



## Correlation of Drug Eruption with the Number of CD4 Inthe HIV-Infected Patient at Haji Adam Malik General Hospital

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**Abstract:Background:** Incidence of HIV is increasing in some Asian countries, and new infections are still emerging. Antiretroviral drugs (ARVs) use a combination of three or more drugs called High Activity Antiretroviral Therapy (HAART) to improve the quality and life expectancy of people with HIV. Factors associated with an increased risk of drug eruption were CD4 cell counts  $\leq 200$  cells / mm<sup>3</sup>, CD8  $> 460$  cells / mm<sup>3</sup>, gender and previous drug eruption history.

**Purpose :** To investigate the association of drug eruptions with CD4 cell counts in HIV patients.

**Methods:** A cross sectional study with observational analytic design. Using secondary data from medical record of RSUP H. Adam Malik at Poliklinik of Pusyansus and Poliklinik SMF of dermatology and venereology.

**Results:** Total subjects of the study were 474 patients, of whom 121 were erupted. Subjects most experienced drug eruption is men 69.14% and women 30.57%, the most age group is 25 - 49 years as many as 85.94%. Clinical features of most drug eruptions experienced were morbiliform eruption 57.85%. The drugs that cause the most drug eruption are ARVs with Nevirapine content 61.98%, and Efavirenzis 38.02%. The results of the analysis test found a significant relationship between drug eruption incidence with CD4 cell count  $\leq 200$  cells / mm<sup>3</sup> with p value 0.012 ( $p < 0.05$ ).

**Conclusion:** CD4 cell count is significantly associated with drug eruption in HIV patients. More men who experience drug eruption in the age group of 25-49 transcendental factor that predominate HIV patients are heterosexual or free sex. ARV drugs containing Nevirapine cause the most drug eruption compared to Efavirenz.

**Keywords :** HIV, drug eruption, antiretroviral, CD4.

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