

论文

樟柳碱中枢药理作用的实验观察

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摘要:

将樟柳碱注入家兔侧脑室,可引起翻正反射消失,皮层自发电活动呈现不规则高幅慢波,表明该药有中枢抑制作用。在一定剂量范围内,剂量加大,抑制作用增强,维持时间延长。毒扁豆碱、去甲肾上腺素、肾上腺素能拮抗樟柳碱的中枢抑制作用,而苄胺唑啉则与之有协同作用。结果提示樟柳碱的中枢抑制作用,不仅与其抗胆碱作用有关,还可能与其抗肾上腺素能作用有一定关系。

关键词:

THE ACTION OF ANISODINE ON CENTRAL NERVOUS SYSTEM

Bian Chunfu and Duan Shiming

Abstract:

Anisodine was administered to 4 groups of rabbits intraventricularly (5, 10, 15 and 20 mg). It was observed that 5 mg doses were effective to make the animals lose their righting reflexes. Increasing the dosage prolonged and aggravated the central depressant effect of anisodine. Following administration of anisodine (10 mg), the duration of loss of righting reflex lasted 25.0±2.6 minutes. The combined use of anisodine with physostigmine (0.2mg i. v.), noradrenaline or adrenaline (100µg intraventricularly) induced loss of righting reflex of short duration, 15.1±3.2, 11.0±1.4 and 14.8±3.1 minutes, respectively (P<0.01); and at the same time, the central depressant effect became less marked. On combination with regitine (1 mg intraventricularly), the duration of loss of righting reflex was prolonged to 50.0±10 minutes (P<0.05) with the central depressant effect potentiated. Following intraventricular anisodine (0.4 mg), a gradual EEG change from low voltage rapid wave to high voltage slow wave was observed lasting for about 6 hours. Additional intravenous physostigmine 0.2 mg/kg, given 15 minutes after the administration of anisodine, produced a reappearance of low voltage rapid wave lasting for about 30 minutes, while the similar use of noradrenaline or adrenaline (150 µg intraventricularly) gave a transient reappearance, lasting 3~4 minutes only. These results suggested that the central depressant effect of anisodine can be antagonized by physostigmine and adrenomimetics, while regitine is synergistic.

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