



Document details

Title

Nephrotoxicity and hepatotoxicity evaluation in wistar albino rats exposed to *Nauclea latifolia* leaf extracts.

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Consumption of the aqueous leaf extract of *Nauclea latifolia* as anti-malaria concoction without any recourse or regard for its safety is a common practice in the Northern Nigeria. The aim of this study was to evaluate the safety efficacies of the ingestion of the methanolic leaf extract of this plant on the liver and kidney functions in wistar albino rats. Acute toxicity tests were carried out to determine LD₅₀, while sub-chronic toxicity study was carried out by oral administration of graded doses (200, 400, 800, 1600 and 3200 mg/Kg) of the extract to different groups of rats for 30 days. Both the liver and kidney functions assessed biochemically using standard methods revealed the LD₅₀ of *N. latifolia* at 3200 mg/Kg body weight as being non-lethal. Meanwhile, biochemical and histological results obtained for the liver and kidney function parameters indicated that ingestion of *N. latifolia* leaf extract has no observable toxic effects on these organs at the tested doses. It was therefore suggested that these results could form the basis for clinical trial in human.

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SS200 -

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Plant Products

VV400 - Animal
Models of Human
Diseases, (New March
2000)

VV450 - Animal and in
vitro Models for
Pharmaceuticals,
(New March 2000)

Organism descriptor

Nauclea latifolia
rats

Descriptor

dosage effects

kidneys

leaves

liver

nephrotoxicity

oral administration

safety

Broad term

Nauclea

Rubiaceae

Rubiales

Gentianales

dicotyledons

angiosperms

Spermatophyta

plants

eukaryotes

ACP Countries

Anglophone Africa

Africa

Commonwealth of Nations

Developing Countries

West Africa

Africa South of Sahara

Muridae

rodents

mammals

vertebrates

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