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Effect of the methanolic extract of fruit bark of *Citropsis articulata* on the testes of male Wistar rats

Citropsis articulata is one of many native plants whose medicinal properties are highly prized in Uganda. It is known to be an aphrodisiac for men. The aim of this study was to investigate the effect of methanolic extract of the fruit bark of *Citropsis articulata* on the testes of male Wistar rat. It was investigated using 30 male Wistar rats weighing between 120 g-250 g. The rats were divided into groups A, B, C, and D at random of 9 animals each and 3 animals for group D (control). The rats were administered 50 mg\kg, 100 mg\kg and 200 mg\kg of the extract and de-ionized water for group D respectively for 3 weeks (21 days). The parameters evaluated include; Sperm motility, dead sperm cells, sperm morphology (viable and non-viable cells), testosterone level and histological features of the testes. The methanolic extract of the fruit bark of *Citropsis articulata* caused a decrease in sperm motility, sperm count and morphology of viable cells, with a significant decrease in testosterone level. The decrease was dose dependent. This implied an increase in dead sperm cells and morphology of non-viable cells which was dose dependent with significant ($p<0.05$) level in all the weeks studied. Histological examination of the testes revealed destruction of sperm cells, after weeks 1 and 2 when compared with the control group. This was as a result of an increase in dose administered (100 mg/kg); but after week 3 (200 mg/kg) there was a reversal effect observed. This study therefore showed a cytotoxic and reversal effects of the extract on testes of albino Wistar rat.

Biography

Yorkum L Kenneth is a lecturer and a Researcher in the Medical field, Lecturer at University of Port Harcourt, Nigeria.

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