

论著

## 加味四逆散对慢性束缚应激大鼠海马部分氨基酸含量的影响

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**摘要** 目的: 观察加味四逆散对慢性束缚应激大鼠海马部分氨基酸含量的影响。方法: 大鼠随机分为3组: 正常对照组、模型组、加味四逆散组。采用OPA高效液相色谱分析法检测海马氨基酸含量。结果: 模型组海马谷氨酸(Glu)、天冬氨酸(Asp)含量明显高于正常对照组( $P < 0.01$ ),  $\gamma$ -氨基丁酸(GABA)和牛磺氨酸(Tau)含量明显低于正常对照组( $P < 0.01$ 或 $P < 0.05$ ); 加味四逆散组Glu、Asp明显低于模型组( $P < 0.05$ ), GABA和Tau含量变化不明显。结论: 加味四逆散能调节慢性束缚应激反应海马部分氨基酸水平, 防止兴奋性氨基酸的神经毒性作用。

**关键词** [加味四逆散](#); [应激](#); [海马](#); [氨基酸](#)

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## Effect of Jiawei sinisan on the levels of some amino acids in hippocampus of rats with chronic stress

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### Abstract

<FONT face=Verdana>AIM: To observe the effect of Jiawei sinisan (JWSNS) on some amino acids in hippocampus of rats with chronic stress. METHODS: Wistar rats were randomly divided into 3 groups: control, model and JWSNS group. OPA (HPLC) was adopted to detect the contents of amino acids in hippocampus. RESULTS: The contents of Glu and Asp in hippocampus of model group increased significantly ( $P < 0.01$ ), while the contents of GABA and Tau decreased significantly ( $P < 0.01$  or  $P < 0.05$ ). In JWSNS group, the contents of Glu and Asp decreased significantly, although GABA and Tau was no significant difference compared with the chronic stress group. CONCLUSION: JWSNS regulates the levels of amino acids in hippocampus during chronic stress, which prevents the neuro-toxicity of excitatory amino acids.</FONT>

**Key words** [Jiawei sinisan](#) [Stress](#) [Hippocampus](#) [Amino acid](#)

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