

EFFECT OF “*Sarang Semut*” (*Myrmecodia pendans*) ON THE NUMBER OF SPERMATOGENIC CELLS IN SEMINIFEROUS TUBULES OF MICE (*Mus musculus*) WITH EXCESSIVE PHYSICAL TREATMENT

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ABSTRACT

This research was to evaluate the number of spermatogenic cells include spermatogonium, spermatocytes, spermatids and spermatozoa after treatment with *Sarang Semut* + *swim stressor* as the excessive physical treatment. Treatments were divided into five groups (P0, P1, P2, P3 and P4); where P0 as a control were not given *Sarang Semut* + without *swim stressor*, P1 were not given *Sarang Semut* + *swim stressor*, P2 were given 15% of *Sarang Semut* + *swim stressor*, P3 were given 30% of *Sarang Semut* + *swim stressor* and P4 were given 45% of *Sarang Semut* + *swim stressor*. The statistical analysis were using ANOVA test and Duncan with *Statistical Programe for Social Science* (SPSS) program version 16.0 to know the comparison number of spermatogenic cells. The number of spermatogenic cells showed significant differences between treatments ($p < 0,05$). The conclusion of this study showed that 15% of *Sarang Semut* and *swim stressor* were able to increase the number of spermatogenic cells.

Keywords : *Myrmecodia pendans*, *spermatogenic cells*, *testicular histopathology*, *Mus musculus*, *excessive physical treatment*.