



International Journal of ChemTech Research

CODEN(USA): IJCRGG, ISSN: 0974-4290, I

ISSN(Online):2455-9555 Vol.10 No.10, pp46-54,2017

## The Effect of Walnut Oil, Septum and leaves aqueous extract in Alloxan-Induced Diabetic rats

## Susankhosroyar<sup>1</sup>\*, Shima ghofranpour<sup>2</sup>

Chemical engineering Department, Quchan branch, Islamic Azad university, Quchan, Iran.

**Abstract:**The aim of the present study was to evaluate the effects of walnut oil, septum and leaves aqueous extract on blood glucose in diabetic Wistar male rats induced by alloxan. Diabetes animals were induced by alloxan (75 mg/kg of body weight). Rats were randomly divided into 5 groups (n=5), including normal control, diabetic control, diabetic-walnut oil, diabetic-walnut septum, diabetic -walnut leaves aqueous extract , and were examined for 2 weeks. Blood glucose level was measured in all groups. Blood glucose significantly increased in experimental groups in comparison with normal control groups (p<0.05) after alloxan injection.Blood glucose level significantly decreased in diabetic control groups (p<0.05) with walnut oil, septum and leaves aqueous extract. It should be noted that consuming walnut oil more reduce blood glucose than other sections of walnut.Results demonstrate that oil, septum and leaves extract of walnut possesses significant antihyperglicemic properties, thus suggesting its beneficial effect in the treatment of diabetes.

Keywords: Walnut oil, Walnut septum, Walnut leaves, Blood glucose, Diabetes, Rat.

Susankhosroyar et al/International Journal of ChemTech Research, 2017,10(10): 46-54.

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