



ChemTech

## International Journal of ChemTech Research

CODEN(USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555

Vol.10 No.6, pp856-864,2017

# Ameliorative Effects of Corn Oil against *Hydrogen Peroxide-Induced Oxidative Stress in Rabbits Sperm Characteristics*

Nada SaadNaji Al-Taee

Dept. of Ecology, College of Environment, University of AL-Qasium green, Iraq

**Abstract:**hydrogen peroxide ( $H_2O_2$ ), which is one of the reactive oxygen species (ROS), count the most destructive to human spermatozoa. Unsaturated fatty acids of Semen are oxidized at preservation resulting in ROS. These ones oxygen species (OS) are very effective on the level of cellular causing many degrees of harm to the cells of sperm. The adding corn oil is related to have antioxidant properties that assist to confrontation the deleterious effects of excess ROS. The *in vitro* study has been aimed to investigate the effect of escalating concentrations of corn oil in the presence of different concentrations of hydrogen peroxide in diluent of male rabbits' semen on sperm characteristics (motility, viability, grade activity and malondialdehyde (MDA) concentration in seminal plasma).The characteristics of semen, inclusive motility, viability, and grade activity, were higher in the groups that were treated with corn oil and  $H_2O_2$  in comparison to the group that treated only with  $H_2O_2$ . While the levels of malondialdehyde in control (0.9% Physiological solution), and the corn oil with  $H_2O_2$  groups were lower than only  $H_2O_2$  group. These results demonstrate that corn oil can Reduces the harmful changes in some characteristics of semen induced by hydrogen peroxide.

**Keywords:** Corn oil, antioxidants, hydrogen peroxide, rabbits, sperm parameters.

Nada SaadNaji Al-Taee/International Journal of ChemTech Research, 2017,10(6): 856-864.

\*\*\*\*\*