

Perbedaan Kadar *Gamma Glutamyl Transpeptidase* Serum dan Plasma Heparin

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ABSTRAK

Pemeriksaan *gamma glutamyl transpeptidase* menggunakan sampel serum dan plasma heparin. Penggunaan serum karena dapat mempertahankan kadar enzim *gamma glutamyl transpeptidase* tetap stabil. Plasma heparin merupakan antikoagulan yang tidak mempengaruhi reaksi sehingga enzim *gamma glutamyl transpeptidase* tetap terukur. Tujuan penelitian untuk mengetahui perbedaan kadar *gamma glutamyl transpeptidase* serum dan plasma heparin. Jenis penelitian adalah analitik dengan pendekatan *cross sectional*. Sampel diambil secara *random* sebanyak 21 mahasiswa dari total populasi 41 mahasiswa kelas F DIV Analis Kesehatan Universitas Muhammadiyah Semarang. Hasil pemeriksaan menunjukkan rerata kadar *gamma glutamyl transpeptidase* serum sebesar 18.381 U/L dan rerata kadar *gamma glutamyl transpeptidase* plasma heparin sebesar 17.095 U/L. Kadar *gamma glutamyl transpeptidase* serum lebih tinggi dibandingkan plasma heparin. Uji statistik *Independent-Samples T-Test* menunjukkan nilai kemaknaan 0,05 yaitu $0,364 \geq 0,05$ dan disimpulkan bahwa tidak ada perbedaan kadar *gamma glutamyl transpeptidase* serum dan plasma heparin.

Kata kunci : serum, plasma heparin, *gamma glutamyl transpeptidase*.

Differences Between Serum and Heparin Plasma in *Gamma Glutamyl Transpeptidase* Levels

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ABSTRACT

Gamma glutamyl transpeptidase examination using heparin serum and plasma samples. The use of serum because it can maintain *gamma glutamyl transpeptidase* levels remains stable. Plasma heparin is an anticoagulant that doesn't affect the reaction so *gamma glutamyl transpeptidase* enzyme remains stable. This analytical research with cross sectional approach was conducted to determine the result differences between serum and heparin plasma in *gamma glutamyl transpeptidase* levels. There was 21 samples which were randomly taken from population of 41 students the F class of Health Analyst Academy of Muhammadiyah University of Semarang. The results showed that the serum *gamma glutamyl transpeptidase* levels average was 18.38 U/L, while the heparin plasma *gamma glutamyl transpeptidase* levels average was 17.09U/L. These results indicated that the serum *gamma glutamyl transpeptidase* levels are higher than heparin plasma. However, both results are still within the normal range. The statistical test of *Independent-Samples T-Tests* showed a significance value of 0.364 with the significance level of 0,05 that $0.364 \geq 0,05$. Thus, it can be concluded that there is no significant difference between serum and heparin plasma in *gamma glutamyl transpeptidase*.

Key words : serum, heparin plasma, *Gamma Glutamyl Transpeptidase*