

ABSTRACT

Mufidah, Zumrotul. 2010. **The Effect Of Fruit Extract Guava (*Psidium guajava*) on Blood Sugar Levels and Transaminase Level (GPT and SGPT) in rats (*Rattus norvegicus*) Diabetes**

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Diabetes mellitus is a disease of carbohydrate metabolism disorder characterized by blood glucose levels in excess of normal (hyperglycemia) and the presence of glucose in the urine (glikosuria). Diabetes mellitus can cause oxidative stress that causes the level of free radicals in the body increases. Guava contain antioxidant compounds that reduce free radicals. The purpose of this study was to determine the effect of guava fruit extract blood sugar levels and transaminase levels in diabetic rat liver.

This was an experimental study using a randomized block design (RAK) with 5 replications. The treatment used is P0 mice (diabetic mice without administration of guava fruit extract), control (normal rats) and diabetic rats fed extracts of guava fruit with 3 different doses. blood glucose level data were analyzed with analysis of covariance (ANKOVA), while the data content of transaminase (GPT and SGPT) were analyzed by analysis of variance (ANOVA). If the analysis shows a real effect, it will be followed by BNT 1%

The results showed that administration of extract of guava fruit to give effect to lower blood glucose levels and levels transaminase rat liver in rats with diabetes. The average value of blood sugar levels diabetic rats (P0) of 157.6 mg / dl, whereas at the dose of I, II and III decreased to 104.6 mg / dl, 98 mg / dl and 94.6 mg / dl. The average value of GPT levels in diabetic rats (P0) of 90.55 U / l, whereas at the dose of I, II and III respectively were 61.80 U / l, 61.11 U / l and 45.39 U / l. Similarly, SGPT levels in the delivery of doses of guava fruit extracts I, II and III respectively were 43.53 U / l, 44.47 U / l and 33.05 U / l which decreased when compared with diabetic rats (P0) is 77.98 U / l. In this research note that the dose of guava extract I (0.81 g / rat / day) can lower blood glucose levels, GPT and SGPT levels of diabetic rats.