

ABSTRAK

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PENGARUH PENUNDAAN SUHU DAN WAKTU PEMERIKSAAN TERHADAP KADAR ELEKTROLIT, BUN, DAN KREATININ PADA PASIEN PASCA HEMODIALISA DI RSUD DR. SAYIDIMAN MAGETAN

1x + 71 halaman + 7 tabel + 6 lampiran

Pasien pasca hemodialisa umumnya dilakukan pemeriksaan elektrolit, BUN dan kreatinin untuk memantau efektivitas hemodialisa yang dijalani. Namun pemeriksaan spesimen darah seringkali mengalami penundaan pemeriksaan. Penelitian ini bertujuan untuk mengetahui pengaruh penundaan suhu dan waktu pemeriksaan terhadap kadar elektrolit, BUN, dan kreatinin pada pasien pasca hemodialisa di RSUD dr. Sayidiman Magetan.

Studi penelitian yang digunakan merupakan eksperimental yang bertempat di Laboratorium RSUD dr. Sayidiman Magetan dilakukan mulai bulan Februari sampai Juni 2025. Bahan uji yang digunakan berupa spesimen darah pasien pasca hemodialisa di RSUD dr. Sayidiman Magetan. Data hasil pemeriksaan dianalisis menggunakan uji One Way Anova dan Kruskal Wallis.

Hasil penelitian didapatkan kadar natrium, kalium, klorida, BUN dan kreatinin tetap stabil selama 8 jam pada suhu ruang dan suhu *refrigerator*. Hasil analisa data menunjukkan tidak ada pengaruh penundaan suhu dan waktu pemeriksaan terhadap kadar elektrolit, BUN, dan kreatinin pada pasien pasca hemodialisa di RSUD dr. Sayidiman Magetan. Temuan penelitian ini menekankan penggunaan serum untuk pemeriksaan elektrolit, BUN dan kreatinin pada spesimen darah yang mengalami penundaan pemeriksaan untuk hasil yang lebih stabil.

Kata kunci : Penundaan waktu pemeriksaan, elektrolit, BUN, kreatinin, Pasien pasca hemodialisa

ABSTRACT

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THE EFFECT OF TEMPERATURE AND EXAMINATION DELAY ON
ELECTROLYTE, BUN, AND CREATININE LEVELS IN POST-
HEMODIALYSIS PATIENTS AT DR. SAYIDIMAN MAGETAN HOSPITAL
1x + 71 pages + 7 tables + 6 appendices

Post-hemodialysis patients generally undergo examinations of electrolytes, BUN, and creatinine to monitor the effectiveness of the hemodialysis therapy they receive. However, blood specimen analysis is often delayed. This study aimed to determine the effect of delayed temperature and examination time on electrolyte, BUN, and creatinine levels in post-hemodialysis patients at Dr. Sayidiman Magetan Hospital.

This research was an experimental study conducted at the laboratory of Dr. Sayidiman Magetan Hospital from February to June 2025. The test materials used were blood specimens from post-hemodialysis patients at the same hospital. Data from the examinations were analyzed using One-Way Anova and Kruskal-Wallis tests.

The results showed that sodium, potassium, chloride, BUN, and creatinine levels remained stable for up to 8 hours at room temperature and refrigerator temperature. Data analysis indicated that there was no effect of delayed temperature and examination time on electrolyte, BUN, and creatinine levels in post-hemodialysis patients at Dr. Sayidiman Magetan Hospital. These findings emphasize the use of serum for electrolyte, BUN, and creatinine examinations in blood specimens experiencing examination delays to obtain more stable results.

Keywords : Examination delay, electrolytes, BUN, creatinine, post-hemodialysis patients.