

Perbedaan Kadar Kalsium pada Serum dan Plasma Heparin

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ABSTRAK

Pemeriksaan kadar kalsium dapat dilakukan dengan menggunakan sampel serum dan plasma heparin. Pemeriksaan kalsium menggunakan alat photometer 4010 dengan metode *O-cresolphthalein-complexone*. Tujuan penelitian untuk mengetahui perbedaan kadar kalsium pada serum dan plasma heparin. Jenis penelitian adalah penelitian analitik. Sampel diambil dari 16 mahasiswa dari total populasi 84 mahasiswa semester V D III Analis Kesehatan Universitas Muhammadiyah Semarang, kemudian sampel diperiksa menggunakan kedua cara. Hasil pemeriksaan menunjukkan rata-rata kadar kalsium menggunakan sampel serum 9,31 mg/dl, sedangkan rata-rata kadar kalsium menggunakan sampel plasma heparin 7,36 mg/dl. Hasil uji statistik *Independent Samples t – Test* menunjukkan nilai kemaknaan $p < 0,000$ dengan tingkat kemaknaan yaitu $0,000 < 0,05$. Dapat disimpulkan bahwa terdapat perbedaan kadar kalsium antara sampel serum dan sampel plasma heparin.

Kata kunci : Kadar kalsium, sampel

The differences calcium levels in serum and heparin plasma

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ABSTRAK

The calcium examination can be done by using serum and plasma heparin samples. The calcium examination using 4010 photometer tool with *O-cresolphthalein-complexone* method. The purpose of this study was to know the difference of calcium levels serum and heparin plasma. The type of research is analytic research. The sample was taken from 16 student from the total population of 84 student semester V D III Health Analyst Universitas of Muhammadiyah Semarang, then the sample is examined using both ways. The results showed an average calcium level using a serum samples of 9,31 mg/dl, while the mean calcium level using heparin plasma samples was 7,36 mg/dl. The result of the Independent Samples t-Test statistic shows the significance value of $p = 0,000$ with significance level of $0,000 < 0,05$. It can be concluded level that there is a difference in calcium between serum samples and heparin plasma samples.

Keywords : Calcium levels, samples