本期目录 | 下期目录 | 过刊浏览 | 高级检索

[打印本页] [关闭]

延胡索乙素对大鼠垂体促肾上腺皮质激素(ACTH)分泌的刺激作用

刘耕陶:雷海鹏

中国医学科学院药物研究所药理系、北京

摘要:

鎮痛药嗎啡以及安定药氯丙嗪均有刺激垂体促腎上腺皮质激素释放的作用.延胡索乙素具有类似嗎啡的鎮痛作用和 类似氯丙嗪的安定作用,它是否也能引起垂体促腎上腺皮貭激素的释放是本文研究的問題. 实驗用体重80—150克的 雄性大白鼠,以腎上腺維生素C含量的下降做为垂体促腎上腺皮质激素释放的指标. 給大鼠皮下注射延胡索乙素50或 70毫克/公斤(有效鎮痛和安定剂量)后,腎上腺維生素C含量明显下降,說明延胡索乙素有兴奋垂体腎上腺系統的作 用。給去垂体大鼠注射延胡索乙素并不能引起腎上腺維生素C含量下降,說明延胡索乙素兴奋垂体-腎上腺系統的作 用在于引起垂体促腎上腺皮质激素的分泌,而不是直接兴奋腎上腺皮质。給大鼠注射戊巴此妥鈉40毫克/公斤,或注 射去氫皮貭醇(prednisolone)15毫克/公斤后,延胡索乙索引起垂体促腎上腺皮貭激素释放的作用消失,說明延胡索乙 ▶ Email Alert 素这一作用的部位有可能是在下视丘.

关键词:

THE STIMULATION OF THE RELEASE OF ACTH BY CORYDALIS BIN RATS

LIU KENG-TAO AND LEI HAI-PENG

Abstract:

Corydalis B has been reported to have strong analgesic and sedative actions resembling morphine and a number of tranquilizers. It is well.known that both morphine and the tranquilizers, such as reserpine and chlorpromazine, stimulate the release of ACTH, as well as depress the secretion of ACTH by the pituitary in response to a number of stressful stimuli under certain conditions. Since Corydalis B has been shown to have pharmacological properties similar to those of the aforementioned compounds, an attempt was made to study whether corydalis B would also affect the pituitary-adrenal axis. Experiments were carried out on male rats. A fall in adrenal ascorbic acid was used as the criterion for the release of ACTH. Subcutaneous injection of Corydalis B in a dose of 50 or 70mg/kg, the effective analgesic and sedative dosage, caused marked adrenal ascorbic acid and cholesterol depletion in intact rats. However, the ascorbic acid depleting effect of the compound disappeared in hypophysectomized rats. Pretreatment of rats with pentobarbital (40 mg/kg) or prednisolone (15 mg/kg) completely prevented the adrenal ascorbic acid depletion. Repeated injections of Corydalis B for 6 days, induced the development of tolerance to the pituitary-stimulating effect of the compound. From these results, it would appear that Corydalis B has a stimulatory action on the pituitary-adrenal system.

Keywords:

收稿日期 1962-12-28 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(420KB)
- ▶[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
- ▶ 文章反馈
- ▶浏览反馈信息

本文关键词相关文章 本文作者相关文章

- ▶刘耕陶
- ▶雷海鹏

PubMed

- Article by
- Article by

反馈人	邮箱地址	
反馈标题	验证码	3460

Copyright 2008 by 药学学报