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Activity of Ethanol Extract of *Gynura procumbens* (Lour) Merr. Leaf to Decrease Blood Glucose Level and Recover Pancreatic Histopathology in White Male Mice Induced by Alloxan

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Abstract : Introduction : Diabetes mellitus is a chronic condition indicated by the increasing of blood glucose level which is caused by lack of insulin as consequence from disturbance in the insulin secretion. This research is aimed to see the influences of ethanol extract of *Gynura procumbens* (Lour.) Merr. toward the reducing of blood glucose level and to fix pancreatic histopathology.

Methods : methodology used in this research is methodology of experimental using animal testing. Mice divided into 5 groups consists of negative control, positive control, Group of 50 mg/kg BW dose, 150 mg/kg BW, 300 mg/kg BW and 200 mg/kg BW alloxan induced animal intraperitoneally. The Extract is orally given for 7 days. The research data is analyzed using one way ANOVA test and Followed by Duncan test.

Result : the result of research showed that giving ethanol extract of *Gynura procumbens* (Lour.) Merr. with 50 mg/kg BW doses, 150 mg/kg BW, 300 mg/kg BW was able to reduce the level of blood glucose significantly ($P < 0.05$) and pancreatic histopathology illustrate the perceptual structure of endocrine cubicles which homogenous spreading out on Langerhans Island and proportional looked of cytoplasm.

Conclusion : this discovery showed that giving ethanol extract of *Gynura procumbens* (Lour.) Merr. in those three doses above was able to reduce the level of blood glucose and recover pancreatic histopathology which has damaged.

Keywords : *Gynura procumbens* (Lour.) Merr., Diabetes Mellitus, pancreatic cell

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