本期目录 | 下期目录 | 过刊浏览 | 高级检索 [打印本页] [关闭] 论文 滇西嘟拉碱甲的镇痛和身体依赖性研究 唐希灿:刘雪君:陆维华:王懋德:李爱玲 中国科学院上海药物研究所,上海;*山东昌潍医学院药理教研组;**昆明医学院药理教研组;*上海医 摘要: 用扭体法、热板法、光热-甩尾法和甲醛致痛法证实Bul有明显镇痛作用。连续给药9 d,镇痛作用无 跳跃反应试验阴性;Bul对吗啡依赖大鼠或猴的戒断症状,均无替代作用。Bul的镇痛作用不能被纳络 取消Bul的镇痛作用,补充5-HT或5-HTP能翻转利血平取消Bul的镇痛作用。 关键词: 滇西嘟拉碱甲 烯丙吗啡 纳络酮 利血平 5-羟色胺 止痛 吗啡依赖 STUDIES ON THE ANALGESIC ACTION AND PHYSICAL DEPENDENCE OF BULLEYACONITINE A TANG Xi-Can; LIU Xue-Jun; LU Wei-Hua; WANG Mao-De and LI Ai-Ling Abstract: Aconitum bulleyanum Diel is an herb which has been used as an anodyne in Yunnan provi time. Bulleyaconitine A (Bul), an active principle, was extracted from this herb. The analge Bul has been shown in this paper by using the following methods: mice writhing evoked by acetic acid 10 ml/kg; mice hot plate $(56^{\circ}C)$; continuous pain stimuli elicited by sc formalde paw⁽⁸⁾ and-rat tail-flick response to light irradiation. The relative analgesic effect of Bul wa $1.8 \sim 3.25$, $15.3 \sim 65.5$ and $1208 \sim 7195$ times as potent as 3-acetylaconitine, morphine and respectively. The duration of analgesic effect of Bul assayed with pain stimuli of formalder was longer than that of morphine. No tolerance of analgesic effect was found after daily so mg/kg for 9 d in mice assayed with hot plate method. In nalorphine-challenge test, no jun

was observed in mice assayed with not plate method. In halorphine-challenge test, no jumping response was observed in mice treated with Bul 1.2 mg/kg, the maximal tolerance dose. Rats were given sc morphine 2.5 mg/kg bid for 120 d, withdrawal of morphine was followed by a decrease in body weight, which was used as a parameter of abstinence syndrome, Bul sc 0.1 mg/kg did not alter theoweight loss of morphine-treated rats. One male monkey developed physical dependence after se morphine of which the daily dose was increased progressively from 2.5 to 25 mg/kg in 21 d and then maintained for 120 d. Bul 30 μ g/kg sc did not supress the withdrawal signs evoked by ip nalorphine 0.5 mg/kg. The results indicate that Bul induced no morphine-like tolerance nor physical dependence. The analgesic action of Bul was not antagonized by naloxone, but was eliminated by intraperitoneal injection of reserpine 3 mg/kg 3 h prior to Bul. The antagonistic action of reserpine to Bul could be reversed by icv 5-HT or ip 5-HTP given 3 h after reserpine. So, the analgesic effect of Bul may be related to the 5-HT level in brain. It was found that Bul exhibit strong local anesthetic activity when injected around the Sciatic erve in mice, the ED₅₀ concentration of Bul (50% mice with signs of sciaric nerve block) was 0.0029%.

Keywords: Nalorphine Naloxone Reserpine 5-HT Analgesia Morphine dependence Bulleyaconitine A

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