ABSTRACT

Wulandari, Afriani Susilo. 2015. **The Effects Of Katuk (*Sauropus Androgynus)* Leaf Extracts Toward Weight Of Uterine And Endometrial Thickness In Menopausal Rat (*Rattus norvegicus*)**. Thesis. Department of Biology, Faculty of Science and Technology of State Islamic University (UIN) Maulana Malik Ibrahim Malang. Advisor: Biology: Dr. Retno Susilowati, M.Si. and Umaiyatus Syarifah, MA.

Keywords: Menopause, Katuk Leave Extract *(Sauropus androgynus)*, Weight uterine and Thicknes Endometrial

Menopause is the last of menstrual period of women. Women's body reduces the production of estrogen hormone graadually. Reduction of estrogen inside blood can effect on reproductive ducts such as on uterus in which the uterine weight is reduced in the menopausal period. It is caused by membranous mucus of uterus (*atrofi endometrium*) which becomes narrow. *Katuk* leaf is considered containing isoflavon which is estrogenic, i.e. fitoestrogen which is estimated to be able to overhaul the uterus. The aim of this study is to find out the effects of katuk (*sauropus androgynus)* leaf extracts toward weight of uterus and endometrial thickness in menopausal rat.

This study was included in experimental research using Completely Randomized Design within 5 times of treatment and 6 times of repetition. Trial animal used was ovariectomy female rat and normal female rat at the age of 3 months. The treatment group in this research covers K- (normal), K+ (ovariectomy), PI (ovariectomy/ 15 mg/kg BB), PII (ovariectomy/ 30 mg/kg BB), PIII (ovariectomy/ 45 mg/kg BB). The parameter examined was weight of uterine and endometrial thickness. The data were analyzed using ANOVA, if the difference is significant, it was examined continuously using BNT 5%. Besides, it was also used linear regression test and correlation test.

The result of the study shown that giving *katuk* leaf extract (*Sauropus androgynus*) gave negative effect, so that it could reduce weight of uterus and endometrial thickness in menopausal rat *(Rattus norvegicus*).