Impact of Cnidoscolus Aconitifolius on Hematological Parameters in Rats

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Abstract

The plant *Chindoscolus aconitifolius* or often called Japanese papaya contains secondary metabolite compounds such as saponins, flavonoids, tannins, alkaloids, phytates, cyanogenic glycosides, and terpenoi. *C. aconitifolius* toxicity test on erythrocytes, leukocytes, and thrombocytes has never been done. The purpose of this study was to determine the effect *C. aconitifolius* leaves ethanol extract on erythrocytes, leukocytes, and thrombocytes in rats. This research method uses experimental laboratory post-test. Tests on 24 female rats (*Rattus Norvegicus*) which were divided into 4 groups with 6 rats each. In the division of groups consisting of groups given 1% Na CMC (negative control), 50 mg/kg bw, 300 mg/kg bw and 2000 mg/kg bw carried out for 14 days. Statistically, the results showed no significant effect on the number of erythrocytes (p-value=0.338), leukocytes (p-value=0.750), and Thrombocytes (p-value=0.456). This study can be concluded that there is no toxic effect of *C. aconitifolius* Leaf Ethanol Extract on erythrocytes, leukocytes, and thrombocytes in rats (Rattus norvegicus).

Keywords

Chindoscolus aconitifolius, Erythrocytes, Leukocytes, Thrombocytes