

## Ekspresi CD 68 pada monosit dan makrofag Malaria plasenta di daerah Indonesia Timur = CD 68 expression on monocytes and macrophages of placenta Malaria in Eastern Indonesia region

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### Abstrak

#### <b>ABSTRAK</b><br>

Latar belakang : Beberapa penelitian terakhir menunjukkan infiltrasi masif dari monosit berhubungan dengan resiko berat badan lahir rendah pada janin. CD 68 dapat digunakan untuk mendeteksi sel inflamasi monosit/makrofag dalam melihat respon imunitas maternal dalam melawan infeksi malaria dalam kehamilan. Tujuan penelitian ini untuk mengetahui ekspresi CD 68 berdasarkan kriteria histopatologik malaria plasenta. Metode : Studi potong lintang jaringan biopsi plasenta dengan diagnosis histopatologik akut, kronik, lama dan non infeksi. Sampel penelitian dipulas dengan pewarnaan imunohistokimia CD 68, diidentifikasi, dan dianalisa hubungan ekspresi CD 68 berdasarkan diagnosis histopatologik, inflamasi monosit dan berat badan lahir. Hasil : Ekspresi CD 68 positif dengan nilai rata-rata 0,91 0,62. Ekspresi CD 68 lebih tinggi pada malaria plasenta akut dibandingkan dengan kelompok lainnya dengan nilai rata-rata 1,66 0,35 . Ekspresi CD 68 pada inflamasi monosit sedang lebih tinggi dibandingkan dengan inflamasi monosit minimal  $p = 0,033$  . Tidak didapatkan hubungan bermakna antara CD 68 dengan berat badan lahir bayi  $p = 0,574$  . Kesimpulan : Ekspresi CD 68 positif umumnya pada malaria plasenta akut dan inflamasi sedang, yang dapat mempengaruhi prognosis dan terapi.

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#### <b>ABSTRACT</b><br>

Background Several recent studies have shown that massive infiltration of monocytes is associated with low birth weight risk. CD 68 can be used to detect monocyte macrophage inflammatory cells in view of the response of maternal immunity against malarial infections in pregnancy. The aim of this study was to determine the expression of CD 68 based on histopathologic criteria of placental malaria. Objective Cross sectional study of placental biopsy tissue with histopathological diagnosis as acute, chronic, long and non infectious. The study sample was stained with CD 68 antibody and analyzed the association of expression CD 68 with histopathologic diagnosis, monocyte inflammation and birth weight. Results CD 68 expression was positive with mean score was 0.91 0.62. CD 68 expression was higher in acute placental malaria compared with other groups mean, 1.66 0.35 . CD 68 expression on monocyte inflammation was higher than on minimal monocyte inflammation  $p 0.033$  . There was significant correlation between histopathological diagnosis with monocyte inflammation  $p 0,025$  . There was no significant association between CD 68 and birth weight  $p 0,574$  . Conclusion Positive CD expression 68 is common in acute placental malaria and mild inflammation, which may affect prognosis and therapy. Keywords CD expression 68 placental malaria histopathologic diagnosis immune system