

## 双氢青蒿素对AA大鼠外周血T淋巴细胞的调节作用

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**中文摘要:**目的:探讨双氢青蒿素对佐剂性关节炎(AA)大鼠外周血T细胞的调节作用。方法:采用佐剂性关节炎动物模型,将体重160~180 g的SD大鼠随机设为6组:正常对照组、模型对照组、甲氨蝶呤对照组(1 mg · kg<sup>-1</sup>)、双氢青蒿素高、中、低剂量(1.2,5.6,2.8 mg · kg<sup>-1</sup>)组,造模2周后灌胃给药,连续给药28 d,并采用流式细胞术检测外周血T淋巴细胞亚群、酶联免疫法检测血清白介素-4(IL-4)、干扰素-γ(IFN-γ)的水平。结果:相较于正常组,模型组外周血CD4<sup>+</sup>T,CD4<sup>+</sup>T/CD8<sup>+</sup>T和血清IFN-γ水平显著升高( $P<0.01$ ),血清IL-4水平显著降低( $P<0.01$ ),CD3<sup>+</sup>T,CD8<sup>+</sup>T则无明显变化;高、中剂量双氢青蒿素组CD4<sup>+</sup>T所占百分比分别是(34.81±3.80)%,(34.92±5.14)%,CD4<sup>+</sup>T/CD8<sup>+</sup>T分别是2.21±0.43,2.27±0.48,与模型组相比显著降低( $P<0.05$ , $P<0.01$ );双氢青蒿素高、中、低剂量组血清INF-γ水平分别是(15.90±2.05),(16.27±2.11),(18.15±2.15) ng · L<sup>-1</sup>,与模型组相比显著降低( $P<0.01$ );IL-4水平分别是(40.21±4.89),(40.04±4.56),(34.81±4.02) ng · L<sup>-1</sup>,与模型组相比显著升高( $P<0.01$ ),其调节作用在2.8~5.6 mg · kg<sup>-1</sup>范围呈剂量依赖性( $P<0.05$ )。结论:双氢青蒿素能有效改善AA大鼠T细胞功能紊乱状况,为其应用于类风湿关节炎治疗奠定实验基础。

中文关键词:[双氢青蒿素](#) [T淋巴细胞](#) [佐剂性关节炎](#)

## Effect of Dihydroartemisinin on Immune-regulation of T-lymphocytes from Peripheral Blood in AA Rats

**Abstract: Objective:** To study the effect of dihydroartemisinin on immune-regulation of T-lymphocytes from peripheral blood in adjuvant-induced arthritis (AA) rats. **Method:** Sprague Dawley rats with a mean weight of 160-180 g were randomly divided into 6 groups, including normal group, AA model group, methotrexate group(1 mg · kg<sup>-1</sup>),dihydroartemisinin high-dose, medium-dose and low-dose group(11.2,5.6,2.8 mg · kg<sup>-1</sup>). The rat adjuvant arthritis model were induced. The drugs were administrated by ig for consecutive 28 days after inducing AA model. T-lymphocyte in peripheral blood was detected by flow cytometry,and the levels of interferon-γ(INF-γ) and interleukin-4(IL-4) in serum were measured by ELISA on AA animal model treated bydihydroartemisinin. **Result:** Compared with the normal group, the ratio of CD4<sup>+</sup>T, CD4<sup>+</sup>T/CD8<sup>+</sup>T from peripheral blood in model group and IFN-γ levels in serum were significantly increased( $P<0.01$ ),and the levels of IL-4 were significantly decreased ( $P<0.01$ ).In high and medium dose group, the percentages of CD4<sup>+</sup>T was (34.81±3.80)%,(34.92±5.14)%,the ratio of CD4<sup>+</sup>T/CD8<sup>+</sup>T was 2.21±0.43,2.27±0.48,respectively,compared with model group they were significantly decreased( $P<0.05$ , $P<0.01$ ).In dihydroartemisinin three dose group, the levels of INF-γ were (15.90±2.05),(16.27±2.11),(18.15±2.15) ng · L<sup>-1</sup>, and the levels of IL-4 were (40.21±4.89),(40.04±4.56),(34.81±4.02) ng · L<sup>-1</sup>,compared with the model group they had significant changes( $P<0.01$ ).For IL-4,dihydroartemisinin's effect showed a dose-dependent manner at concentrations between 2.8-5.6 mg · kg<sup>-1</sup>( $P<0.05$ ). **Conclusion:** Dihydroartemisinin could effectively improve the immunity mess in T-lymphocytes from peripheral blood in AA rats, which is useful for curing rheumatoid arthritis.

**keywords:**[dihydroartemisinin](#) [T-lymphocytes](#) [AA](#)


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