

Effect of *Melothria maderaspatana* on carbon tetrachloride-induced changes in rat hepatic microsomal drug-metabolizing enzyme activity

K.A.P.W. Jayatilaka¹, M. I Thabrew¹, D.J.B. Perera²

¹Department of Biochemistry Faculty of Medicine, University of Ruhuna, Galle, Sri Lanka

²Department of Pathology, Faculty of Medicine, University of Ruhuna, Galle, Sri Lanka

Abstract

Treatment with an aqueous extract of the aerial parts of *Melothria maderaspatana*, before or after CCl₄ administration in rats markedly decreased CCl₄-mediated reductions in aniline hydroxylase and *p*-aminopyrine *N*-demethylase activities. Phenobarbital-induced sleeping time in rats and kinetic enzyme studies showed that the effect of the plant was neither due to an induction of the drug metabolizing enzymes nor due to an alteration in the K_m values of the enzymes.