THE EFFECT OF VITAMIN C AGAINST TESTICULAR WEIGHT AND THE NUMBER OF LEYDIG CELLS OF MICE EXPOSED ENDO SUL FAN

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ABSTRACT

The research is conducted to determine the effect of vitamin C against testicular weight and the number of Leydig cells that were exposed with endosulfan. This study used 20 male mice with an average weight of 25 grams. The experiment was arranged in completely randomized design and divided equally into four groups: P-, P+, P1, and P2. Firstly, the laboratory animals were brought into an adaptation period for seven days. Subsequently, the P+ group was administered with 3.2 mg/kg endosulfan for 10 days orally, while P1 and P2 were given 3.2 mg/kg endosulfan and 25 mg/kg and 50 mg/kg respectively for the last 7 days. The P- was a control group. The testes of all mice were harvested on the 19th day and prepared for microscopic examination with a routine H&E staining. The study with completely randomized design was than analyzed with Anova and followed by Duncan t test. Vitamin C could increase the testicular weight as well as the number of interstitial cells, the Leydig cells after exposed against endosulfan, significantly (p<0.05).

Keyword: Endosulfan, Vitamin C, testicular histopathology, mice (Mus musculus)