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### Effect of petroleum ether cold maceration extract of *Wattakaka volubilis* on alloxan induced diabetes in rats

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*Wattakaka volubilis* (Asclepiadaceae) has a huge respect in ethnobotanical terms with emphasis to effective treatment of diabetes. The study was to examine the antidiabetic potential of petroleum ether cold maceration extract of *W. volubilis* in a diabetic rat model. The *in vivo* results showed that i.p administration of alloxan (150 mg/kg bw) alters the levels of serum biochemical parameters in glucose, total protein, total cholesterol, triglycerides,  $\alpha$ -amylase, potassium, ALT and bilirubin of experimental animals. Treatment of PEME (50 and 100 mg/kg bw) in experimental rats by oral injections for 21 days showed reductions in the levels of serum biochemical markers. Morphological changes in the rat pancreas were determined by scanning electron microscopy and histopathological evaluation. These results suggested that PEME of *W. volubilis* has a significant antidiabetic potential.

**Keywords:** *Wattakaka volubilis*, PEME, Alloxan, Pancreas, Scanning electron microscopy.

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