

论文

蝙蝠葛碱对异丙肾上腺素和Ca²⁺量效反一应及猫乳头肌电一机械活动的影响

李贵荣;方达超;胡崇家;吕富华

武汉医学院药理教研室,汉口;*现在通讯地址:西安医学院药学系药理教研室

摘要:

蝙蝠葛碱对异丙肾上腺素量一效反应的影响与戊脉安和粉防己碱相似,不同于β-受体竞争性拮抗剂心得安。对Ca²⁺量一效反应的影响,亦与戊脉安和粉防己碱相似,表现为竞争性和非竞争性双重拮抗作用。在对猫乳头肌电一机械活动影响方面,对SEG的影响类似奎尼丁:R波降低,增宽,R-T延长;但同时显著抑制收缩力。结果说明蝙蝠葛碱可能具有“钙拮抗剂样”抗Ca²⁺作用和“奎尼丁样”抑制Na⁺内流的作用。

关键词: 蝙蝠葛碱 粉防己碱 戊脉安 Ca²⁺量一效反应 猫乳头肌电一机械活动 钙拮抗剂 双重性拮抗作用

EFFECTS OF DAURICINE ON THE DOSE—EFFECT RESPONSE OF ISOPRENALINE AND Ca²⁺ AND THE ELECTRO-MECHANIC ACTIVITY IN CAT PAPILLARY MUSCLE

LI Gui-rong; FANG Da-chao; HU Chong-jia and LU-Fu-hua

Abstract:

Dauricine (D), an alkaloid, isolated from *Menispermum dauricum* DC., was reported to have antiarrhythmic and hypotensive effects. The effects of dauricine on the dose—effect response of isoprenaline and Ca²⁺ and the electro-mechanic activity in cat papillary muscle were studied and compared with tetrandrine and/or verapamil, propranolol and quinidine. 1. Dauricine 8×10⁻⁵ M decreased and shifted the isoprenaline(ISO)dose—response curve to the right non-parallelly. It appears that dauricine is similar to tetrandrine and verapamil, but different from propranolol in this respect. 2. Dauricine, as tetrandrine and verapamil, showed dualistic action in Ca²⁺-antagonism. 3. Effect of dauricine on the electro-mechanic activity: it depressed and widened the R wave, prolonged R-T of the surface electromyogram of the papillary muscle, and its inotropic action was analogous to that of tetrandrine. It seems that dauricine possesses not only Ca-antagonistic but also "quinidine-like" action.

Keywords: Tetrandrine Verapamil Ca²⁺ dose-effect response Electromechanic activity of cat papillary muscle Ca-antagonists Dualism in antagonism Dauricine

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