

## Paradigm Shift in Classical Drug Research: Challenges to Modern Pharmaceutical Sciences

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**Abstract :** Many classical drugs are claimed to have blood sugar lowering properties that make them valuable for people with or at high risk of type 2 diabetes. Vijaysar (*Pterocarpus marsupium*) and Gaumutra (Indian cow urine) both have been shown antidiabetic property since primordial time and both shows synergistic effect in combination for hypoglycaemic activity. The study was undertaken to investigate the hypoglycaemic and anti-diabetic effects of the combination of Vijaysar and Gaumutra which is a classical preparation mentioned in Ayurveda named as Pramehari ark. Rats with Type 2 diabetes which is induced by streptozotocin (STZ, 35mg/kg) given a high-fat diet for one month and compared with normal rats. Diabetic rats showed raised level of body weight, triglyceride (TG), total cholesterol, HDL, LDL, and D-glucose concentration and other serum, cardiac and hypertrophic parameters in comparison of normal rats. After treatment of different doses of drug the level of parameters like TG, total cholesterol, HDL, LDL, and D-glucose concentration found to be decreased in standard as well as in treatment groups. In addition treatment groups also found to be decreased in the level of serum markers, cardiac markers, and hypertrophic parameters. The findings demonstrated that Pramehari ark prevented the pathological progression of type 2 diabetes in rats.

**Keywords :** cow urine, hypoglycemic effect, synergic effect, type 2 diabetes, vijaysar

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