

**EFFECT OF VITAMIN E AND VITAMIN C COMBINATION AS
PREVENTIVE MEASURE ON THE LEYDIG CELL
NUMBER IN MICE (*Mus musculus*) TREATED
WITH BORAKS**

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ABSTRACT

The aim of this research was to investigate the effect of vitamin C and E combination as preventive measure on Leydig cells number in mice (*Mus musculus*) treated with boraks. Twenty five male mices of BALB/c strain divided into five groups; P1 (vitamin control) was given 28 mg/Kg /day of vitamin C solution combined 105 mg/Kg/day of vitamin E solution, P2 (boraks control) was given 260 mg/Kg/day of boraks, P3 was given combination of 28 mg/Kg/day vitamin C and 105 mg/Kg/day vitamin E solutions and 260 mg/Kg/ day of boraks, P4 was given combination of 56 mg/Kg /day of vitamin C and 210 mg/Kg/day of vitamin E solutions and 260 mg/Kg/day of boraks, P5 was given combination of 112 mg/Kg/day of vitamin C and 420 mg/Kg/day of vitamin E solutions and 260 mg/Kg/day of boraks. Boraks solution on P3, P4 and P5 groups treated in an hour after each groups treated with combination of vitamin C and E solutions. The treatment were given by oral gavage for 14 days. The result indicated there was a significant difference ($P < 0.05$) between P1 (vitamin control) and P2 (boraks control) group. Significant difference also shown on P2 (boraks control) with P3, P4, P5 groups. There was indicated that combination of vitamin C and vitamin E increased the number of normal Leydig cell of mice (*Mus musculus*) treated with boraks.

Keywords: Vitamin E, Vitamin C, Leydig cell, mice, boraks