

论文

丹参对中枢神经系统的抑制作用

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摘要:

丹参使小鼠安静、驯服,对动物的自主活动有明显的抑制作用,该作用与剂量大小成正比。与氯丙嗪和眠尔通合并应用,使其作用增强。丹参抗惊厥作用不明显,但对抗苯丙胺的精神运动兴奋作用却较明显。丹参虽然有明显的镇静作用,但不能引起动物睡眠,若与巴比妥类或非巴比妥类镇静催眠药合并应用,可以非常明显的增强这些药物的催眠作用,其作用与已知的安定药相似。

关键词:

THE INHIBITORY EFFECT OF SALVIA MILTRIORRHIZA BGE ON THE CENTRAL NERVOUS SYSTEM

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Abstract:

Salvia miltiorrhiza Bge (S. M. B.) is a medicinal herb widely used in traditional Chinese medicine. In this article some results of studies on the action of S. M. B. on the central nervous system is reported. Crude extract of S. M. B. was used in the experiments. The dosage was expressed in terms of the weight of the crude drug. All drugs were prepared in aqueous solution and administered by the intraperitoneal or oral route to groups of 10—20 animals. When S. M. B. was administered, animals became calm and tame. The spontaneous activity was significantly decreased and the effect increased with increased dosage. At the dosage of 0.5 g/kg, the spontaneous activity was only slightly diminished, while at 4 g/kg and 16 g/kg the percentages of inhibition were 60% and 90%, respectively. The inhibitory effect on spontaneous activity of chlorpromazine at the dosage of 0.5 mg/kg or of meprobamate at 100 mg/kg was not obvious, but when given in combination with S. M. B. the inhibitory effect was markedly enhanced. The S. M. B. did not show obvious anticonvulsive effect, but the stimulating effect of amphetamine on spontaneous activity was antagonized by S. M. B.. While 2 of 20 control animals were put into sleep after administration of 25 mg/kg of pentobarbital, all of 20 animals fell into sleep after treatment by pentobarbital and S. M. B.. After the administration of 125 mg/kg of barbital, 1 in 10 animals fell into sleep. When the barbital was used in combination with S. M. B., 9 out of 10 animals fell asleep. Chloral hydrate given by mouth at 250 mg/kg was not hypnotic. However, when it was administered in combination with S. M. B., 4 out of 10 animals fell a sleep. Although S. M. B. can strengthen markedly the hypnotic effect of barbiturates as well as nonbarbiturate, sleep is not induced, however, by S. M. B. alone. It may be postulated on the basis of these results that S. M. B. possesses the properties of a tranquilizer.

Keywords:

收稿日期 1978-06-01 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

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