

论文

醋酸棉酚对雄性木鼠睾酮、黄体生成素(LH)和卵泡刺激素(FSH)的影响

马晓年;李文君;孙亦彬

国家计划生育委员会科学技术研究所

摘要:

给大鼠口服醋酸棉酚30mg/kg/d每周6次,给药2,4或8周,用放射免疫法测血清睾酮、LH和FSH水平。结果表明,给药2周(生精上皮破坏不明显)和6,8周(曲精细管严重破坏)血清睾酮水平显著下降,而血清LH无变化。给药8周时血清FSH显著升高,为对照组的4倍。实验结果提示棉酚可能影响间质细胞的功能。

关键词: 醋酸棉酚 睾酮 LH FSH

EFFECT OF GOSSYPOL ACETIC ACID ON TESTOSTERONE, LH AND FSH LEVELS OF MALE RATS

MA Xiao-nian; LI Wen-jun and SUN Yi-bin

Abstract:

Ninety two male rats were used. to study the effect of gossypol on the gonadal hormone levels. Rats were administered gossypol acetic acid orally at the dosage of 30mg/kg/day, six times per week, for 2,4 and 8 weeks. Serum testosterone, LH, FSH and testicular testosterone were determined by RIA. Results showed that at the end of 2,6 and 8 weeks of drug administration, serum testosterone levels were reduced-significantly, while serum LH levels were not changed. At the end of 8 weeks of gossypol treatment serum FSH level was elevated to approximately 4 times the control value. Organ weights and morphology of the testes were measured and examined. At the end of 8 weeks of treatment, the weights of testes, epididymis, seminal vesicles and ventral prostates were significantly reduced. Scoring was used to investigate the degree of damage of the testes after 8 weeks gossypol treatment. Severe damage was discernible in most of the seminiferous tubules of the treated rats. All the results pointed to they possibility that gossypol affected the function of Leydig cells.

Keywords: Testosterone LH FSH Gossypol acetic acid

收稿日期 1982-11-29 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

参考文献:

本刊中的类似文章

1. 王迺功;关慕贞;李和平;雷海鹏.醋酸棉酚和15甲基PGF_{2α}甲酯对大鼠子宫胞浆雌激素受体的影响[J]. 药学报, 1987,22(2): 103-106
2. 邱曙东;郭仁舆.醋酸棉酚对幼龄大鼠睾丸间质细胞分泌活性及细胞膜表面LH/hCG受体发育的影响[J]. 药学报, 1987,22(5): 369-372
3. 王慕邹;王津生;李百龙;高凤英.棉酚的高效液相色谱测定[J]. 药学报, 1985,20(9): 682-688
4. 黄焯;陈兰英;李洽夫;朱蓬弟.醋酸棉酚——PVP固体分散体研究及体外杀精子活性的观察[J]. 药学报, 1985,20(12): 918-922
5. 王迺功;李和平;宋明珍;雷海鹏.醋酸棉酚在大鼠的抗甾体激素和抗促性腺激素作用[J]. 药学报, 1984,19(1): 1-1
6. 雷汉琴;徐元秀.醋酸棉酚对大鼠孕卵转运和发育的影响[J]. 药学报, 1990,25(8): 561-565

扩展功能

本文信息

- ▶ Supporting info
- ▶ PDF(372KB)
- ▶ [HTML全文]
- ▶ 参考文献

服务与反馈

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ 引用本文
- ▶ Email Alert
- ▶ 文章反馈
- ▶ 浏览反馈信息

本文关键词相关文章

- ▶ 醋酸棉酚
- ▶ 睾酮
- ▶ LH
- ▶ FSH

本文作者相关文章

- ▶ 马晓年
- ▶ 李文君
- ▶ 孙亦彬

PubMed

- ▶ Article by
- ▶ Article by
- ▶ Article by

7. 陈咏;曹霖;顾芝萍.醋酸棉酚与米索前列醇对大鼠和小鼠的抗早孕研究[J]. 药学学报, 1997,32(11): 801-807
8. 杨波;曹霖;徐阳;孙朝霞;顾芝萍.醋酸棉酚对离体大鼠黄体和人蜕膜、滋养层细胞的影响[J]. 药学学报, 1997,32(8): 573-577
9. 雷汉琴;徐元秀.醋酸棉酚对大鼠输卵管平滑肌收缩活动的影响[J]. 药学学报, 1993,28(1): 6-6
10. 郑月慧;吴忠华;方廉.醋酸棉酚对hCG促进大鼠分散黄体细胞产生孕酮的影响[J]. 药学学报, 1991,26(11): 805-808
11. 王迺功;李凤源;李和平;雷海鹏.醋酸棉酚对雌性大鼠的抗早孕作用[J]. 药学学报, 1984,19(11): 808-811
12. 周兰芳;雷海鹏;高仪;刘裕;王乃英;郭燕.醋酸棉酚长期给药的进一步观察[J]. 药学学报, 1982,17(4): 245-252

文章评论 (请注意:本站实行文责自负, 请不要发表与学术无关的内容!评论内容不代表本站观点.)

反 馈 人	<input style="width: 95%;" type="text"/>	邮箱地址	<input style="width: 95%;" type="text"/>
反 馈 标 题	<input style="width: 95%;" type="text"/>	验证码	<input style="width: 50%;" type="text"/> 2218