

October 26-27, 2018
Budapest, HungaryCharulata Chatterjee et al., Crit Care Obst & Gyne 2018, Volume: 4
DOI:10.21767/2471-9803-C1-002

OUTCOME OF HIC AND ICSI ON SIBLING OOCYTES FOR MALE SUB FERTILITY

Charulata Chatterjee and Papolu Rama Devi

Yashoda Fertility and Research Institute, India

Dr. Rama's Institute for Fertility, India

Objective: To follow up the outcome of sibling oocytes subjected to high insemination concentration (HIC) and intracytoplasmic sperm injection (ICSI) in the first cycles of male sub fertility with normal sperm morphology $\leq 4\%$

Design: Randomized study

Patient(s): 26 couples undergoing first cycle of IVF-ICSI

Intervention(s): Performing IVF with HIC and ICSI on sibling oocytes

Main outcome measure(s): Fertilization and pregnancy rate

Result(s): A controlled comparison between IVF-HIC and ICSI was made for 26 patients with $\leq 4\%$ normal sperm morphology and $\geq 10 \times 10^6$ motile spermatozoa per semen preparation. Female partner's age was 31 ± 3.1 and day 3 FSH was 7.9 ± 1.1 . HIC procedure involved insemination under micro droplets with sperm concentration 2-5 fold higher than standard IVF. ICSI was done as per available standard procedure. A total of 316 oocytes were retrieved from 26 pickups. 182 were subjected to ICSI and 143 MII oocytes were micro manipulated and 134 were subjected to HIC. Fertilization rate between ICSI and HIC was 88.8% (127/143) and 80.5% (108/134). The pregnancy rate in the two groups was 44% (6/14) and 41.6% (5/12).

Conclusion: The present study offered HIC as an initial form of treatment for male sub fertility, as long as ICSI remains more expensive and required skillful embryologist. However, the use of sibling oocytes for ICSI is recommended, especially in cases with $< 4\%$ normal sperm morphology.

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.

charulata88@gmail.com