DIFFERENCES IN LEVELS OF TOTAL BILIRUBIN PLASMA EDTA
LEVELS 0.9% NA CL DILUTION AND AQUADEST STERIL

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ABSTRACT

Total bilirubin examination is a total measure bilirubin of blood count, including unconjugated and conjugated bilirubin. Bilirubin comes from the breakdown of heme due to destruction of red blood cells by reticuloendothelial cells. Examination of total bilirubin using the colorimetric method requires 200 μL of sample per examination. The sample volume is insufficient so it requires modification of work procedure by diluting the EDTA plasma samples with 0.9% NaCl solution and sterile aquadest. The aim of the study was to determine differences in plasma EDTA total bilirubin levels 0.9% NaCl dilution and sterile aquadest. The type of research used is experiment. Data retrieval is carried out by directly measuring the level of total bilirubin EDTA plasma. Data analysis used ANOVA test which had previously been tested for normality using the Shapiro-Wilk test. The results of the 27 samples studied obtained an average total plasma EDTA bilirubin level of 0.9% NaCl dilution of 14.658 mg / dL and an average total plasma bilirubin level of aquadest dilution of 14.586 mg / dL. So it can be concluded that there is no significant difference in total bilirubin levels between 0.9% NaCl dilution and sterile aquadest dilution.

Keywords: total bilirubin, dilution, 0.9 % NaCl, sterile aquadest