

Abstract

The current study was undertaken with the aim of establishing the safety profile of different parts of *Physalis peruviana* L extracts in male wistar albino rats. The biochemical parameters were determined using Humanlyser 2000, a controlled photometer, while the haematological parameters were analyzed using HumanCount 5 L automated laser haematology analyzer. Results on haematological parameters revealed that after 28 days of administration of Dichloromethane *Physalis peruviana* leaf and Dichloromethane *Physalis peruviana* stem crude extracts to rats at 500mg/kg /day, there were significant increase (P0.05) on serum Alkaline phosphatase, total protein and total bilirubin. Peripheral blood films revealed marked Polychromasia in aqueous *Physalis peruviana* roots and acanthocytes in aqueous *Physalis peruviana* stem treated groups compared to the negative control. It can be concluded that extracts of *P. peruviana* at the doses tested had mild toxic effects and also lead to boosting of immunity in body systems.