

IN VITRO FERTILIZATION (IVF) PROCEDURE :

Step-by-Step



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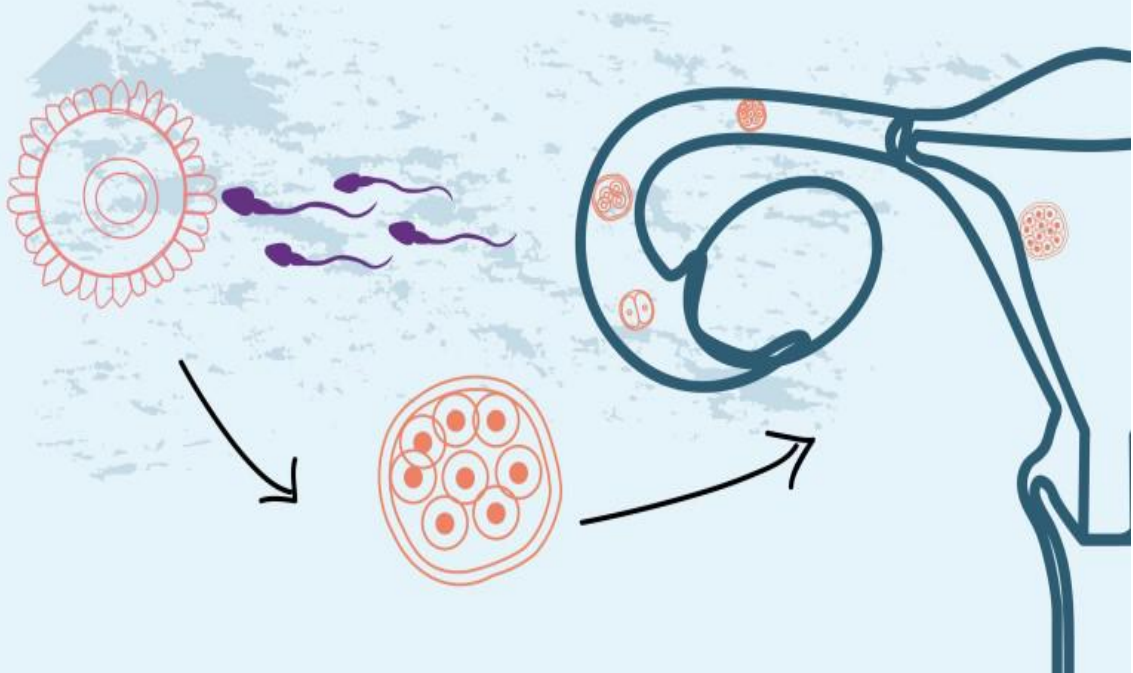


In vitro fertilization (IVF),
the Assisted Reproductive Technology
is commonly known as 'The Test Tube Baby'.

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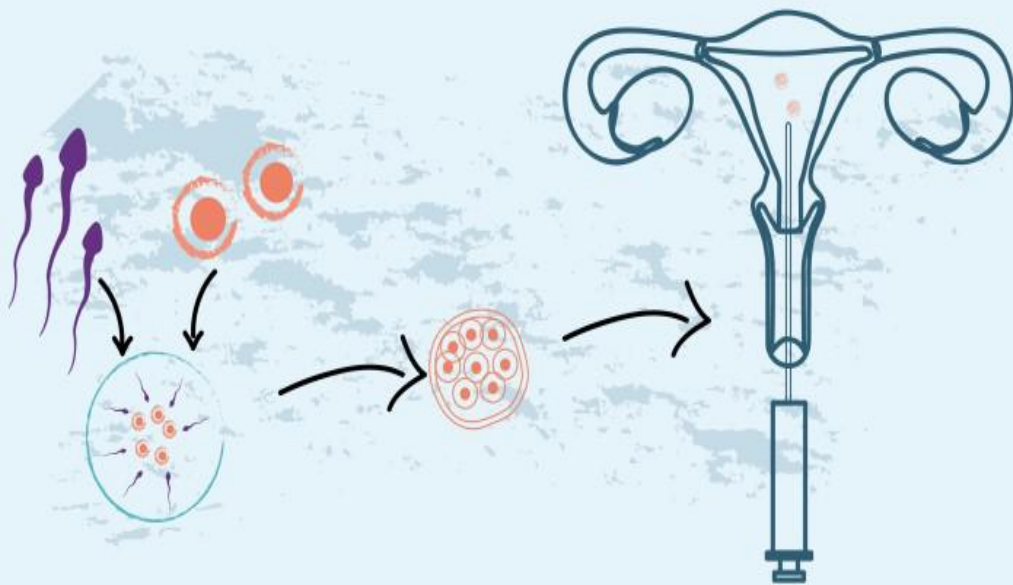


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Here, the fertilization of the eggs take place in a laboratory dish, and then the fertilized eggs (embryos) are transferred into the woman's uterus.



Basic steps for IVF



Basic steps for IVF

STEP - 1

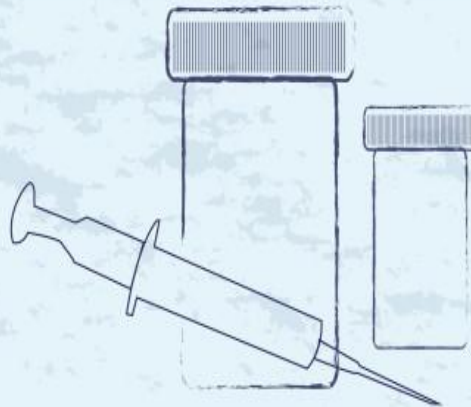
Ovarian Stimulation



Step 1

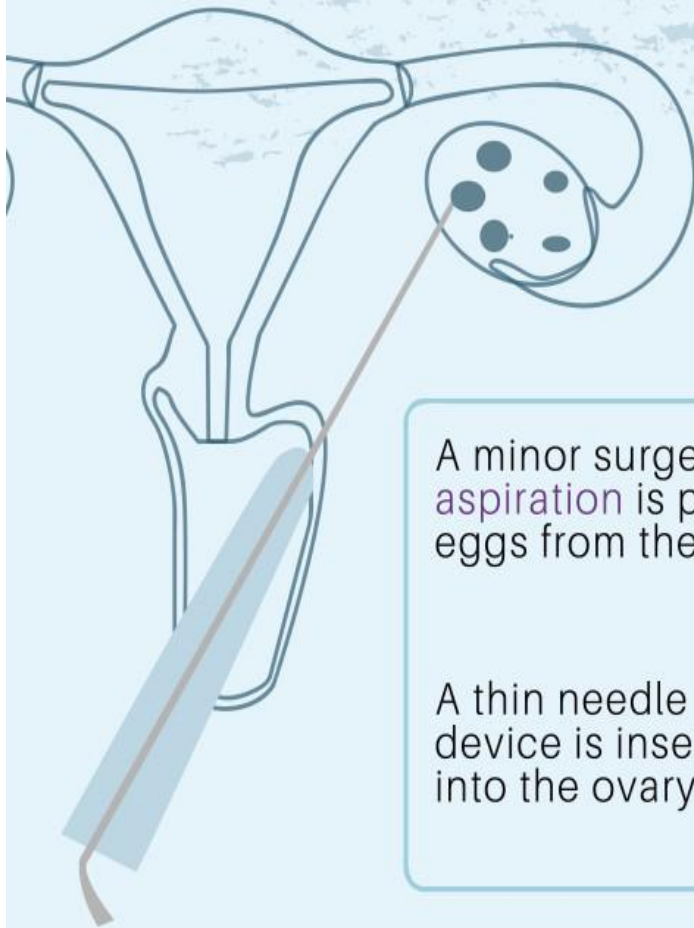
Ovarian Stimulation

Fertility drugs (contains follicle stimulating hormones) are given to stimulate egg production. So that ovaries can produce more eggs than normal. (Woman typically produces only one egg per month).



STEP - 2

Egg Retrieval



Step 2 Egg Retrieval

A minor surgery called **Follicular aspiration** is performed to collect the eggs from the ovary.

A thin needle connected to a suction device is inserted through vagina into the ovary to suck the eggs out.

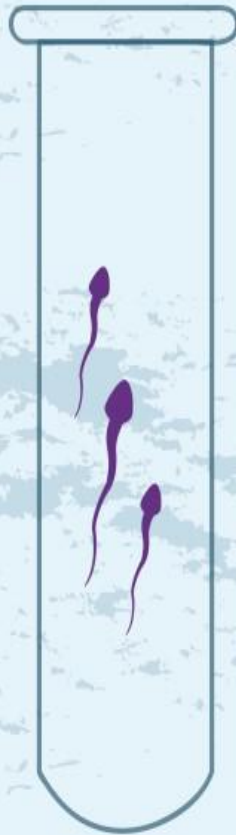
STEP - 3

Sperm Collection



Step 3

Sperm Collection



Sperm sample is collected and prepared to combine with the eggs.

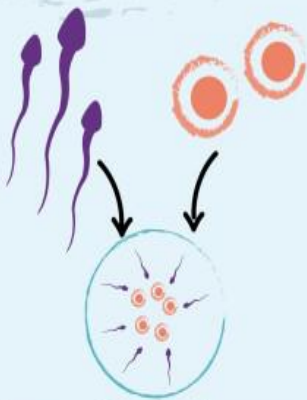
STEP - 4

Insemination and Fertilization

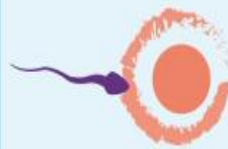


Step 4

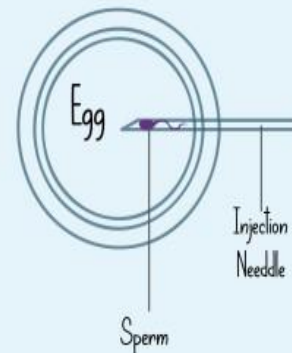
Insemination and Fertilization



The collected eggs and sperms are mixed together in a laboratory dish, nestled inside an incubator (temperature control).



Fertilization takes place within few hours.



ICSI technique (direct injection of sperm into egg) is performed for severe male factor infertility.

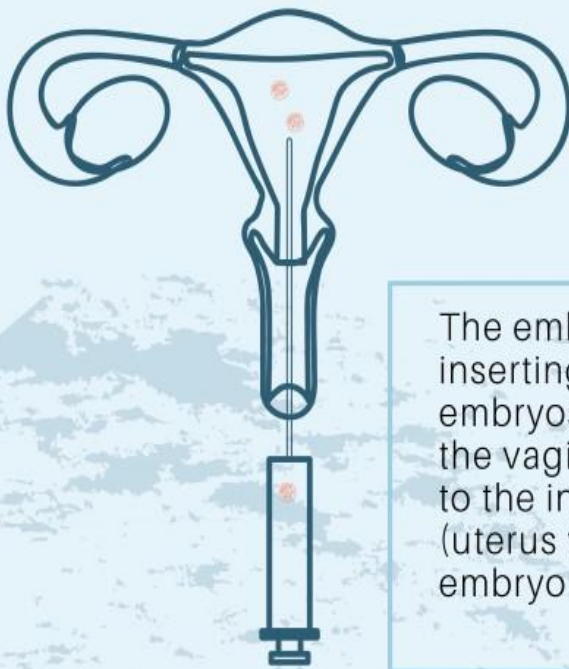
STEP - 5

Embryo Transfer



Step 5

Embryo Transfer



The fertilized eggs called zygotes divide and develop into embryos which are then transferred into the womb.

The embryos are transferred by inserting a catheter (containing embryos) into the uterus through the vagina. The embryo attaches to the inner lining of the womb (uterus wall), and the healthy embryo growth begins.



Usually 2 or 3 embryos are transferred during IVF, which can lead to multiple pregnancies. However, patients can choose Elective Single Embryo Transfer (eSET) opt, where one embryo can be transferred into the uterus, rather than multiple.



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