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论文

麻醉剂量羟甲芬太尼对大鼠血浆皮质酮、皮质醇和抗利尿激素含量的影响

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摘要:

关键词: 羟甲芬太尼 皮质酮 抗利尿激素 放射免疫测定法

EFFECTS OF OHMEFENTANYL AT ANESTHETIC DOSE ON PLASMA LEVELS OF CORTICOSTERONE,CORTISOL AND ANTIDIURETIC HORMONE IN RATS

XL Jin;WQ Jin;DH Zhou;GF Li and ZQ Chi

Abstract:

Ohmefentanyl (OMF) is a new μ opioid receptor agonist with high affinity and selectivity, and possesses anesthetic activity. With radioimmunoassay, the plasma levels of cortisol(C), corticosterone (CS) and antidiuretic hormone (ADH) in rats were measured. The results indicated that no significant differences in the plasma C, CS and ADH levels were observed between the saline control group and the OMF- treated group. Trauma (bone-crush injury) increased significantly the plasma CS level. However, pretreatment with OMF 4.0 $\mu g \cdot kg^{-1}$ reduced markedly the CS plasma levels in trauma treated rats. The results suggest that OMF anesthesia itself showed no obvious effect on the plasma concentration of C, CS and ADH, but blocked the hormoral stress responses such as the increment of plasma CS level caused by trauma stimulus.

Keywords: Corticosterone Antidiuretic hormone Radioimmunoassay Ohmefentanyl

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