INTISARI

MBASAL, EM. 2014., AKTIVITAS ANTIHIPERGLIKEMI EKSTRAK ETANOL 70% DAUN SUKUN (*Artocarpus altilis* (Park), Fosberg) TERHADAP TIKUS DIABETES YANG DIINDUKSI ALOKSAN, SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.

Penderita diabetes mellitus sering memanfaatkan obat tradisional sebagai alternative terapi. Salah satunya daun sukun. Air rebusan daun sukun mampu mengobati penyakit diabetes yaitu dengan cara merebus daun sukun yang telah dikeringkan, setelah dingin air rebusan diminum 1 gelas setiap hari. Penelitian ini bertujuan, untuk mengetahui efek ekstrak etanol daun sukun (*Artocarpus altilis*) dalam menurunkan kadar gula darah, serta mengetahui dosis efektif untuk menurunkan kadar glukosa darah pada tikus diabetes.

Tikus dibagi dalam 5 kelompok, masing-masing terdiri dari 5 ekor. Kelompok I sampai III dosis 7, 14 dan 28 mg/200gBB, kelompok IV diberi glibenklamide dan kelompok V diberi CMC 0,5%. Kemudian setiap kelompok diberi aloksan 30mg/200gBB. Setelah tikus mengalami hiperglikemi, diberi larutan uji. Kadar glukosa darah diukur pada hari ke 4, 8 dan 12. Data hasil pengukuran dianalisis menggunakan anova.

Ekstrak etanol daun sukun dapat menurunkan kadar gula darah tikus diabetes yang diinduksi aloksan. Ketiga kelompok dosis (7, 14 dan 28 mg/200gbb) dapat memberikan hasil yang setara dengan glibenklamid dalam menurunkan kadar glukosa darah pada tikus.

Kata kunci : ekstrak etanol daun sukun, hiperglikemi, tikus putih, aloksan.

ABSTRACT

MBASAL, EM., 2014, THE ACTIVITY OF ANTIHYPERGLYKEMIC EXTRACT ETHANOL 70% SUKUN LEAVES (*Artocarpus altillis* (Park) Fosberg) FOR RATS WITH DIABETES WICH IS INDUCTED BY ALLOXAN, THESIS, FACULTY OF FARMASI, SETIA BUDI UNIVERSITY, SURAKARTA

The patients of diabetes mellitus often use traditional medicine as the alternative therapy. One of the plant is sukun leaves. The boiled sukun leaves water is able to heal diabetes. Make a decoction of leaves boiled sukun: boiled sukun leaves that have been dried. The water is drunk every day of one glass. This study aims to determine the effect of extract ethanol of sukun leaves (*Artocarpus altillis*), and its effective doses in decreasing the blood glucose level containing in the body of rats with diabetes.

The rats was divided into 5 groups, each group consists of 5 rats. Group I to group III was given 7, 14, 28 mg/200gbw of extract ethanol sukun leaves, group IV was given glibenclamide 0.09 mg/200gBW, group V was given 0,5% CMC, and then each group was given by alloxan 30 mg/200gBW.The blood glucose level is measured at 4^{th} day, 8^{th} and 12^{th}. The data obtained was analyzed by ANOVA.

Extract ethanol sukun leaves can decrease the blood glucose level containing in the body of rats which is inducted by alloxan. The three groups (7, 14 dan 28 mg/200gBW) that have given, provided an equivalent result to glibenclamide, to decreased the blood glucose level in rat.

Key words: extract ethanol, sukun leaf, antihyperglykemic, white rat, alloxan.