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Evaluation of omega-3 on lipid profile and biochemical parameters on Wistar rats

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The lipid profile (total cholesterol, HDL cholesterol, LDL cholesterol, triglycerides) is used as part of a cardiac disease risk assessment. In this research, we investigate the efficiency of Fish oil to decrease the levels of total cholesterol and proteins in Wistar rats (n=60) weighing (225-250 g). Fish oil was fed for seven weeks to Wistar rats. Hematological and physiological parameters were examined by automatic analyzer and the results were statistically analyzed by SPSS.12. In comparison to control rats showed highly significant decrease in values of following physiological parameters; triglycerides, total cholesterol, low density lipoprotein cholesterol, total protein, and in contrast, marked increase in the value of high density lipoprotein cholesterol. These findings indicate that diets containing fish oil significantly improved the physiological parameters of rats. We suggest that fish oil as part of food might improve blood parameters and increase high density lipoprotein cholesterol in rats. We further suggest that fish oil supplementation act as antioxidant agents and an excellent adjuvant therapy for rats.

Biography

Bandar H Aloufi is a Professor at the Department is Biology, University of Hail in Saudi Arabia.

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