

# PERBEDAAN HASIL PEMERIKSAAN KADAR ASAM URAT PADA SERUM SEGAR DAN SERUM SIMPAN 4°C

## *The Difference of Uric Acid Level Examination Result on 4°C Fresh Serum and Stored Serum.*

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### INTISARI

Pemeriksaan di laboratorium klinis sangat bervariasi antara lain hematologi dan kimia klinik. Salah satu pemeriksaan kimia klinik adalah asam urat. Ada kalanya sampel tidak langsung dikerjakan. Sampel yang dilakukan penundaan dapat mempengaruhi hasil pemeriksaan. Menurut PERMENKES sampel serum tersebut dapat disimpan pada suhu 4°C selama 5 hari karena pada suhu tersebut kadar asam urat pada serum simpan 4°C tetap stabil. Tujuan penelitian ini adalah untuk mengetahui adanya perbedaan hasil pemeriksaan kadar asam urat dengan sampel serum segar dan serum simpan suhu 4°C.

Karya Tulis Ilmiah ini disusun berdasarkan data eksperimental yang dilakukan di Laboratorium Klinik Universitas Setia Budi terhadap 30 sampel serum segar dan serum simpan selama 5 hari suhu 4°C dan ditunjang oleh pustaka yang telah dipublikasikan. Pemeriksaan kadar asam urat ini dilakukan dengan menggunakan metode TBHBA (2,4,6 – tri bromo – hydroxyl benzoid acid).

Hasil penelitian ini didapatkan kadar yang meningkat setelah dilakukan penyimpanan selama 5 hari suhu 4°C. Setelah diolah dengan uji statistik Paired sampel t Test didapatkan hasil  $p= 0,000$  hal ini menunjukkan bahwa terdapat perbedaan yang signifikan antara kadar asam urat pada serum segar dan serum simpan suhu 4°C.

**Kata kunci** : Asam Urat, Serum Segar, Serum Simpan 4°C

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## **ABSTRACT**

*Examination at a clinical laboratory is highly varied among others hematology and clinical chemistry. One of clinical chemistry examination is uric acid. There is a time when samples are not directly worked on. Samples that experience delays may influence examination results. According to the Regulation of the Minister of Health serum samples can be stored under the temperature of 4° C for 5 days because on that temperature the level of uric acid in 4°C stored serum stays intact. The aim of this research is to figure out the difference between the examinations results of uric acid levels with the samples of fresh serum and stored serum under the temperature of 4° C.*

*This scientific research is compiled based on the experimental data conducted in the Clinical Laboratory of Setia Budi University towards 30 samples of fresh serum and stored serum for 5 days under the temperature of 4°C and supported by published literatures. This examination on the levels of uric acid was done using TBHBA method (2,4,6-tri brom-hydroxyl benzoid acid).*

*The results of examination indicated elevated levels after the serum are being stored for 5 days under the temperature of 4°C. Statistical test Paired sample T Test resulted  $p=0,000$ , which shows that there is a significant difference between the levels of uric acid on fresh serum and stored serum under the temperature of 4°C.*

**Key words:** *Uric Acid, Fresh Serum, 4°C Stored Serum*

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