

论著

# 氟哌啶醇对小鼠卵母细胞染色体的影响

黄继华; 杨芳炬

四川大学华西医学中心药理学教研室, 四川 成都 610041

收稿日期 2005-2-18 修回日期 2005-3-25 网络版发布日期:

**摘要** 背景与目的: 探讨抗精神病药氟哌啶醇(Haloperidol, Hal)在卵子发生过程中对卵母细胞染色体的影响。材料与方法: 将40个12周龄健康雌性小鼠随机分为4组, 分别按0、0.05、0.50、5.00 mg/(kg•d)腹腔注射Hal, 连续注射8 d, 通过超排收集卵母细胞, 制备染色体标本进行核型分析。结果: 对照组、0.05、0.50、5.00 mg/(kg•d)组的实验参数分别为, ①超单倍体率: 3.8 %、4.4 %、7.3 %、18 %; ②非整倍体率: 7.5 %、8.8 %、14.5 %、36.0 %; ③退化卵母细胞率: 1.3 %、1.4 %、1.8 %、10.0 %; ④染色体分离均数: 0.013、0.014、0.018、0.100。0.05、0.50 mg/(kg•d)组分别与对照组比较, 各实验参数间的差异没有统计学意义(P>0.05)。5.00 mg/(kg•d)组各实验参数值均比对照组高, 其差异具有统计学意义(P<0.05)。结论: 大剂量Hal有可能诱发卵母细胞非整性增加并引起卵母细胞退化。

**关键词** [氟哌啶醇](#); [卵母细胞](#); [非整倍体](#); [染色体分离](#)

## Effects of Haloperidol on Mouse Oocyte Chromosomes

HUANG Ji -hua; YANG Fang -ju

The Department of Pharmacology of West-China Medical Center of Sichuan University, Chengdu 610041, Sichuan, China

**Abstract BACKGROUND & AIM:** To investigate the effects of haloperidol (Hal) on oocyte chromosomes in oogenesis. **MATERIAL AND METHODS:** Forty healthy female mice, 12 weeks-old, were randomly divided into four groups. The animals of different groups were exposed to Hal by intra-peritoneal injection of 0, 0.05, 0.50 and 5.00 mg/(kg•d) of Hal for successive 8 days, respectively. Oocytes were collected by superovulation and the metaphase were prepared for karyotypic analysis. **RESULTS:** For 0, 0.05, 0.50 and 5.00 mg/(kg•d) Hal-groups, the frequencies of hyperhaploid complements were 3.8 %,4.4 %,7.3 %,18 %, the frequencies of aneuploid complements were 7.5 %,8.8 %,14.5 %,36.0 %, the frequencies of degenerative oocytes were 1.3 %,1.4 %,1.8 %,10.0 % and the mean number of splitting chromosomes were 0.013,0.014,0.018,0.100, respectively. Comparing all the experimental parameters of the 0.05 and 0.50 mg/(kg•d) Hal-groups with those of the control, no significant differences were observed (P>0.05). All the experimental parameters of 5.00 mg/(kg•d) Hal-group were higher than those of the control, and the differences of the parameters between two groups were statistically significant. **CONCLUSION:** A large-dose of Hal might be able to induce aneuploidy and degeneration of oocytes in oogenesis.

**Keywords** [haloperidol](#) [oocyte](#) [aneuploidy](#) [degeneration](#)

DOI

通讯作者 杨芳炬 [yangfangju@hotmail.com](mailto:yangfangju@hotmail.com)

扩展功能	
本文信息	
▶ <a href="#">Supporting info</a>	
▶ <a href="#">[PDF全文](683k)</a>	
▶ <a href="#">[HTML全文](82k)</a>	
▶ <a href="#">参考文献</a>	
服务与反馈	
▶ <a href="#">把本文推荐给朋友</a>	
▶ <a href="#">加入我的书架</a>	
▶ <a href="#">Email Alert</a>	
相关信息	
▶ <a href="#">本刊中 包含“氟哌啶醇; 卵母细胞; 非整倍体; 染色体分离”的 相关文章</a>	
▶ 本文作者相关文章	
· <a href="#">黄继华;杨芳炬</a>	