

Assessment of haematological indices using aqueous extract of *Ocimum tenuiflorum* in Albino rats

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ABSTRACT

Ocimum tenuiflorum "Queen of Herbs" is an aromatic plant in the family Lamiaceae which is native throughout the Old World tropics and widespread as a cultivated plant and an escaped weed. It is a potent herbal remedy for lot more disorders like, Hypoglycemic activity, Anti-hyperlipidemic activity, Anti-lipid peroxidative activity, Anti-oxidant activity, Anti-ulcer activity, Cardioprotective activity, Neuroprotective, Hepatoprotective activity, Hypotensive activity, Analgesic activity, Anthelminthic activity, Anti-bacterial activity, Anti-cataract activity, Anti-fertility activity, Anti-inflammatory activity, Anti-stress activity and anti-toxic effect. Fresh leaves of the plant samples were collected, cleaned, washed, shade dried and used for studies. The leaf extract was prepared and its anti toxic effects were studied in different groups of Albino rats. The haematological indices such as haemoglobin content, RBC, WBC, Platelets, reticulocytes, neutrophils, lymphocytes, monocytes, basophils, MCV, MCH, MCHC were analysed and was not found to be significantly different from that of the control group. In conclusion the present study shows that the aqueous leaf extract of *Ocimum tenuiflorum* is safe and non-toxic.