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Relationship Between Levels of Fasting Blood Glucose and HbA1C in Prediabetes Patients

INTRODUCTION

both on IGT and TGT patient. HbA1C is a blood glucose test through measurement of Diabetes mellitus is a metabolic disorder that has hemoglobin A1C levels found in erythrocytes. become a global problem. Based on data from HbA1C is hemoglobin that can bind to glucose

Riskesdas (2013) 5.7% of diabetics patient in (glycohemoglobin). The HbA1C test describes Indonesia, almost 73.7% or around 8,485,329 state of blood sugar in the last 2-3 months. Several million were not diagnosed with diabetes. This can recent studies recommend HbA1C test to diagnose be considered dangerous because a late diagnosis or screening for prediabetes as a comparison of the can cause many complications that occur in type 2 examination of venous blood glucose tests. diabetes mellitus. Fasting blood glucose test .The use of two different methods of testing blood (hexokinase method) uses venous blood is a gold glucose is recommended to confirm and establish a standard for diagnosis of diabetes mellitus type 2 diagnosis of someone prediabetes or diabetes and is often used in hospitals . According to HbA1C values for normal people are below 5.6%, International Diabetes Federation (IDF), American prediabetes is between 5.7 - 6.4%, diabetes is above Descriptive Analysis Descriptive and Test 6.5%. Normality Data In this study sample data included in the inclusion

MATERIALS AND METHODS

The research method was descriptive observational analytic and the sampling technique was cross-sectional. Data was collected at the Clinical Pathology Laboratory of East Bekasi Private Hospital. The data taken is secondary data that is included in the inclusion criteria, which has a HbA1C test result of 5.7 - 6.4%, does a fasting blood sugar test, there is no routine history of carrying out the HbA1C test and fasting blood sugar. Data was collected from April to September 2018. The data was processed using the SPSS program to test the description, normality, spearman correlation test and regression with an error rate of 5%

CONCLUSION

There is a correlation between fasting blood glucose test and HbA1C results in patients with prediabetes with a weak ($R = 0.309$) and positive relationship.

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