

# Korelasi interleukin-6 dengan e-selectin sebagai penanda disfungsi endotel pada pasien artritis reumatoid tanpa faktor risiko tradisional kardiovaskular = Correlation between interleukin-6 and e-selectin as a marker of endothelial dysfunction in rheumatoid arthritis patient without traditional cardiovascular risk factor

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## Abstrak

Artritis reumatoid AR adalah penyakit autoimun yang saat ini telah diketahui menunjukkan manifestasi klinis bukan hanya intraartikular, tetapi juga ekstraartikular. Kejadian kardiovaskular baik subklinis maupun klinis ditemukan lebih tinggi pada penderita AR. Mediator inflamasi aterogenik pada AR seperti interleukin-6 IL-6 diduga menjadi salah satu faktor risiko nontradisional kardiovaskular yang berkontribusi meningkatkan penanda disfungsi endotel seperti E-Selectin. Penelitian ini bertujuan mengetahui peran mediator inflamasi dalam kejadian disfungsi endotel, khususnya korelasi IL-6 dan E-selectin, pada pasien artritis reumatoid tanpa faktor risiko kardiovaskular. Studi potong-lintang dilakukan pada 40 pasien AR di Poliklinik Reumatologi RSUPN Dr. Cipto Mangunkusumo, Indonesia, pada bulan September-November 2017. Pemeriksaan IL-6 dan E-Selectin dilakukan dengan teknik enzyme-linked immunosorbent assay ELISA. Analisis korelasi bivariat dilakukan untuk menemukan korelasi kedua penanda tersebut. Rerata usia subjek penelitian ini adalah 44,9 13,1 tahun dan median durasi sakit adalah 36 bulan. Korelasi kadar IL-6 dengan kadar E-Selectin memiliki kekuatan korelasi lemah tetapi tidak bermakna secara statistik  $r = 0.232$ ,  $p=0,149$ . Tidak terdapat korelasi antara IL-6 dengan E-Selectin pada pasien AR tanpa faktor risiko tradisional kardiovaskular.

.....Rheumatoid arthritis RA is an autoimmune disease which has recently been recognized to manifest as not only intraarticular but also extraarticular symptoms. Cardiovascular events, presented either subclinically or clinically, were discovered more in AR patients. Atherogenic inflammatory mediator in AR including interleukin-6 IL-6 was thought to be one of nontraditional cardiovascular risk factor contributing to increase the endothelial dysfunction biomarker such as E-Selectin. This study was purposed to determine the correlation between inflammatory mediator and endothelial dysfunction event, especially between IL-6 and E-Selectin, in RA patient without traditional cardiovascular risk factor. A cross-sectional study was performed to 40 RA patients of Rheumatology Clinic of Cipto Mangunkusumo National General Hospital, Indonesia from September to November 2017. Measurement of the level of IL-6 and E-Selectin were performed using enzyme-linked immunosorbent assay ELISA. Bivariate correlation analysis was performed to determine the correlation between those two biomarkers. The mean age of this study subjects was 44.9 13.1 years and median of disease duration was 36 months. This study showed weak correlation between IL-6 and E-Selectin level, but not statistically significant.  $r = 0.232$ ,  $p = 0.149$ . There is no correlation between IL-6 and sE-Selectin in rheumatoid arthritis patient without traditional risk factor cardiovascular.