

## 生脉注射液对青春前期大鼠睾丸扭转/复位对健侧睾丸的远期影响

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中文摘要:目的:观察青春前期大鼠睾丸单侧扭转复位后对健侧睾丸的远期影响,并探究生脉注射液对其的保护作用。方法:5周龄健康SD雄性大鼠24只,随机分为生脉注射液组(实验组),生理盐水组(对照组)和假手术组,每组8只,建立左侧睾丸扭转复位模型,术后7周取健侧睾丸及附睾,分别测定睾丸质量和附睾尾中精子活率,睾丸组织内超氧化物歧化酶(SOD),一氧化氮合酶(NOS)活性和丙二醛(MDA)含量。结果:与对照组比较,实验组和假手术组健侧睾丸质量与精子活率,睾丸组织中SOD活性显著升高( $P<0.05$ ),NOS活性和MDA含量显著下降( $P<0.05$ )。实验组与假手术组比较,健侧睾丸精子活率与睾丸质量下降,健侧睾丸组织中SOD活性降低,NOS活性和MDA含量升高,但均无统计学意义。结论:青春前期大鼠单侧睾丸扭转复位后可致健侧睾丸损伤,生脉注射液对青春前期大鼠睾丸扭转复位后健侧睾丸损伤远期效果具有一定的保护作用。

中文关键词:[生脉注射液](#) [睾丸扭转](#) [青春前期大鼠](#) [健侧睾丸](#)

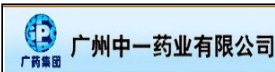
### Long-term Effects of Shengmai Injection on Contralateral Testis with Unilateral Testicular Torsion/Detorsion in Prepubertal Rats

**Abstract:**Objective: To observe long-term effects of contralateral testis with unilateral testicular torsion/detorsion in prepubertal rats, and investigate the protective effect of Shengmai injection on it. Method: Twenty-four healthy male SD rats aged 5 weeks were equally randomized into a Shengmai injection group (experimental group), saline group (control group) and a sham operation group, 8 rats per group. The rats with testicular torsion were killed after 7 weeks of surgery and excised their right testes and epididymides immediately for the measurement of superoxide dismutase (SOD), nitric oxide synthase (NOS) activity and malondialdehyde (MDA) content in the testis, the weights of testis and the sperm motility in epididym. Result: Compared with the controls, the experimental group and the sham operation group exhibited a remarkable increase in the weights, the sperm motility, SOD activity ( $P<0.05$ ) and an obvious decrease in NOS activity, MDA content ( $P<0.05$ ). Compared with the sham operation group, the experimental group showed no significant changes in the sperm motility, the weights of testis, SOD, NOS activity and MDA content. Conclusion: The contralateral testis of prepubertal rats can be damaged after unilateral testicular torsion/detorsion. Shengmai injection has the long-term protective effect role in prepubertal rat testicular injury after torsion/detorsion.

**keywords:** [Shengmai injection](#) [testicular torsion](#) [prepubertal rats](#) [contralateral testis](#)

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