

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 Penelitian eksperimental pada binatang membuktikan bahwa peningkatan kadar hormoneritropoetin memperbaiki fungsi jantung namun secara klinis masih menjadi bahan perdebatan Tujuan: Untuk menilai hubungan peningkatan kadar eritropoetin dengan perbaikan fungsi jantung pada pasien gagal ginjal yang menjalani transplantasi Metoda: Penelitian Kohor prospektif pada pasien gagal ginjal yang menjalani transplantasi di RSCM Jumlah subyek 21 orang yang dikumpulkan dalam kurun waktu Maret September 2013 Pengambilan data ekokardiografi dan kadar eritropoetin dilakukan sebelum dan 3 bulan sesudah transplantasi ginjal Analisis statistik dengan uji korelasi Pearson atau Spearman Hasil: Penelitian ini menunjukkan peningkatan bermakna kadar eritropoetin 7 58 2 56 mlU/ml menjadi 18 1 6 4 mlU/ml Terdapat hubungan peningkatan kadar eritropoetin dengan LVEDD $r = 0.56$ $p = 0.05$ Kesimpulan: Terdapat hubungan peningkatan kadar eritropoetin dengan perbaikan LVH LVEDD pada pasien gagal ginjal yang menjalani transplantasi Tidak ada hubungan peningkatan kadar eritropoetin dengan perbaikan LVEFKidney transplantation improved cardiac function Based on animal trials elevated levels of erythropoietin hormone can improve cardiac function but in clinically still debate Aim: To determine association between elevated levels of erythropoietin and improvement of cardiac function on renal failure who underwent transplantation Methods: Prospective cohort study on renal failure who underwent kidney transplantation at Cipto Mangunkusumo Hospital The study include 21 subjects who collected it from March to September 2013 Data of echocardiography and erythropoietin level were collected at time prior to kidney transplantation and repeat 3 months thereafter The association between elevated levels of erythropoietin and cardiac function was analyzed using Pearson correlation and Spearman test Results: The study showed a significantly elevated levels of erythropoietin from 7 58 2 56 to 18 1 6 4 mlU/ml There was statistically significant association between elevated levels of erythropoietin and LVEDD $r = 0.56$ $p = 0.05$ 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.