PRELIMINARY STUDY ON THE EFFECT OF TUALANG HONEY AND NICOTINE ON BODY WEIGHT OF RATS

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Abstract

This study was conducted to investigate the effects of honey and nicotine on body weight of rats. Thirty male adult Sprague-Dawley rats were randomly divided into 5 groups, honey (H), control honey (CH), nicotine (N), control nicotine (CN), and co-administration of honey with nicotine (HN) groups. The rats were daily injected with 0.5 mg/100g body weight of nicotine and force-fed with 1.0 ml/100g body weight of honey for N and H groups, respectively. However, for HN group, the rats were injected with 0.5 mg/100g nicotine and force-fed with 1.0 ml/100g honey. The rats were weight once in three days for 60 days. The present results showed that the body weight of both H and N groups were reduced when compared to both CH and CN groups. Body weight of H group was also reduced as compared to that observed in HN and N groups. This study suggested that honey is potentially useful in reducing body weight of nicotine treated rats.

Keywords: Tualang honey, nicotine, body weight, rat