

EFEKTIVITAS KOMBINASI REBUSAN DAUN SIRIH MERAH (*Piper crocatum* Ruiz & Pav.) dan BIJI MAHONI (*Swietenia macrophylla* King) TERHADAP KADAR GLUKOSA DARAH TIKUS PUTIH JANTAN HIPERGLIKEMIA

Ni Made Indra Novayanthi, 2009

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ABSTRAK

Pada penelitian ini telah dilakukan uji antihiperqlikemia menggunakan kombinasi rebusan daun sirih merah (*Piper crocatum* Ruiz & Pav.) dan biji mahoni (*Swietenia macrophylla* King). Hewan coba yang digunakan adalah tikus putih jantan (*Strain wistar*) sebanyak 45 ekor, kemudian hewan dibagi menjadi 3 kelompok yaitu kelompok kontrol diberi *aquadem* 800 mg/KgBB, kelompok uji I diberi rebusan daun sirih merah (*Piper crocatum* Ruiz & Pav.) 800 mg/KgBB, kelompok uji II diberi kombinasi rebusan daun sirih merah (*Piper crocatum* Ruiz & Pav.) dan rebusan biji mahoni (*Swietenia macrophylla* King) masing-masing 800 mg/KgBB. Selanjutnya, tiap kelompok diperiksa kadar glukosa darahnya. Hasil yang didapat menunjukkan adanya perbedaan tiap perlakuan dimana kombinasi rebusan daun sirih merah dan rebusan biji mahoni mempunyai efek yang lebih efektif menurunkan kadar glukosa darah daripada rebusan daun sirih merah yang diberikan secara tunggal. Dimana penurunan kadar glukosa darah tersebut diasumsikan sebagai efek antihiperqlikemia.

Kata kunci: Rebusan, sirih merah (*Piper crocatum* Ruiz & Pav.) dan biji mahoni (*Swietenia macrophylla* King), Antihiperqlikemia.

**THE EFFECTIVITY OF COMBINATION BOILED RED BETEL VINE
(*Piper crocatum* Ruiz & Pav.) AND MAHONI SEEDS (*Swietenia macrophylla*
King) TO BLOOD GLUCOSE LEVEL ON WHITE MALE MOUSE
HYPERGLICEMIA**

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ABSTRACT

In this research, the researcher has performed test on anti-hyperglycemia using combination of boiled Red betel vine (*Piper crocatum* Ruiz & Pav.) and Mahoni seeds (*Swietenia macrophylla* King). The test animal used is 45 white male mouse (*Strain wistar*), subsequently they are divided into 3 groups which are controlled group that is given *aquadem* 800 mg/Kg Body weight, Test I group that is given boiled red betel vine 800 mg/Kg Body Weight, Test II group that is given combination of boiled red betel vine and boiled Mahoni seeds each 800 mg/Kg Body Weight. Afterward, each group is tested on blood glucose level. The result shows that there are differences on each treatment where combination of boiled red betel vine and boiled Mahoni seeds is more effective on decreasing blood glucose level than boiled red betel vine which given without its combination. The decreasing of blood glucose level assumed as anti-diabetes effect.

Key Word: Boiled, *Red betel vine leaf* (*Piper crocatum* Ruiz & Pav.) and *mahoni* seeds (*Swietenia macrophylla* King), Anti-hyperglycemia.