

## ABSTRACT

### THE EFFECT OF GIVING SOURSOP LEAF EXTRACT TO HEMOGLOBIN LEVELS IN RATS INDUCED BY CARCINOGEN *7,12DIMETHYLBENZ[ $\alpha$ ]ANTHRACENE (DMBA)*

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**Background:** Cancer is proceed proliferation of normal cell become abnormal and uncontrolled. Human Death rates increase every year caused by cancer. Treatment of cancer include surgery, radioterapy, and chemotherapy have side effect. Thats why, we should seek an alternative medicine, is like soursop leaf (*Annona muricata L.*) that contain antioxidant and anticancer agen.

**Methods:** the aim for this reserach is to determinete influence of giving soursop leaf extract to hemoglobin levels on female rats that already induced by DMBA. The design of this study was experimental design with 4 group of interventetion. Each group contain 5 female sparague dawley rats. Group K(-)(control negative) given 1 ml/day of aquadest; group k(+) (control positive) given 20mg/kgBB of DMBA twice a weak; group P1 (frist treatment) given 20 mg/kgBB of DMBA twice a weak and 20mg/kgBB of extract sourop leaf and group P2 (second treatment) given 20mg/kgBB of DMBA and 40 mg/kgBB soursop leaf extract. During the study, statistical test was using *one-way ANNOVA* ( $p < 0,05$ ) and uji *Post-hoc Mann Whitney* ( $p < 0,05$ ).

**Results:** Based on the results of the study can be drawn a conclusion that the soursop leaf extract has no effect to blood hemoglobin levels to mice induced with DMBA

Keyword: *Annona muricata L.* extract, Hemoglobin levels, DMBA