

## PAINTER DRUGS USING KIDNEYS DIABETIC INJURIES PREVENT TAKE : EXPERIMENTAL MEDICINE EXPERIENCE

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**Abstract:** This work in rats alloxan using called diabetes model based on kidneys diabetic injuries plant of drugs prevent in the taking impact experimental in terms of studied. Animals to groups separation structure formed, diabetes induction and next biochemical and morphological changes observation protocols working Phytotherapy diabetic nephropathy prevent to take and development in slowing down of application promising directions detected.

**Key words:** diabetic nephropathy, alloxan, plant preparations, experimental medicine, phytotherapy.

### Introduction

Diabetic nephropathy — diabetic diabetes the most heavy and wide widespread from complications one of patients life quality sharp reduces. Therefore for, pathological of changes development to slow down capable effective preventive tools search current to the point These tools are rotating between safety, availability and wide biological activity because of plant preparations important place This

of the research purpose in rats alloxan using modeled diabetic nephropathy under the circumstances plant of drugs preventive the impact from learning consists of it has been.

### MATERIALS AND METHODS

#### Experiment Design

Animals into the following 6 groups separated:

#### Group number Animals number Description

1	5–10	Control group : alloxan-free, standard feeding
2	10–15	Diabetes group : alloxan with diabetes induction
3	10–15	Therapy group 1 : with insulin treatment
4	10–15	Therapy group 2 : herbal drug with treatment
5	5–10	Chronic hyperglycemia group : untreated
6	10–15	Early intervention group : preventive treatment

#### Diabetic nephropathy Induction

Diabetes in modeling alloxan used:

- Dosage : body 40–65 mg/kg of body weight.
- Weighing 200 g rat for Dosage : 8–13 mg.
- Input method : tail vein through vein inside or skin under will be sent.
- Solution : alloxan 0.9% physiological saline in solution or 0.5 M citrate dissolved in buffer (pH 4.5).
- Diabetes development control Do : 48–72 hours after injection after blood glucose level is measured.

#### Treatment measures

- Therapy 1 — diabetes 1–2 days after induction standard insulin dose input
- Therapy 2 — kidney protection doer to the features has chosen plant drug input

#### Animals status Evaluation

Complex observation held:

- Blood glucose level measurement
- Kidney activity biochemical indicators ( urea , creatinine ) .
- Kidney tissue morphological inspection .
- Statistical analysis : standard methods (ANOVA, Student's t - test ) .

### Results

Alloxan sent in rats stable hyperglycemia and elementary diabetic nephropathy signs observed , this blood creatinine and urea level increase with approved .

Plant preparations when used hyperglycemia level noticeable at the level decreased and kidney function indicators normalized . Morphological research phytotherapy acceptance did in animals glomeruli and tubules structure less damaged showed .

The most good results early in the intervention observed — diabetes from induction after immediately started treatment in the kidney morphological of changes development much slowed down .

### Discussion

Received information plant of drugs kidneys diabetic injuries prevent in the taking prospects Antioxidant , anti - inflammatory against and hypoglycemic to the features has phytotherapeutic tools diabetic nephropathy development the risk noticeable reduce possible.

Therapy early start maximum protection to the effect in reaching important importance has . Plant preparations not only complex treatment in the composition , maybe danger in the group patients for preventive tool also useful as to be possible .

### Conclusion:

In rats diabetic nephropathy experimental modeling plant of drugs in the kidney pathological of changes prevent in the taking efficiency showed . This tools clinical research and diabetic complications prevent to take aimed at new approaches working exit for basis to be service to do possible .