本期目录 | 下期目录 | 过刊浏览 | 高级检索

[打印本页] [关闭]

#### 论文

尼可刹米呼吸兴奋作用机制的探讨

黄教成

中医研究院中药研究所:\*现在通迅处:甘肃省新医药学研究所

摘要:

研究了尼可刹米、戊四唑、洛贝林对乌拉坦麻醉猫、兔在几种不同给药途径时兴奋呼吸的阈量。在猫、尼可刹米静脉注射兴奋呼吸的阈量平均为24.9 mg/kg,椎动脉注射阈量为静脉量的1/35,窦区局部给药阈量约为静脉量的1/6。戊四唑静脉注射兴奋呼吸的阈量平均为8.5mg/kg,椎动脉注射阈量约为静脉量的1/4.5,窦区局部给药阈量约为静脉量的1/3,但部分动物在5 mg/kg时抑制呼吸。洛贝林静脉注射兴奋呼吸的阈量为0.5 mg/kg,椎动脉注射阈量为静脉量的1/10,但半数动物呈呼吸抑制反应,窦区局部给药阈量约为静脉量的1/8.5。在兔,尼可刹米静脉注射兴奋呼吸的阈量平均为40.8 mg/kg,椎动脉注射阈量约为静脉量的1/10,窦区局部给药阈量约为静脉量的1/8,但有较多的动物反呈呼吸抑制反应。戊四唑静脉注射兴奋呼吸的阈量为14.9 mg/kg,椎动脉注射阈量约为静脉量的1/3,窦区给药则多数动物呈现呼吸抑制反应。洛贝林静脉注射兴奋呼吸的阈量为2.2 mg/kg,椎动脉注射阈量为静脉量的1/8。窦区局部给药阈量约为静脉量的1/6。从以上结果,我们认为尼可刹米和戊四唑一样主要是兴奋呼吸中枢,但在较大剂量时也可观察到尼可刹米通过窦区反射性地兴奋呼吸。而一般认为主要是作用于颈动脉体反射性兴奋呼吸的洛贝林,似亦有中枢机制同时存在。

关键词:

#### ON THE MECHANISM OF THE RESPIRATION STIMULATING ACTION OF CORAMIN

**HUANG JIAO-CHENG** 

## Abstract:

The mechanism of the respiration stimulating action of coramin was studied in anesthetized animals by comparing the respiratory stimulant threshold dose (RSTD) using different ways of administration namely into the vein, into the vertebral artery and into the carotid artery. Cardiazol and lobelin were also studied in the same manner for comparison. The following results were obtained.1. In cats anesthetized With urethane (1 g/Kg, i. p.), the mean intravenous RSTD of coramin was 24.9 mg/Kg, the mean intravertebral about 1/35 (0.7 mg/Kg) and the mean intracarotid about 1/6 (4.3 mg/Kg) of the intravenous dose; the mean intravenous RSTD of cardiazol was 8.5 mg/Kg, the mean intravertebral about 1/4.5 (1.9 mg/Kg) and the mean intracarotid about 1/3 (3 mg/Kg) of the intravenous dose(but there developed respiratory depression instead of respiratory stimulation in some animals when injected intracarotidly); the mean intravenous RSTD of lobelin was 0.5 mg/Kg, the mean intravertebral about 1/10 (0.05 mg/Kg) and the mean intracarotid about 1/8.5 (0.06 mg/Kg) of the intravenous dose.2. In rabbits anesthetized with urethane (1 g/Kg, i. v.), the mean intravenous RSTD of coramin was 40.8 mg/Kg, the mean intravertebral about 1/10 (4.1 mg/Kg) and the mean intracarotid about 1/8 (5 mg/Kg) of the intravenous dose (here developed again respiratory depression in some animals while injected intracarotidly); the mean intravenous RSTD of cardiazol was 14.9 mg/Kg, the mean intravertebral about 1/3 (5 mg/Kg) of the intravenous dose and in the intracarotid injection experiments, most of the animals developed respiratory depression; the mean intravenous RSTD of lobelin was 2.2 mg/Kg, the mean intravertebral about 1/8 (0.3 mg/Kg) and the mean intracarotid about 1/6(0.4 mg/Kg) of the intravenous dose. From the above mentioned experiments, it can be concluded that coramin stimulates the respiratory centre directly. A reflex stimulation by way of the chemoreceptors in the carotid body could only be demonstrated with much larger doses.

#### Keywords:

收稿日期 1978-06-01 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

### 扩展功能

# 本文信息

- ▶ Supporting info
- PDF(652KB)
- ▶ [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 本文作者相关文章

▶黄教成

PubMed

Article by

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.)		
反 馈 人	邮箱地址	

验证码

3265

Copyright 2008 by 药学学报

反馈

标题