

Impact of Obesity on Fertility in a Population of Women in the Wilaya of Batna

Authors : S. Benbia, W. Bouafia, D. Khellaf, A. Chennaf, M. Yahia

Abstract : Our study was designed to highlight changes in certain biochemical parameters (CH, TG, HDL, GOT, GPT, LDL, and CRP), obese women infertile fertile witnesses and research potential pathophysiological link between obesity and infertility in this population of women. This practical work was focused on a population of 24 obese women infertile, compared to controls, subjects without any pathology causing disruption of parameters to be studied to determine the contribution of obesity in the etiology of infertility. The assay results revealed a highly significant difference between the two groups in serum CH, TG, HDL, TGO and TGP ($P < 0.0001$) and in the rate of LDL ($p = 0.0017$) and CRP ($p = 0.02$). The hormonal balance also shows a significant difference between the two groups ($P < 0.0001$). The present study indicates that obesity is associated with infertility, but there is no direct pathophysiological link between obesity and infertility has not been determined. Further in-depth studies are needed to determine the exact mechanism by which overweight leads to female infertility.

Keywords : obesity, fertility, infertility, biochemical, women

Conference Title : ICABBBE 2014 : International Conference on Agricultural, Biotechnology, Biological and Biosystems Engineering

Conference Location : Barcelona, Spain

Conference Dates : February 27-28, 2014