

**POLITEKNIK KESEHATAN TANJUNGPURING**  
**JURUSAN TEKNOLOGI LABORATORIUM MEDIS**  
**PROGRAM STUDI TEKNOLOGI LABORATORIUM MEDIS**  
**PROGRAM SARJANA TERAPAN**  
Skripsi, Juni 2024

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**Hubungan Antara Lamanya Pengobatan ARV Terhadap Kadar *Interleukin-6* (IL-6) Pada Pasien *Human Immunodeficiency Virus* (HIV) Di Puskesmas Sukabumi Kota Bandar Lampung**

Xv + 44 Halaman, 8 tabel, 4 gambar, dan 15 lampiran

**ABSTRAK**

*Human Immunodeficiency Virus* (HIV) adalah virus yang menginfeksi sel-sel sistem kekebalan tubuh dan merusak fungsi dari sel-sel tersebut. Pada pasien HIV yang belum mendapat terapi dijumpai proses inflamasi yang terus menerus ditandai oleh meningkatnya kadar sitokin pro inflamasi seperti IL-1 $\beta$ , IL-6 dan *TNF $\alpha$* . Dengan terapi ARV, sebagian besar penanda inflamasi tersebut akan menurun. Tujuan penelitian ini yaitu mengetahui hubungan lamanya pengobatan ARV terhadap kadar *Interleukin-6* (IL-6) pada pasien *Human Immunodeficiency Virus* (HIV). Penelitian ini menggunakan jenis penelitian observasional analitik dengan rancangan penelitian *cross sectional*. Analisa data yang digunakan adalah analisa univariat dan bivariat kemudian dilakukan uji korelasi *Spearman* menggunakan SPSS. Penelitian ini dilakukan di Puskesmas Sukabumi Kota Bandar Lampung pada bulan Maret sampai Mei 2024. Sampel pada penelitian ini adalah 26 pasien HIV yang menjalani pengobatan ARV. Hasil penelitian didapatkan pasien terbanyak berjenis kelamin laki-laki 21 pasien (80,8%), dengan jumlah terbanyak pada kelompok usia 25-49 tahun yaitu 22 pasien (84,6%). Jumlah pasien yang terbanyak pada lama pengobatan 4-6 tahun yaitu 17 pasien (65,4%). Rata-rata kadar IL-6 adalah 81,6 ng/L dengan kadar tertinggi 298,5 ng/L. Uji korelasi *Spearman* menunjukkan tidak ada hubungan antara lamanya pengobatan ARV terhadap kadar IL-6 dengan *p-value* 0,128.

Kata Kunci : *Human immunodeficiency virus*, Lamanya pengobatan ARV,  
Kadar *Interleukin-6*

Daftar Bacaan : 36 (2002-2023)

**TANJUNGPUR MINISTRY OF HEALTH POLYTECHNIC  
DEPARTMENT OF MEDICAL LABORATORY TECHNOLOGY  
MEDICAL LABORATORY TECHNOLOGY STUDY PROGRAM  
APPLIED GRADUATE PROGRAM  
Undergraduate Thesis, June 2024**

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***The Relationship Between the Duration of ARV Treatment and Interleukin-6 (IL-6) Levels in Human Immunodeficiency Virus (HIV) Patients at the Sukabumi Community Health Center, Bandar Lampung City***

*Xvi + 44 pages, 8 tables, 4 picture, and 15 attachments*

**ABSTRACT**

*Human Immunodeficiency Virus (HIV) is a virus that infects immune system cells and damages the function of these cells. In HIV patients who have not received therapy, there is a continuous inflammatory process characterized by increased levels of pro-inflammatory cytokines such as IL-1 $\beta$ , IL-6 and TNF $\alpha$ . With ARV therapy, most of these inflammatory markers will decrease. The aim of this research is to determine the relationship between the duration of ARV treatment and Interleukin-6 (IL-6) levels in Human Immunodeficiency Virus (HIV) patients. This research uses an analytical observational research type with a cross sectional research design. The data analysis used was univariate and bivariate analysis, then the Spearman correlation test was carried out using SPSS. This research was conducted at the Sukabumi Community Health Center, Bandar Lampung City from March to May 2024. The sample in this study was 26 HIV patients undergoing ARV treatment. The research results showed that the majority of patients were male, 21 patients (80.8%), with the largest number in the 25-49 year age group, namely 22 patients (84.6%). The highest number of patients with a treatment duration of 4-6 years was 17 patients (65.4%). The average IL-6 level was 81.6 ng/L with the highest level being 298.5 ng/L. The Spearman correlation test showed there was no relationship between the length of ARV treatment and IL-6 levels with a p-value of 0.128.*

**Keywords** : *Human immunodeficiency virus, duration of ARV treatment, Interleukin-6 levels*

**Reading List** : *36 (2002-2023)*