINE 2, 3-DIOXYGENASE (IDO) LEVELS IN LEPROSY PATIENTS WITH POSITIVE SEROLOGY

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Background: Seropositive leprosy individuals have a tendency to experience a change into leprosy lepromatous type. Previous studies have demonstrated that the activity of indoleamine 2, 3-dioxygenase (IDO) in patients with lepromatous type leprosy is higher than those with tuberculoid type leprosy.

Objectives : To know the level of IDO in seropositive subjects.

Materials and methods: Our observational cross-sectional study was conducted in Brebes, Central Java, Indonesia. Leprosy seropositivity was determined by measuring the level of anti-phenolic glycolipid-1 IgM and IDO level using ELISA.

Result: Result of The IDO level in seropositive leprosy subjects was higher compared to those who were seronegative ($p = 0.048$).

Conclusion: In the early stage of leprosy infection, a high level of IDO level can already be found; therefore, it can affect immune response and ultimately affecting further course of the disease.

Keywords: 3-dioxygenase, anti-phenolic glycolipid-1 IgM, indoleamine 2, seropositive leprosy

