

**INTRACYTOPLASMIC MORPHOLOGICALLY SELECTED SPERM INJECTION (IMSI)  
VERSUS INTRA CYTOPLASMIC SPERM INJECTION (ICSI): A RETROSPECTIVE  
ANALYSIS**

**H.D. Pai, N.P. Palshetkar, R. Dalal, A. Mishra**

*Babies and Us Fertility Centre; Lilavati Hospital IVF Centre, Mumbai; Fortis Bloom IVF  
Centre, La femme Hospital, New Delhi, India*

**Abstract:** This study was conducted to determine the efficacy of using the technique of Intra cytoplasm morphologically selected sperm injection (IMSI) as compared to the conventionally used Intra Cytoplasmic Sperm Injection ((ICSI) procedure. IMSI, as the name suggests, is the technique of selecting the most normal looking sperm by magnifying it to about 7200 times. A total of 192 patients who underwent the treatment of In Vitro Fertilization (IVF) with us by either one of the two procedures of IMSI or ICSI over a period of 18 months were included in the study. Out of these 92 were included in the IMSI group while 100 others in the ICSI group according to our inclusion and exclusion criteria. The pregnancy rate amongst patients who underwent IMSI was found to be significantly higher (52.1 %) as compared to those with ICSI (36 %). Furthermore, even the implantation rates were higher in the IMSI group (30.12%) than the ICSI (19.93%) group.

**Keywords:** high magnification, ICSI, IMSI, male infertility, MSOME, sperm selection, OAT syndrome