INTRACYTOPLASMIC MORPHOLOGICALLY SELECTED SPERM INJECTION AT NORDICA FERTILITY CENTER LAGOS, NIGERIA: A REVIEW OF THE FIRST 100 CASES

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Context: Intracytoplasmic Morphologically Selected Sperm Injection (IMSI) is an advancement on Intracytoplasmic Sperm Injection (ICSI). It increases the chance of conception in couples with severe male factor infertility, recurrent ICSI failure and surgically obtained sperm cells.

Objective: To review the outcome of the first hundred cases of IMSI performed at Nordica Fertility Center Lagos

Setting: Private assisted conception clinic in Lagos Nigeria where a wide range of assisted reproductive services are provided. Over 500 cycles of ART are performed every year.

Method: This was a retrospective study, the case notes of hundred consecutive patients were retrieved, socio-demographic and other relevant data obtained

Results: These patients were seen over a period of nine months from October 2010 to July 2011. The commonest indication for IMSI was severe oligoasthenospermia accounting for 89%, recurrent ICSI failure 9% and surgically obtained sperms 2%. Overall, the clinical pregnancy rate was 42%, miscarriage rate was 7.1% and live birth rate was 39%.

Conclusion: This was a preliminary study on the IMSI technique. A clinical pregnancy rate of 42% in a group majority of whom (89%) were poor prognostic patients suggests an advantage of the IMSI technique. A larger and more extensive study on the outcome of the IMSI technique in assisted reproduction is still required.