

Relationship between anti-Müllerian hormone (AMH) and insulin levels during different tanner stages in daughters of women with polycystic ovary syndrome

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Context: We have previously described increased serum levels of anti-Müllerian hormone (AMH) and stimulated insulin in daughters of women with polycystic ovary syndrome (PCOS), suggesting that these girls may have an altered ovarian follicular development which may be modulated by insulin. However, the specific relationship between serum AMH and insulin levels during each Tanner stage of puberty in this cohort has not been established. **Objective:** The aim of our study was to establish the relationship between AMH and poststimulated insulin serum concentrations during each stage of puberty in daughters of women with PCOS (PCOSd), compared to daughters of control women (Cd). **Design:** We studied 135 PCOSd and 93 Cd classified according to their Tanner stage. Gonadotrophins, sex steroids, sex hormone-binding globulin (SHBG), and AMH were determined in a fasting sample. Ovarian volume was measured by pelvic ultrasound. In addition, in both groups we performed an oral glucose tolerance test wi