

## Perbandingan sampel dari tabung dengan clot activator tanpa gel pemisah dan tabung berisi litium heparin tanpa dan dengan gel pemisah untuk pengukuran kadar glukosa darah = Comparison of samples from tubes with clot activator without separator gel and tubes containing lithium heparin without and with separator gel for measurement blood glucose levels

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### Abstrak

American Diabetes Association ADA dan World Health Organization WHO merekomendasikan kadar glukosa vena plasma untuk diagnosis diabetes. Perbedaan hasil pengukuran kadar glukosa serum dan plasma heparin belum diketahui kemaknaan klinisnya.

Penelitian bertujuan untuk membandingkan hasil pengukuran kadar glukosa menggunakan tabung dengan clot activator tanpa gel pemisah tabung II, tabung berisi litium heparin tanpa tabung III dan dengan tabung IV gel pemisah. Penelitian ini juga ingin mengetahui perbedaan kadar glukosa darah pada serum dari tabung dengan clot activator tanpa gel pemisah pengambilan pertama tabung I dan kedua tabung II.

Desain penelitian adalah potong lintang, menggunakan 100 subjek penelitian. Median kadar glukosa pada tabung I, II, III, dan IV berturut-turut sebesar 147,5 68 ndash; 593 mg/dL, 150,5 68 ndash; 603 mg/dL, 150,5 72 ndash; 612 mg/dL, dan 152 72 ndash; 605 mg/dL.

Berdasarkan analisis statistik, tidak didapatkan perbedaan bermakna antara kadar glukosa pada tabung II, III, dan IV. Perbedaan kemaknaan klinis juga tidak ditemukan pada ketiga tabung tersebut karena dari uji ketepatan ISO 15197:2013 didapatkan penyimpangan berada dalam rentang 15 mg/dL untuk kadar glukosa.

*American Diabetes Association ADA and World Health Organization WHO have recommended plasma glucose levels for the diagnosis of diabetes. Clinical significance of different results between serum glucose levels and heparin plasma glucose levels have not known yet.*

*This study aimed to compare the results of glucose measurements using tubes with clot activator without separator gel tube II, tubes containing lithium heparin without tube III and with tube IV separator gel. This study also wanted to find out the difference of blood glucose level in serum from tubes with clot activator without separator gel on first tube I and second tube II blood collection.*

*The study design was cross sectional, using 100 subjects. The median of glucose levels in tube I, II, III, and IV were 147,5 68 ndash 593 mg dL, 150,5 68 ndash 603 mg dL, 150,5 72 ndash 612 mg dL, and 152 72 ndash 605 mg dL, respectively.*

*Based on statistical analysis, there were no significant differences among glucose levels in tube II, III, and IV. Moreover, there were no clinical significance differences among them because according to ISO 15197 2013 accuracy test, the deviation was within 15 mg dL for glucose levels.*