

# **The short – term nephropathological complications due to alloxan induction of diabetes mellitus in male rabbits**

## **Abstract**

This study was conducted to assess the pathological changes in kidneys after twenty day from induction of diabetes mellitus in male rabbits. Sixteen male rabbits were used in this study and divided into two equal groups: diabetic group (Dm) and control group (Cm). Diabetes mellitus was induced by i.v injection of alloxan monohydrate at dose rate 100 mg/kg dissolved in 1 ml of normal saline. Blood was collected after three days to check fasting serum glucose. Serum glucose level was elevated starting from the 1st 3 days after induction of diabetes mellitus. The histopathological results revealed that there were: edema, glomerular hypertrophy and hypercellularity, as well as glomerular necrosis, glomerular swelling, glomerular congestion with glomerular cast and rupture. The conclusion that renal glomeruli and tubules affected progressively after short period from beginning of diabetes mellitus.