

17th World Congress of the Academy of Human Reproduction

15–18 March 2017
Rome, Italy

TITLE

THE FUNCTIONAL FEATURES OF THE OVARIES IN WOMEN WITH POLYCYSTIC OVARIAN SYNDROME AND DIFFERENT MORPHOTYPES

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ABSTRACT

CONTEXT: Sonography is currently considered to be the leading method of research in gynecology. This method not only helps to detect various pathological processes of female reproductive system, but in most cases, makes it possible to establish their identity. Options for the structure of ovarian doppler characteristics and levels of female hormones are not considered in combination with the vicissitudes of sizes and body shapes in women of reproductive age.

OBJECTIVES: The aim of study was to reduce the development of polycystic ovarian syndrome in women of reproductive age by studying different morphotypes features, sonographic parameters of uterus and ovaries, the level of female hormones anthropo-somatotypological performance.

METHODS: Prospective, controlled study.

PATIENT(S): 49 patients with multifollicular ovaries, 22 patients with polycystic ovaries.

INTERVENTION(S): sonographic parameters of uterus and ovaries, the level of female hormones in women of different morphotypes were compared between groups.

MAIN OUTCOME MEASURE(S): sonographic parameters of uterus and ovaries, the level of female hormones

RESULTS: In women with polycystic ovarian structure unlike patients with multifollicular ovarian structure set multiple significant ($r < 0,001$) multidirectional medium strength connections between hormone levels and ovarian ultrasound parameters in different phases of the menstrual cycle. There was strong feedback between the length and thickness of the right ovary (from $r = -0,60$ to $r = -0,66$).

CONCLUSIONS: Based on discriminant models was built an algorithm that allows using anthropometric, somatotypological, ultrasound and Doppler indicators of uterus and ovaries to divide women of childbearing age to a group of multifollicular structure of the ovaries and group with polycystic ovaries.

INSTITUTE

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