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研究简报

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芦丁促进大鼠泌乳性能的研究

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Rutin Promotes Lactation of Rats

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摘要 通过研究天然植物提取物芦丁对大鼠泌乳性能、内分泌激素、脏器指数的影响, 考察芦丁调节大鼠泌乳的效果。试验选择18只Wistar受孕母鼠, 随机分为3组, 每组6只, 分别为对照组、芦丁组(每日灌服芦丁60 mg/kg BW)、雌二醇组(每周肌肉注射雌二醇60 μg/kg BW), 从哺乳第4天开始连续给药2周, 基础饲料相同。测定指标包括: 大鼠泌乳量, 仔鼠平均体增重, 乳腺器官指数, 胸腺指数, 脾脏指数, 血浆与乳腺组织中雌激素(E2)、孕激素(P)、催乳素(PRL)、生长激素(GH)的含量。试验结果显示: 芦丁组大鼠泌乳量显著高于对照组(P<0.05), 与雌二醇组差异不显著(P>0.05); 仔鼠体增重芦丁组与雌二醇组差异不显著(P>0.05), 但显著大于对照组(P<0.05); 大鼠血浆与乳腺组织中E2、PRL、GH的水平, 芦丁组显著高于对照组(P<0.05), 低于雌二醇组(P<0.05), P水平各組间差异不显著(P>0.05); 大鼠乳腺、胸腺、脾脏器官指数雌二醇组显著高于芦丁组和对照组(P<0.05)。由此得出, 芦丁能够显著提高大鼠泌乳量, 促进大鼠胸腺、脾脏等器官的发育。

关键词:

Abstract: The objective of this study was to investigate the regulatory effect of rutin on lactation of rats by examining the effects of a natural plant extract rutin on milk yield, endocrine hormones and organ indices of rats. Eighteen pregnant Wistar rats were randomly assigned to 3 treatments: control, gastric infusion of rutin at 60 mg/kg BW per day, and intramuscular injection of estradiol 60 μg/kg BW weekly from the fourth lactation day for two weeks with the same basal diet. The milk yield of rats, body weight gain of filial rats, mammary gland index, thymus index, spleen index, the levels of estrogen (E2), progesterone (P), prolactin (PRL) and growth hormone (GH) in plasma and gland tissues were measured. The milk yield of the rats receiving rutin was higher than that of the control group (P<0.05), but lower than that of the estradiol group (P>0.05). The body weight gain of the progeny from the rats receiving rutin was higher than that of the control group (P<0.05), but lower than that of the estradiol group (P>0.05). The levels of E2, PRL and GH in plasma and gland tissues of the rats receiving rutin was higher than that of the control group (P<0.05), but less than that of the estradiol group (P<0.05), and the differences of P level among groups were not distinct (P>0.05). The indexes of mammary gland, thymus and spleen of the rats receiving estradiol were higher than those receiving rutin or the control group (P<0.05). In conclusion, dietary rutin significantly improves the milk yield and accelerates growth of the thymus and spleen of rats. [Chinese Journal of Animal Nutrition, 2010, 22 (6) :1775-1782]

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