

عنوان مقاله:

Effects Obesity on In Vitro Fertilization Treatment Outcomes: A Systematic Review

محل انتشار:

بیستمین کنگره بین‌المللی بیولوژی تولید مثل و پانزدهمین کنگره بین‌المللی سلول های بنیادی (سال: 1398)

تعداد صفحات اصل مقاله: 1

نویسنده:

S Nikkhah - Department of Midwifery, Faculty of Nursing and Midwifery, Kerman Islamic Azad University, Kerman, Iran

خلاصه مقاله:

Background: A worldwide increase in the prevalence of obesity has been observed in the past three decades, particularly in women of reproductive age. The number of young obese women assisted reproductive treatment (ART) is on the rise. Obesity also contributes to adverse clinical outcomes following In vitro fertilization (IVF) procedures. The aim of this study was to evaluate the influence of obesity (BMI> 30 kg/m²) on the IVF treatment outcomes. Materials and Methods: A systematic review was performed using the following key words: Obesity, ART, IVF in Medline, Embase, Cochrane Library, Pubmed, Science Direct databases from 1986 to 2018. Study selection was based on title and abstract. Based on the Jdad scale, studies with scoring 3 or more were enrolled in the study. Finally, out of a total of 30 articles were related, the full text of 23 studies with inclusion criteria were evaluated. Results: Obesity induces changes in the hypothalamus-pituitary-gonadal (HPG) axis, hormone levels, gametogenesis, and adverse ART outcomes. During the IVF cycle, serum CRP levels are significantly higher in women with obesity at all time points. High serum CRP level on day of ovum pick-up (OPU) day negatively affects embryo quality. Obesity is associated with decrease FSH receptor (FSHR) expression and E2 production, causes by dysfunctional insulin pathway and insulin reduces reaction of follicular granulosa cell to FSH Stimulation in Obesity-Related Infertility Women during IVF. Also in this group of women, Obesity negatively influence the number of oocytes retrieves and is associated with an increased failure to achieve a clinical intrauterine gestation and live birth. Conclusion: Obesity have detrimental effects on IVF treatment outcomes, therefore results support the clinical recommendation of advising obese women to lose weight prior to ART.

کلمات کلیدی:

Obesity, In vitro fertilization, Assisted Reproductive Treatment, Obesity, IVF, ART

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