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Polycystic Ovarian Syndrome, Obesity, Metabolic Syndrome and Pregnancy Outcome

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Obesity is a common problem among women of reproductive age. According to the World Health Organization (WHO), if the body mass index (BMI) equals to or is greater than 25 kg/m², it is considered overweight, whereas if the BMI equals to or is greater than 30 kg/m², it is considered obesity. Obesity is a complex disease resulting from the interactions of a wide variety of hereditary and environmental factors. It plays a significant role in reproductive disorders, particularly in women, being one of the etiologies causing the development of polycystic ovarian syndrome, causing an ovulation, menstrual disorders and difficulties in assisted reproduction and adverse pregnancy outcomes. Furthermore, it is related to increased health risks such as diabetes mellitus, hypertension, coronary heart disease and is linked to various malignancies, particularly endometrium and colon cancers and it brings out many problems such as social and demographic problems. The combined progress in quantitative genetics, genomics and bioinformatics has contributed to a better understanding of the genetic and molecular basis of obesity and its consequences. Moreover, environmental factors can influence pregnancy and may cause epigenetic changes in the fetus leading to obesity and its complication in the later life.

The new concepts of the etiology of obesity, its impact on fertility and pregnancy outcome will be briefly discussed.

Biography:

Adrian Ellenbogen is a Clinical Professor in Obstetrics and Gynecology at the Rappaport School of Medicine, Technion- Israel Institute of Technology, Haifa, Israel. He is the Founder and Director (retired) of in vitro fertilization unit at Hillel Yaffe Medical Center, Hadera, Israel. He is the Fertility Advisor and Head- Fertility Clinic, Meuheded Female Health Center, Bnai-Brack, Israel. He is the Director of the postgraduate course in Obstetrics Gynecology and Infertility, Rappaport School of Medicine, Technion- Israel Institute of Technology, Haifa, Israel. He is the member of many international (ASRM, ESHRE, ISMAAR, ISIVF, ISGE) and national societies (Israeli Fertility Association, Israeli Society of Obstetrics and Gynecology) Editorial Board Member of the Journal of Reproduction System & Sexual Disorders.