

## ABSTRACT

### ANTI-INFLAMMATORY EFFECTIVENESS OF BINAHONG LEAVES EXTRACTS (*Anredera cordifolia* (Ten.) Steenis) IN MALE SPRAGUE DAWLEY RATS INDUCED BY CARRAGEENAN

By

ABIGAIL PHEILIA YT

Non Steroid Anti-inflammatory Drugs (NSAID) have been used as anti-inflammatory therapy but have side effect like gastrointestinal bleeding so natural anti-inflammatory is needed. Binahong (*Anredera cordifolia* (Ten.) Steenis) has nature substances which have anti-inflammatory characteristic like oleanolic acid, ursolic acid and flavonoid. The aim of this study is to test the effectiveness of binahong leaves extract as anti-inflammatory drug.

In this study, we investigated the antiinflammatory effect in male *Sprague Dawley* rats which was induced by carrageenan 1%. This study was an experimental study with pre and post test control group design. Twenty five rats was divided into five groups (a negative control with aquadest, a positive control with mefenamic acid, and three treatment groups with binahong leaves extract of dose 25,2 mg/200 g BB, 50,4 mg/200 g BB and 100,8 mg/200 g BB).

The results showed the anti-inflammatory capacity in positive control group, three groups of binahong leaves extract 25,2 mg/200 g BB, 50,4 mg/200 g BB and 100,8 mg/200 g BB were 11,00%, 5,10%, 10,49% and 0,82%.

The dose of binahong leaves extract which has the highest antiinflammatory in this study is 50,4 mg/200 g BB.

**Key word:** Anti-inflammatory, binahong, carrageenan, edema.