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Hypoglycemic Effect of *Salvia officinalis* L. Extracts on Induced Diabetic Rabbits

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Abstract: This study investigated the hypoglycemic effect of *Salvia officinalis* L. extracts on diabetic Rabbits induced by alloxan and estimated of some biochemical parameters related to oxidative stress. Three groups of six rabbits were used in this study. Group 1 received normal saline orally and considered as a control group, Group 2 was a diabetic group which received a single dose of alloxan 100mg/kg b.w (i.p) and Group 3 was a treatment group, received alloxan (100mg/kg b.w.) then treated with 500mg/kg b.w orally of hot extract for four weeks every day. Some parameters such as Glucose-6-phosphate dehydrogenase, malondialdehyde (MDA) and lipid peroxidation were measured as well as the blood glucose levels. *Salvia officinalis* L. hot extract has decreased blood glucose levels and increased the activity of glucose-6-phosphate dehydrogenase in the group 3 compared to the group 2. While the study improved that MDA and lipid peroxidation levels were lower in the treatment group compared with diabetic group.

Keywords: *Salvia officinalis*, Alloxan, Diabetes Mellitus, Glucose-6-phosphate dehydrogenase, Lipid Peroxidation, Malondialdehyde.

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