THE EFFECT OF KEPOK BANANA PEEL (*Musa acuminata*) EXTRACT IN LUNG MALONDIALDEHYDE (MDA) LEVEL IN MALE MICE (*Mus musculus*) EXPOSED BY CIGARETTE SMOKE

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ABSTRACT

This research aimed to determine the effect of kepok banana peel extract (*Musa acuminata*) that given by per oral on the decreasing of malondialdehyde (MDA) levels in lung of male mice (*Mus musculus*) which was exposed by cigarette smoke. The 24 experimental male mice were divided into 6 groups. The therapy was given for 14 days, all mice were sacrificed and lung MDA level were examined with thiobarbituricacid (TBA) methods. The result of the data analysis test using one-way ANOVA (Analysis of Variance). It showed that there were significant differences between the group of animals that exposed by cigarette smoke ($\bar{x} = 840.50 \pm 186.47$ nmol / g) and the group of animals that were given with extract of kepok banana peel 56 mg / kg bw ($\bar{x} = 6471.25 \pm 69.25$ nmol/g). Besides that, there was an significant difference between the groups of animals that were exposed cigarette smoke ($\bar{x} = 840.50 \pm 186.47$ nmol / g) with the group of animals that were given with vitamin C 260 mg/kg bw ($\bar{x} = 555.25 \pm 61.16$ nmol / g). It could be concluded that extract of kepok banana peel and vitamin C could decrease MDA levels in lung of male mice which was exposed cigarette smoke. The increased therapy dose gave affect in lowering levels of malondialdehyde in lung.

**Keyword**: *Musa acuminata*, malondialdehyde (MDA), lung, vitamin C