

ABSTRACT

LEVEL COMPARISON OF RECOVER THE SINGE WITH GIVING HONEY COMPARED WITH GIVING MUPIROSIN IN WHITE MOUSE (*RATTUS NORVEGICUS*)

By

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Using honey as good medicine is very popular to be used by society in this time. Several enzymes that detectable in honey are *katalase*. With *katalase* enzyme give honey antioxidant. Nutrition on honey increases substrate at local environment so that speeds up process epitelisasi. The aimed of this research was to prove whether found description difference of histopathology skin mouse after giving honey during 14 days.

Experimental research used *Post Test Only Controlled Group Design*. Sample total 18 white mouses divided as random be 3 groups. Control group (K1) wasonly cleaned with aquades while group K2 (honey), K3 (kupirosin) was given by honey and mupirosin as topical as long as 14 days. Target was singe size changed and growth of epitelisasi in that mouse skin.

Research result showed that average ratio of skin covered as histopathology in treatment group K1, K2, K3 successively was 2.90 ± 1.21 , 4.26 ± 0.63 and 3.93 ± 0.69 with value $P=0,000$ in *Kruskal-Wallis* test. In analyses of *Mann-Whitney* test value P in each group are: between K1 and K2 $p=0.000$ then K1 and K3 $P=0.001$, for group test K2 and K3 $P=0.222$. In clinical result test got average 50.70 ± 15.28 in K1, 94.48 ± 6.07 in K2 and 74.45 ± 7.05 in K3. In ANOVA test got $P=0.000$ and continued with *post hoc t lsd* test with value $P=0.000$ in K1 towards K2 and K3, while $P=0.001$ in K1 and K2 group.

The conclusions of this research are found difference in level covered singe clinically and histopathology between giving honey as topical compared with mupirosin in mouse.

keyword: mupirosin, singe and honey.