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Preclinical Evaluation Of An Ayurvedic Preparation, Pramehari Ark In Type-2 Diabetic Nephropathy And Cardiomyopathy

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Objectives: Many classical drugs claimed to have hypoglycemic properties that make them valuable for people with or at high risk of type 2 diabetes and its complications. 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 effect of the combination of Vijaysar and Gaumutra which is a classical preparation mentioned in Ayurveda named as Pramehari ark in diabetes and nephropathy.

Methods: Rats were induced with Type 2 diabetes and its complications like nephropathy which was induced by streptozotocin (STZ, 50mg/kg, i.p) which was given after 15 minutes injection of Nicotinamide (90 mg/kg,i.p). Diabetic rats showed raised level of body weight, food and water intake, triglyceride (TG), total cholesterol, LDL, and glucose concentration and other parameters like SGPT, SGOT, cardiac and hypertrophic parameters in comparison of normal rats.

Results:

After treatment of different doses of drug the level of different kidney parameters are found to be decreased in various treatment groups. In addition, treatment groups also found to be decreased in the level of serum markers, cardiac markers, renal markers, antioxidants, urine parameters and hypertrophic parameters. Different treatments show beneficial effect by the use of different histopathologic stains like H & E, PAS and MT.

Conclusions:

The findings demonstrated that Pramehari ark prevented the pathological progression of type 2 diabetes and even nephropathy in rats. Rejuvenation property of formulation leads to regeneration of β -cells. Treatment groups shows antidiabetic effect dose dependently, but lower dose is not able to act on some parameters related with nephropathy.