IMPACT: International Journal of Research in Applied, Natural and Social Sciences (IMPACT: IJRANSS)

ISSN(E): 2321-8851; ISSN(P): 2347-4580

Vol. 3, Issue 10, Oct 2015, 11-18 © Impact Journals



EFFECT OF POMEGRANATE (PUNICA GRANATUM L) JUICE ON

LIPID PROFILE OF HYPERLIPIDEMIC FEMALE MICE

KHALID G. AL-FARTOSI¹, RASHA J. TUAMA², ALI B. ROOMI³ & SAAD H. JASIM⁴

^{1,4}Department of Biology, College of Science, Thi Qar University, Iraq

^{2,3}Department of Chemistry, College of Science, Thi Qar University, Iraq

ABSTRACT

The present study was carried out to investigate the effects of the pomegranate juice (PJ) on lipid profile, lipoproteins and atherogenic index on hyperlipidermic female mice. Twenty four female mice were used, these animals were divided into four groups each group contain six animals as following: group A (control group) was treated with (0.2 mL/animal) of distilled water for 30 days, group B was treated with (0.2 mL/animal) of pomegranate Juice only for 30 days, group C was treated with high cholesterol diet daily for 30 days, group D was treated with high cholesterol diet and (0.2 mL/animal) of pomegranate juice for 30 days. The result indicated that high cholesterol diet caused a significant increase (P< 0.01) in the level of the serum total cholesterol (TC), triglyceride(TG), LDL, VLDL and atherogenic index in group C comparison with group A. Also, there was a significant decrease (P< 0.01) in HDL in group C comparison with group A. The pomegranate juice caused a significant decrease (P< 0.01) in the level of the serum total cholesterol (TC), LDL and atherogenic index in group D comparison with group C. Also, there was a significant increase in triglyceride TG, HDL, VLDL, levels in group D comparison with group C.

KEYWORDS: Pomegranate Juice, Hyperlipidemic, Lipids, Lipoproteins, Mice