

The Protective Effect of Grape Seed Oil with Use of Ciprofloxacin Induced Germ Cell Toxicity in Male Albino Mice

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Abstract : The present investigation was undertaken to evaluate the germ cell toxicity induced by ciprofloxacin antibiotic and the Protective effect of grape seed oil, Ciproflaxin uses include treatment of genitor-urinary and some reproductive tract bacterial infections. One of the most attractive approaches to disease prevention involves the use of natural antioxidants to protect tissue against toxic injury, the possible protective effect of grape seed oil, against ciprofloxacin induced reproductive toxicity on mouse .the animals were randomly divided into four groups consisting of five mice. Group (1) was orally given distilled water (solvent of the used drugs) and kept as a control. Group (2) was administered 6ml/kg. b.w of grape seed oil orally 15 days .Group (3) was administered 206mg/kg. b.w of ciprofloxacin orally for 15 days.. Last group was treated orally with Grape seed oil (6mg/kg b.w. /day) prior to an orally administered ciprofloxacin (CPX) at a dose of 206 mg/kg. b.w. by three hours for fifteen days. Ciproflaxin have ability to induce various types of sperm abnormalities such as (Sperm without head, sperm without tail, defective head spearm,swollen head sperm), The results explored that Grape seed oil possesses statistically significant ($p<0.05$) protective potential against Ciproflaxin by decreasing sperm abnormalities frequency in mouse.

Keywords : antimutagen, ciprofloxacin, grape seed oil, germ cell

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