PROPOLIS POTENTIAL TOWARD THE AMOUNT OF SPERMATOGENIC CELL, SERTOLI CELL, THICK AND DIAMETER SEMINIFEROUS TUBULES OF MICE (Mus musculus) TESTICULAR

Christian Marco Hadi Nugroho

ABSTRACT

The aim of this research was to find out the effect of propolis in the amount of spermatogenic cell, sertoli cell and the correlation between the treatment of propolis with seminiferous tubules thick and seminiferous tubules diameter each of mice (Mus musculus) testicular. This research used 25 mice which are 12 weeks old which has 25-35 g of body weight. They were divided randomly into five groups. (P0) as a control was given 0.5 ml aquades/day, and other group were given propolis for (P1) 0.4mg/0.5ml/day, (P2) 0.8mg/0.5ml/day, (P3) 1.6mg/0.5ml/day and (P4) 3.2mg/0.5ml/day. After two weeks treatment, 25 mice were sacrificed their testicular were taken then used in histological preparation with H.E staining. The data were analyzed by ANOVA method based on Completely Randomized Design, and further analyzed by Duncan's Multiple Range Test. The result from statistical analysis showed that treatment with propolis increased the amount of spermatogenic cells (spermatogonium cells, primary spermatocyte cells, spermatid cells), sertoli cells also the seminiferous tubules thick of mice testicular (p<0.05). The best dose is 0.8mg/0.5ml/day.

Keyword: Propolis, spermatogenic, sertoli, testicular, diameter