本期目录 | 下期目录 | 过刊浏览 | 高级检索

[打印本页] [关闭]

论文

中国萝芙木的药理研究, II.海南岛萝芙木的降压作用和毒性试验

曾贵云;郑幼兰;徐丽娜;王振纲;傅乃武;朱承喜;邝启荫;金荫昌

中国医学科学院药物研究所药理室

摘要:

关键词:

PHARMACOLOGICAL STUDIES ON CHINESE RAUWOLFIA, II .THE HYPOTENSIVE EFFECT AND TOXICITY OF RAUWOLFIA COLLECTED FROM HAINANDAO

TSENG KWEI-YUN CHENG YOU-LAN HSU LI-NAH WANG CHEN-KANG FU NAI-WU CHU CH'ENG-HSI KUANG CH'I-YIN CHIN YIN--CH'ANG

Abstract:

The rauwolfia plant growing on Hainandao has been identified to be also Rauwolfia verticillata (Lour.) Baill. The leaves and roots collected from that island were studied for hypotensive effect and toxicity. A crude extract of the leaves, the alkaloid, of leaves and roots, when injected intravenously at respective dosages of 50—200 mg (leaves)/kg, 3 mg/kg and 0.5—1 mg/kg produced remarkable and sustained drop of the blood pressure of anesthetized dogs. The pulse rate slowed down, the respiratory rate increased; and the intestinal tone increased. The pressor effect of adrenaline became potentiated. No tachyphylaxis appeared on repeated injection. All the hypertensive dogs, 9 treated with the crude extract of leaves at a daily dose of 4 g (leaves)/kg, 4 treated with the alkaloid of leaves at 20-40 mg/kg/day, and 3 treated with the alkaloid, of roots at 2-10 mg/kg, by oral route, showed remarkable fall of blood pressure. The pulse rate of most animals decreased. Sedation, pupil constriction, nictitating membrane relaxation and drop of eye-lids were also shown by most of the treated animals. Some showed also tremors and some others had soft stools. Among the preparations studied the alkaloid of leaves gave much less symptoms than the others. Nine hypertensive rats receiving a daily oral dose of 40—80 mg/kg also showed significant drop of blood pressure. The LD_{50} in mice has been found to be 74±2.5 g (leaves)/kg, 2.35±0.1 g/kg and 0.82±0.005 g/kg respectively for the crude extract of leaves and the alkaloid of leaves and roots, given by gastric tube. No effect on the growth of mice was found in subacute toxicity tests. The alkaloid of both leaves and roots did not affect the liver and kidney function, electrocardiogram, blood and urine components of dogs, but the crude extract of leaves appeared to produce some damage to the liver and kidney.

Keywords:

收稿日期 1959-08-12 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(494KB)
- ▶[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

- ▶曾贵云
- ▶郑幼兰
- ▶ 徐丽娜
- ▶王振纲
- ▶ 傅乃武
- ▶ 朱承喜
- ▶邝启荫
- ▶金荫昌

PubMed

- Article by
- Article by
- Article by
- Article by
 Article by
- Article by
- Article by
- Article by

反馈人	邮箱地址	
反馈标题	验证码	3922

Copyright 2008 by 药学学报