Influence of huangqi injection on antioxidant capacity and vascular elasticity of patients with renal hypertension

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View from specialist: It is creative, and of certain scientific and educational value.

[ABSTRACT] Objective: To observation the effect of huangqi injection on antioxidant capacity and vascular elasticity of patients with renal hypertension. Methods: A total of 180 cases with renal hypertension were randomly divided into control group and observation group by hale. Patients in control group were treated with conventional antihypertensive therapy, and those in observation group were treated by conventional antihypertensive therapy combined with huangqi injection. Then the clinical efficacy indexes such as blood pressure, serum creatinine, 24 h urine protein quantity of two groups before and after treatment were detected and compared, and the indexes of antioxidant ability such as the serum levels of malondialdehyde (MDA), superoxide dismutase (SOD), nitric oxide (NO) and nitric oxide synthase (NOS) and the indexes of blood vessel elasticity such as pressure strain elastic coefficient (Ep), stiffness (beta), single point of pulse wave velocity (PWV beta) and compliance (AC) were compared too. Results: After 10, 20 days of treatment, the systolic blood pressure, diastolic blood pressure, serum creatinine, 24 h urine protein quantity of observation group were lower than control group; the serum level of MDA of observation group was lower than control group, while the levels of SOD, NO and NOS were significantly higher than that of control group; and the carotid elasticity parameters such as Ep, PWV beta, beta of observation group were all bigger than control group (all P<0.05). Conclusions: Huangqi injection combined with Western medicine can effectively increase the antioxidant capacity, promote the blood vessel elasticity, then lower blood pressure and improve renal injury.

[KEY WORDS] Renal hypertension; Huangqi injection; Antioxidant; Vascular elasticity