

“Potential of Sinom Beverage on Hyperuricemia Rats Uric Acid Change”

Nurina Widya Rizeki
Study Program of Clinical Nutrition
Majoring of Health

ABSTRACT

*Hyperuricemia is an increase in uric acid levels in the blood caused by decreased uric acid excretion, excessive uric acid production, or maybe because of both. Handling hyperuricemia in addition to using the drug allopurinol can also use natural ingredients, namely sinom drinks made from young tamarind leaves, tamarind fruit flesh, and turmeric. Sinom drinks contain vitamin C which plays a role in reducing uric acid levels. The purpose of this study was to determine the potential of sinom drinks on changes in uric acid levels in rats (*Rattus norvegicus* male) hyperuricemia strain. This research is a true experimental with pre-post test with control group design. This study used 18 mice aged 2-3 months with a weight of 150-250 grams. Rats were divided into 3 groups: negative control, positive control, and treatment. The negative control group was only given a standard diet, the positive control group induced caffeine 27 mg / 200 gBB for 12 days, and the treatment group intervened with sinom drinks as much as 6 ml / 200 gBB for 14 days. The results showed the average level of uric acid before the intervention in the negative control group was 3.03 mg / dl, the positive control group was 4.96 mg / dl, and the treatment group was 5.41 mg / dl. The mean uric acid level after the intervention in the negative control group was 1.75 mg / dl, the positive control group was 2.41 mg / dl, and the treatment group was 1.63 mg / dl. The conclusion of this research is that there is a significant difference between the levels of uric acid in the group of rats that are intervened with groups of rats that are not intervened.*

Keywords: *uric acid and sinom drinks*