ABSTRACT

THE EFFECT OF EXTRACT LEAVES of SOURSOP (Annona muricata Linn) HISTOPATHOLOGY DESCRIPTION OF THE BREAST IN WHITE RATS (Rattus norvegicus) FEMALE Sprague Dawley STRAIN INDUCED DMBA

By

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Cancer is the leading cause of death in the world with 7.4 million or 13% of deaths in 2004 (WHO, 2009). Household Health Survey (Survey) in 2002 showed that cancer is the third leading cause of death in Indonesia after heart disease and stroke. Breast cancer ranks first hospitalized cancer patients at the hospital from 2004 until 2008.

Utilization of traditional crops is likely to increase as the treatment of disease. Currently traditional medicine used by people in order to cope with health problems either as treatment or prevention of a disease. Soursop is used to cure cancer. Lots of content of bioactive phytochemical compounds found in plant soursop. One of the most important beneficial component is annonaceous acetogenins which has cytotoxicity against cancer cells (Zuhud, 2011).
This study is experimental by post only control group design with a sample of 25 rats. The results were obtained on soursop leaf extract showed significant differences in the results (p <0.05) for each group. This suggests that there is the effect of soursop leaf extract against rat breast histopathology picture. Soursop leaf extract on breast tissue DMBA-induced rats at a dose of 100 mg / kg lead to dysplasia. Increasing doses of soursop leaf extract led to a decrease in score of dysplasia in breast tissue DMBA-induced rats are of a dose of 100 mg / kg to 200 mg / kg and a dose of 200 mg / kg dose to 400 mg / kg.

Keywords: cancer, DMBA, soursop leaf extract.