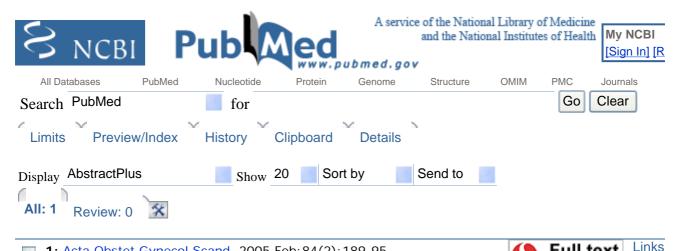
Entrez PubMed 1/2 ページ



1: Acta Obstet Gynecol Scand. 2005 Feb; 84(2): 189-95.

Full text blackwell-synergy.com

Impaired uterine perfusion associated with metabolic disorders in women with polycystic ovary syndrome.

Chekir C, Nakatsuka M, Kamada Y, Noguchi S, Sasaki A, Hiramatsu Y.

Department of Obstetrics and Gynecology, Okayama University Medical School, 2-5-1 Shikata, Okayama-city, Okayama 700-8558, Japan.

BACKGROUND: Risk factors for cardiovascular disease, including chronic anovulation, obesity, hyperandrogenism, hyperinsulinemia, and dyslipidemia, are commonly observed in women with polycystic ovary syndrome (PCOS). We evaluated uterine perfusion and its correlation with clinical and biochemical parameters in women with PCOS. METHODS: We performed a pulsed Doppler study on uterine arterial blood flow in 25 women with PCOS and 45 control women with regular menstrual cycles. PCOS was diagnosed based on oligomenorrhea, polycystic ovaries determined by means of ultrasonography, and elevated luteinizing hormone (LH)/follicle-stimulating hormone (FSH) ratio. RESULTS: Women with PCOS had a significantly higher body mass index (BMI) and serum testosterone, and showed insulin resistance and dyslipidemia, including increased total cholesterol, triglyceride, low-density lipoprotein-cholesterol (LDL-C), and decreased high-density lipoprotein-cholesterol (HDL-C). The uterine arterial pulsatility index (PI) in women with PCOS was significantly higher than that in the control women during the follicular phase. The PI was correlated with BMI, LH/FSH ratio, or LDL-C/HDL-C ratio, whereas it was inversely correlated with the HDL-C level. Women with PCOS had reduced endometrial thickness and elevated uterine arterial PI in the luteal phase, in which implantation occurs. CONCLUSIONS: Elevation of uterine arterial blood flow resistance is associated with risk factors for cardiovascular events. Furthermore, the impaired uterine perfusion in the luteal phase may cause endometrial dysfunction in women with PCOS.

PMID: 15683382 [PubMed - indexed for MEDLINE]

Display AbstractPlus

Write to the Help Desk

Show 20

Related Links

Blood flow changes in the ovarian and uterine arteries in women with polycystic ovary syndrome who respond to clomiphene citrate: correlation with serum hormone conce [ultrational Obstet Gynecol. 1998]

Levels of lipoprotein and homocysteine in non-obese and obese patients with polycystic ovary syndr@gecol Endocrinol. 2005]

Color Doppler analysis in lean and obese women with polycystic ovary syndr@whasound Obstet Gynecol. 1996]

Screening women with polycystic ovary syndrome for metabolic syndrome. [Obstet Gynecol. 2005]

Polycystic ovary syndrome: relationship between insulin sensitivity, sex hormone levels and ovarian stroftshibologichelion. 2001]

See all Related Articles...

Sort by

NCBI | NLM | NIH

Send to

Entrez PubMed 2/2 ページ

Department of Health & Human Services
Privacy Statement | Freedom of Information Act | Disclaimer

Jul 25 2006 06:31:58