

Study the Analgesic Activity of Nigella Sativa L. Volatile Oil Against Pain in Mice

Abstract

Objective: The black seed, *Nigella sativa* (NS) is a member of the family Ranunculaceae Known commonly as (black cumin). Recently many biological activities have been reported. The present study was carried out to evaluate the in vivo analgesic activity of the seeds volatile oil. Materials & Methods: The extract was prepared by 50 gram of seeds powder was extracted in soxhlet apparatus. The extract was concentrated under reduced pressure. The concentrated extract was distilled. The distillate was dried over magnesium sulphate. We got 0.5 ml of yellow volatile oil. Writhing test was used as analgesic test by injected each mouse with (0.2 ml) acetic acid (7 %) intraperitoneally and we have been measured the number of writhing for 20 minutes to see the result. Aspirin (acetyl salicylic acid) was used as standard drug. Results: The results shows that volatile oil of *Nigella sativa* and may be its constituent, thymoquinone, have a good significant effect against pain $p < 0.05$, $p < 0.01$ and $p < 0.001$ to the doses 0.05 ml, 0.1 ml and 0.2 ml respectively in dependent dose. Conclusion: The volatile oil of *Nigella sativa* could be considered as a good analgesic activity.