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于方1 , 拓西平1* ,吕建勇1, 陈海生2. 华中五味子酮对阿尔茨海默病样大鼠学习记忆功能及海马区核因子kB、诱导型一氧化氮合酶表达的影响 [J]. 第二军医大学学报, 2007, 28 (12):1351-1355

华中五味子園对阿尔茨海默病样大鼠学习记忆功能及海马区核因子kB、诱导型一氧化氮合酶表达的影响。点此下载全文

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植要:

目的:观察华中五味子酮(Schisandrone)对阿尔茨海默病(Alzheimer's disease,AD)样大鼠学习记忆及海马区核因子kB(nuclear factor-kB)、诱导型一氧化氮合酶(inducible nitric oxide synthase,iNOS)表达的影响,探讨华中五味子酮对AD可能的防治作用。方法:30只雄性SD大鼠随机分为空白对照组、AD模型组和华中五味子酮干预组3组,每组各10只。采用侧脑室立体定向注射β淀粉样蛋白(anyloid-beta protein,AB)25-35的方法,建立AD的动物模型;华中五味子酮干预组采用华中五味子酮罹胃进行药物干预,空白对照组注射生理盐水。通过Morris水迷宫检测大鼠学习、记忆能力,通过免疫组化法观察大鼠海马区MF-kB及iNOS。结果;华中五味子酮干预组大鼠短期学习记忆能力较AD样大鼠有明显改善(PO. 05),海马区MF-kB及iNOS的表达较AD样大鼠明显减少(PO. 05),海马区MF-kB及iNOS的表达较AD样大鼠明显减少(PO. 05),海马区MF-kB及iNOS的表达较AD样大鼠明显减少(PO. 05)。结论:华中五味子酮干预组分的表达较AD样大鼠明显减少(PO. 05)。结论:华中五味子酮可能通过影响MF-xB信号转导通路而抑制AB诱导的氧化应激和炎性反应,在AD发病中具有保护作用。

关键词:阿尔茨海默病 核因子地 诱导型一氧化氮合酶 华中五味子酮 迷宫学习

Schisandrone improves learning and memory abilities of Alzheimer-like rats and influences expression of MF-K
B, iMOS in rat hippocampus Download Fulltext

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Fund Project:

Abstract:

Objective: To investigate the influence of Schisandrone on the learning and memory abilities of rats with Alzheimer-like disease and on the expression of NF-KB, iNOS in rat hippocampus, so as to study the prevention effect of Schisandrone on Alzheimer disease (AD). Methods: Totally 30 male SD rats were evenly randomized into 3 groups: blank control group, AD model group and Schisandrone intervention group. The AD animal model was established by stereotactic injection of Aβ25-35 into lateral cerebral ventricle of rats; the rats in Schisandrone intervention group were administrated with Schisandrone. The learning and memory abilities of animals were determined by Morris water maze; the expression of NF-KB, iNOS in the hippocampus was detected by immunohistochemistry. Results: The learning and memory abilities of rats in the Schisandrone intervention group were significantly improved compared with those in the AD model group (Y<0.05). The expression of NF-KB and iNOS in the hippocampus was significantly decreased in the Schisandrone group than in the AD model group (Y<0.05). The expression of NF-KB and iNOS in the hippocampus was positively correlated with each other. The correlation coefficients for the blank control, AD model and Schisandrone intervention groups were 0.639,0.658 and 0.682, respectively (all P<0.05). Conclusion: Schisandrone can suppress the Aβ-induced oxidative stress and inflammatory reaction through influencing NF-KB signaling pathway, exerting its protective effect on AD.

Keywords: Alzheimer disease nuclear factor-kappa B inducible nitric oxide synthase schisandrone maze learning

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