

论文

氯哌胺对15-甲基前列腺素F_{2α}致泻和兴奋子宫作用的影响

宋国秀;张亚竞;张莉;任美月;褚云鸿

上海第一医学院基础部药理研究室

摘要:

氯哌胺(Loperamide)是一种新型止泻药,能拮抗15-M-PGF_{2α}引起的小鼠小肠内碳粉推进加速和腹泻,作用比吗啡和阿托品强,对离体大鼠回肠的抑制作用也比吗啡、阿托品强。氯哌胺能降低肠平滑肌张力,抑制离体大鼠回肠对15-M-PGF_{2α}的反应性,但却增强子宫平滑肌对15-M-PGF_{2α}的反应性。氯哌胺对离体大鼠子宫自发收缩活动低浓度兴奋、高浓度抑制。氯哌胺对15-M-PGF_{2α}促进大鼠空肠水和钠离子分泌也有拮抗作用,此作用不能被纳洛酮翻转。氯哌胺在小鼠的急性半数致死量为77.9 mg/kg。

关键词: 氯哌胺 15-甲基前列腺素F_{2α}

EFFECT OF LOPERAMIDE ON 15-METHYL-PGF₂ INDUCED DIARRHEA AND UTERINE STIMULATING ACTION

Song Guo-Xiu; Zhang Ya-Jing; Zhang Li; Ren Mei-Yue and Chu Yun-Hong

Abstract:

Loperamide is a novel type of antidiarrheal agent. In mice Loperamide was shown to be a potent blocker of 15-methyl-PGF_{2α}-induced diarrhea and charcoal progression in the intestine. The inhibitory potency of Loperamide was greater than that of morphine and atropine. The results of experiments on isolated smooth muscles showed that Loperamide inhibited the contractive response of rat jejunum to 15-methyl-PGF_{2α}. However, it increased the contractive response of uterus to 15-methyl-PGF_{2α}. Loperamide in dose of 2.5×10⁻⁷ g/ml stimulated but in dose of 10⁻⁶ g/ml inhibited the spontaneous contraction of rat uterus. Loperamide antagonized the action of 15-methyl-PGF_{2α} on increasing jejunum secretion. This antagonizing effect could not be reversed by naloxane. The LD₅₀ of Loperamide in mice was determined to be 77.9 mg/kg by intraperitoneal injection.

Keywords: 15-methyl-prostaglandin F_{2α} Loperamide

收稿日期 1984-07-30 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

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.)

扩展功能

本文信息

- ▶ Supporting info
- ▶ PDF(248KB)
- ▶ [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

- ▶ 氯哌胺
- ▶ 15-甲基前列腺素F_{2α}

本文作者相关文章

- ▶ 宋国秀
- ▶ 张亚竞
- ▶ 张莉
- ▶ 任美月
- ▶ 褚云鸿

PubMed

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

反馈人

邮箱地址

反
馈
标
题

验证码

5823