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Effect of Vitamin E and Vitamin C Combination as Preventive Measure on The Leydig Cell Number in Mice (Mus musculus) Treated With Borax

Pengaruh Pemberian Kombinasi Vitamin E dan Vitamin C sebagai Tindakan Preventif terhadap Jumlah Sel Leydig Mencit (Mus musculus) yang dipapar Boraks

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Abstract

The aim of this research was to investigate the effect of vitamin E and C combination as preventive measure on Leydig cells number in mice (Mus musculus) treated with borax. Twenty five male mice 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 (borax control) was given 260 mg/Kg/day of borax, 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 borax, 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 borax, 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 borax. Borax 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 (borax control) group. Significant difference also shown on P2 (borax 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 borax.

Keyword : Vitamin, E, Vitamin, C, Leydig, cell, mice, borax,

Daftar Pustaka :