SURVIVAL ANALYSIS ON THE EFFECT OF NUTRITIONAL STATUS AMONG PEOPLE LIVING WITH HIV/AIDS IN JAYAPURA, PAPUA

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ABSTRACT

Background: Malnutrition is a common occurrence in HIV/AIDS cases and is a major cause of morbidity and mortality. Well-nourished patients are best able to withstand medical treatment, which is particularly important in HIV/AIDS. It has been suggested that weight loss reduces the ability of patients to be treated effectively with antiretroviral therapy. The purpose of this study was to examine the effect of nutritional status on survival among people living with HIV/AIDS in Jayapura, Papua.

Subjects and Method: A cohort retrospective study was carried out at VCT room Dok II General Hospital, Jayapura, Papua, from May to June 2018. A sample of 97 people living with HIV/AIDS (PLWH) with malaria co-infection recurrence and 86 PLWH was selected by fixed disease sampling. The dependent variable was time to death. The independent variable was nutritional status. Confounding factors included drug taking adherence, economics status, clean and healthy behaviour, use of bed nest, and residual spray. The data were obtained from medical record and questionnaire. The data were analyzed by Cox regression model.

Results: Risk of death in PLWH with malaria co-infection decreased with good nutritional status (HR= 0.25; 95% CI= 0.54 to 0.12; $p < 0.001$) after adjusting for the effect of adherence to ARV (HR= 0.63; 95% CI= 0.93 to 0.43; $p = 0.018$).

Conclusion: Risk of death in PLWH with malaria co-infection decreases with good nutritional status after adjusting for the effect of adherence to ARV.

Keywords: survival, co-infection, nutritional status, HIV/AIDS, people living with HIV/AIDS

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