

INFLUENCE of HONEY AGAINST the HISTOPATHOLOGY of *Mus musculus* LIVER INFECTED BY *Toxoplasma gondii*

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ABSTRACT

Toxoplasma gondii infection may cause liver derrangement and on the other hand honey has an ability in repairing damage of liver tissue due to disease process. This recent study has been made to find out the influence of honey to overcome the histopathological changes of liver caused by toxoplasma infection. Twenty five male mice of 2-3 month old were divided into five groups id est P0, P1, P3 and P4. P0 as a control group was administered with 0,2 ml normal saline solution intraperitoneally, while the P1 with 0,08 ml dorsata honey orally. P2, P3 and P4 were infected with 1×10^3 of *T. gondii* intraperitoneally. Before this treatment, P3 and P4 were given dorsata honey 0.08 ml and 0.12 ml respectively. Four days post infection all of mice were sacrificed and the liver were subjected for microscopic examination with H&E staining. Scoring method under Mordue was applied to the 3 histological changes, that were degeneration, necrosis and celullar infiltration. Than the result analyzed by Kruskal Wallis and followed by Mann Whitney test. There were so significantly different among the groups ($p < 0.05$), that the conclusion was there a reduced damage of the liver and the more effective dose was 0.12 ml.

Keywords : *Toxoplasma gondii*, liver histopathology, honey