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Hubungan Derajat Positivitas Basil Tahan Asam Terhadap Kadar *Interleukin-6* Pada Pasien Tuberkulosis Paru Sebelum Pengobatan Di Beberapa Puskesmas Kota Bandar Lampung

Xvi + 49 Halaman, 7 tabel, 11 gambar, dan 17 lampiran

ABSTRAK

Tuberkulosis adalah penyakit menular yang disebabkan bakteri *Mycobacterium tuberculosis*. Infeksi bakteri tersebut mengakibatkan terbentuknya respon imun berupa pelepasan berbagai sitokin pro inflamasi salah satunya *Interleukin-6*. Tujuan penelitian ini yaitu mengetahui hubungan derajat positivitas BTA terhadap kadar IL-6 pasien TB paru sebelum pengobatan. Jenis penelitian ini adalah analitik dengan rancangan penelitian *cross sectional*. Analisa data bivariat yang digunakan adalah uji korelasi *Spearman*. Penelitian dilakukan di Puskesmas Rawat Inap Panjang, Kampung Sawah dan Way Halim Kota Bandar Lampung pada bulan Januari-Mei 2024. Sampel pada penelitian ini adalah 30 pasien baru TB paru BTA positif. Hasil penelitian didapatkan pasien terbanyak berjenis kelamin laki-laki 24 pasien (80%), serta jumlah terbanyak pada kelompok usia 45-54 tahun yaitu 7 pasien (23,3%), derajat positivitas BTA terbanyak adalah 3+ yaitu 19 pasien (63.3%). Rata-rata kadar IL-6 pada pasien baru TB paru adalah 103,2 ng/L dengan kadar tertinggi adalah 394,9 ng/L dan terendah 41,4 ng/L. Uji korelasi *Spearman* menunjukkan tidak ada hubungan derajat positivitas BTA terhadap kadar IL-6 dengan *p-value* 0,334. Saran: Apabila dilakukan penelitian sejenis diperlukan penambahan besar sampel, memperhatikan faktor yang mempengaruhi kadar IL-6, serta menentukan nilai *cut off* IL-6 pada pasien TB sebagai pembeda dengan individu sehat.

Kata Kunci : Tuberkulosis paru, *Mycobacterium tuberculosis*, BTA positif,
Kadar *Interleukin-6*

Daftar Bacaan : 44 (2010-2023)

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Correlation of the Positivity Degree Acid-Fast Bacilli to Interleukin-6 Levels in Pulmonary Tuberculosis Patients Before Treatment at Several Community Health Centers in Bandar Lampung City

Xvi + 49 pages, 7 tables, 11 picture, and 17 attachments

ABSTRACT

*Tuberculosis is an infectious disease caused by the bacteria *Mycobacterium tuberculosis*. This bacterial infection results in the formation of an immune response in the form of the release of various pro-inflammatory cytokines, one of which is Interleukin-6. The aim of this study was to determine the relationship between the degree of BTA positivity and IL-6 levels in pulmonary TB patients before treatment. This type of research is analytical with a cross sectional research design. The bivariate data analysis used was the Spearman correlation test. The research was conducted at the Long Inpatient Health Center, Kampung Sawah and Way Halim, Bandar Lampung City in January-May 2024. The sample in this study was 30 new smear positive pulmonary TB patients. The research results showed that the largest number of patients were male, 24 patients (80%), and the highest number in the 45-54 year age group, namely 7 patients (23.3%), the highest degree of BTA positivity was 3+, namely 19 patients (63.3%). The average IL-6 level in new pulmonary TB patients was 103.2 ng/L with the highest level being 394.9 ng/L and the lowest 41.4 ng/L. The Spearman correlation test showed that there was no relationship between the degree of BTA positivity and IL-6 levels with a p-value of 0.334. Suggestion: If similar research is carried out, it is necessary to increase the sample size, pay attention to factors that influence IL-6 levels, and determine the IL-6 cutoff value in TB patients as a differentiator from healthy individuals.*

Keywords : *Pulmonary tuberculosis, *Mycobacterium tuberculosis*, AFB positive, Interleukin-6 levels*

Reading List : *44 (2010-2023)*