

## INTISARI

**Utami, Astri. 06130227 N. 2014. *Perbandingan Hasil Pemeriksaan Kadar Ureum Serum antara Metode Berthelot dengan Metode Glutamate Dehydrogenase (GLDH)*. Skripsi, Program Studi D-IV Analis Kesehatan, Fakultas Ilmu Kesehatan, Universitas Setia Budi Surakarta. Pembimbing Utama: dr. M.I.Diah Pramudianti, Sp.PK(K)., M.Sc. Pembimbing Pendamping: F.Pramonodjati, M.Kes**

Ureum merupakan molekul kecil yang mendifusi ke dalam cairan ekstrasel kemudian dipekatkan dan diekskresikan melalui urin. Jika keseimbangan nitrogen dalam keadaan normal maka ekskresi ureum  $\pm 25$  mg/hari. Untuk mendeteksi ureum dalam serum menggunakan 2 metode yaitu metode *Berthelot* dan metode *glutamate dehydrogenase* (GLDH), yang dipergunakan di laboratorium RS Amal Sehat Slogohimo Wonogiri sebagai pemeriksaan penunjang diagnosis. Pemeriksaan ureum metode *Berthelot* menggunakan fotometer, sedangkan metode GLDH menggunakan spektrofotometer. Berdasarkan uraian tersebut, mendorong penulis untuk penelitian tentang perbandingan hasil pemeriksaan kadar ureum serum antara metode *Berthelot* dengan metode GLDH.

Tujuan penelitian ini untuk mengetahui apakah terdapat perbedaan hasil pemeriksaan kadar ureum serum antara metode *Berthelot* dengan metode GLDH. Jenis penelitian yang digunakan adalah observasi analitik dengan desain penelitian *cross sectional*. Uji hipotesa menggunakan uji *paired t-test*. Penelitian dilakukan pada bulan April-Mei 2014.

Hasil penelitian dari 36 sampel kemudian dianalisa dengan menggunakan bantuan aplikasi program komputer. Hasil pengujian normalitas data menggunakan uji *one-sample kolmogorov smirnov*, hasil pengolahan data disimpulkan terdistribusi normal. Signifikansi uji *paired samples t-test* adalah  $0,190 > 0,025$  yang berarti  $H_0$  diterima dan  $H_1$  ditolak, dapat disimpulkan bahwa hasil pemeriksaan kadar ureum serum antara metode *Berthelot* dan GLDH tidak menunjukkan adanya perbedaan secara bermakna.

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***Kata kunci: Ureum, metode Berthelot, metode GLDH***

## ABSTRACT

Utami, Astri. 06130227 N. 2014. *Comparison levels of ureum result between Berthelot methods and Glutamate Dehydrogenase (GLDH) methods*. Thesis, D-IV technical laboratory study programme, Faculty of health Sciences, Setia Budi Surakarta University. Main Supervisor: dr. M.I.Diah Pramudianti, SpPK(K), M.Sc. Co-Supervisor : F.Pramonodjati, M.Kes

Urea is a small molecule that diffuses into the extracellular fluid was then concentrated and excreted through the urine. If the nitrogen balance was in normal condition, so value of the urea excretion is  $\pm 25$  mg/day. Ureum inspection 2 method was *Berthelot* method and *glutamate dehydrogenase* (GLDH) method, was often used for inspection of urea levels in Amal Sehat Slogohimo Hospital Laboratory as a diagnostic. The *Berthelot* method and the GLDH method is used for inspection of serum urea levels. Ureum inspection the *Berthelot* method using a photometer was the GLDH method using a spectrophotometer. Based on these descriptions, encourages authors to conduct research on the comparative examination of serum urea levels between *Berthelot* method with GLDH method.

The aim of this study was analyzed the result of comparative levels of urea between the *Berthelot* methods and the GLDH methods. This study was an observational analytic study with cross sectional study design. Hypothesis testing using the paired t-test The study conducted in April-Mei 2014.

The result on 36 samples analyzed with computer programme applications. Testing result for normally data using *one sample kolmogorov smirnov test*, could be concluded that the data were normally distributed. Significance of *paired samples t-test*  $0,190 > 0,025$ ,  $H_0$  accepted and  $H_1$  rejected, it can be concluded that the results of the serum urea levels between *Berthelot* and GLDH method did not show any difference or not significantly different.

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**Keywords:** *Urea, Berthelot method, method GLDH*