

论文

一种新型呕吐动物模型水貂

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摘要:

目的 用水貂建立一种新型呕吐动物模型。方法 将水貂随机分组,给予3种经典致呕剂顺铂、阿朴吗啡、硫酸铜及X射线全身照射,测定致吐反应和抗呕吐药的抗呕吐反应,最后取水貂肠管进行5-HT免疫组化检测。结果顺铂(7.5 mg·kg⁻¹, ip)、阿朴吗啡(1.6 mg·kg⁻¹, sc)和硫酸铜(40 mg·kg⁻¹, ig)3种致呕剂均使水貂发生恶心、干呕和呕吐,顺铂引起水貂呕吐的阈值剂量为5 mg·kg⁻¹。昂丹司琼和甲氧氯普胺可抑制顺铂和阿朴吗啡所致的干呕、呕吐。5-HT免疫组化结果提示,肠道EC细胞5-HT释放参与呕吐的发生机制。结论水貂可作为一种新型呕吐模型,这对于抗呕吐机制和新药筛选研究有意义。

关键词: 呕吐 水貂 顺铂 昂丹司琼 阿朴吗啡 X射线

A new vomiting animal model mink

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Abstract:

Aim To establish a new, reliable vomiting model in minks. Methods Adult male minks (*Mustela vison*) were randomly divided into groups (n=6). Cisplatin, apomorphine, copper sulfate and X-radiation were used to establish vomiting model. Retching and vomiting were observed after the vomiting models were given anti-vomiting agents. After the behavioral experiment, assay of 5-HT in the ileum was performed by immunohistologic method. Results Cisplatin 7.5 mg·kg⁻¹ ip, apomorphine 1.6 mg·kg⁻¹ sc and copper sulfate 40 mg·kg⁻¹ ig were shown to evoke vomiting. Retching and vomiting were significantly inhibited in ondansetron and metoclopramide pretreated minks (P<0.05, P<0.01). Conclusion As a new vomiting model, minks may be of great value in studying vomiting mechanism and screening new antiemetic drugs.

Keywords: mink cisplatin ondansetron apomorphine X-radiation vomit

收稿日期 2002-02-15 修回日期 网络版发布日期

DOI:

基金项目:

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