Potentiation of pentobarbital hypnosis by Rosa damascena in mice.

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Source

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Abstract

Rosa damascena has been found to act on central nervous system including brain. It inhibits the reactivity of the hypothalamous and pituitary systems in rat. In traditional medicine hypnotic effect of Rose is also suggested. In the present study hypnotic effect of ethanolic, aqueous and chloroformic extracts of R. damascena was investigated in mice. Hypnotic method was based on potentiation of pentobarbital induced sleeping time by extracts. Three doses of extracts (100, 500 and 1000 mg/kg) were injected i.p. in comparison with diazepam (3mg/kg) as positive control and saline as negative control. After 30 min of injection of extracts, pentobarbital (30mg/kg) was injected and increase in sleeping time by extracts was recorded. The results showed that the ethanolic and aqueous extracts in 500 and 1000 mg/kg doses significantly increased pentobarbital induced sleeping time which was comparable to diazepam. The chloroformic extract had no hypnotic effect.

PMID:17205713
[PubMed - indexed for MEDLINE]