

论文

蒙自藜芦的降压作用及机制

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摘要:

本文报导云南产蒙自藜芦的药理研究.给麻醉猫静脉注射0.1克/公斤后血压立即下降,最低降压率为52—72%.降压维持时间在1—2小时以上.反复给药无快速耐受现象.对心脏微增收缩振幅或无明显的作用.降压机制主要是作用于颈动脉窦及心肺感受区反射性地引起血压下降.该药对中枢有兴奋作用,对血管无直接作用,亦不具抗肾上腺素的作用.所含的主要降压成分可能为protoverine型结构的酯类生物碱,小鼠口服LD₅₀为20±3克/公斤.

关键词:

STUDIES ON HYPOTENSIVE EFFECT AND MECHANISM OF VERATRUM MENGZHEANUM LOES

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Abstract:

The root of *Veratrum mengtzeanum*, the Chinese medicinal plant "Li-Lu" was extracted by a modified Cramer's method. Our investigation was carried out on cats and rabbits under urethane anesthesia. Intravenous injections of 0.1—0.15 gm/kg produced a prompt fall of arterial blood pressure with an average reduction of 68% for cats and 38% for rabbits. In the lapse of 1—2 hours, the blood pressure gradually recovered. Repeated administrations revealed no tachyphylaxis. The fall of blood pressure was, as a rule, accompanied by bradycardia, respiratory depression, and sometimes, apnea (Bezold effect). The mechanism of the hypotensive effect of the drug was due to the action on the receptors of carotid sinus, heart, and lungs, which induced reflexly a fall of blood pressure. It was ascertained by the following facts: The hypotensive effect was clearly diminished by either vagotomy or denervation of the carotid sinus. After denervation of carotid sinus and vagotomy, the drug produced an increase of blood pressure. *V. mengtzeanum* could possibly possess also a direct stimulating action on the central nervous system. In the experiments on perfusing isolated cat's hind limb, the drug had no effect on the outflow. On rabbit's heart *in situ* the drug increased the contraction amplitude. In mice the oral acute LD₅₀ was found to be 20 ± 3 gm/kg. Respiratory depression and fine tremor somewhat like shivering were noticed.

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