

ABSTRACT

Epilepsy (Convulsion) is a universal neuro logical disease touching a predictable 40-50 million of population worldwide. Convulsions continue to live a next most widespread neuro logical disease following caress pending safe medicines by better anti convulsant and anti-epilepto genic efficiency. At present obtainable medicines be unsuccessful to give sufficient manage of epileptics seizure in concerning 1/3rd of patient and don't stop progress epilepto genic change. As per mention in traditional medicine systems, plant *Boswellia serrata* Roxb, having usefulness in convulsion. In attendance learn approved to assess anti convulsant action boswellics acid (BA) inaccessible as of oleogumresin of *Boswellia serrata* in rats and mice. 03 dissimilar doses of BAs viz., 50, 100 and 200 mg/kg, were deliberate alongside the maximals electroshock seizures (MES), pentylenetetrazole (PTZ) & picrotoxin (PCT) - induced convulsion. Similar doses of BA were also used for thiopentals Na- induced sleep occasion in mices. Phenytoin sodium (PS) and diazepam (DZ) were second-hand as an orientation regular in MES and PTZ- induce convulsions respectively. The present study exposed so as to BAs possesses doses dependents anti convulsant action through considerably lessening the period of hind limb tonic extension (HLTE) and growing the latency of HLTE as compare to manage ($p < 0.001$) in MESs replica. In the PTZ test, BAs show important anti convulsant action through holdup in latency of HLTE ($p < 0.001$) within doses of 200 mg/kg. There was no significant protective effect observed in PCT-induced convulsion at any doses of BAs. Furthermore, BAs show considerably protracted the period of latent ($p < 0.001$) in thiopentals sodiums-induced sleep times. Therefore, it is finished that the BAs possesses strong anti convulsant action next to the chemical as well as electrically induce convulsion within experimentals animal, which ropes the ethnomedicinal maintain of the place in the organization of convulsion. The present results suggested that BAs containing marketed formulation is also being useful for the organization of epileptic seizures.

Keyword: Anticonvulsant; Boswellic acids; *Boswellia serrata*; phyto chemical showing; Marketed formulation; Maximal electroshock; Pentylenetetrazole