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摘要:

目的:观察红藻氨酸(KA)致痫大鼠海马caspase-3表达情况。探讨神经生长因子(NGF)和托吡酯(TPM)对KA致痫大鼠脑神经细胞的保护作用。方法:60只日龄25—35天健康大鼠随机分成4组(n=15只):A组(正常NS对照组),B组(KA致痫模型对照组),C组(TPM治疗组),D组(TPM和NGF联合治疗组)。分别于KA注射后第1d,3d,7d将各组动物处死5只,常规方法灌注固定,制作冰冻切片,用免疫组化方法检测大鼠海马caspase-3的表达情况,HPIAS-2000显微图像定量分析系统进行定量分析。结果:TPM和NGF联合治疗组(D组)大鼠海马caspase-3阳性神经元计数和平均光密度值与B组相同时间点相比表达明显减少,有显著性差异(P<0.05)。与TPM治疗组(C组)相同时间点相比表达亦均有明显减少,并有显著性意义(P<0.05)。结论:TPM能抑制癫痫大鼠海马caspase-3的表达,与NGF联用有协同作用。

关键词: [癫痫](#) [caspase-3](#) [神经生长因子](#) [托吡酯](#)

Effect of nerve growth factor and topiramate on the expression of caspase-3 in the hippocampus in rats with kainic acid induced seizures [Download Fulltext](#)

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Abstract:

Objective: To observe the expression of caspase-3 in hippocampus of epileptic rat induced by kainic acid(KA),and explore the neuroprotective effect of Topiramate(TPM) and nerve growth factor(NGF) to epileptic rat induced by kainic acid.Method: Sixty healthy age from 25 to 35 days rats were randomly divided into 4 groups(n=15): normal sodium(NS) treated as control group(A),KA treated as model group(B),TPM treated as group C,combination of NGF and TPM handled as group D.Five rats in each group were sacrificed by perfusion with Polyoxymethylene respectively on the 1st day,3rd day and 7th day after injection of KA and frozen section were made.The expression of caspase-3 in hippocampus of rats were indicated by immunohistochemical method and quantified by HPIAS-2000.Result: In the same time,the expression of caspase-3 in group D decreased remarkably compared with group B and C(P<0.05).Conclusion:TPM can inhibit the expression of caspase-3 caused by epileptic seizure in rat.Combination of TPM and NGF have synergistic effect.

Keywords: [epilepsy](#) [caspase-3](#) [nerve growth factor](#) [topiramate](#)

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