

Haematological indices of male rats following oral exposure to a mixture of cypermethrin and dimethoate (uppercott insecticide)

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The present study evaluated the haematological parameters of male rats exposed to oral administration of daily doses of 10 mg/kg and 20 mg/kg uppercott (a mixture of cypermethrin and dimethoate belonging to organophosphate and pyrethroid groups). They were sacrificed after 28 days. Results obtained showed a dose dependent decrease in red blood cell (RBC), packed cell volume (PCV), Mean corpuscular haemoglobin (MCH) and corpuscular haemoglobin concentration (MCHC). White blood cells (WBC), lymphocytes and neutrophils increased significantly ($p < 0.05$) while eosinophiles had no significant change ($p > 0.05$) in concentration comparison with control. Thus, uppercott may induce haematotoxicity in mammals.

Biography

Ekwere M R is a senior lecturer and a PhD student of Uboh F E. Ekeruke M B is a student under the supervision of Uboh, assisted by Ekwere.

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