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苦碟子注射液对青春前期大鼠睾丸扭转复位健侧睾丸的远期影响

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

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中文摘要:

目的 探讨苦碟子注射液对青春前期大鼠睾丸扭转复位后健侧睾丸的远期影响及其保护作用。方法 将32只4周龄健康SD♂大鼠随机分为4组：假手术组、模型组、苦碟子单次给药组和苦碟子连续给药组，每组8只。建立单侧睾丸扭转复位动物模型，术后8周取健侧睾丸，计算睾丸系数，检测睾丸组织总抗氧化能力(T-AOC)、超氧化物歧化酶(SOD)、一氧化氮合酶(NOS)活性与丙二醛(MDA)含量，行睾丸组织病理学观察。结果 与假手术组比较，模型组SOD、T-AOC、NOS活性均下降，MDA含量升高(P<0.05)。与模型组比较，连续给药组SOD、T-AOC、NOS活性均升高，MDA含量下降(P<0.05)。模型组可见生精小管退变，间质出现水肿，2个给药组使睾丸扭转复位诱发的组织学改变明显改善。结论 青春前期大鼠单侧睾丸扭转复位后可致健侧睾丸缺血再灌注损伤，苦碟子注射液可通过有效清除氧自由基，抑制脂质过氧化反应，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，且连续给药明显优于单次给药。

英文摘要:

OBJECTIVE To observe long-term effects of Kudiezi injection on contralateral testis with unilateral testicular torsion/detorsion in prepubertal rats, and investigate the protective effect of Kudiezi injection on it. METHODS Thirty-two four-week-old healthy male SD rats were divided into four groups randomly: sham operation group, model group, once injection of Kudiezi group and continuous injection of Kudiezi group(n=8). Animals were submitted to unilateral 720° testicular torsion, then detorsion were done in 2 h. The rats were killed after 8 weeks of surgery and excised their right testes for testicular coefficient calculation, the measurement of T-AOC, SOD, NOS activity and MDA content in the testis and tissue histopathological examinations were drawed. RESULTS Compared with the sham operation group, the model group exhibited a remarkable decrease in SOD, T-AOC, NOS activity and an obvious increase in MDA content(P<0.05). Compared with the model group, the continuous injection group exhibited a significant increase in SOD, T-AOC, NOS activity, and an obvious decrease in MDA content(P<0.05). Interstitial edema and degeneration of seminiferous tubules were observed in the model group. Testicular tissues in injection of Kudiezi group showed an improved histological morphology. CONCLUSION The contralateral testis of prepubertal rats can be damaged after unilateral testicular torsion/detorsion. Kudiezi injection has the long-term protective effect in prepubertal rat testicular injury after torsion/detorsion through effective scavenging oxygen free radicals, inhibition of lipid peroxidation, and the effect of the continuous injection group is better than the once injection group.

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