

ALLEVIATION OF HYPERLIPIDEMIA IN HYPERCHOLESTEROLEMIC RATS BY LENTIL SEEDS AND APPLE AS WELL AS PARSLEY IN SEMI- MODIFIED DIETS

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Abstract

The study was carried out to evaluate the effects of unpeeled lentil seeds, apple and parsley in semi-modified diets on lipid fractions of hyperlipidemic and hypercholesterolemic male albino rats. Blood lipid fractions of hyperlipidemic animals were improved by the antioxidant and protein lipotropic powers of diets used to protect animals from oxidation and precipitations on the walls of the blood vessel, thus alleviating atherosclerosis. The treatments with semi-modified diets improved the lipid fractions, such as total lipids, cholesterol and triglycerides, as well as HDL-C, LDL-C and VLDL-C, but also alleviated the risk factor of the hyperlipidemic rats. Total protein and its fractions (albumin, and globulin), lipid peroxidation and antioxidant enzyme activity (SOD and CAT) were readjusted around the normal values in hyperlipidemic and hypercholesterolemic rats by the improvements of the present lipotropic factors and antioxidative agents in unpeeled lentil, apple and parsley by which hyperlipidemia and hypercholesterolemia were alleviated.

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