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**Perbandingan Kadar Kreatinin Serum pada Pasien Diabetes Melitus tipe 2
Hipertensi dengan Non Hipertensi di Rumah Sakit Bintang Amin**

xvi + 30 halaman, 11 tabel, 2 gambar, 14 lampiran

ABSTRAK

Diabetes Melitus tipe 2 adalah penyakit gangguan metabolisme yang disebabkan oleh hiperglikemia kronis akibat resistensi insulin atau gangguan sekresi insulin. Komplikasi yang sering terjadi yaitu hipertensi. Interaksi antara hiperglikemia dan tekanan darah tinggi mempercepat terjadinya disfungsi endotel serta kerusakan vaskular sistemik, termasuk pada ginjal. Hipertensi berkontribusi terhadap peningkatan tekanan intraglomerulus, yang memperburuk progresivitas nefropati diabetik, salah satu parameter yang digunakan untuk menilai fungsi ginjal adalah pemeriksaan kadar kreatinin serum. Penelitian ini bertujuan untuk mengetahui perbedaan kadar kreatinin serum pada pasien Diabetes Melitus tipe 2 hipertensi dengan non hipertensi. Jenis penelitian analitik dengan desain *cross sectional*. Penelitian dilakukan pada bulan Mei 2025. Sampel penelitian ini sebanyak 60 responden yang memenuhi kriteria inklusi dan eksklusi. Hasil penelitian didapatkan rata-rata kadar kreatinin pasien DM tipe 2 non hipertensi 0,92 mg/dL dengan nilai terendah 0,4 mg/dL dan tertinggi 1,4 mg/dL. Sedangkan rata-rata kadar kreatinin pasien DM tipe 2 hipertensi 2,2 mg/dL dengan nilai terendah 0,6 mg/dL dan tertinggi 12,2 mg/dL. Analisa data dilakukan dengan uji *Mann Whitney* didapatkan *p-value* 0,044 ($p < 0,05$) didapatkan adanya perbedaan. Kesimpulan adanya perbedaan yang signifikan kadar kreatinin antara pasien DM tipe 2 hipertensi dengan non hipertensi.

Kata Kunci : Diabetes Melitus tipe 2, Hipertensi, Kreatinin,
Daftar Bacaan : 37 (2012-2024)

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Comparison of Serum Creatinine Levels in Hypertensive and Non-Hypertensive Type 2 Diabetes Mellitus Patients at Bintang Amin Hospital

xvi + 30 pages, 11 tables, 2 figures, 14 appendices

ABSTRACT

Type 2 Diabetes Mellitus is a metabolic disorder caused by chronic hyperglycemia due to insulin resistance or impaired insulin secretion. A common complication is hypertension. The interaction between hyperglycemia and high blood pressure accelerates endothelial dysfunction and systemic vascular damage, including the kidneys. Hypertension contributes to increased intraglomerular pressure, which worsens the progression of diabetic nephropathy, one of the parameters used to assess kidney function is serum creatinine levels. This study aims to analyze the difference in serum creatinine levels in hypertensive and non-hypertensive type 2 Diabetes Mellitus patients. This type of analytical research with a cross-sectional design. The study was conducted in May 2025. The sample of this study was 60 respondents who met the inclusion and exclusion criteria. The results of the study showed that the average creatinine level of non hypertensive type 2 DM patients was 0,92 mg/dL with the lowest value of 0.4 mg/dL and the highest of 1,4 mg/dL. While the average creatinine level of hypertensive type 2 DM patients was 2,2 mg/dL with the lowest value of 0,6 mg/dL and the highest of 12,2 mg/dL. Data analysis was carried out using the Mann Whitney test, a p-value of 0.044 ($p < 0.05$) was obtained, there was a difference. The conclusion is that there is a significant difference in creatinine levels between hypertensive and non-hypertensive type 2 DM patients.

Keywords : Type 2 Diabetes Mellitus, Hypertension, Creatinine
References: 37 (2012-2024)