

Efek pemberian ekstrak etanol Biji Klabet (*Trigonella foenum-graecum* L.) terhadap pengurangan kerapuhan tulang pada tikus (*Rattus norvegicus*) Betina Galur Sprague-Dawley = Effect of ethanolic extract of Fenugreek Seeds (*Trigonella foenum-graecum* L) to decrease of bone loss of female rats (*Rattus norvegicus*) Sprague-Dawley Strain

Nurul Hidayati, author

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Abstrak

Efek pemberian ekstrak etanol biji klabet (*Trigonella foenum-graecum* L.) terhadap pengurangan kerapuhan tulang pada tikus (*Rattus norvegicus*) betina galur Sprague-Dawley telah diteliti. Dua puluh empat ekor tikus usia 3 bulan dibagi dalam 6 kelompok, terdiri dari kelompok kontrol normal, kelompok ovariectomi (ovx), kelompok ovx-tamoksifen 1,8 mg/kg BB, serta 3 kelompok perlakuan ovx yang masing-masing diberi ekstrak etanol biji klabet dosis

150 mg/kg BB, 300 mg/kg BB, dan 600 mg/kg BB. Bahan uji diberikan selama 12 minggu berturut-turut. Hasil uji ANAVA ($P < 0,05$) terhadap kadar ALP dan kalsium serum menunjukkan tidak ada pengaruh yang nyata pemberian ekstrak etanol biji klabet pada ketiga kelompok dosis. Hasil uji ANAVA ($P < 0,05$) menunjukkan terdapat pengaruh yang nyata pemberian ekstrak etanol biji klabet terhadap peningkatan rerata ketebalan dan derajat densitas trabekula pada ketiga kelompok dosis.

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The effect of the ethanolic extract of seed of *Trigonella foenum-graecum* L. toward the bone loss in ovariectomized (ovx) rats were investigated. Twenty-two- 3-months-old female Sprague-Dawley were randomly assigned to six groups as followed, 3 control groups and 3 treatment groups. The control groups consist of the normal group, the ovx group, and the ovx group treating with tamoxifen 1,8 mg/kg BB. The treatment groups consist of the ovx group treating with ethanol extract of seeds of *Trigonella foenum-graecum* L. dose of 150 mg/kg BB, 300 mg/kg BB, and 600 mg/kg BB. The treatment done every day for 12 weeks. The ANAVA test ($P > 0,05$) resulted no real effect of treatment toward the mean of level ALP and calcium serum to those treatment groups. The Anava test ($P > 0,05$) resulted the real effect of treatment toward the mean of thickness and density of cancellous bone to those treatment groups. The thickness and density of cancellous bone of treatment groups increased toward normal group.