

Perbedaan kadar interleukin-6 dan protein C reaktif pada penderita infeksi dengue dewasa dengan dan tanpa kebocoran plasma = The Differences of interleukin-6 and C reactive protein level in adult dengue adult dengue infection patients with and without plasma leakage

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Abstrak

Hubungan antara peningkatan kadar interleukin-6 dan protein C reaktif dengan kebocoran plasma pada penderita infeksi dengue dewasa masih belum jelas. Penelitian ini dilakukan untuk mengetahui perbedaan kadar IL-6 dan protein C reaktif antara kelompok infeksi dengue dengan dan tanpa kebocoran plasma. Penelitian dilakukan secara potong lintang terhadap data sekunder dari penderita infeksi dengue dewasa yang dirawat di RSCM dan RSUP Persahabatan antara 1 Maret 2014 - 1 April 2015. Jumlah total sampel adalah 44 orang, terdiri dari 24 orang dengan kebocoran plasma dan 20 orang tanpa kebocoran plasma. Kadar IL-6 pada kelompok dengan dan tanpa kebocoran plasma masing-masing pada hari ke-3 dan ke-5 demam adalah 8,56 vs 3,80 ($p = 0,069$) pg/mL dan 4,30 vs 2,76 pg/mL ($p = 0,025$), sedangkan untuk protein C reaktif adalah 10,1 vs 6,8 mg/L ($p = 0,014$) dan 5,0 vs 2,9 mg/L ($p = 0,048$).

Kadar IL-6 hari ke-3 dan ke-5 demam pada kelompok dengan kebocoran plasma adalah 8,56 vs 4,30 pg/mL ($p = 0,037$) dan pada kelompok tanpa kebocoran plasma adalah 3,80 vs 2,76 pg/mL ($p = 0,005$). Kadar protein C reaktif hari ke-3 dan ke-5 demam pada kelompok dengan kebocoran plasma adalah 10,1 vs 5,0 mg/L ($p = 0,0001$) dan pada kelompok tanpa kebocoran plasma adalah 6,8 vs 2,9 mg/L ($p = 0,0001$). Tidak ada perbedaan kadar IL-6 pada hari ke-3 demam di antara kedua kelompok, sedangkan pada hari ke-5 demam kadarnya lebih tinggi pada kelompok dengan kebocoran plasma. Kadar protein C reaktif hari ke-3 dan ke-5 demam lebih tinggi pada kelompok dengan kebocoran plasma. Kadar IL-6 dan protein C reaktif hari ke-3 lebih tinggi dibandingkan hari ke-5 demam pada kedua kelompok.

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There is still unclear association between the elevation of interleukin-6 and C-reactive protein levels with plasma leakage in adult dengue infection patients. The study aims to determine differences in the levels of interleukin-6 and C-reactive protein among groups of dengue infection with and without plasma leakage. This is a cross-sectional study of secondary data from adult patients with dengue infection were treated at Cipto Mangunkusumo and Persahabatan Hospital between March 1, 2014 until April 1, 2015. The total number of samples were 44 people, consisting of 24 people with plasma leakage and 20 people without plasma leakage. Median levels of interleukin-6 for groups with and without plasma leakage each for the 3rd and the 5th day of fever were 8.56 vs 3.80 pg/mL ($p = 0.069$) and 4.30 vs 2.76 pg/mL ($p = 0.025$), whereas for C-reactive protein were 10.1 vs 6.8 mg/L ($p = 0.014$) and 5.0 vs 2.9 mg/L ($p = 0.048$).

Median levels of interleukin-6 on the 3rd and the 5th day of fever in the group with plasma leakage were 8.56 vs 4.30 pg/mL ($p = 0.037$) and in the group without plasma leakage were 3.80 vs 2.76 pg/mL ($p = 0.005$). Median level of C-reactive protein on the 3rd and 5th day of fever in the group with plasma leakage were 10.1 vs 5.0 mg/L ($p = 0.0001$) and in the group without plasma leakage were 6.8 vs 2.9 mg/L ($p = 0.0001$). There was no differences in levels of interleukin-6 on the 3rd day of fever between the two groups, while on the 5th day of fever interleukin-6 levels was higher in the group with plasma leakage. The levels of

C-reactive protein on the 3rd and the 5th day of fever were higher in the group with plasma leakage. The level of Interleukin-6 and C-reactive protein on the 3rd day of fever were higher than the 5th day of fever in both groups.