

**Patient Information:**

Mrs. X, female aged 25y, has been married for 3 years and suffering from primary infertility with irregular menstrual cycles once in 4- 6 months and 3 days of moderate flow.

**Husband Information:** Mr. Y, aged 27y, alcoholic and smoker without any past history. His Semen Analysis report says Total Count : 45million, Active motility 70%, Normal forms : 70%.

**Previous Treatment History:**

She is a known case of Hypothyroidism and was on Tablet Thyronorm 25mg since one year. Underwent Ovulation Induction for 2 years.

**Basic Investigations:**

TVS: Uterus shows normal size, Anteverted , Thin endometrium and B/L PCO

HSG : B/L patent tubes

AMH: 14.6ng/ml

TSH: 2.9  $\mu$ IU /ml

FSH: 7.4mIU/ml

LH : 10.3IU/l

PRL : 4.4ng/ml

E<sub>2</sub>: 47.0pg/ml

**Treatment at MOM IVF:** Counselling for IUI, explained success rates and risk of multiple follicles and multiple pregnancies.

She was put on 25 IU of recombinant FSH, folic acid and other vitamin supplementation from day2 of her periods. Regular follicular study was done and on her day13 of menstrual cycle trigger was given after follicular study which showed two dominant follicles in one in each ovary 17mm and 18mm respectively with endometrium 10mm and triple layered.

IUI was performed on day15 of menstrual cycle with follicular study showing right ovary 22mm dominant follicle, left ovary 22mm dominant follicle and endometrium 8mm thick. IUI done under aseptic conditions with bladder full, catheter passed easily.

UPT done on 28/9/2024, which resulted positive.  $\beta$ HCG 2480.

Early pregnancy scan showed single intrauterine gestation with cardiac pulsations.

**Discussion:** Use of Recombinant FSH on regular basis yielded a good result in this case.

**Conclusion:** An individualized approach towards the treatment of a patient is the most important aspect for a positive result, which has been undertaken in this case at MOM IVF & RESEARCH CENTER. The uniqueness of the treatment at MOM IVF lies in individualized approach which always landed up us at best outcome.