

ABSTRACT

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***THE EFFECTIVENESS OF THE ADMINISTRATION OF A
COMBINATION OF CINNAMON (*Cinnamomum burmanni*) AND
MENIRAN LEAVES (*Phyllanthus niruri*) EXTRACTS IN REDUCING OF
URIC ACID LEVELS IN HYPERURICEMIA MODEL MICE***

ABSTRACT

Hyperuricemia is a condition characterized by elevated uric acid levels in the blood, which can lead to gout. This study aims to evaluate the effectiveness of the combination of cinnamon extract and meniran leaves extract in reducing uric acid levels in hyperuricemic mice.

The study design used a true experimental design with a pre-post test control group. A total of 25 male mice were divided into five groups: negative control, positive control (allopurinol), cinnamon extract, meniran leaves extract, and the combination of extracts. Hyperuricemia was induced using potassium oxonate at 50mg/200g body weight. Uric acid levels were measured before and after treatment at 30, 60, 90, and 120 minutes.

Post-hoc LSD test showed that the cinnamon group had a significant difference compared to the positive group ($p = 0.005$), while the combination group did not differ significantly from the positive group ($p = 0.338$). The meniran leaves group did not differ significantly from the positive group ($p = 0.348$) and became the group with the highest post-hoc LSD value.

In conclusion, the combination of cinnamon and meniran leaf extracts is effective in lowering uric acid levels and can serve as an alternative herbal therapy for hyperuricemia.

Keywords : Gout, Cinnamon, Meniran Leaves, Antihyperuricemic.