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Biological activity if Origanum majorana in prolactin level in female albino rats

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yperprolactinemia is a condition characterized by increased production of prolactin (PRL>25 ng/ml). Hyperprolactinemia most commonly presents as an ovulatory disorder, it can lead to reproductive dysfunction infertility, impotence and irregular menstrual period. Chemical drugs are used to treat hyperprolactinemia, but it has a lot of side effects and cost problems. Origanum majorana is an herb belong to the family Lamiaceae, it is used traditionally for its ability to restore hormonal balance and to treat hyperprolactinemia. The study aimed to investigate about the effect of Origanum majorana in reducing prolactin level and compare it with the effect of bromocriptine drug, also it aim to investigate about the effect of ethanol inducing hyperprolactinemia. 11 female albino rats were ingested with ethanol before experiment to induce hyperprolactinemia then they were grouped into three groups; group of bromocriptine was treated with 2.5mg/kg, group Origanum majorana were given 0.27gram of Origanum majorana per kilogram body weight in 4.5ml of boiled water and let for five minutes then given orally to rats in this group, control group were fed ad-libitum without any treatment. Origanum majorana group showed significant result in reducing prolactin level, while bromocriptine group showed non-significant result in reducing prolactin level; this may be due to small doses given. Also, not significant result was showed with ethanol; it could not induce hyperprolactinemia and this may be due to small amount ingested. As a conclusion Origanum majorana was effective in reducing prolactin level, ethanol in small amount couldn't induce hyperprolactinemia and it was also concluded that bromocriptine in dose of 2.5/kg body weight once per day for a weak couldn't reduce prolactin level.

Biography

Dahab E A is currently a graduate student in the University of Medical Sciences and Technology, Faculty of Pharmacy, Khartoum, Sudan.

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