



ASSESSMENT OF SOME HAEMATOLOGICAL AND IMMUNOLOGICAL
PARAMETERS IN HIV-INFECTED PATIENTS ON
HAART AND HAART naïve IN EKITI STATE

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ABSTRACT

The aim of this study is to evaluate the haematological and immunological outcomes in HIV infected patients on HAART and HAART naïve in Ekiti State. The Human Immunodeficiency Virus (HIV) infection causes the Acquired Immunodeficiency Syndrome (AIDS), which is a systemic disorder characterized by severe impairment and progressive damage of both cellular and humoral immune responses. Haematological abnormalities are the strong independent predictors of morbidity and mortality in HIV-infected individuals. About 400 HIV infected participants were recruited for this study, 200 were HIV infected patients on antiretroviral therapy while another 200 HIV infected patients were not on antiretroviral therapy. 4ml of blood samples were collected into K₂ EDTA bottles for the analysis of haematological and immunological parameters. Ethical clearance and Permission for the conduct of the study was obtained from the Ethical Committee, Federal Teaching Hospital, Ido-Ekiti. Mean \pm SD of CD4, WBC, PCV, PLT, and LYM for patients on antiretroviral therapy (ART) were significantly ($p < 0.05$) higher compared to patients that were not on antiretroviral therapy. This study provides information about the effectiveness of antiretroviral drugs therapy among HIV positive patients in this part of world despite the reported side effects.

Keywords: Antiretroviral therapy, HIV, Haematological and Immunological

Abbreviations: PCV= Packed cell volume, PLT= Platelets, WBC= White cell count, LYM= Lymphocytes, NEU= Neutrophils, MXD= Mixed, SD= Standard deviation, HAART= Highly active antiretroviral therapy