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## Acute Administration of Aqueous Extract of Garcinia Kola Seed on Daily Blood Glucose Level and Selected Biochemical Indices of Liver Function in Albino Rats

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## Abstract

This study evaluated the effects of acute administration of aqueous extract of *Garcinia kola* seed on daily blood glucose level and selected biochemical indices in wistar albino rats in connection with human health. The serum liver enzymes activities of ALT and ALP increased significantly (p<0.05) in the test animals (in groups two and three), while AST also increased, though not significantly (p>0.05). ALT increased from  $35.38 \pm 1.35$  U/L in control group (group one) to  $47.25 \pm 1.71$  U/L in group three, while AST and ALP increased from  $36.75 \pm 2.50$  U/L to  $38.25 \pm 4.79$  U/L and  $27.46 \pm 4.57$  U/L to  $40.14 \pm 7.26$  U/L respectively. Blood glucose level decreased on daily basis after administration of aqueous extract of *Garcinia kola* seed. The results showed that daily consumption of *Garcinia kola* seed induced hypoglycaemic effect and hepatic toxicity in Wistar albino rats as observed in groups two and three. This invariably implies that this *Garcinia kola* seed may be used in the management of hyperglycaemia. Also, it should not be consumed regularly on daily basis.

Keywords: Blood glucose, Garcinia kola, liver enzymes and life expectancy.

## **Biography**

Chinedu Imo was born on 26 June 1983 in Orlu, Imo, Nigeria. He is a Nigerian Musical Artist, Gospel singer, and Author. He has collaborated with a number of labels, including Favuor Music Nig. Chinedu has worked on a variety of projects during his career.