

# **“EVALUATION OF NEPHROPROTECTIVE ACTIVITY OF MORUS ALBA IN GENTAMICIN INDUCED NEPHROTOXICITY IN RATS”**

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## **ABSTRACT**

**Objectives:** To Evaluate the Nephroprotective Activity of Methanolic Extract of *Morus alba in* in Gentamicin induced Nephrotoxicity in Rats

**Material and methods:** In these model of nephrotoxicity, 36 Adult male wistar rats were divided in to 6 groups. In which group-1 and group-2 served as a normal control and positive control respectively. Where as a group-3 served as a standard group which receive prednisolone 10mg/kg and group-4, 5, and 6 was a treatment group which receive methanolic extract of *Morus alba* which were treated with the dose of 200 mg/kg, 400 mg/kg and 600 mg/kg respectively. After the experimental period blood sample were collected for serum parameter and Kidney was for Biochemical parameter and Histopathological study

**Results:** Gentamicin treatment caused Nephrotoxicity as evidenced by marked elevation in Blood urea nitrogen, Uric acid and creatinine. Co-administration Methanolic extract of *Morus alba* with gentamicin decrease in Blood urea nitrogen, Uric acid and creatinine. Apart from these Histopathological changes also showed protective nature of *Morus alba* against gentamicin induced necrotic damage of renal tissue.

**Conclusion:** It was observed that methanolic extract of *Morus alba* conferred nephroprotective and anti-oxidant activities by Histopathological and biochemical observation against gentamicin induced nephrotoxicity in rats.

Key words: Nephroprotective; Gentamicin; Anti-oxidant