

INTISARI

Pujiastuti E. 2019. *Perbedaan Hasil Pemeriksaan Ureum dan Kreatinin pada Sampel Serum dan Plasma EDTA*. Program Studi D-IV Analis Kesehatan, Fakultas Ilmu Kesehatan, Universitas Setia Budi.

Pemeriksaan ureum dan kreatinin merupakan pemeriksaan kimia klinik untuk skrining bagi semua pasien rawat inap yang berusia ≥ 40 tahun di Rumah Sakit Jiwa Daerah Surakarta. Terkadang kesulitan dalam pengambilan sampel darah yang seharusnya diambil menggunakan 2 tabung, akhirnya darah yang diambil hanya 1 tabung, yakni tabung EDTA. Tujuan penelitian ini untuk mengetahui apakah ada perbedaan hasil pemeriksaan kadar ureum dan kreatinin menggunakan sampel serum dan plasma EDTA.

Penelitian ini bersifat *Cross Sectional* dengan tehnik *Purposive Sampling*, dilakukan di Rumah Sakit Jiwa Daerah Surakarta pada bulan April 2019 dengan jumlah sampel 40 orang. Kadar ureum diukur menggunakan metode Enzimatik UV dan kadar kreatinin diukur menggunakan metode *Jaffe Reaction*. Dilakukan uji normalitas dengan uji *Saphiro Wilk*, dilanjutkan dengan uji *Wilcoxon*, dengan nilai $p < 0,05$, taraf kepercayaan 95%.

Didapatkan hasil tidak terdapat perbedaan kadar ureum pada serum dan plasma EDTA ($p = 0,577$), tidak terdapat perbedaan kadar kreatinin pada serum dan plasma EDTA ($p = 0,850$).

Kata kunci : *ureum, kreatinin, serum, plasma*.

ABSTRACT

Pujiastuti E. 2019. *Differences examination result of ureum, creatinine levels in serum and plasma EDTA sample*. Bachelor of Applied Sciences in Medical laboratory Technology Program, Health Sciences Faculty, Setia Budi University.

Examination of urea and creatinine is a clinical chemistry examination for screening for all hospitalized patients ≥ 40 years old at Rumah Sakit Jiwa Daerah Surakarta (The Surakarta Regional Mental Hospital). Sometimes the difficulty in taking blood samples that should be using 2 vacutainer tubes, finally the blood taken is only one tube, namely the EDTA tube. The purpose of this study was to determine whether there were differences in the results of examination of urea and creatinine levels using serum and plasma EDTA.

This research is Cross Sectional with purposive sampling technique, conducted at Rumah Sakit Jiwa Daerah Surakarta in April 2019 with a sample of 40 people. Urea levels were measured using the UV Enzymatic method and creatinine levels were measured using the Jaffe Reaction method. Perform normality test with Wilk Saphiro test, followed by Wilcoxon test, with a p value < 0.05 , 95% confidence level.

The results showed that there were no differences in serum urea levels in serum and EDTA plasma ($P = 0.577$), there were no differences in creatinine levels in serum and plasma EDTA ($P = 0.850$).

Keywords : *ureum, creatinine, serum, plasma*.