

**EFEKTIFITAS ANTIDIABETES KOMBINASI *Virgin Coconut Oil* (VCO)  
DENGAN MIMBA (*Azadirachta indica* A. Juss) PADA MENCIT JANTAN**

Nina Rachmawati Anwar, 2007

Pembimbing : (I) Lucia E. Wuryaningsih, (II) Rika Yulia

**ABSTRAK**

Telah dilakukan penelitian terhadap *Virgin Coconut Oil* (VCO) serta kombinasinya dengan mimba (*Azadirachta indica* A. Juss) sebagai antidiabetes. Hewan uji yang digunakan adalah mencit jantan putih (*Mus musculus*) sebanyak 30 ekor. Hewan uji dibagi menjadi 3 kelompok yaitu kelompok kontrol, kelompok uji I dan kelompok uji II. Kelompok kontrol diberi aquadem sebanyak 30,9 mL/kg BB per oral, kelompok uji I diberi VCO 0,9 mL/kg BB per oral sedangkan kelompok uji II diberi kombinasi VCO 0,9 mL/kg BB dan ekstrak mimba 24 mg/kg BB per oral. Dua jam setelah diberi bahan uji, mencit diberi epinefrin sebanyak 12,5 mL/kg BB secara intraperitoneal. Satu jam setelah diberi epinefrin, diambil darah mencit secara intrakardiak dan diperiksa kadar glukosa darahnya dengan alat Accutrend GCT®. Parameter uji yang diamati adalah kadar glukosa darah. Penelitian ini menggunakan analisa statistik dengan uji *One-Way Anova* untuk mengetahui ada tidaknya perbedaan bermakna antar perlakuan, dan diuji lebih lanjut dengan uji Beda Nyata Terkecil (BNT). Berdasarkan hasil analisa statistik terdapat perbedaan bermakna antar kelompok di mana kombinasi VCO dan ekstrak mimba memberikan efek yang lebih besar dalam menurunkan kadar glukosa darah daripada VCO yang diberikan secara tunggal sehingga dapat diasumsikan pula bahwa kombinasi VCO dan ekstrak mimba dalam suspensi memiliki efek antidiabetes yang lebih besar daripada VCO yang diberikan secara tunggal.

**Kata Kunci :** antidiabetes, *Virgin Coconut Oil* (VCO), Mimba (*Azadirachta indica* A.Juss)

**ANTIDIABETIC EFFECTIVITY OF THE COMBINATION *Virgin Coconut Oil* (VCO) and MIMBA (*Azadirachta indica* A. Juss) TO  
MALE MICE**

Nina Rachmawati Anwar, 2007

Leader : (I) Lucia E. Wuryaningsih, (II) Rika Yulia

**ABSTRACT**

This research has been done to know the effect from *Virgin Coconut Oil* (VCO) and it's combination with mimba (*Azadirachta indica* A. Juss) as antidiabetic. The animal used in this research is thirty white male mice (*Mus musculus*). The mice are divided into three groups, that are control group, first test group and second test group. Control group was administered with demineralized water 30,9 mL/kg BW orally, the first test group was administered with VCO 0,9 mL/kg BW orally and the second test group was administered with VCO 0,9 mL/kg BW and mimba extract 24 mg/kg BW orally. Two hours after the mice had been administered with the test material, they was administered with epinephrine 12,5 mL/kg BW intraperitonially. One hour after the mice had been administered with epinephrine, the blood of the mice was taken intracardiactly and measured it's blood glucose concentration using Accutrend GCT®. Test parameter in this research was blood glucose concentration. Based on statistical data analysis using *One-Way Anova* and BNT, there was significant differences among groups, which the combination of VCO and mimba extract group gave a greater effect in decreasing blood glucose concentration if compared with VCO which was given singularly. It could be assumed that the combination of VCO and mimba extract group had antidiabetic effect greater than VCO which was given singularly.

**Kata Kunci** : antidiabetes, *Virgin Coconut Oil* (VCO), Mimba (*Azadirachta indica* A.Juss)