

ABSTRACT

Hikmah, Exma Mu'tatal. 2014. The Influence of The Water Extract of Katu Leaf (*Sauropus androgynus* (L.) Merr.) on the Weight of Uterus and the Thickness of Endometrium Mice (*Mus musculus* L.) Premenopause.
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Menopause constitutes a natural thing which is accurately happened. Premenopause constitutes phase before the happening of menopause which is as important part in the inspect of menopause. One of the complains appeared in the phase of premenopause is atrophy of endometrium which is capable of causing bleeding on endometrium. Katu leaf is known as having isoflavon uterus with estrogenic characterization, in which fitoestrogen is estimated as thing which is capable of fixing any complains withing women premenopause through the bond with estrogen receptor which will induct the happening of cell proliferation activity in order to thicken the endomentrium and increase the weight of uterus. This study aims to know the influences of the water extract of Katu leaf and the effective dosison the weight of uterus and the thickness of endometrium premenopausal mice.

This study constitute experimental research with complete random plan by 5 repetitions. The experimental animal used is 2 month-1 weak female mice in an amount of 20. The condition of premenopause done by giving VCD (4-Vinyl cyclohexane dioxide). A group of treatments toward this study includes K- (normal), K+ (VCD + the water extract of Katu leaf about 0 mg/kgBW), P1 (VCD+the water extract of Katu leaf 15 mg/kgBW) and P2 (VCD+the water leaf of Katu leaf 30 mg/kgBW). The observed parameter involved the weight of uterus and the thickness of endomentrium, then are analyzed with One way ANOVA 1%. If there is a significant difference, the further test will follow with BNT 1%. Besides, linear regression test is also performed and the Pearson correlation is also tested.

The result of the study shows that the given water extract of Katu leaf influenced on the weight of uterus and the thickness of endometrium and the correlation of the both of them are in the positive way. The most effective dosis in P2 group or dosis 30 mg/kgBW with the level of uterus weight about 112.80 mg and the endometrium thickness is 342.40 µm.