



Thesis Abstract

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ANTIATHEROGENIC EFFECT OF *Moringa oleifera* Lam IN RATS

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ABSTRACT

Current research involves study of the hypocholesterolemic and hypotriglyceridemic activities of hydro alcoholic extract of *Moringa oleifera* in Triton WR- 1339 induced hyperlipidemic rats as an experimental model. Acute hyperlipidemia was induced in rats by intra peritoneal injection of Triton (400mg/kg body weight). The animals were divided into five groups of eight rats each: normolipidemic control group, hyperlipidemic control group, hyperlipidemic plus atorvastatin treated group, hyperlipidemic plus *Moringa oleifera* 100mg/kg treated group and hyperlipidemic plus *Moringa oleifera* 200mg/kg treated group. Intra gastric administration of *Moringa oleifera* 100 and 200mg/kg body weight significantly decreased plasma total cholesterol, triglycerides, low density lipoprotein cholesterol concentration. Furthermore, a significant ameliorative action on elevated atherogenic index and low density lipoprotein/high density lipoprotein cholesterol ratio was observed. These finding indicate that hydro alcoholic extract of *Moringa oleifera* may able to lower plasma lipid concentration and might be beneficial in the treatment of hyperlipidemia and atherosclerosis.