Original Paper

Fertility outcome after IVF and related factors
Fatemeh Vahid Roudsari (MD)1, Sedigheh Ayati (MD)*1
Sara Mirzaeeyan (MD)2, Mohammad Taghi Shakeri (PhD)3, Hossein Akhtardel (MD)4
1Associated Professor, Department of Obstetrics and Gynecology, Ghaem Hospital, Women's Health Research
Center, Mashhad University of Medical Sciences, Mashhad, Iran. 2Resident of Obstetrics and Gynecology,
Mashhad University of Medical Sciences, Mashhad, Iran. 3Associated Professor, Department of Medicosocial,
Biostatics Unit, Mashhad University of Medical Sciences, Ghaem Hospital, Mashhad, Iran. 4General Physician,
Mashhad University of Medical Sciences, Mashhad, Iran.

Abstract

Background and Objective: Success rate of IVF depends on infertility factors and its treatment
cycle. Different methods of treatment and different centers have reported various rates of
success. The aim of this study was to evaluate the fertility outcome after IVF and related factors.

Materials and Methods: This descriptive analytic study was performed on 150 infertile couples
following IVF in Montaserieh Infertility Center, Mashhad University of Medical Sciences,
Mashhad, North – East of Iran during 2001-06. Data was collected by a questionnaire including
woman's age, husband's age, infertility factor, spermogram, infertility period, the number of
follicles caused by treatment, the number of oocytes, the number of produced and transferred
fetus and treatment outcomes. Data was analyzed by SPSS software and Chi-square, t-studen
test, One-way ANOVA and logistic regression.

Results: The mean age of women was 29.7±5.4. The mean±SD follicles oocytes and transferred
fetus were 11±6, 6±3.9 and 2.6±1.5 respectively. There was significant relation between the
number of follicles (P<0.05), obtained oocytes (P<0.05) and transferred fetus (P<0.05) with the
success rate of IVF. The fertility rate was 24.6%. There was no significant relation between the
age groups and fertility rate.

Conclusion: This study showed that ovarian response to ovulation stimulation and the number of
transferred fetus are the important and effective factors for predicting the outcomes of IVF.

Keywords: Infertility, IVF, ART

* Corresponding Author: Sedigheh Ayati (MD), E-mail: ayati@iums.ac.ir

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