Efektivitas antiepilepsi ekstrak pegagan (Centella asiatica (L.) Urb. dalam etanol, diklorometana dan heksan pada mencit putih jantan menggunakan metode MES (Maximum Electroshock Seizure)

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Abstract

Epilepsy is a neurologic disturbance with quite high number of incident and the therapy given so far through synthetic medication in long term period causes the occurrence of side effects to the casualty. Hence, an alternative is needed in curing epilepsy by using traditional medication, like Centella asiatica. Research on the effect of anti-epilepsy of Centella asiatica herb (Centella asiatica (L.) Urb.) extracted by using different polarity solvent has the purpose to find out the use of anti-epilepsy of Centella asiatica herb toward male of white mice (Mus musculus) by using electrical induction method Maximum Electroshock Seizure. Each category of this research used 60 mice which were divided into 3 groups: control group (10 mice), comparison group (10 mice) and test group (40 mice). The control group was given CMC-Na suspension 0,5 %, the comparison was given Phenytoin-Na (13mg/kgBW mice) and the test group was given ethanol, dichloromethane and hexane extract suspension of Centella asiatica with the dosage of 300 mg/kg BW white mice, 600 mg/kg BW white mice, 900 mg/kg BW white mice, and 1000 mg/kg BW white mice. All suspension was given orally and was waited for 30 minutes before the mice were given electrical induction. Anti-epilepsy effect was marked with the decrease of tonic, clonic, and tonic-clonic seizure time. Based on statistic data analysis with Anova One way, Centella asiatica in the form of ethanol,dichloromethane and hexane extract has the anti-epilepsy effect toward male white mice which were inducted by Maximum Electroshock Seizure. Keywords: Centella asiatica (L.) Urb., Different polarity solvent, MES Anti-epilepsy