

## عنوان مقاله:

Correlation of anti-Müllerian hormone levels with metabolic syndrome events in polycystic ovary syndrome: A cross-sectional study

## محل انتشار:

مجله طب تولید مثل ایران، دوره 18، شماره 3 (سال: 1398)

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## خلاصه مقاله:

Background: Various endocrine disorders have been reported in women of reproductive age, 10% of which is affected by polycystic ovary syndrome (PCOS). Objective: This study aimed to evaluate the correlation of anti-Müllerian hormone (AMH) levels with the metabolic syndrome in patients with PCOS. Materials and Methods: This cross-sectional study employed a consecutive sampling method using medical records from January 2013 to December 2017 at Dr. Cipto Mangunkusumo General Hospital polyclinic and Yasmin in vitro fertilization Clinic (Kencana), Jakarta, Indonesia. The primary outcome of the study was the AMH levels as independent variable correlated with

metabolic syndrome. The secondary outcome was also the AMH levels correlated with each PCOS phenotype. The tertiary outcome was each PCOS phenotype as independent variable correlated with metabolic syndrome. Results: Women with phenotype 1 of PCOS had a median AMH level of 13.92 (range: 3.88-34.06) ng/ml. 21% patients had metabolic syndrome, with a median AMH level 7.65 (3.77-20.20) ng/ml, higher than the women without metabolic syndrome ( $p = 0.38$ ). The most frequent phenotype in women with PCOS was phenotype 4, oligo- or anovulation and polycystic ovary morphology (OA/PCOM) in 41.3%. The most frequent phenotype in women with metabolic syndrome was phenotype 1, OA + PCOM + hyperandrogenism in 56.5%. Conclusion: All PCOS phenotypes exhibited significant correlations with the AMH level. Phenotype 1 (OA + PCOM + hyperandrogenism) was associated with the highest .AMH level and was significantly associated with metabolic syndrome

### کلمات کلیدی:

,Anti-Müllerian hormone, Metabolic syndrome, Polycystic ovary syndrome  
هورمون آنتی مولرین، سندرم متابولیک، سندرم تخمدان پلی کیستیک.

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