

**POLITEKNIK KESEHATAN TANJUNGPURUNING  
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**Hubungan Densitas Parasit dan Jumlah Trombosit Pada Penderita Malaria di Puskesmas Sukamaju Telukbetung Timur Bandar Lampung Tahun 2021**

**xv + 41 halaman, 11 gambar, 5 tabel, 12 lampiran**

**ABSTRAK**

Malaria masih menjadi masalah kesehatan di Indonesia. Di Indonesia masih menilai kadar hemoglobin sebagai indikator malaria berat, padahal infeksi *Plasmodium* juga mempengaruhi kadar trombosit dalam darah tepi, dan berhubungan dengan patogenesis malaria berat. Tujuan penelitian mengetahui densitas parasit malaria berdasarkan distribusi usia dan jenis kelamin, jumlah trombosit berdasarkan distribusi usia dan jenis kelamin serta hubungan densitas parasit dan jumlah trombosit pada penderita malaria di Puskesmas Rawat Inap Sukamaju tahun 2021. Penelitian ini bersifat deskriptif analisis. Sampel berjumlah 60 sampel. Pengambilan data dengan cara pengamatan dan pencatatan dari register laboratorium Puskesmas Rawat Inap Sukamaju. Analisis data univariat berupa karakteristik densitas parasit dan jumlah trombosit pada kelompok usia dan jenis kelamin. Analisis data bivariat berupa uji korelasi pearson antara densitas parasit dan jumlah trombosit. Hasil penelitian menunjukkan penderita malaria usia 0 – 14 tahun memiliki densitas parasit  $\geq 5.000$  parasit/ $\mu\text{L}$  darah sebesar 57,1 % dan 42,9% memiliki densitas parasit  $< 5.000$  parasit/ $\mu\text{L}$  darah. Sedangkan pada kelompok usia  $\geq 15$  tahun, 71,7 % memiliki densitas parasit  $< 5000$  parasit/ $\mu\text{L}$  darah dan 28,3% memiliki densitas parasit  $\geq 5.000$  parasit/ $\mu\text{L}$  darah. Trombositopenia terjadi pada 88,3 % penderita malaria. Terdapat hubungan antara densitas parasit dan jumlah trombosit pada penderita malaria dengan nilai  $r = -0,468$  dan  $-0,117$

**Kata Kunci : Malaria, Densitas Parasit, Jumlah Trombosit.**

**Daftar bacaan : 27 (2000-2021)**

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The Relationship between Parasite Density and Platelet Count in Malaria Patients at the Sukamaju Public Health Center, Telukbetung Timur, Bandar Lampung in 2021

xv + 41 pages, 11 images, 5 tables, 12 attachments

**ABSTRACT**

Malaria is still a health problem in Indonesia. In Indonesia, hemoglobin levels are still considered as an indicator of severe malaria, even though Plasmodium infection also affects platelet levels in peripheral blood, and is associated with the pathogenesis of severe malaria. The purpose of the study was to determine the density of malaria parasites based on age and sex distribution, platelet count based on age and sex distribution and the relationship between parasite density and platelet count in malaria patients at the Sukamaju Inpatient Public Health Center in 2021. This study was descriptive analysis. The sample amounted to 60 samples. Collecting data by observing and recording from the laboratory register of the Sukamaju Inpatient Health Center. Analysis of univariate data in the form of characteristics of parasite density and platelet count in age and sex groups. Bivariate data analysis in the form of Pearson correlation test between parasite density and platelet count. The results showed that malaria patients aged 0-14 years had a parasite density of 5,000 parasites/ $\mu$ L of blood of 57.1% and 42.9% had a parasite density of < 5,000 parasites/ $\mu$ L of blood. Meanwhile, in the age group 15 years, 71.7% had a parasite density of < 5000 parasites/ $\mu$ L of blood and 28.3% had a parasite density of 5,000 parasites/ $\mu$ L of blood. Thrombocytopenia occurred in 88.3% of malaria patients. There is a relationship between parasite density and platelet count in malaria patients with r values = -0.468 and -0.117

Keywords: Malaria, Parasite Density, Platelet Count.

Reading list : 27 (2000-2021)