

## Effects of Moringa oleifera Leaf extract to risk of endometrial hyperplasia in Polycystic Ovary Syndrome model with insulin resistance

Type: Article

Abstract:

Polycystic Ovary Syndrome (PCOS) have an increased risk of a number of gynecological neoplasms including endometrial cancer. It is expected that Moringa oleifera can decrease the expression of IGF-1, androgen receptor expression and endometrial thickness. We aimed to prove the effect of Moringa oleifera leaf extract in various doses to IGF-1 expression, expression of androgen receptor and endometrial thickness in PCOS-insulin resistance model. We used 40 female Rattus norvegicus of Wistar strains weighing 100-130 grams aged 3 months as samples, were divided into 5 groups including normal control group, PCOS control group, PCOS group with Metformin treatment and PCOS were given Moringa oleifera of leaf extract in two doses. Moringa oleifera leaf extract have significantly decreased IGF-1 expression ( $P=.000$ ). Moringa oleifera leaf extract have shown significantly decreased the expression of androgen receptors ( $P=.000$ ). Moringa oleifera leaf extract has decreased the thickness of endometrium significantly ( $P=.000$ ). Moringa oleifera of leaf extract could decrease the expression of IGF-1 and expression of androgen receptors so that it could also decrease the thickness of endometrium in PCOS-Insulin Resistance model.

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