

## **Toxicity of Cymbopogon proximus (Maharaib) Oil Extract to Newzealand Rabbits**

**Authors :** A. B. Amna, M. A. E. Samia, A. K. Hassan

**Abstract :** The clinical, pathological, hematological and biological changes in Newzealand rabbits groups given daily oral doses of 0.1,0.25 and 0.5 ml/kg body weight/day of Cymbopogon proximus oil extract were investigated in an experiment durated for 21 days. Other than the dose co-related mortality rates, the clinical signs were observed daily after dosing to be low appetite and nervous signs including restlessness and increased consciousness. Pulmonary excretion of the oil extract led to bloody spots on the lungs, lymphocyte infiltration, congestion and edema. Renal glumeruli manifested lymphocyte infiltration in addition to shrinkages and easinophilic material in the medulla, if considered with the corticomedullary generalized necrosis and the significant changes in urea, they can explain the renal dysfunction. Hepatic malfunction was manifested by significant changes in serum alkaline phosphatase and aspartate transferases accompanied by the congested, fatty changed livers. The direct physical effect of the extracted oil was detected by the catarrhal inflammation of the intestines. There was no significant haematological change except for the slight changes in RBCs and MCVs in rabbits given the highest dose. Future work for Cymbopogon proximus oil extract was forwarded and practical implications of the result were highlighted.

**Keywords :** toxicity, cymbopogon proximus (maharaib), oil extract, Newzealand rabbits

**Conference Title :** ICMAP 2015 : International Conference on Medicinal and Aromatic Plants

**Conference Location :** Penang, Malaysia

**Conference Dates :** December 03-04, 2015