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Homeopathic medicine Rauwolfia serpentina ameliorate blood pressure and oxidative stress parameters of kidney by modulating expression of antioxidant enzymes in …

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Description In the present study, effects of homeopathic medicine Rauwolfia serpentina (Q, 30c and 6c) were investigated on blood pressure, heart rate, serum biochemical parameters, oxidative stress indices and expression levels of antioxidant defence enzymes in the kidney of deoxycorticosterone acetate (DOCA)-salt-induced hypertensive uninephrectomized male rats. Administration of R. serpentina to hypertensive rats resulted in reduction of systolic and diastolic blood pressure. Elevated serum sodium level in hypertensive rats were reduced in response to 30c and 6c potencies of the drug. Serum potassium level was decreased in response to Q and 30c, albeit its level was increased after administration of 6c potency of the medicine. Elevated serum levels of aspartate aminotransferase (AST) and lactate dehydrogenase (LDH) of hypertensive rats were lowered in response to various potencies of the medicine. Serum glucose level was decreased and creatinine level was increased in the hypertensive rats in response to 6c potency of the medicine. Increased levels of lipid peroxidation in the kidney of hypertensive rats were restored to control value in response to all potencies of the medicine. On the other hand, elevated protein carbonyl content in the post mitochondrial fraction (PMF) of the kidney in hypertensive rats was decreased in response to 30c. However, in mitochondrial fraction (MF) it was decreased in response to the potencies, Q and 30c. Transcript level of Superoxide dismutase1 (SOD1) in the study of hypertensive rats was elevated in response to the medicine without any alteration in the level of translated products, except in case of 6c …

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