

EFFICACY OF DOUBLE VERSUS SINGLE INTRAUTERINE INSEMINATION AMONG SUBFERTILE COUPLES IN A PERIPHERAL FERTILITY CENTER

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Intrauterine Insemination (IUI) is a cost-effective and minimally invasive Assisted Reproductive Technology (ART) procedure. Factors contributing in infertility also affect the success rate of IUI. IUI on two consecutive days (double IUI) has been proposed to enhance pregnancy rates, especially in cases of oligospermia as this increase the total concentration of sperm delivered and the window of sperm exposure to the oocyte. Synchronising ovulation and insemination is the principal aim of double IUI. In this study we want to compare the pregnancy rate in the setting of a single vs. double intrauterine insemination (IUI)

This study was conducted in a tertiary care center by collecting secondary data from January 2023 – August 2025 (32 months). Total 231 cycles were included by complete enumeration method. Patients were given ovulation induction treatment with only tab letrozole or along with inj HMG according to patient profile. In case of single IUI, it was performed after 36 hours and for double IUI, it was performed after 24 hours and 48 hours after the intramuscular trigger of hCG.

In our study, 153 (66.2%) in single IUI and 78 (33.8%) in double IUI group. In single IUI group, 22 out of 153 patients conceived (success rate 14.3%). In double IUI group, out of 78 patients, 13 patients conceived (success rate 16.6%). There was no statistically significance difference between the two groups.

Double IUI has no statistical significance advantage over single IUI. Small studies can be found that support double IUI, the overwhelming majority of the existing medical literature on this topic shows no benefit of double IUI compared with a single IUI. IUI. However, larger studies are required to determine if double IUI can give better results.