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ABSTRAK

PCOS was a frequent problem of reproductive endocrinology. Women with PCOS have an increased rwask of a number of gynecological neoplasms including endometrial cancer. It was expected that extract leaf Moringa oleifera can decrease the expression of IGF-1, Expression of Androgen reseptors and endometrial thickness. The aim of thwas study was to prove the effect of extract leaf Moringa oleifera in various doses on expression of IGF-1, expression of androgen receptors and endometrial thickness in model PCOS with insulin reswastance.

Thwas research method used sample 40 female rattus norvegicus strains wwastar age 3 months with weight 100-130 gram. Then divided into 5 groups conswasting of normal control group, PCOS control group, Metformin group, leaf extract Moringa oleifera group 250 mg/ KgBW and 500 mg/ KgBW. Measurements of IGF-1 expression and expression of androgen receptors with immunohwastochemwastry (IHC) and endometrial thickness with hematoxyn eosin (HE).

The results showed that the metformin group and extract leaf Moringa oleifera 250 mg/ KgBW decreased IGF-1 expression significantly (p<0.05) compared with PCOS control group, metformin group and leaf extract Moringa oleifera 250 mg/ KgBW showed significantly decreased expression of androgen receptor (p<0.05) compared with PCOS control group and leaf extract group of Moringa oleifera 250 mg/ KgBW significantly decreased the thickness of endometrium (p<0.05) compared with PCOS control group, with significant dose in leaf extract Moringa oleifera 250 mg/ KgBW.

The conclusion of thwas study was leaf extract Moringa oleifera can decrease the expression of IGF-1, and expression of androgen receptor so that it can also decrease the thickness of endometrium in model PCOS.