

عنوان مقاله:

Investigating the Factors Affecting the ICSI (microinjection) Success in Infertile People Referred to an Infertility Treatment Center in Western Iran from 2011 to 2017

محل انتشار:

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خلاصه مقاله:

Background & objective: Various parameters can affect the success of intra cytoplasmic sperm injection (ICSI). This study aims to compare the results of fertility in formerly infertile couples who underwent ICSI considering different parameters. **Materials & Methods:** In this retrospective study, 261 cases of infertile couples who referred to Motazed Infertility Center in Kermanshah, and had successful ICSI from 2011 to 2017, were examined. Statistical analysis was performed after collecting the data. **Results:** The highest ICSI success rates were in the age range of 31-40 years (58.2%), and 21-30 years (55.8%), in men and women, respectively. Regarding the duration of infertility, the highest success rate was observed in couples who were infertile for less than five years (51.8%). In this study, all the patients' endometrial thicknesses were normally higher than 4 mm. In terms of the number of embryos formed, the success percentage was 68% with three formed embryos. The hormonal variations and distribution percentages were as following: AMH ranging from 1.01 to 5 ng/mL (55.6%), TES ranging from 0 to 50 nmol/L (53%), TSH ranging from 1.01 to 5 μ U/mL (81.6%), FSH ranging from 5.01 to 10 IU/L (58.9%), PRO ranging from 5.01 to 10 ng/mL (24%), LH ranging from 1.01 to 5 IU/L (46.7%), and DHEA-S ranging from 1.01 to 5 ng/mL (18.9%). **Conclusion:** According to

the results, it seems that the success of ICSI technique in infertile couples depends on some parameters including .variations in reproductive hormones, number of embryos, couples' ages, and duration of infertility

کلمات کلیدی:

Assisted reproductive technology, ICSI, Infertility, Western Iran

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