

# Hubungan peningkatan kadar eritropoetin dengan perbaikan fungsi jantung pada pasien gagal ginjal yang menjalani transplantasi = The association between elevated levels of erythropoietin and improvement of cardiac function on renal failure who underwent kidney transplantation

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## Abstrak

Transplantasi ginjal dapat memperbaiki fungsi jantung Penelitianeksperimental pada binatang membuktikan bahwa peningkatan kadar hormoneritropoetin memperbaiki fungsi jantung namun secara klinis masih menjadi bahanperdebatan

Tujuan: Untuk menilai hubungan peningkatan kadar eritropoetin dengan perbaikanfungsi jantung pada pasien gagal ginjal yang menjalani transplantasi

Metoda: Penelitian Kohor prospektif pada pasien gagal ginjal yang menjalanitransplantasi di RSCM Jumlah subyek 21 orang yang dikumpulkan dalam kurunwaktu Maret September 2013 Pengambilan data ekokardiografi dan kadareritropoetin dilakukan sebelum dan 3 bulan sesudah transplantasi ginjal

Analisisstatistik dengan uji korelasi Pearson atau Spearman

Hasil: Penelitian ini menunjukkan peningkatan bermakna kadar eritropoetin 7 58 2 56 mIU ml menjadi 18 1 6 4 mIU ml Terdapat hubungan peningkatan kadareritropoetin dengan LVEDD r 0 56 p0 05

Kesimpulan: Terdapat hubungan peningkatan kadar eritropoetin dengan perbaikanLVH LVEDD pada pasien gagal ginjal yang menjalani transplantasi Tidak ada hubungan peningkatan kadar eritropoetin dengan perbaikan LVEF

.....Kidney transplantation improved cardiac function Based on animaltrials elevated levels of erythropoietin hormone can improved cardiac function butin clinically still debate

Aim: To determine association between elevated levels of erythropoietin andimprovement cardiac function on renal failure who underwent transplantation

Methods: Prospective cohort study on renal failure who underwent kidneytransplantation at Cipto Mangunkusumo Hospital The study include 21 subjects whocollected it from Marct to September 2013 Data of echocardiography anderythropoietin level were collected at time prior to kidney transplantation and repeat 3months there after The association between elevated levels of erythropoietin andcardiac function was analyzed using Pearson correlation and Spearman test

Results: The study showed a significantly elevated levels of erythropoietin from7 58 2 56 to 18 1 6 4 mIU ml There was statistically significant association between elevated levels of erythropoietin and LVEDD r 0 56 p

Conclusions: There was association elevated levels of erythropoietin and improvement of LVH, LVEDD on renal failure who underwent transplantation, however, there was no association of elevated levels of erythropoietin level and improvement of LVEF