BHD 071

# FATTY ACID PROFILE AND HYPOGLYCEAMIC ACTIVITIES OF SEED OIL OF *Moringa oleifera* LAM

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## ABSTRACT

The present menace of diabetic disease and the adverse effect of oral hypoglycemic drugs or insulin treatment necessitated the search for more efficient and safer antidiabetic drugs from herbal formulations. As such, the fatty acid profile and antidiabetic effect of seed oil of *Moringa oleifera Lam.* extracted with petroleum ether and dichloromethane (PEEMO and DCMMO) were investigated. Both extracts possessed high proportion of unsaturated fatty acids when compare to saturated fatty acids. The 2.0ml/kg body weight of the oil, 500µg/kg.bw of glibenclimide and 2.0ml/kg.bw of DMSO (Diabetic control group) were given orally to rats in their respective groups after induction with 2g/kg.bw of glucose. The blood glucose level of the glibenclimide and the oil treated groups were significantly ($P<0.05$) reduced at 30, 60, 90 and 120minutes in oral glucose tolerance (OGTT) curve as compared with diabetic control group. Therefore, the *Moringa oleifera* seed oil extracts demonstrated acute hypoglycaemic effects in glucose fed rats.

**Keywords:** Moringa oleifera, glibenclimide, antidiabetic, diabetes, unsaturated fatty acids

A biological clock is an i
time in a living organ
approximate 24 hour p
*dies* meaning a day).
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clock is temperature
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