

PERBANDINGAN KADAR GLUKOSA BERDASARKAN PAPARAN CAHAYA PADA STIK GLUKOSA MENGGUNAKAN ALAT POCT

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ABSTRAK

Pemeriksaan kadar glukosa menggunakan strip glukosa metode POCT (*Point Of Care Testing*) selama pemeriksaan berlangsung strip glukosa tidak dibiarkan terpapar cahaya, paparan cahaya menyebabkan kadar glukosa mengalami penurunan. Penelitian yang dilakukan penulis bertujuan untuk mengetahui perbandingan kadar glukosa darah berdasarkan perlakuan pemaparan cahaya pada strip glukosa. Cara penarikan sampel menggunakan rumus Federer dengan jumlah sampel 16 responden. Hasil penelitian diperoleh kadar glukosa darah diperiksa dengan stik glukosa yang tidak terpapar cahaya matahari didapatkan nilai rerata 114,375 mg/dL. Kadar glukosa diperiksa dengan stik yang terpapar cahaya matahari selama 1 menit didapatkan rata-rata 110,75 mg/dL, Kadar glukosa darah diperiksa dengan stik glukosa yang terpapar cahaya matahari selama 10 menit, rata-rata 98,12 mg/dL. Uji statistik menunjukkan bahwa terdapat perbandingan bermakna pada kadar glukosa darah berdasarkan perlakuan pada stik glukosa.

Kata Kunci : Kadar Glukosa, Stik Glukosa, Perlakuan Pada Stik Glukosa

ABSTRAC

Glucose level examination using the POCT (Point Of Care Testing) glucose strip method should be done immediately, it is endeavored that during the inspection the glucose strip is not open and exposed to light, exposure to light causes the glucose level to decrease. The sample withdrawal method uses the Federer formula with a total of 16 respondents. The results showed that blood glucose levels were examined with glucose sticks not exposed to sunlight, the average value of 114,475 mg / dL was obtained,. Glucose levels were examined by sticks exposed to sunlight for 1 minute obtained an average of 110.75 mg / dL,. Blood glucose levels were examined with glucose sticks exposed to sunlight for 10 minutes, an average of 98.12 mg / dL. Statistical tests show that there is a significant comparison of blood glucose levels based on the treatment of glukose sticks.

Keywords: Glucose Levels, Glucose Sticks, Treatment of Glucose Sticks