ABSTRACT

THE CHEMOPREVENTIVE EFFECTS OF EXTRACTS COMPARE WITH INFUSE OF SOURSOP LEAVES (*Annona Muricata* L.) IN BREAST TISSUE OF FEMALE SPRAGUE-DAWLEY RATS INDUCED BY DMBA

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Breast cancer is a malignancy derived from epithelial ducts and lobules. The breast cancer is the second most common cancer in Indonesia after cervical cancer. The medical treatment of cancer still has a lot of side effects. This can be minimized by using chemopreventive agents of soursop leaf infusion and extract which works selectively attacking cancer cells.

This study is an experimental study with Post Test Only With Control Group Design, using 24 female Sprague-Dawley Rats and simply randomized into 4 groups. Group K (negative control) had 1 cc of aquadest every day; Group 1 (positive control) had induced DMBA 20 mg/kg 2 times a week, and were given Aquadest; Group 2 (extraction) had DMBA induced and soursop leaf extract dose of 40 mg/kg; Group 3 (infusion) had DMBA induced and soursop leaf infusion dose of 0.2 g/ml. Each treatment is given by using a sonde orally for 4 weeks.
From the results, the average of epithelial hyperplasia are K (0.03 ± 0.81), 1 (2.2 ± 0.21), 2 (0.7 ± 0.10), and 3 (1.03 ± 0.12). With Kruskall-Wallis and continued with post hoc test, there are significantly difference between groups (p<0.05).

**Keywords:** Soursop leaves, Extract, Infuse, DMBA.