

THE EFFECT OF PROPOLIS ON HISTOLOGY OF PANCREAS IN MALE MICE (*Mus musculus*)

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ABSTRACT

The purpose of this research was to determine the effect of propolis on histology of pancreas in male mice (*Mus musculus*). 25 male mice (*Mus musculus*) aged 12-week-old with average weight 25-30gram were used. Male mice divided randomly into five groups; each group consisted of five mice. P0 as a control group, and other groups; P1, P2, P3 and P4 were given propolis ethanolic treatment orally with dosage; (1,6 mg/0,5ml/day), (3,2 mg/0,5ml/day), (6,4 mg/0,5ml/day), (12,8 mg/0,5ml/day) for two weeks treatment, animals were euthanized on 15th day and the pancreas was taken for histological specimen preparation by using H.E staining. Langerhans islet cells number and Langerhans islet diameter analyzed microscopically. The data analyzed using ANOVA method based on Completely Randomized Design. The result showed that administration of propolis does not significantly different. The conclusion is propolis does not have effect on histological pancreas in male mice.

Keyword: Propolis, Langerhans islet, pancreas, mice, histology.

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