

ABSTRACT

EFFECTS OF SOURSOP LEAVES (*Annona Muricata L.*) EXTRACT TO SIALIC ACID LEVELS OF LIVER TISSUE IN FEMALE SPRAGUE-DAWLEY RATS INDUCED BY 7,12-DIMETHYLBENZ[A]ANTHRACENE (DMBA)

By

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Background: Cancer is incontrollable proliferation of cell in our body. Liver cancer is one of global health problem, in the developing countries including Indonesia. 696,000 people died of liver cancer every year. *Annona Muricata L* is natural materials which contains antioxidant and anticancer in its leaves. **Methods:** This study aimed to determine the effect of leaf extract of soursop (*Annona muricata L.*) against sialic acid levels of DMBA-induced mice. This research is an experimental design consist of 4 treatment groups, each group consisting of 5 Sprague Dawley rats. Group 1 (-) (negative control) was given 1ml/day of distilled water; group 2 (+) (positive control) was given DMBA 2x20 mg/kg/week and water 1ml/day; group P 1 (treatment 1) given DMBA 2x20 mg/kg/week + soursop leaf extract 20 mg/kg/day; and group P2 (treatment 2) given DMBA 2x20 mg/kg/week + soursop leaf extract 40 mg/kg/day. The sialic acid probes using warren method. **Result:** statistically significant differences tested by One-Way ANOVA ($p < 0,05$) and Post Hoc LSD ($p < 0,05$). The result test showed that soursop leaf extract can reduce levels of sialic acid on rat liver tissue that was induced by DMBA.

Keywords : DMBA, Extract, Sialic Acid, Soursop leaves.