

Studies on some biochemical effects of aqueous leaf Extract of *landolphia owerrience* on albino rats

Authors:

Friday O Uhegbu,
Amadike E Ugbogu and
Kingsley C Nwoku.

Institution:

Department of Biochemistry,
Faculty of Biological and
Physical Sciences Abia
State University, PMB 2000,
Uturu, Nigeria.

Corresponding author:

Friday O Uhegbu.

ABSTRACT:

The effects of aqueous leaf extract (crude) of *Landolphia owerrience* on some biochemical parameters in adult male and female Albino rats were investigated. Administration of the plant leaf extract was by gavage at a dose level of 20 mg/kg, 30 mg/kg and 40 mg/kg body weight in 0.5 ml saline respectively, daily for 21 days. The concentration of ALT and AST were non-significantly increased as the dose increased. Alkaline phosphatase (ALP) level also increased non-significantly, but not dose dependent. Protein level also significantly increased in a dose dependent fashion. Hemoglobin concentration increased significantly, while lipid peroxidation level decreased non-significantly as the dose increased. The non-significant increase in liver enzyme concentrations in this study showed that the *Landolphia owerrience* leaf extract may not be toxic to the rat liver, while the low lipid peroxidation levels showed that it may have antioxidant activity.

Keywords:

Ethno-medicine, hemoglobin, liver enzymes, medicinal plant, peroxidation, protein.