



HEB

Journal of Hospital Pharmacy
An Official Publication of Bureau for Health & Education Status Upliftment
 (Constitutionally Entitled As Health-Education, Bureau)

JOHP

ANTI EPILEPTIC ACTIVITY OF ETHYL ACETATE EXTRACT BARKS OF *CASSIA FISTULA* Linn. (Caesalpiaceae) ON EXPERIMENTAL ANIMALS

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ABSTRACT


Aim and Objective: To study the antiepileptic activity of ethyl acetate extract of Cassia fistula in albino mice.

Methods : The Assessment of in-vitro Antioxidant activity and the in-vivo antiepileptic activity of ethyl acetate extract bark of Cassia fistula (200 and 400 mg/kg, p.o.) in mice was assessed by using of DPPH Method , Nitric acid scavenging method and maximum electroshock seizure (MES) test, Pentylentetrazole (PTZ) respectively.

Results: The ethyl acetate extract of Cassia fistula shows the maximum percentage of inhibition on in-vitro antioxidant methods. The ethyl acetate extract of Cassia fistula significantly reduced the duration of seizures which induced by maximal electroshock (MES). The ethyl acetate extract in doses of 200 and 400 mg/kg proved the protection (54% and 74% respectively) on the mice. The above mentioned doses also protected animals from Pentylentetrazole-induced tonic seizures and significantly delayed the onset of tonic seizures.

Conclusion: The ethyl acetate extract of Cassia fistula (EACF) possess good Antioxidant activity and Antiepileptic activity since it reduced the duration of seizure Produced by maximal electroshock and delayed the latency of seizures produced by Pentylentetrazole.

Key words: Antiepileptic activity, *Cassia fistula*, MES, PTZ, Antioxidant activity.

Access this Article Online	Quick Response Code: 
Website: http://www.journalofhospitalpharmacy.in	
Received on 04/11/2020	
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