

论文

北五味子对犬条件反射的影响

赫梅生

沈阳医学院药理教研组,沈阳

摘要:

国外文献关于北五味子对条件反射的影响说法不一。本工作就此问题作某些探讨。以拍节音作为条件刺激结合食物强化对犬形成阳性条件反射,而后使其消退,并观察不同剂量的北五味子对消退抑制的影响。实验证明,在条件反射消退初期,对犬使用小剂量(0.03克/公斤)的北五味子能减弱消退抑制;0.05克/公斤时效果不定;0.1—0.2克/公斤时能加强消退抑制。但当消退抑制已巩固形成后,则北五味子不论剂量大小皆不表现任何影响。小剂量北五味子对消退抑制的影响在表现上与咖啡碱相似,但较后者为弱,因为后者当消退抑制巩固形成后仍能使消退抑制减弱。

关键词:

THE EFFECT OF SCHIZANDRA CHINENSIS BAILLON ON THE CONDITIONED REFLEXES OF THE DOG

HO MEI-SHENG

Abstract:

The effect of *Schizandra chinensis* Baillon on the higher nervous activity of the dog was studied with the conditioned reflex method in a specially constructed soundproof chamber. A positive reflex of salivary secretion was established on condition that the dog was given the metronome sound (80/min) as a conditioned stimulus and the food, an unconditioned stimulus (reinforcement). By means of stopping repeated reinforcement, the effect of the aqueous extract of the drug on conditioned stimuli might be tested in order to investigate how far the extinction would be influenced. It was found that the effect of the drug depended chiefly on the dosage and the stability of the extinctive inhibition in the test. A dose of 0.03 g/kg of the drug diminished the extinctive inhibition at the early stage of extinguishing, as shown by delaying the appearance of extinction. A similar but unstable effect was obtained with a dose of 0.05g/kg, and the extinctive inhibition was strengthened with doses of 0.1-0.2 g/kg, as shown by the earlier appearance of extinction. However, once the extinctive inhibition was firmly established, there was no effect even with the large doses. With smaller doses, the drug behaved like caffeine, but was weaker.

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