Abstract


[Effects of soy bean isoflavone on inhibition of benign prostatic hyperplasia and the expressions of NO and NOS of rats].
[Article in Chinese]
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Abstract

OBJECTIVE: To explore the inhibitive effect of soybean isoflavone on the prostatic hyperplasia on the expressions of nitric oxid and nitric oxide synthase in the prostatic hyperplasia rats.

METHODS: Subcutaneously injected testosterone propionate were to induce prostate hyperplasia in rats. The changes of prostate wet weight, prostatic index, liver index, the changes of some biochemical indexes in rat prostate tissue in the control and the treatment, the low, moderate, high dose groups of soybean isoflavone groups were observed.

RESULTS: The prostate wet weight and prostatic index in all dose groups were merely lower than those in the treatment and the moderate groups were lowest in all dose group. There were no significant differences in liver index, urea nitrogen, glutamic-pyruvic transaminase of each group. Acid phosphatase, prostatic acid phosphatase and lactate dehydrogenase in all dose groups were merely lower than those in the treatment group. Nitric oxide and nitric oxide synthase in all dose groups were merely higher than those in the treatment group.

CONCLUSION: Soybean isoflavone could inhibit prostate hyperplasia and increase the expressions of nitric oxide and nitric oxide synthase in rats.

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