

# Summary

The effects of oral administration of thiodon on various hepatic, renal haematological and immunological parameters were studied. In single exposure experiment, SGOT and uric acid level remained significantly high upto 8<sup>th</sup> day while SGPT remained significantly high upto even 12<sup>th</sup> day after exposure. In weekly exposed group, significantly high levels of SGPT, SGOT were observed throughout the experiment whereas uric acid increased after 3<sup>rd</sup> exposure and remained high till the termination of the study. In haematological parameters a significant reduction was observed in Hb, TEC, MCV and MCHC throughout the experiment. The PCV was recorded significantly elevated after 3<sup>rd</sup> exposure but it decreased after 5<sup>th</sup> experiment. In immunological studies an elevation in eosinophil count, basophil count, protein and globulin levels was observed after 2-3 times exposure to toxicant till the end of study. But lymphocyte count increased only upto 2<sup>nd</sup> exposure. Total leukocyte count, neutrophil count and antibody titre against human erythrocytes decreased in dose dependent manner.