

**EFFECT OF *CONVOLVULUS PLURICAULIS* EXTRACT ON CAFETERIA DIET INDUCED OBESITY IN MICE**

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Received:4 September 2013, Revised and Accepted:18 September 2013

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**ABSTRACT**

Objective

To evaluate the anti-obesity effect of extract of *Convolvulus pluricaulis* in mice feed with cafeteria diet (CD).

Methods

Obesity was induced in mice by feeding them a CD daily for 41 days in addition to normal diet. Body weight and food intake was measured initially and then every week thereafter. On day 41, serum biochemical parameter were measured and animal were sacrificed using overdose of ether. The liver kidney, heart and spleen were removed and weighed immediately.

Results

CD may leads to obesity in mice however standard (Sibutramine). Treatment with extracts of *Convolvulus pluricaulis* caused changes in the blood parameter including decrease levels of total cholesterol (TC), low density lipoprotein cholesterol (LDL-C) and TG but increased high density lipoprotein cholesterol (HDL-C).

Conclusion

Methanolic extract of *Convolvulus pluricaulis* is a potential source of anti-obesity phytomedicine.

**Keywords:** Antiobesity, *Convolvulus pluricaulis*, Shankpushpi, Obesity, Phytomedicine.

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