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ISSN Print: 2333-9721, ISSN Online: 2333-9705
http://www.oalib.com/journal

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Anxiety Effect in the Success Rate of Intrauterine Insemination (IUI) and In Vitro Fertilization (IVF)

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Abstract

Background: Infertility has a tendency to become potential physical and emotional stressors. The current progressive advances in fertility technology have encouraged more infertile couples to seek for the cause of infertility and take measures to improve their fertility. It is not uncommon that these couples experience emotional distress when they are undergoing fertility treatments. Although it is controversial, some experts argue that this emotional distress affects the success of fertility programs, such as intrauterine insemination and in vitro fertilization programs. Objective: The aim of the study was to investigate the relationship between successful pregnancy and anxiety in patients undergoing intrauterine insemination (IUI) and in vitro fertilization (IVF) programs. Material and method: A total of 39 patients undergoing intrauterine insemination and in vitro fertilization program in Aster clinic of Dr. Hasan Sadikin General Hospital during period of September-November 2016 were measured for their anxiety level using Zung Self-Rating Anxiety Scale. The results were then categorized as not anxious (score of 20 - 44) and anxious (45 - 80). Data were then compared against successful pregnancy after each program. Results: Of 39 patients, 23 underwent IUI and 16 underwent IVF. In the IUI group, 10 patients were not anxious (43.48%) and 13 people were anxious (56.52%) while in the IVF group 9 were not anxious (56.25%) and 7 were anxious (43.75%). Three patients (18%) who successfully conceived in the insemination program were those who were not anxious. Meanwhile, in the IVF group 3 patients (18.8%) also got pregnant with 2 of them were not anxious and 1 was anxious. A statistical calculation was performed using Fisher test, resulting in p = 0.068 and p = 1.000 for IUI and IVF, respectively. Conclusion: There is no significant correlation between the success of the fertility program and anxiety in patients undergoing IUI and IVF.