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ANTICONVULSANT STUDIES ON *COCHLOSPERMUM* *TINCTORIUM* AND *PAULLINIA PENNATA* EXTRACTS IN LABORATORY ANIMALS

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ABSTRACT

Cochlospermum tinctorium (Cochlospermaceae) and *Paullinia pennata* (Sapindaceae) are widely used medicinal plants in Northern Nigeria in the management of epilepsy. The hydroalcoholic root bark extract of *Cochlospermum tinctorium* and methanolic stem bark extract of *Paullinia pennata* were investigated for anticonvulsant activities using Maximal electroshock test in chicks, Pentylenetetrazole and Strychnine-induced seizures, in mice. The *Paullinia pennata* extract produced a dose-dependent protection (50%, 60% and 70%) against maximal electroshock at doses tested (125, 250 and 500 mg/kg) while the *C. tinctorium* extract did not protect the animals at the doses tested (5, 10 and 20 mg/kg). The two extracts did not protect the animals against strychnine-induced seizure. Both extracts protected 20% of the animals against pentylenetetrazole-induced seizure at the highest doses tested. This study suggests that the aqueous methanolic stem bark extract of *P. pennata* contains bioactive constituents that may be beneficial in grand mal epilepsy and lend pharmacological credence to the ethnomedical claim for the use of the plant in the management of this epilepsy.

Key Words: *Paullinia pennata*, *Cochlospermum tinctorium*, Seizure, Maximal electroshock; Pentylenetetrazole; Strychnine

INTRODUCTION

Epilepsy is a chronic brain disorder characterized by recurrent derangement of the nervous system due to sudden excessive disorderly discharge from the cerebral neurons (Kabir *et al.*, 2005). It is the second most common neurological disorder attended to by neurologists (Sridharan, 2002). The estimated

prevalence of epilepsy in Nigeria is 8 to 13 per thousand people (Azubuike and Nkanginieme, 1996). About 30% of epilepsy is refractory to treatment (WHO, 2001). Many people in developing countries may not receive basic treatment due to high cost, unavailability and untoward effects associated with the available

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