Challenges in Parasitology
in the Era of Globalization:
From Basic to the Diagnostic
& Clinical Application
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Toxoplasma Antibody and CD4 Levels in HIV Patients at the Naval Hospital Dr Ramelan Surabaya

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Faculty of Medicine - Hang Tuah University

The increasing number of HIV patients, followed by an increased risk of opportunistic infections, such as Toxoplasmosis. HIV susceptibility to parasitic infection is associated with a decrease in CD4 T cells. This is the purpose of this study is to determine the relationship between Toxoplasma antibody with CD4 levels of HIV patients in the Naval Hospital (RSAL) Dr. Ramelan.

This research is analytic observational with cross-sectional study design. The sample was 25 new HIV patients who have not received antiretroviral therapy (ART) which collected from August to November 2014 and will be examined for Toxoplasma antibody (IgG and IgM) and CD4 cell counts.

The results showed that 48% of samples had positive IgG, 4% of samples had positive IgM. Based on the examination of the antibody titers are 44% of the sample experienced a chronic infection and 4% of the sample experienced an acute infection. Statistical analysis showed that there was no significant correlation between IgG titers with CD4 ($p = 0.312 > \alpha, \alpha = 0.05$). And statistical analysis on IgM titers ($p = 0.672$) was also no significant correlation with CD4 ($p > \alpha$).

Based on the results of this study concluded that there was no correlation between Toxoplasma antibody titers in patients with CD4 levels of HIV in RSAL Dr. Ramelan.

Keywords: IgG, IgM, Toxoplasmosis and HIV.
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Effect Of Hyperbaric Oxygen Against Parasitemia Levels In Mice Infected By Plasmodium berghei

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Malaria is an "Emerging Disease" means a disease that appears again as a health problem both nationally and internationally. The occurrence of resistance to malaria treatment requires the development of supportive therapy can minimize the symptoms so as to accelerate healing in the sufferer. HBO (Hyperbaric Oxygen) can be one of the supportive therapy against malaria. Effect of HBO therapy against malaria has not been studied in Indonesia, so that will be examined in this study on the effects of HBO on levels of parasitemia in mice infected by Plasmodium berghei.

This study was a laboratory experimental research with pre and post test control group design. The samples used were 48 white rats (Rattus norvegicus) that have been infected by Plasmodium berghei and divided into 6 groups. HBO therapy is carried out for 10 days and the observation of the levels of parasitemia in mice before and after treatment.

Descriptive analysis and statistical analysis (Kruskal Wallis and Mann Whitney U) showed a significant difference \( p < \alpha \) on average levels of parasitemia in the group receiving therapy with HBO piperaquin dehidroartemisin 3 ATA compared to other groups.

Hyperbaric oxygen has the effect of reducing the levels of parasitemia in mice infected by P. berghei.

Keywords: HBO, Malaria, Parasitemia Levels