Challenges in Parasitology in the Era of Globalization: From Basic to the Diagnostic & Clinical Application
Abstract Book

Challenges in Parasitology in The Era of Globalization:
From Basic to the Diagnostic & Clinical Application

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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