

2nd International Conference on Pharmaceutics & Novel Drug Delivery Systems

20-22 February 2012 San Francisco Airport Marriott Waterfront, USA

TITLE

Sedative-hypnotic Effects of Viola tricolor

**Ahmad Ghorbani,
Naeimeh Javadi Yoosof-abad,
Hassan Rakhshandeh**

Neyshabur Mashhad University of Medical
Sciences, Iran

Traditionally, Viola tricolor has been recommended for its sedative property. However, no pharmacological studies have yet evaluated the effect of this plant on sleep. The hydro-alcoholic extract (HAE) was prepared by the extraction of the aerial parts of V. tricolor in 70% ethanol using a Soxhlet apparatus. Also, three fractions namely water (WF), ethyl acetate (EAF), and N-butanol (NBF) were prepared from the HAE. The extract (50, 75, 100, 150, 200, 300 mg/kg, ip) and its fractions (200 mg/kg, ip) were administrated to mice, 30 min before pentobarbital (30 mg/kg, ip) injection. The HAE, at 300 mg/kg, significantly prolonged (34%) duration of pentobarbital-induced sleep. Similarly, the EAF increased (51%) the sleep duration. The effect of EAF was comparable to that of induced by diazepam. None of the HAE doses nor the fractions could significantly change the sleep latency time. The results suggest that V. tricolor potentiates pentobarbital hypnosis and that the main component(s) responsible for this effect is most likely to be polar agent(s) which found in EAF of this plant.

Biography

Ahmad Ghorbani has completed his Ph.D at the age of 33 years from Shiraz University of Medical Sciences, Shiraz, Iran. He is the assistant professor of physiology in Neyshabur Faculty of Medical Sciences, Iran. He has published more than 11 papers in reputed journals.