

论著

富硒大蒜对犬连续口服给药12周的长期毒性试验研究

林飞 梁恽 吕廉 陈珍 高凤鸣 杨文婕 韩文海

中国药品生物制品检定所, 北京 100050

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摘要 背景与目的: 研究富硒大蒜连续给药后对犬的毒性反应。材料与方法: 采用Beagle犬24只, 随机分为给予富硒大蒜不同剂量的3个给药组 (3.00 g/kg、1.50 g/kg和0.75 g/kg)和1个对照组(不服用富硒大蒜),连续口服给药12周, 停药后观察2周, 实验期间进行一般症状观察, 检查血象、生化、心电图、尿液等, 动物处死后计算脏器系数和并进行组织病理学检查。结果: 给药期高剂量组的犬间断性出现呕吐, 且摄食量减少, 血清总胆红素明显升高, 白蛋白降低, 胸腺和脾脏的系数值有一定升高。除中剂量组给药期总胆红素升高外(P<0.01), 其余各剂量组各期间的各检测指标与对照组间的差异均无统计学意义, 各组犬给药期和停药恢复期未见其它的毒性反应。结论: 富硒大蒜在相当于临床人拟用量30倍下, 仅出现轻度消化道刺激症状和血清总胆红素数值的升高。犬用药的无明显毒性反应剂量为0.75 g/kg。

关键词 [富硒大蒜](#); [Beagle犬](#); [长期毒性](#); [消化道刺激](#); [总胆红素](#)

Long-term(12-week)Toxicity Test on Dogs with Selenium-enriched garlic

LIN Fei, LIANG Yi, LU Lian, CHEN Zhen, GAO Feng-ming, YANG Wen-jie, HAN Wen-hai

National Institute for Control of Pharmaceutical and Biological Products, Beijing 100050, China

Abstract BACKGROUND AND AIM: To evaluate the toxic reactions and severity in dogs fed continuously with selenium-enriched garlic. MATERIALS AND METHODS: Wistar dogs were divided into four groups (3.00 g/kg、1.50 g/kg、0.75 g/kg and a solvent control), fed continually for 12 weeks and observed for 2 weeks after stopping the medicine. General condition, haematology and biochemical tests, electrocardiogram, urine test, visceral dissection and coefficient and histopathology were performed. RESULTS: Dogs in the high dose group vomited intermittently, and appetite was decreased. Serum total bilirubin was obviously increased, the albumin lowered, the coefficients of thymus gland and spleen went up. No other toxics reactions were observed. CONCLUSION: The selenium-enriched garlic was a mild alimentary tract stimulant with obvious increase in the serum total bilirubin, at 30 times the clinical dose. The dose of 0.75 g/kg in dogs had no obvious toxicity reaction.

Keywords [selenium-enriched garlic](#) [Beagle dog](#) [long-term toxicity](#) [alimentary tract stimulant](#) [total bilirubin](#)

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