



دانشگاه علوم پزشکی شهید بهشتی

Royal Jelly therapeutic effect on the Sperm viability in male rats treated with the ofloxacin antibiotic

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Abstract

Ofloxacin is one of fluoroquinolone family That On infectious diseases of the urinary tract - Genital acts .R jelly is secreted by the glands of worker bees Hypopharyngeal and with impact on the reproductive, sexual orientation increases. in this study is to investigate Royal Jelly therapeutic effect on the Sperm viability in male rats treated with the ofloxacin antibiotic.

This study has been used from 32 adult male rats have been divided in 4 groups .(1)control , (2) medicine ,(3) 2week without medicine, (4) R jelly . in the first group they feed only water & food stuffs , but in the 2 &3& 4 group they were received 0/3 cc ofloxacin with dose 200mg in a 14-day cycle then after the end of 14-day cycle the second group were killed the fourth group in addition to the 14-day cycle were treated for 14 days with R jelly (dose 0/3cc) (28days) Group 3 after a 14-day cycle of medication, for 14 days without medication were (28days) . Then the groups 3 & 4 after the end 28days were killed and exiting testis tissue and Sperms were stained with Eosin-nigrosin .

Research has shown that ofloxacin(70/33 ±2) The percentage of sperm viability Significantly decreased compared to the control group(88/33 ±2) . With the induction of therapeutic effect of royal jelly (78/66 ± 2) The percentage of sperm viability Significantly increased compared to drug & 2 week without Drug groups(70/33 ±2) . But compared to the control group significantly decreased(88/33 ±2) So has somewhat improved(78/66 ± 2) . After coloring was observed Live sperm with clear head And dead sperm with red head . (p<0/05)

Key words : ofloxacin , male rat , ,Royal jelly , Sperm viability , Eosin-nigrosin