

PERBEDAAN HASIL PEMERIKSAAN KADAR ASAM URAT PADA SERUM SEGAR, SERUM TUNDA 24 JAM DAN PLASMA EDTA

The Difference of Examination Result on the Uric Acid Level on Fresh Serum, 24 hours Delayed Serum and EDTA Plasma.

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Intisari

Asam urat merupakan produk akhir dari metabolisme purin. Pemeriksaan asam urat dapat dilakukan menggunakan serum, serum tunda dan plasma EDTA. Tujuan penelitian ini untuk mengetahui adanya perbedaan kadar asam urat pada serum segar, serum tunda 24 jam dan plasma EDTA.

Penelitian ini bersifat analitik observasional dengan pendekatan *cross sectional*. Subjek penelitian 30 sampel. Penelitian ini dilakukan di Puskesmas Sibela pada bulan Mei 2019. Pemeriksaan asam urat menggunakan metode TBHBA (2,4,6 – *tri bromo – hydroxyl benzoid acid*). Uji Normalitas dengan uji *Shapiro-Wilk* tingkat kemaknaan $p > 0,05$. Data dianalisis menggunakan *One Way Anova* dan dilanjutkan dengan uji Paired Sampel t test dengan nilai $p < 0,05$.

Hasil uji *One Way Anova* untuk perbedaan kadar asam urat pada serum segar, serum tunda 24 jam dan plasma EDTA diperoleh nilai $p = 0,943 (>0,05)$ sedangkan uji *Paired Sampel T test* diperoleh perbandingan serum segar dan serum tunda 24 jam nilai $p = 0.560$, untuk perbandingan kadar serum segar dan plasma EDTA nilai $p = 0.684$ sedangkan perbandingan kadar asam urat pada serum tunda 24 jam dan plasma EDTA nilai $p = 0.933$, ketiga sampel memiliki nilai $p > 0.05$. Kesimpulan hasil analisa tidak terdapat perbedaan kadar asam urat pada serum segar, serum tunda 24 jam dan plasma EDTA.

Kata kunci : kadar asam urat, serum segar, serum tunda 24 jam dan plasma EDTA

ABSTRACT

Uric acid is the final product of purine metabolism. The examination of uric acid can be done by using serum, delayed serum and EDTA plasma. The purpose of this research is to find out the level difference of uric acid in fresh serum, delayed serum and EDTA plasma.

This research is observational analytic of 30 persons as the samples. The research was conducted at Sibela Public Health Center in May 2019. This research used TBHBA (2,4,6 – tri bromo – hydroxyl benzoid acid) method. The data were analyzed using One Way Anova and Paired Sample test with the p value of $p < 0.05$ (meaningful).

The test result of One Way Anova for the level difference of uric acid in fresh serum, 24-hours delayed serum and EDTA plasma, obtained the p value = 0.943 (> 0.05) while the Paired Sample t test obtained ratio of fresh serum and serum delayed 24 hours p value was 0.560, the ratio of fresh serum level and EDTA plasma p value was 0.684, while the ratio of uric acid level in the 24-hours delayed serum and EDTA plasma p value was $p > 0.933$, those three samples had the p value of > 0.05 . Based on the result analysis, it can be concluded that there is no difference of uric acid level in fresh serum, 24 hours delayed serum and EDTA plasma.

Key words: *uric acid levels, fresh serum, 24-hour delayed serum and EDTA plasma*