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加味温胆汤对抑郁模型大鼠学习记忆能力及海马cAMP-PKA途径的影响 [点此下载全文](#)

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摘要:

目的: 探讨加味温胆汤对抑郁模型大鼠学习记忆能力及海马信号转导cAMP-PKA途径的影响。方法: 32只SD大鼠随机分为正常组、模型组、盐酸氟西汀组及加味温胆汤组, 每组8只, 应用孤养加慢性轻度不可预见性应激方法造模, 采用Morris水迷宫实验测试大鼠空间学习记忆能力、放射免疫法测定海马cAMP含量, 以及免疫组化SABC法测定海马区PKA蛋白表达水平。结果: 模型组大鼠学习记忆能力显著下降($P<0.01$), 海马cAMP含量增加($P<0.05$)、PKA表达显著减少($P<0.01$)。中、西药组与模型组比较, 学习记忆能力增强($P<0.05$), cAMP含量下降($P<0.05$), PKA蛋白表达显著上升($P<0.05$)。结论: 加味温胆汤可增强抑郁症大鼠学习与记忆能力, 其影响机制可能与海马信号转导cAMP-PKA途径有关。

关键词: [抑郁症](#) [加味温胆汤](#) [学习记忆](#) [环化腺苷酸](#) [蛋白激酶A](#)

Effects of Jiawei Wendan decoction on learning and memory and cAMP-PKA pathway of hippocampal signal transduction in rats model of depression [Download Fulltext](#)

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Abstract:

Objective: To observe effects of Jiawei Wendan decoction on learning and memory and cAMP-PKA pathway of hippocampal signal transduction in depressive rat models. Method: Depressive rat model was established by separation and chronic unpredictable mild stress. Thirty-two SD rats were selected and randomly divided into normal group, model group, Prozac group and Jiawei Wendan decoction group with 8 rats in each group. All rats were tested for spatial learning and memory in Morris water maze. Contents of cAMP were detected by radio-immunity assay, and the expression of PKA in CA3 region of the hippocampus was assayed by using immunohistochemical method. Result: Scores of spatial learning and memory lowered remarkably in model group, contents of cAMP increased and expressions of PKA remarkably reduced in hippocampus of model rats ($P<0.01$). Compared with model group, scores of spatial learning and memory increased obviously ($P<0.05$), contents of cAMP reduced ($P<0.05$) and expressions of PKA increased in drugs groups ($P<0.05$). Conclusion: These results indicate that Jiawei Wendan decoction can enhance the hippocampus-dependent spatial learning and memory function, and cAMP-PKA pathway of hippocampal signal transduction may participate in the mechanism of enhanced performance.

Keywords: [depression](#) [Jiawei Wendan decoction](#) [learning and memory](#) [cyclic adenosine monophosphate](#) [protein kinase A](#)

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