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Title: Correlations between impulsiveness and biochemical parameters in women with polycystic ovary syndrome

Author: Esra Özdil Demiryürek Atilla Tekin Engin Çakmak  
Osman Temizkan Oğuz Karamustafaloğlu Sibel Gökova Enes  
Demiryürek



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**Title:** Correlations between impulsiveness and biochemical parameters in women with polycystic ovary syndrome

**Running Head:** Impulsiveness in patients with PCOS

**Authors:**

1. *Esra Özdil Demiryürek*, Specialist, Psychiatry Department, Sakarya University Sakarya Training and Research Hospital, Turkey
2. *Atilla Tekin*, Specialist, Psychiatry Department, Bolu Mental and Psychiatric Disease Hospital, Turkey
3. *Engin Çakmak*, Specialist, Psychiatry Department, Şişli Hamidiye Etfal Training and Research Hospital, Turkey
4. *Osman Temizkan*, Specialist, Gynaecology and Obstetrics Department, Şişli Hamidiye Etfal Training and Research Hospital, Turkey
5. *Oğuz Karamustafalıoğlu*, Professor, Psychiatry Department, Şişli Hamidiye Etfal Training and Research Hospital, Turkey
6. *Sibel Gökova*, Specialist, Gynaecology and Obstetrics Department, Şişli Hamidiye Etfal Training and Research Hospital, Turkey
7. *Enes Demiryürek*, Specialist, Neurology Department, Sakarya University Sakarya Training and Research Hospital, Turkey

Corresponding Author: Atilla Tekin, Bolu Mental and Psychiatric Disease Hospital, Bolu md.atillatekin@gmail.com, Phone:905301235070 Fax: 903742752423

**Abstract**

**Objective:** The aim of this study was to investigate the relationship between anger, impulsiveness, and biochemical parameters (testosterone, insulin, insulin resistance) in women with polycystic ovary syndrome.

**Study Design:** We recruited 84 women diagnosed with polycystic ovary syndrome according to the Rotterdam diagnostic criteria. Psychiatric interviews were performed using the Structured Clinical Interview for DSM-IV Axis I Disorders. The Barratt Impulsiveness Scale and the State Trait Anger Expression Inventory were also administered to each participant. Lastly, the women's biochemical parameters, which included total testosterone, free androgen index, dehydroepiandrosterone sulfate, insulin and insulin resistance, thyroid functions, and prolactin, were measured.

**Results:** A statistically significant correlation was found between participants' increasing total testosterone levels and total impulsiveness scores, and their increasing free androgen index levels and motor and non-planning-related impulsiveness ( $r = .24, p = 0.027$ ;  $r = .27, p =$

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