

ABSTRAK

ARUM DEVY, S., 2015, UJI AKTIVITAS ANTIHIPERURISEMIA KOMBINASI EKSTRAK ETANOLIK HERBA MENIRAN (*Phyllanthus niruri* L.) DAN HERBA PUTRI MALU (*Mimosa pudica* L.) PADA AYAM LEGHORN JANTAN , SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI SURAKARTA

Herba meniran dan putri malu telah dikaji mempunyai aktivitas antihiperurisemia. Penelitian ini bertujuan mengetahui aktivitas antihiperurisemia kombinasi ekstrak etanolik herba meniran dan herba putri malu dalam menurunkan kadar asam urat serum darah ayam leghorn jantan.

Penelitian menggunakan 35 ekor ayam dibagi secara acak dalam 7 kelompok. Kelompok I : kontrol negatif diberi CMC 0,5%, kelompok II : kontrol positif diberi allopurinol 14 mg/1,5kg bb, kelompok III : ekstrak etanolik herba meniran 33mg/1,5kg bb, kelompok IV : ekstrak etanolik herba putri malu 278mg/1,5kg bb. Kelompok V,VI,VII diberikan kombinasi ekstrak etanolik herba meniran dan herba putri malu berturut-turut (75%:25% atau 24,75mg/1,5kg bb : 69,5mg/1,5kg bb), (50%:50% atau 16,5mg/1,5kg bb : 139mg/1,5kg bb), (25%:75% atau 8,25mg/1,5kg bb : 208,5mg/1,5kg bb). Perlakuan dilakukan selama 14 hari. Selama 7 hari semua kelompok diinduksi jus hati ayam agar hiperurisemia. Setelah hewan uji dipastikan hiperurisemia, semua kelompok diberi sediaan uji kecuali kontrol negatif. Pengambilan darah dilakukan 3 kali yaitu hari ke-0, ke-7 dan ke-14, kadar asam urat diukur dengan alat spektrofotometer. Data yang diperoleh dianalisa dengan *One Way Anova* ($p < 0,05$) yang dilanjutkan uji SNK.

Hasil penelitian menunjukkan bahwa ekstrak etanolik herba meniran dan herba putri malu mempunyai kemampuan menurunkan kadar asam urat dan kombinasi ekstrak etanolik efeknya setara dengan ekstrak tunggal. Kombinasi ekstrak etanolik herba meniran dan herba putri malu 75%:25% (24,75mg/1,5kg bb : 69,5mg/1,5kg bb) menurunkan kadar asam urat yang paling besar.

Kata Kunci : Ekstrak etanolik, herba meniran, herba putri malu, allopurinol, hiperurisemia.

ABSTRACT

ARUM DEVY, S., TEST OF ANTIHYPERURICEMIA ACTIVITY ON THE COMBINATION OF MENIRAN HERB (*Phyllanthus niruri* L.) AND PUTRI MALU HERB (*Mimosa pudica* L.) ETHANOLIC EXTRACT IN LEGHORN COCK, THESIS, FACULTY OF PHARMACY, SETIA BUDI UNIVERSITY, SURAKARTA.

Meniran herb and putri malu herb has been investigated as an antihyperuricemia folk medicine. This study aims to find antihyperuricemia activity on the combination of meniran herb and putri malu herb ethanolic extract in reducing the blood serum of uric acid level in leghorn cock.

The experiment used 35 leghorn cock dividing in 7 groups randomly. Group I : negative control was given CMC 0,5%. Group II : positive control was given allupurinol at dose 14 mg/1,5kg bw. Group III : meniran herb ethanolic extract at dose 33mg/1,5kg bw. Group IV : putri malu herb ethanolic extract at dose 278mg/1,5kg bw. Group V,VI,VII given the combination of meniran herb and putri malu herb ethanolic extract with continued doses (75%:25% or 24,75mg/1,5kg bw : 69,5mg/1,5kg bw), (50%:50% or 16,5mg/1,5kg bw : 139mg/1,5kg bw), (25%:75% or 8,25mg/1,5kg bw : 208,5mg/1,5kg bw), respectively. This experiment has been conducted for 14 days. During the 7 days, all groups were treated with cock liver juice to induce hyperuricemia. After hyperuricemia, all group were given the sample except the negative control. The blood taken was conducted 3 times i.e day 0, 7, 14 , than uric acid level was measured with spectrophotometer. The data obtained were analyzed by *One Way Anova* ($p < 0,05$) followed SNK test.

The result showed that all ethanolic extract of meniran and putri malu herb would to reduce the blood serum of uric acid level in leghorn cock. While the effect of ethanolic extract combination was equivalent to single extract effect Furthermore, the combination of meniran herb and putri malu herb ethanolic extract at dose 75%:25% (24,75mg/1,5kg bw : 69,5mg/1,5kg bw) showed the biggest effect in decrease the uric acid level.

Key word : Ethanolic extract, meniran herb, putri malu herb, allupurinol, hyperuricemia.