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小檗碱对早期糖尿病肾病大鼠肾组织TGF-β1/SnoN表达失衡及其Smad信号通路的调控作用

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中文关键词: $\underline{小檗碱}$  <u>糖尿病肾病</u>  $\underline{TGF-\beta 1}$   $\underline{SnoN}$   $\underline{Smad信号通路}$ 

Regulatory effect of berberine on unbalanced expressions of renal tissue TGF-β1/SnoN and Smad signaling pathway in rats with early diabetic nephropathy

Abstract:Objective: To investigate the effect of berheine (BBR) on unbalanced expression of renal tissue TGF-JI/SnoN and Smad signal pathway in rats with early diabetic nephropathy (DN), and discuss BBR's effect on DN rats with early diabetic nephropathy and its possible mechanism. Method: DN rat model were established by injecting streptozotorin (STZ). The rats were divided into six groups: the control group, the model group, three BBR (S), 100, 200 mg·kg³) treatment groups and the enalapril treatment group. They were orally administered once a day for five weeks. The fasting blood glucose (FBG), blood urea nitrogen (BUN), serum creatinine (SPC), unitary protein (24 h Upro) and urinary microalbumin (24 h UmAlb) were tested. The pathological changes in renal tissues were examined by optical microscopy, Immunohistochemical measures were used to detect the expressions of TGP-JJ. SnoN, Snad2? and Snad2? and Snad2 protein, and RT-PCR was used to detect TGF-JJ mRNA in renal tissues. Result: Compared with the model group, BBR-treated groups showed significant to retain the decrease in FBG, BUN, Sr.; 24 h Upro, 24 h UmAlb, TGF-JJ protein, mRNA and Snad2? protein, abnormal morphological improvement in renal tissues, and notable increase in the expressions of SnoN and Smad2 protein. Conclusion: BBR can maintain the dynamic balance in TGF-JJ/SnoN, expression in renal tissues through Smad signaling pathway, so as to mitigate renal functional disorder in DN rats and delay DN and its development.

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