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**PROGRAM STUDI ILMU KEPERAWATAN**

Skripsi, Juni 2025

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**HUBUNGAN USIA DAN RIWAYAT HIPERTENSI DENGAN NILAI LAJU  
FILTRASI GLOMERULUS PADA PASIEN GAGAL GINJAL KRONIK  
YANG MENJALANI HEMODIALISIS DI RSUD ARJAWINANGUN**

xvii + 59 halaman + 8 tabel + 2 bagan + 16 lampiran

**ABSTRAK**

Kasus gagal ginjal kronik secara global terus menunjukkan peningkatan. Pada tahun 2021, jumlah kasus tersebut melebihi 843,6 juta dan diperkirakan jumlah kematian akibat gagal ginjal kronik akan meningkat sebesar 41,5% pada tahun 2040. Penelitian ini bertujuan untuk mengetahui hubungan antara usia dan riwayat hipertensi dengan nilai laju filtrasi glomerulus pada pasien gagal ginjal kronik yang menjalani hemodialisis di RSUD Arjawinangun.

Penelitian ini menggunakan desain *cross sectional*. Sampel penelitian sebanyak 55 pasien diambil menggunakan total sampling yang diperoleh dari hasil rekam medis. Instrumen yang digunakan berupa lembar pencatatan. Analisis data menggunakan analisis univariat dan bivariat dengan uji *Spearman* dan ANOVA satu arah.

Hasil penelitian didapatkan 47,3% pasien berusia dewasa akhir (45-60 tahun). Sebagian besar pasien memiliki riwayat hipertensi sebanyak 70,9%. Rata-rata nilai LFG pasien sebesar 7,49 ml/menit/1,73m<sup>2</sup>. Hasil uji statistik dengan nilai signifikansi 0,05 didapatkan hubungan antara usia dengan nilai laju filtrasi glomerulus pada pasien gagal ginjal kronik yang menjalani hemodialisis ( $p = 0,003$ ) dan terdapat hubungan antara riwayat hipertensi dengan nilai laju filtrasi glomerulus pada pasien gagal ginjal kronik yang menjalani hemodialisis ( $p = 0,004$ ).

Diharapkan pasien gagal ginjal kronik di RSUD Arjawinangun dapat mengikuti terapi hemodialisis sesuai jadwal yang telah ditentukan dengan adanya dukungan yang kuat dari keluarga.

**Kata Kunci : Usia, Hipertensi, Laju Filtrasi Glomerulus (LFG), Gagal Ginjal Kronik**  
**Daftar Pustaka : 48 (2018 - 2025)**

**MAHARDIKA INSTITUTE OF TECHNOLOGY AND HEALTH**  
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*Mini Thesis, June 2025*

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***THE RELATIONSHIP BETWEEN AGE AND HISTORY OF  
HYPERTENSION WITH THE VALUE OF GLOMERULAR FILTRATION  
RATE IN PATIENTS WITH CHRONIC RENAL FAILURE UNDERGOING  
HEMODIALYSIS AT ARJAWINANGUN REGIONAL HOSPITAL***

*xvii + 59 pages + 8 tables + 2 charts + 16 enclosures*

***ABSTRACT***

*Cases of chronic kidney failure globally continue to show an increase. In 2021, the number of cases exceeded 843.6 million and it was estimated that the number of deaths due to chronic kidney failure will increase by 41.5% in 2040. This study aims to determine the relationship between age and history of hypertension with the value of glomerular filtration rate in patients with chronic kidney failure undergoing hemodialysis at Arjawinangun Region Hospital.*

*This study used a cross-sectional design. A sample of 55 patients was taken using total sampling obtained from medical records. The used instrument was a recording sheet. Data analysis used univariate and bivariate analysis with the Spearman test and one-way ANOVA.*

*The results showed that 47.3% of patients were in late adulthood (45-60 years old). Most patients had a history of hypertension as much as 70.9%. The average GFR value of patients was 7.49 ml/min/1.73m<sup>2</sup>. The results of statistical tests with a significance value of 0.05 showed a relationship between age and the value of glomerular filtration rate in patients with chronic renal failure undergoing hemodialysis ( $p = 0.003$ ) and there was a relationship between a history of hypertension and the value of glomerular filtration rate in patients with chronic renal failure undergoing hemodialysis ( $p = 0.004$ ).*

*It is expected that chronic kidney failure patients at Arjawinangun Region Hospital can follow hemodialysis therapy according to a predetermined schedule with strong support from the family.*

***Keywords : Age, Hypertension, Glomerular Filtration Rate (GFR), Chronic Kidney Failure***

***Referencies : 48 (2018 - 2025)***