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论著

脑灵汤对阿尔茨海默病模型大鼠海马CA3区域iNOS蛋白表达的影响

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摘要：

目的：探讨脑灵汤对阿尔茨海默病（AD）模型大鼠海马CA3区iNOS蛋白表达的影响，初步揭示脑灵汤可能的作用机制。方法：选取40只SPF清洁级SD大鼠，随机分为正常对照组、假手术组、AD组、脑灵汤组和脑复康组，每组8只，喂养1周后，采用Aβ1-42注射大鼠海马法制成大鼠模型,再喂养28 d，免疫组织化学法观察iNOS蛋白在大鼠海马CA3区中的表达。结果：AD组大鼠海马CA3区iNOS蛋白表达较正常对照组增多(P<0.05)，脑灵汤治疗后iNOS蛋白的表达降低。 结论：脑灵汤能明显改善AD模型海马CA3区iNOS表达，对老年性痴呆大鼠有治疗作用。

关键词： 阿尔茨海默病 &beta 淀粉样肽 脑灵汤 iNOS 大鼠

Effect of Naoling decoction on iNOS expression in hippocampal CA3 region in rats with synthetic Alzheimer’s disease

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Abstract:

ObjectiveTo observe the effect of Naoling decoction on the expression of iNOS in hippocamal CA3 region in rats with Alzheimer’s disease (AD), and to explore the potential mechanism. MethodsForty SD rats were classified into 5 groups: a normal group, a sham-operated group, an AD group, a Naoling decoction group, and a Naofukang group. The Alzheimer’s disease model was established by injecting Aβ1-42 into the hippocamal in the rats. Expression of iNOS in the CA3 region was measured with immunohistochemical staining. Results Compared with the normal group, the expression of iNOS protein in the hippocampal CA3 fields in the AD group increased (P<0.05). Naoling decoction decreased the iNOS expression. ConclusionNaoling decoction can significantly reduce the expression of iNOS in the AD model rats, suggesting that Naoling decoction can be used for AD rats.

Keywords: Alzheimer’s disease;β-amyloid polypeptide;Naoling decoction;iNOS;rat

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