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Hubungan Nilai *Cycle Threshold* (Ct) TCM Terhadap Kadar CRP dan Nilai LED Pada Pasien Tuberkulosis di Kabupaten Pesisir Barat

xv + 35 halaman, 7 tabel, 3 gambar, 12 lampiran

ABSTRAK

Tuberkulosis (TB) merupakan penyakit infeksi menular yang disebabkan oleh bakteri *Mycobacterium Tuberculosis*. Penyakit TB ditegakkan dengan melakukan pemeriksaan tes cepat molekuler (TCM). Pemeriksaan lain pada pasien TB yang bertujuan untuk melihat tingkat inflamasi dapat dilakukan dengan melakukan pemeriksaan *C-reactive Protein* (CRP) dan pemeriksaan laju endap darah (LED). Tujuan penelitian ini mengetahui hubungan nilai *cycle threshold* (Ct) TCM terhadap kadar CRP dan nilai LED. Jenis penelitian analitik dengan desain penelitian *cross sectional*. Penelitian dilakukan di beberapa Puskesmas dan Rumah Sakit Kabupaten Pesisir Barat pada bulan Maret sampai Juni tahun 2024. Terdapat 30 pasien TB yang memenuhi kriteria sampel penelitian dengan 19 laki-laki (63%) dan 11 perempuan (37%). Kelompok usia terbanyak yaitu 46-65 tahun. Kelompok nilai Ct pada pasien TB terbanyak yaitu *medium* berjumlah 13 pasien (43%). Nilai rata-rata pemeriksaan kadar CRP pada pasien TB yaitu 37 mg/L dan nilai LED yaitu 59 mm/jam. Hasil analisa data menggunakan uji korelasi *Spearman* antara nilai Ct terhadap kadar CRP (*p-value* 0,001) dan nilai Ct terhadap LED (*p-value* 0,001), maka ada hubungan antara nilai Ct terhadap kadar CRP dan nilai LED pada pasien TB di Kabupaten Pesisir Barat.

Kata Kunci : Tuberkulosis, Ct, CRP, LED
Daftar Bacaan : 30 (2010 – 2023)

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The Relationship Of Tcm Cycle Threshold (Ct) Values To Crp Levels And Led Value In Tuberculosis Patients In Pesisir Barat District

xvi + 35 pages, 7 table, 3 picture, and 12 attachments

ABSTRACT

Tuberculosis (TB) is an infectious disease caused by the bacterium Mycobacterium Tuberculosis. TB disease is confirmed by performing a molecular rapid test (TCM) examination. Other examinations in TB patients that aim to see the degree of inflammation can be done by performing a C-reactive Protein (CRP) examination and a blood deposition rate (LED) examination. The purpose of this study was to determine the relationship between cycle threshold (Ct) value of TCM with CRP level and LED value. Analytical research type with cross sectional research design. The study was conducted in several health centers and hospitals of West Coast Regency in March to June 2024. There were 30 TB patients who met the study sample criteria with 19 males (63%) and 11 females (37%). The largest age group is 46-65 years. The group of Ct values in TB patients was the largest medium of 13 patients (43%). The mean value of CRP level examination in TB patients is 37 mg/L and the LED value is 59 mm/h. The results of data analysis using Spearman's correlation test between Ct value to CRP level (p-value 0.001) and Ct value to LED (p-value 0.001), there is a relationship between Ct value and CRP level and LED value in TB patients in West Pesisir Regency.

Keyword : Tuberculosis, Ct, CRP, LED

Reading List : 30 (2010 – 2023)