

**POLITEKNIK KESEHATAN TANJUNGPURUN  
PROGRAM STUDI TEKNOLOGI LABORATORIUM MEDIS  
PROGRAM SARJANA TERAPAN**

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**Hubungan Kadar Ureum Dengan Kadar Hemoglobin Pada Pasien Gagal Ginjal Kronik**

Xiv + 29 Halaman, 7 gambar, 8 tabel, dan 12 lampiran

**ABSTRAK**

Gagal ginjal kronik ditandai oleh kerusakan fungsi ginjal secara progresif dan irreversibel dari beberapa bulan hingga beberapa dekade. Gagal ginjal kronik terjadi akibat ginjal gagal dalam menjalankan fungsinya dengan baik atau penurunan faal ginjal bersifat menahun. Pada keadaan gagal ginjal kronik kadar ureum tinggi dapat mengakibatkan penurunan kadar hemoglobin. Tujuan penelitian yaitu untuk mengetahui hubungan kadar ureum dengan kadar hemoglobin pada pasien gagal ginjal kronik. Jenis penelitian yang digunakan adalah analitik dengan desain penelitian *cross sectional*. Penelitian dilakukan di Rumah Sakit Pertamina Bintang Amin pada bulan Mei-Juni 2022. Populasi penelitian sebanyak 679 pasien dan sampel penelitian sebanyak 301 pasien gagal ginjal kronik diambil dari data sekunder yang ditentukan secara *purposive sampling* dengan kriteria inklusi dan eksklusi. Penelitian ini dianalisa menggunakan uji korelasi *Pearson*. Hasil penelitian didapatkan rata-rata kadar ureum sebesar 136 mg/dL dengan nilai terendah 50 mg/dL dan nilai tertinggi 346 mg/dL, kemudian untuk rata-rata nilai kadar hemoglobin 8,5 g/dL dengan nilai terendah 3,9 g/dL dan nilai tertinggi 13,4 g/dL. Hasil uji korelasi *Pearson* didapatkan nilai ( $p = 0,014$ ;  $r = - 0,142$ ) menunjukkan hubungan yang bermakna antara kadar ureum dengan kadar hemoglobin dengan arah hubungan negatif yang artinya semakin tinggi kadar ureum semakin rendah kadar hemoglobin.

Kata Kunci : Gagal Ginjal Kronik, Kadar Ureum, Kadar Hemoglobin

**TANJUNGPURONG HEALTH POLYTECHNIC  
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The Relationship between Urea Levels and Hemoglobin Levels in Chronic Kidney Failure Patients

Xiv + 29 Pages, 7 pictures, 8 tables and 12 appendices

**ABSTRACT**

Chronic renal failure is characterized by progressive and irreversible deterioration of kidney function from months to decades. Chronic kidney failure occurs as a result of the kidneys failing to carry out their functions properly or the decline in kidney function is chronic. In the state of chronic kidney failure, high levels of urea can lead to a decrease in hemoglobin levels. The purpose of the study was to determine the relationship between urea levels and hemoglobin levels in patients with chronic kidney failure. The type of research used is analytic with a cross sectional research design. The study was conducted at Pertamina Bintang Amin Hospital in May-June 2022. The study population was 679 patients and the study sample was 301 chronic kidney failure patients taken from secondary data determined by purposive sampling with inclusion and exclusion criteria. This study was analyzed using the Pearson correlation test. The results showed that the average urea level was 136 mg/dL with the lowest value of 50 mg/dL and the highest value of 346 mg/dL, then for the average hemoglobin level of 8.5 g/dL with the lowest value of 3.9 g/dL. dL and the highest value is 13.4 g/dL. The results of the Pearson correlation test showed that the value ( $p = 0.014$ ;  $r = -0.142$ ) showed a significant relationship between urea levels and hemoglobin levels with a negative relationship, which means that the higher the urea level, the lower the hemoglobin level.

Keywords: Chronic Kidney Failure, Urea Levels, Hemoglobin Levels