本期目录 | 下期目录 | 过刊浏览 | 高级检索

[打印本页] [关闭]

## 论文

三尖杉酯碱和高三尖杉酯碱的毒性

张永基:俞慧:骆雪缨:郑永兴:李文钧:刘雪莉:袁玉英

浙江人民卫生实验院药物研究所

摘要:

用小鼠、兔及犬研究了三尖杉酯碱(HA)和高三尖杉酯碱(HO)的毒性。兔及犬连续给药五或七天,两药毒性的主要靶器官都是胃肠道、心脏和造血器官。大多数毒性死亡皆可归因于心功能障碍。用致死剂量时,尚个别出现轻、中度肝、肾损害。间歇地重复给药共三疗程,未出现其它重大毒性,但心脏及造血显示为轻、中度累积性的毒性,毒性与剂量大小平行,可及时发现,停药后是完全可逆的。在至少六周的观察期内未见重大迟发毒性,两药均未见种属间、个体间或与性别有关的毒性性质上的显著差异。HA及HO的家犬中毒剂量(高)分别是0.45mg/kg/天×5及0.16mg/kg/天×7。小鼠急性LD<sub>50</sub>(±S.E.)分别是4.17±0.30及3.17±0.19mg/kg。HA与HO相比,两者毒性在性质上无重大差别,程度上则HO显著大于HA。

关键词:

#### TOXI COLOGICAL STUDIES OF HARRINTONINE AND HOMOHARRINGTONINE

Zhang Yongji; Yu Hui; Luo Xueying; Zheng Yongxing; Li Wenjun; Liu Xueli and Yuan Yuying

#### Abstract:

Harringtonine (HA) and homoharringtonine (HO), two new antileukemic agents, were submitted to toxicological studies in mice, rabbits and dogs. The major target organs involved in toxicity in rabbits and dogs produced by 5 or 7 day treatments with either alkaloid were limitted to G. I. tract, heart and hematopoietic organs. Most deaths were attributable to cardiac dysfunction. After injection of lethal doses, hepatic and renal toxicities of mild to moderate degree occurred only in individual cases. When such treatments were repeated for two additional courses, no additional significant toxicity was observed. However, the cardiac and hematopoietic toxicity appeared to be moderately cumulative. All toxicities observed were dose-dependent, predictable and completely reversible upon discontinuation of treatment. No significant delayed toxicity was noted during an observation period of 6 weeks or more. Neither inter or intraspecies nor sex related differences in qualitative toxicity of either HA or HO were observed.  $0.42 \text{ mg/kg/d} \times 5 \text{ of HA}$  and  $0.16 \text{ mg/kg/d} \times 7 \text{ of HO}$  were established as the toxic doses high for dogs. The  $LD_{50}$  S ( $\pm$ S·E) of HA and HO in mice (I. P.) were found to be  $4.17 \pm 0.30$  and  $3.17 \pm 0.19$  mg/kg, respectively. Although He was found to be more potent than HA, qualitatively the two alkaloids did not differ significantly.

#### Keywords:

收稿日期 1977-10-31 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(441KB)
- ▶ [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

- ▶ 张永基
- ▶ 俞慧
- ▶ 骆雪缨
- ▶郑永兴
- ▶ 李文钧
- ▶ 刘雪莉
- ▶袁玉英

## PubMed

- Article by
- ▶ Article by

反馈人	邮箱地址	
反馈标题	验证码	3096

Copyright 2008 by 药学学报