

# UJI STABILITAS KADAR ASAM URAT URIN YANG DIPERIKSA SEGERA DAN DITUNDA SELAMA 4 HARI PADA SUHU RUANG

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## ABSTRAK

Asam Urat Merupakan produk akhir metabolisme purin. pemeriksaan asam urat dapat menggunakan sampel urin. Berdasarkan reagen kit TBHBA Fs pemeriksaan asam urat menggunakan urin stabil hingga 4 hari, namun beberapa penelitian mengenai penundaan pemeriksaan urin dapat mempengaruhi hasil penelitian. Tujuan penelitian ini adalah menganalisis kadar asam urat urin yang diperiksa segera dan ditunda selama 4 hari pada suhu ruang. Jenis penelitian analitik dengan Sampel urin sewaktu sebanyak 16 mahasiswa dengan perlakuan diperiksa segera dan ditunda selama 4 hari pada suhu ruang. Metode pemeriksaan kadar asam urat urin menggunakan enzimatis. Hasil penelitian pada pemeriksaan kadar asam urat urin segera didapat rata-rata 110 mg/dl dan pada urin yang ditunda selama 4 hari pada suhu ruang didapat rata-rata 127 mg/dl. Data dianalisis menggunakan uji saphiro wilk untuk mengetahui kenormalannya didapat pada pemeriksaan segera  $p=0,024$  dan pada pemerikssan yang ditunda selama 4 hari pada suhu ruang didapat  $p=0,831$ , dilanjutkan uji Wilcoxon didapat nilai  $p=0,022$ . Kesimpulan pemerikssan kadar asam urat urin yang diperiksa segera secara statistik terdapat ketidakstabilan bermakna dengan kadar asam urat urin yang ditunda selama 4 hari, namun secara teori pada reagen kit TBHBA FS kadar asam urat urin tersebut secara klinis masih dalam keadaan normal sehingga pernyataan dari reagen ini bahwa stabil itu benar. Pada penelitian ini terdapat keterbatasan dalam pengambilan sampel urin 24 jam sehingga peneliti menggunakan urin sewaktu.

Kata Kunci : Suhu, waktu, Kadar Asam Urat, Urin

## **STABILITY TEST OF THE URIC ACID EXAMINED IMMEDIATELY AND DELAY FORWARD 4 DAYS AT ROOM TEMPERATURE**

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Uric Acid is the end product of purine metabolism, uric acid examination can be done by using an urine sample. Based on the reagent kit TBHBA Fs, uric acid examination using urine can be considered stable for up to 4 days, but several studies regarding postponement of urine testing can also affect the results of the study. The aim of this study was to analyze uric acid levels which were checked immediately and postponed for 4 days at room temperature. This type of analytic research with random urine samples of 16 students with treatment that were examined immediately and postponed for 4 days at room temperature. The method of checking uric acid levels is done by using enzymatic. The results of the study on the examination of uric acid levels in the urine immediately obtained an average of 110 mg / dl and in urine that was delayed for 4 days at room temperature obtained an average of 127 mg /dl. Data were analyzed using the Saphiro Wilk test to determine the normality obtained on immediate examination  $p = 0.024$  and on the examination that was delayed for 4 days at room temperature it was obtained  $p = 0.831$ , followed by the Wilcoxon test obtained  $p$  value = 0.022. The conclusion of the urine uric acid level examination, which was checked immediately, was statistically significant with uric acid levels that were delayed for 4 days, but in theory the TBHBA FS reagent kit urine uric acid levels were still clinically normal so the statement of this reagent that mention that it's stable is right. In this study, there were limitations in taking urine samples on 24 hours so researchers used random urine.

Keywords: Temperature, time, uric acid levels, urine