

**Protective Effects of Vitamin E Against of
Leydig Cells Number and Testosterone of Levels Mice (*Mus
musculus*) exposed by TCDD (2, 3, 7, 8 - Tetrachloro-dibenzo-p-
dioxin)**

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ABSTRACT

The aims of this study is to determine the protective effect of vitamin E as an antioxidant that capable to maintain the number of Leydig cells and testosterone levels of mice exposed by TCDD. This study was a laboratory experimental study, with five threatment group and six replications of male (*Mus musculus*) mice which administered vitamin E by orally at different doses (P1 (11mg), P2 (20mg), and P3 (37mg)) Beginning as protectan. Four hours after giving pf vitamin E, they were exposing of TCDD with doses 100ng / oral. After all treatment is given, the next step is to making preparations with HE staining to calculate the number of Leydig cell and ELISA test to calculate testosterone levels in blood serum mice. The results of the protective effect of vitamin E showed that there was a significant difference between K+ and K-. On the results of testosterone levels showed in the K group is significantly different from the K+ group. In the K+. The conclusion is the protective effect of vitamin E were exposed by TCDD at 37 mg doses.

Key Word : Vitamine E ,TCDD, Leydig cell, testosterone levels.