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DOUBLE HOMOLOGOUS IUI WITH COMBINATION OF TWO SPERM PREPARATION METHOD TO IMPROVE PREGNANCY OUTCOME

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Background: Intra uterine insemination (IUI) is preferred fertility treatment for unexplained and moderate male factor sub fertility. Incorporation of double insemination and two sperm preparation method (double density gradient and swim up) might help to improve outcome.

Purpose: This study aims to investigate the single vs. doubles IUI in controlled ovarian hyperstimulation cycle (COH) and to evaluate the effects of combining two methods on improving the efficacy of sperm preparation.

Design: Retrospective study

Setting: A newly opened private fertility institute

Patients: 41 couples undergoing COH for an IUI cycle within three months of institute inauguration.

Main outcome measure: The primary outcome measure was clinical pregnancy.

Methods: Inclusion criteria for women were age below 35 years with functional fallopian tube/s and no other noted uterine or ovarian abnormalities. Men with post-wash total motile sperm count of at least 10 million were included in the study. All women underwent COH and ovulation tracking was done with ultra sound scan. Inseminations were performed either once or twice depending upon ovulation status or as decided earlier with couples. In case of double IUI density gradient processed sperm were inseminated in pre ovulatory phase and sperms were processed through swim up technique and then inseminated after ovulation.

Results: Out of 41, one couple dropped the treatment in between due to personal reason and 22 couple underwent double IUI whereas 18 couple single IUI was done. The overall clinical pregnancy rate was 22.72% and 11.11% (p=0.3424) for double vs. single IUI respectively.

Conclusion: A combination of two sperm preparation methods resulted in higher recovery rates of mature motile spermatozoa and helped to improve success rate. A large group study is recommended to support this observation.

Biography

Charulata has completed her PhD and she is senior consultant embryologist at Yashoda Fertility and Research Institute, Hyderabad, India. She has a 18 long years experience in field of ART. She keeps herself updated with recent advances in ART and regular in writing Abstracts, Posters, Oral paper presentations in national and international forum.

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