



International Malaria Colloquium: Meeting Abstracts Applying Molecular Techniques to Interventions in Malaria Elimination in Nigeria

Port Harcourt, Nigeria. 16-19 May, 2016

Effect of extract of *Pseudocedrela kotschy* on blood glucose concentration of alloxan induced diabetic albino Rats

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Journal of Malaria and Phytomedicine 2016. Vol. 1 (Suppl 1) o8

Introduction

Diabetes mellitus is a group of syndromes characterized by hyperglycemia; altered metabolism of lipids, carbohydrates and proteins; and an increased risk of complications from vascular diseases. There are more than 125 million persons with diabetes worldwide today and by 2010 this

number is expected to approach 220 million. On rare occasions, diabetes results from point mutations in the insulin gene. There are genetic and environmental components to both type 1 and 2 DM. Studies of identical





twins show 70 -80 % concordance for developing type 2 DM. The effect of extract of *Pseudocedrela kotschi* on blood glucose of alloxan induced albino wistar rats was thus evaluated.

Methods: Experimental animals received daily oral administration of extract of *P. kotschi* for 14 days. The effect of 200mg/kg dose on blood glucose in comparison to control was studied during the treatment period.

Results: There was a significant reduction in blood glucose concentration ($p < 0.05$) with the mean blood glucose of the different groups having 5.5 ± 0.33 for normal control, 7.0 ± 0.40 for diabetic control group and 4.8 ± 0.24 for diabetic treated group.

Conclusions: The findings of this study suggest that extract of *P. kotschi* has hypoglycemic effect.

Key words: *Pseudocedrela kotschi*, hypoglycemia, diabetes, hyperglycemia

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