INFLUENCE OF Hibiscus sabdariffa L. CALYX EXTRACT ON ALVEOLAR HISTOPATHOLOGICAL FEATURE OF CIGARETTE SMOKE EXPOSED MICE

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ABSTRACT

The purpose of this study was to know influence of Hibiscus sabdariffa L. calyx extract on alveolar histopathological feature of cigarette smoke exposed mice. Twenty male mice (Mus musculus) aged 3 months old with 25-30 g of body weight were divided into four groups. There were P1 (without cigarette smoke and Hibiscus sabdariffa L. ethanol extract), P2 (cigarette smoke), P3 (250 mg/kg body weight of Hibiscus sabdariffa L. ethanol extract and cigarette smoke), and P4 (500 mg/kg body weight of Hibiscus sabdariffa L. ethanol extract and cigarette smoke). This research has been conducted for 14 days. The data were analyzed by Kruskal-Wallis test. The result showed that Hibiscus sabdariffa L. calyx extract did not influence congestion, hemorrhage, and thickening of alveolar septa on alveolar histopathological feature of cigarette smoke exposed mice.

Keywords: Hibiscus sabdariffa, alveolar histopathological feature, cigarette smoke