

滋补脾阴方药对大鼠脊髓损伤后低氧诱导因子-1 α 表达的影响

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中文摘要:目的:探讨滋补脾阴方药(ZibuPiyinRecipe,ZBPYR)对大鼠脊髓损伤(spinalcordinjury,SCI)的治疗效果以及对低氧诱导因子(hypoxia-inducible factor,HIF)-1 α 的表达的影响。方法:将清洁级Wistar大鼠36只随机分为假手术组、阳性对照组(喜得镇组,0.6mg·kg⁻¹)、SCI组和ZBPYR低、中、高剂量组(分别为7,14,21g·kg⁻¹)。各组大鼠分别于伤后72h处死,并用Western-blot和RT-PCR方法检测HIF-1 α 和HIF-1 α mRNA的表达。结果:伤后72h,HIF-1 α 和HIF-1 α mRNA在SCI组的表达量显著高于假手术组、ZBPYR低、中、高剂量组和阳性对照组,差异具有统计学意义($P<0.05$);HIF-1 α 和HIF-1 α mRNA的表达在ZBPYR低、中、高剂量组间的差异具有统计学意义($P<0.05$)。结论:ZBPYR可改善受损脊髓局部微环境的缺血缺氧程度来抑制SCI后继发性损伤的发生和发展,其作用效果具有浓度依赖性。

中文关键词:[脊髓损伤](#) [滋补脾阴方药](#) [低氧诱导因子-1 \$\alpha\$](#) [Western-blot](#) [RT-PCR](#)

Influence of Zibu Piyin Recipe on Expression of Hypoxia Inducible Factor-1 α after Spinal Cord Injury in Rats

Abstract: Objective: To study the effect of Zibu Piyin Recipe (ZBPYR) on spinal cord injury and the influence on expression of hypoxia inducible factor(HIF) -1 α . **Method:** Thirty-six adult Wistar rats were divided into six groups randomly: sham operated group, positive control group(hydergin, 0.6 mg·kg⁻¹), ZBPYR low, middle and high dose group(7,14,21 g·kg⁻¹), SCI group. The rats were killed at 72 h post-injury. The expression of HIF-1 α and HIF-1 α mRNA was detected with RT-PCR and Western-blot assay. **Result:** At 72 h post-injury, the expression of HIF-1 α and HIF-1 α mRNA in SCI group were higher than that in the other groups ($P<0.05$), and the expression of HIF-1 α and HIF-1 α mRNA in ZBPYR high, middle and low dose group were different statistically ($P<0.05$). **Conclusion:** The ZBPYR could improve the function of neurons though improving oxygen-deficiency in local spinal cord tissue after injury.

keywords: [spinal cord injury](#) [Zibu Piyin Recipe](#) [hypoxia inducible factor-1 \$\alpha\$](#) [Western-blot](#) [RT-PCR](#)

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