EFFECT OF BOVINE COLOSTRUM ON THE DECREASING LEVEL OF LIVER DAMAGE AND THE LIFESPAN OF *Mus musculus* INFECTED WITH *Toxoplasma gondii*

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ABSTRACT

The aim of this research is to determine the lifespan and histopathological changes of mice liver which infected by tachyzoites of *Toxoplasma gondii* intraperitoneal. Experimental animal used 36 male mice 2-3 month were divided randomly into two group treatment (n=9). K(+) as a control given aquadest steril 0.3ml orally, grup was infected with $1x10^3$ of *Toxoplasma gondii* tachyzoites. P1 as a treatment bovine colostrum 0.3ml orally, grup was infected with $1x10^3$ of *Toxoplasma gondii* tachyzoites. Four days post infection, mice were sacificed and liver of all mice taken for histopathology preparations for further observation. Each of the liver of mice (*Mus musculus*) processed by Hematoxylin eosin staining. The results of the observation and scoring degeneration and necrosis of the entire liver histopathology preparation of mice (*Mus musculus*) were analyzed statistically using the Mann-Whitney test. Based on the result of the *Mann-Whitney* test showed that there were significantly different result of degeneration and necrosis. Otherwise the result of *t*-test showed that there were insignificantly different result of degeneration and necrosis. Thus the result showed that bovine colostrum was succesfully improved the lifespan and histopathological alterations of mice.

Keywords : *Toxoplasma gondii*, mice *(Mus musculus)*, bovine colostrum