

The Effects of Hydroalcoholic Extract *Terfezia Boudieri* on Sexual Behavior of Male Rat

Abstract:

purpose: Truffle (*Terfezia Boudieri*) used for the treatment of male infertility and impotence in traditional medicine, especially in Ardabil province.. However, a scientific study on the effect of the plant on the behavior and sex hormones in male rat has not been done.

Methods: This study assess the effect of hydro-alcoholic extract *Terfezia Boudieri* on behavior, sex hormones and testicular parameters in rats was performed. For this purpose, in the first stage, 49 rats were randomly divided into 7 group 7 rats in each group (A-G) . Group A received no treat. Group B received 0.2 ml of Normal Saline, while groups C-G were injected same volume containing 35, 70, 105, 140 and 350 mg/kg of TB extract IP, respectively. and in the second stage, 21 rats were randomly divided into 3 groups 7 rats in each group (A- C). control received no treatment, group B, 0.2 ml of normal saline and group C, 105 mg kg was administered for 21 days to check for testicular parameters.

Results: Parameters of sexual behavior, including mounting, intromission and ejaculation frequencies and latencies were recorded in male rats one hour after injection of extract by mating with a receptive female (1:1). The male serum testosterone concentration was also determined. The concentration of testosterone, LH and FSH were measured, and the weight of the epididymis, testes and sperm number and motility were evaluated sexual behavior incited all concentrations. Truffle extract significantly mount, ejaculation, intromission frequencies and ejaculation latency compared with the control group ($P < 0.001$). But, Mount and intromission latencies significantly reduced ($p < 0.001$). The greatest effect was observed concentration of 105 milligrams per kilogram. Truffle extract also increases testosterone and orientation towards the female to male rats. in the second stage, dose of 105 milligrams per kg increased weight of the testes and epididymis and increase the number of sperm.

Conclusion: The results showed that the extract truffle can be used as a matter of autoerotism and sex enhancer and it seems to be used to treat impotence and infertility in men. The results confirmed the scientific aspect of the traditional use of the fungus, which can be used for impotence and premature ejaculation.

Keywords: truffle, testosterone, sexual behavior, parameter testicles, rat