

**TOXICITY TESTS OF SAMBUNG NYAWA (*Gynura procumbens*)
ETHANOLIC EXTRACT TO THE HISTOPATHOLOGY OF WHITE RAT
BRAIN *Sprague dawley* STRAIN**

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ABSTRACT

Sambung nyawa ethanolic extract contains antioxidant flavonoids that can inhibit cancer cell growth. The use of sambung nyawa ethanolic extract at a dose of 500 mg / kgBB suspected have the side effects that can cause damage to the brain tissue. This study aimed to determine the effect of sambung nyawa ethanolic extract to histopathology changes in the brain of Sprague dawley rat strain.

This study used an experimental design with (Post Test Only Control Group Design). Samples using 23 male rats and divided into five unpaired groups, the control group (k) received aquades. The first treatment group (p1) received sambung nyawa ethanolic extract 500 mg/kgBB, the second treatment groups (p2) 1000 mg/kgBB, the third treatment groups (p3) received 1500 mg/kgBB and the fourth treatment group (k4) received 2000 mg/kgBB. Kruskal-Wallis test were used.

The results of giving sambung nyawa ethanolic extract did not change brain histopathologic of Sprague dawley rat strain with $p = 0.120$ and the increasing doses of sambung nyawa ethanolic extract did not aggravate histopathologic white rat brain Sprague dawley strain.

The conclusion of this study is sambung nyawa ethanolic extract with effective dose and also the increasing dose did not aggravate histopathologic white rat brain Sprague dawley strain.

Keywords: Brain histopathologic, sambung nyawa ethanolic extract, toxicity tests