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## Correlation between Prostate Specific Antigen (PSA) and hirsutism in women with Polycystic Ovarian Syndrome (PCOS)

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**Background:** Hyperandrogenism is present in up to 70% of PCOS patients in the form of hirsutism and others. Serum PSA concentrations were found to be higher in hirsute than in non-hirsute males, suggesting that, also in females, PSA may be regulated by androgens. Serum PSA levels also vary during menstrual cycles and increase in women with excess androgen.

**Aim:** Demonstrate correlation between PSA and hirsutism in women with PCOS and the cut off value of PSA in diagnosis of PCOS.

**Method & Material:** 50 in their reproductive age (20-40) years old, who had been diagnosed as PCOS and 50 non-PCO women were served as control. The measurements were age, marital status, obstetric, medical histories, BMI, w/h ratio, waist and hip circumference, fat distribution, serum PSA and testosterone and their correlation with modified Ferriman-Gallwey scale and the cut-off value of both PSA and testosterone.

**Result:** PSA with the cut off-value is an important indicator of diagnosis of PCOS with sensitivity 98.0% and specificity 96.0%, positive correlation between serum PSA and hirsutism in PCOS patients.

### Biography

Soha has received an advanced training in Laparoscopy and Oncogynecology, after completing her Medical School and Residency at Alexandria University, College of Medicine. In 2011, she joined the national program for Primary Healthcare of Obstetrics & Gynecology and Reproductive Sciences at Ministry of Health and Population. She serves as Co-Assistant of the Gynecologic Practice Quality Assurance Committee at MOHP with special interests in chemotherapy targeted drug development, patient quality of life programs and early cancer detection within the OB/GYN department. She is passionate about advancing the field of gynecologic oncology through innovative scientific research and hopes her discoveries will lead to better treatments for patients.

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