

## INTISARI

KORELASI ANTARA DISFUNGSI EREKSI DENGAN  
*SYSTEMIC IMMUNE-INFLAMMATION INDEX* PADA PASIEN *HEART FAILURE REDUCED EJECTION FRACTION* DI RSUP DR SARDJITO  
YOGYAKARTA

Mohamad Afif<sup>1</sup>, Noor Asyiqah Sofia<sup>2</sup>, Vita Yanti Anggraeni<sup>3</sup>

<sup>1</sup>Departemen Ilmu Penyakit Dalam, Fakultas Kedokteran, Kesehatan Masyarakat dan Keperawatan Universitas Gadjah Mada

<sup>2</sup>Divisi Psikosomatik, Departemen Ilmu Penyakit Dalam, Fakultas Kedokteran, Kesehatan Masyarakat dan Keperawatan Universitas Gadjah Mada

<sup>3</sup>Divisi Kardiologi, Departemen Ilmu Penyakit Dalam, Fakultas Kedokteran, Kesehatan Masyarakat dan Keperawatan Universitas Gadjah Mada

**Latar Belakang:** Prevalensi disfungsi ereksi pada penderita gagal jantung tergolong tinggi. Respon imun dan inflamasi sama-sama berperan pada patomekanisme terjadinya disfungsi ereksi dan gagal jantung. Penelitian sebelumnya menyebutkan *systemic immune inflammation index* (SII) sebagai parameter inflamasi berkorelasi dengan disfungsi ereksi. Namun, saat ini belum ada penelitian terkait korelasi antara disfungsi ereksi dengan SII pada pasien HFrEF.

**Tujuan:** Mengetahui korelasi antara disfungsi ereksi dengan SII pasien HFrEF di RSUP Dr. Sardjito Yogyakarta.

**Metode:** Penelitian dilakukan secara potong lintang pada pasien penderita HFrEF di RSUP dr. Sardjito pada periode Agustus 2023 – Desember 2023. Uji normalitas data dengan uji Shapiro Wilk. Analisis bivariat dilakukan dengan uji korelasi Spearman, hasil dinyatakan bermakna secara statistik bila nilai  $p < 0.05$ . Analisis multivariat dengan uji regresi linier berganda.

**Hasil:** Diperoleh 48 pasien laki-laki dengan HFrEF, terdapat 41 pasien (85.4%) dengan disfungsi ereksi dan 7 pasien (14.6%) tanpa disfungsi ereksi. Median SII penelitian ini adalah 525.1 (235.8-2126.7) dan rata-rata skor IIEF  $14.9 \pm 5.55$ . Tidak terdapat korelasi antara disfungsi ereksi dengan SII dari hasil uji Korelasi Spearman SII ( $p=0.319$ ). Merokok dan depresi berhubungan signifikan dalam analisa multivariat terhadap disfungsi ereksi.

**Kesimpulan:** Tidak terdapat korelasi yang signifikan antara disfungsi ereksi dengan SII pada pasien dengan HFrEF. Tingginya prevalensi disfungsi ereksi dan korelasi yang signifikan antara depresi dan disfungsi ereksi pada HFrEF menguatkan kondisi 3 lingkaran setan antara disfungsi ereksi, depresi, dan penyakit kardiovaskular.

**Kata Kunci:** disfungsi ereksi, SII, depresi, HFrEF

## ABSTRACT

**CORRELATION OF ERECTILE DYSFUNCTION WITH SYSTEMIC IMMUNE-INFLAMMATION INDEX IN PATIENT WITH HEART FAILURE REDUCED EJECTION FRACTION IN RSUP DR SARDJITO YOGYAKARTA**  
Mohamad Afif<sup>1</sup>, Noor Asyiqah Sofia<sup>2</sup>, Vita Yanti Anggraeni<sup>3</sup>

<sup>1</sup>Department of Internal Medicine, Faculty of Medicine, Public Health and Nursing, Universitas Gadjah Mada

<sup>2</sup>Division of Psychosomatic, Department of Internal Medicine, Faculty of Medicine, Public Health and Nursing, Universitas Gadjah Mada

<sup>3</sup>Division of Cardiology, Department of Internal Medicine, Faculty of Medicine, Public Health and Nursing, Universitas Gadjah Mada

**Background:** The prevalence of erectile dysfunction in heart failure sufferers is relatively high. Immune responses and inflammation both play a role in the pathomechanism of erectile dysfunction and heart failure. Previous research showed that systemic immune inflammation index (SII) as an inflammatory parameter correlated with erectile dysfunction. However, there is no research regarding the correlation between erectile dysfunction and SII in HFrEF patients.

**Objective:** To determine the correlation between erectile dysfunction and SII in HFrEF patients at RSUP Dr. Sardjito Yogyakarta.

**Methods:** This research was conducted cross-sectionally on patients suffering from HFrEF at RSUP dr. Sardjito in the period August 2023 – December 2023. Data normality test using the Shapiro Wilk test. Bivariate analysis was carried out using the Spearman correlation test, the results were declared statistically significant if the p value <0.05. Multivariate analysis with multiple linear regression test.

**Results:** There were 48 male patients with HFrEF, there were 41 patients (85.4%) with erectile dysfunction and 7 patients (14.6%) without erectile dysfunction. The median SII of this study was 525.1 (235.8-2126.7) and the mean IIEF score was 14.9±5.55. There was no correlation between erectile dysfunction and SII from the results of the Spearman SII Correlation test (p=0.319). Smoking and depression were significantly related in a multivariate analysis to the occurrence of erectile dysfunction.

**Conclusion:** There is no significant correlation between erectile dysfunction and SII in patients with HFrEF. The high prevalence of erectile dysfunction and the significant correlation between depression to erectile dysfunction in HFrEF reinforce triad between erectile dysfunction, depression and cardiovascular disease.

**Keywords:** erectile dysfunction, SII, depression, HFrEF



**Korelasi Antara Disfungsi Ereksi dengan Systemic Immune Inflammation Index Pada Pasien Heart Failure Reduced Ejection Fraction Di RSUP Dr Sardjito**  
Mohamad Afif, dr. Noor Asyiqah Sofia M.Sc SpPD-Kpsi; dr. Vita Yanti Anggraeni PhD M.Sc SpPD-KKV SpJP  
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