

论文
治疗高血压药物的研究 X III.野菊花成分HC-1的实验治疗及毒性

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摘要:

野菊花降压有效。本文实验用热醇提取出有效成分HC-1,并研究其疗效及毒性。麻醉猫小肠注射50—100毫克/公斤,2小时内的降压面积百分比为-19至-22%。正常血压狗4只,分别灌服50,100,130及150毫克/公斤,舒张压分别下降0,24,8及36毫米汞柱,作用缓慢,维持2小时以上。慢性肾型高血压狗3只,前2周每日灌胃100毫克/公斤,第3周每日灌胃200毫克/公斤。其中2狗血压显著降低。这3狗每周作心电图、血清磺溴酞钠存留率及全血非蛋白氮含量的测定,未见到严重毒性反应。另1只正常狗每日服300毫克/公斤,连续3周,除有时呕吐外,亦无其他严重毒性反应。HC-1产量较高,毒性不大,作用缓和,对麻醉与不麻醉动物有一定降压效果,可以推荐临床试用。

关键词:

STUDIES ON ANTI HYPERTENSIVE DRUGS X III. EXPERIMENTAL THERAPY AND TOXICITY OF HC-1, AN EXTRACT FROM CHRYSANTHEMUM INDICUM

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Abstract:

Chrysanthemum indicum is effective in lowering blood pressure. Extraction with hot ethanol yielded an active fraction, HC-1. In anesthetized cats, intraduodenal injections of 50—100 mg/kg of HC-1 produced an average "% of hypotensive areas" in 2 hours varying from -19% to -22%. Four normotensive dogs were fed 50, 100, 130 and 150 mg/kg resp., and the diastolic pressure dropped 0, 24, 8 and 36 mm Hg resp. The hypotensive action was slow and lasted more than 2 hours. Three renal hypertensive dogs were fed daily 100 mg/kg in the first 2 weeks, and 200 mg/kg for the 3rd week. Weekly tests on EKG, serum BSP retention, and blood NPN revealed no serious alterations. In two of them the blood pressure was brought down significantly. Daily feeding of 300 mg/kg to one healthy dog for 3 weeks brought forth no grave reactions except vomiting at times. HC-1 is marked with (a) high yield, (b) low toxicity, (c) mild action, and (d) certain hypotensive effects in anesthetized and unanesthetized animals. So it may be recommended to clinical trial.

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