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* IVF (In Vitro Fertilisation)

→ In vitro This is the simple, safe and painless procedure needing no anesthesia anesthesia (injection).

→ In vitro fertilization, eggs are fertilized outside the body of the mother in glass vessels for subsiquent reintroduction into the womb.

→ In this technique, egg production is stimulated in the mother through the use of hormone or fertility drugs resulting in recovery of more than one egg simultaneously that increases the chance of pregnancy.

→ After treatment with fertility drugs a laparoscopy is performed on the woman through a small opening in the abdomen and ripe follicles can then be visualized. Here follicle ruptures and eggs are collected by suction through a tube into a glass vessel containing culture media.

→ A fresh sample of semen is obtained from the male (♂)

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about an hour before the eggs are collected.

→ The sperm are washed twice and centrifuged in the culture medium before they are mixed with the eggs.

→ A concentration of 1 million to 80 million of motile sperms are needed for successful fertilization.

→ When the eggs complete their maturation process, they are kept in the culture medium for 5-6 hours, before they are get mixed with sperm.

→ Later sperms and eggs are mixed together.

→ After 30 hours, the fertilized eggs may form 2-celled embryos at about 40-hours, 4-celled embryos and after 60 hours, 8-celled embryos form.

→ In embryo transfer, any embryo from the one celled to 16-celled stage may be used.

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→ Through a narrow catheter which passes through the cervix into the uterus, the embryos embryos are transferred.

* Application of IVF (In Vitro Fertilization)

(i) In vitro fertilisation and embryo and transfer are at present used for both diagnostics and therapeutic purposes.

(ii) They are mainly used in case of women reporting with infertility.

(iii) Sometimes embryo transfer fails and patient has advised to collect as many eggs as possible at the same time and have them fertilised. Then we one or two for transfer into woman and store the rest in frozen state for future user use.