

PDF - THE COMPARATIVE STUDY OF THE EFFECT OF FRESH STEM JUICE AND AQUEOUS STEM JUICE EXTRACT OF COSTUS AFER (BUSH CANE) ON THE HISTOMORPHOLOGY OF THE STOMACH OF PARACETAMOL TREATED ALBINO WISTAR RATS - researchcub.info **ABSTRACT**

This study was designed to compare the effect of fresh stem juice and aqueous stem juice extract of Costus afer on the stomach of paracetamol treated rats. Ld50 of the fresh stem juice and aqueous stem juice extract was determined by the modified Lorke's method using twenty one (21) male mice and was determined to be 223.61 mg/kg and 353.55 mg/kg respectively. Twenty eight (28) adult male Wistar rats were used for the experiment. The animals were weighed before and after the experiment. They were randomly divided into seven groups of four animals in each group as follows. Group A: the control group was given feed and water ad libitum. Groups B – G served as the experimental groups. Group B was administered with 28.57 mg/kg of paracetamol. Group C was administered with 44.72 mg/kg of fresh stem juice extract of Costus afer. Group D was administered with 70.71 mg/kg of aqueous stem juice extract of Costus afer. Group E was administered with 28.57 mg/kg of paracetamol and 44.72 mg/kg of fresh stem juice of Costus afer. Group F was administered with 28.57 mg/kg of paracetamol and 70.71 mg/kg of aqueous stem juice extract of Costus afer. Group G was administered with 28.57 mg/kg of paracetamol and 100 mg/kg of silymarin. All administrations were carried out within 21 days. Administration was done orally using an orogastric tube. After the 21 days the animals were sacrificed by chloroform inhalation anesthesia and their stomach harvested, fixed in 10 % buffered formalin, processed and stained with hematoxylin and eosin staining technique. They were observed under a light microscope and the following observations were made. Group A showed normal histoarchitecture of the gastric epithelium. Group B showed severe atrophy of the gastric epithelium tissues. Degenerations in the stomach tissues were also mildly observed in groups C, D, E, F and G as compared to the paracetamol treated group. In conclusion, from this research it has been observed that oral administration of C. afer is toxic at the dosage above 223.61 mg/kg at fresh juice and 353.51 mg/kg at aqueous extract for 21 days, and it offered little protective effect on the stomach treated with paracetamol.

**THE COMPARATIVE STUDY OF THE EFFECT OF FRESH STEM JUICE AND AQUEOUS STEM JUICE EXTRACT OF COSTUS AFER (BUSH CANE) ON THE HISTOMORPHOLOGY OF THE STOMACH OF PARACETAMOL TREATED ALBINO WISTAR RATS**

The complete project material is available and ready for download. All what you need to do is to order for the complete material. The price for the material is NGN 3,000.00.

Make payment via bank transfer to Bank: Guaranteed Trust Bank, Account name: Emi-Aware technology, Account Number: 0424875728

Bank: Zenith Bank, Account name: Emi-Aware technology, Account Number: 1222004869

or visit the website and pay online. For more info: Visit <https://researchcub.info/payment-instruct.html>

After payment send your depositor's name, amount paid, project topic, email address or your phone number (in which instructions will sent to you to download the material) to +234 70 6329 8784 via

**text message/ whatsapp or Email address: [info@allprojectmaterials.com](mailto:info@allprojectmaterials.com).**

**Once payment is confirmed, the material will be sent to you immediately.**

**It takes 5min to 30min to confirm and send the material to you.**

**For more project topics and materials visit: <https://researchcub.info/> or For enquiries:  
[info@allprojectmaterials.com](mailto:info@allprojectmaterials.com) or call/whatsapp: +234 70 6329 8784**

**Regards!!!**