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Effect of saponin from *Solanum anguivi* on heart function of alloxan induced diabetic rats

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Solanum anguivi is a semi-domestic indigenous vegetable very valuable in many African countries with potential to become a cultivated market vegetable in Nigeria. Uptake of *Solanum anguivi* cause hypoglycemic effect, hypertension e.t.c. The effect of Saponin from *Solanum anguivi* on heart function of an alloxan-induced diabetic rat was investigated in this Study. Twenty four (24) rats of average weight 120g were randomly divided into six (6) groups A-F. Group A (control) rats were given 2.0ml of distilled water, Group B (Diabetic control), Group C to F were diabetic rats which were administered 20mg/ kg, 40mg/kg and 80mg/kg Saponin from *Solanum anguivi* respectively for 14 days. The results showed that there was a significant reduction in plasma glucose in the diabetic rat to almost the level in the Control. The result also shows that there were a significant reduction in Aspartate Aminotransferase AST and Alanine aminotransferase ALT activities in serum and heart compared with the control ($p < 0.05$). This study shows that *Solanum anguivi* fruit has an anti-diabetic effect on alloxan induced diabetic rat.

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