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Abstract
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Efficacy of Unani Drugs Anisoon (*Pimpinella anisum*) Brinjasif (*Achillea mellifolium* | *Artemesia vulgaris*) Management of Renal Failure in Experimental Animals

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ABSTRACT

Background: The nephrotoxicity is due to the poisonous effect of some toxic chemicals and certain type of drugs on the kidneys. In Nephrotoxicity, the toxic metabolites retain in the body leading to severe complications like ARF,CRF etc[1,2,3]. Aim and Objective: Evaluate the Efficacy of combined drug Anisoon and Brinjasif ,in management of renal failure. paracetamol induced nephrotoxicity in Albino Wistar rats. Material &Methods: Albino wistar rats were divided into 5 groups and each group comprises of six rats Nephrotoxicity was induced by injection paracetamol 200mg/kg bwt intraperitoneal[4]. The combined aqueous extract of Anisoon (Pimpinella anisum)[5] and Brinjasif(Achillea mellifolium)[6] Medium Dose (25.68mg/kg) and Low dose (17.12mg/kg) were used as nephroprotective drug in the study[7,8]. Result: Elevated levels of serum creatinine, urea, blood urea nitrogen, creatinine clearance were observed as indicatives of nephrotoxicity in paracetamol (200mg/kg bwt) administered rats. Animals, which are pre-treated with aqueous extract Anisoon and Brinjasif of combined drug (medium Dose 25.68mg/kg and low dose 17.12mg/kg), restored the elevated levels of renal function markers to near normalcy when compared to paracetamol alone treated animals. values are expressed as mean +SEM(N=5) statistical Analysis was performed by one way ANOVA. The results were compared with control ($p<0.05$), Negative group $p<(0.05)$ significantly increased. The test group medium dose 25.68mg/kg and low Dose 17.12mg/kg had significant $p<0.05$ lower level of urea and creatinine compared to negative group.
HPE:- of rat kidney section of negative group shows impaired renal morphology cystic dilatation along with tubular degeneration and accumulation of fluids. Concurrently treated group showed normal appearance of glomerulus and tubules of kidneys. Conclusion: The findings in the present study suggest that combined extract of Anisoon and Brinjasif is a potential Nephroprotective that reduce paracetamol induced nephrotoxicity.

REFERENCES

1. Drug induce nephrotoxicity and its biomakers ,Biomolecules and therapeutics .
2. Pathological Basis of disease,Robbin edition 5 ,pgno 932.
3. National library of medicine (national centre for biotechnology information)
4. Nephroprotective effect of herbal extract eurycoma longifolia on paracetamol induced nephrotoxicity in rats .
5. Indian material medical, AK Nadkarni vol 1, pgno 955.
6. Nephroprotective effect of Aq.extract of Pimpinella anisum in gentamycin induced nephrotoxicity in wister rats.
7. International journal of herbal medicine. Brinjasif (Achillea mellifolium)an efficacious unani medicine.
8. Yarrow (Achillea mellifolium) A herbal medicinal plant with board therapeutics.