



In Vitro Fertilization



What is IVF ?

- **Assisted reproductive technology (ART)** : a group of fertility treatments that involve both the sperm and the egg
 - **In vitro fertilization (IVF)** : the most common type of ART where the sperm fertilizes the egg outside the body, and doctors implant it into the woman's uterus in hopes of a successful pregnancy

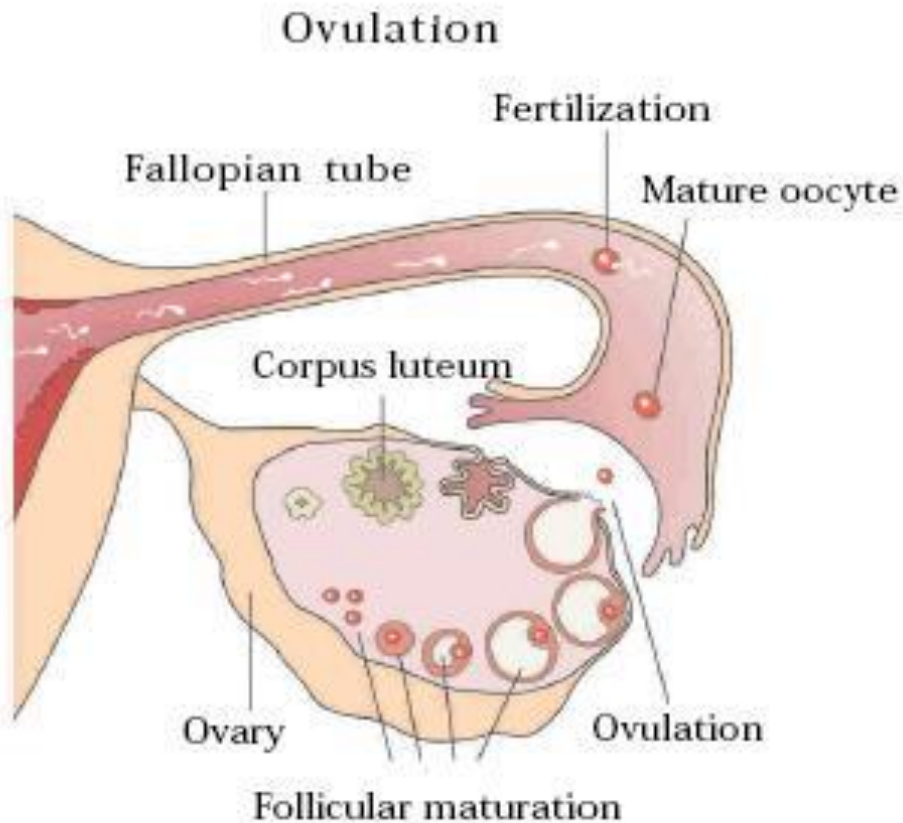


1978 : Louise Brown of England, first baby born via IVF



How does it work ?

➤ Ovarian stimulation



- Stimulation done by synthetic FSH in order to have a normal stimulation of the follicles' growth
- Several eggs per menstrual cycle instead of one

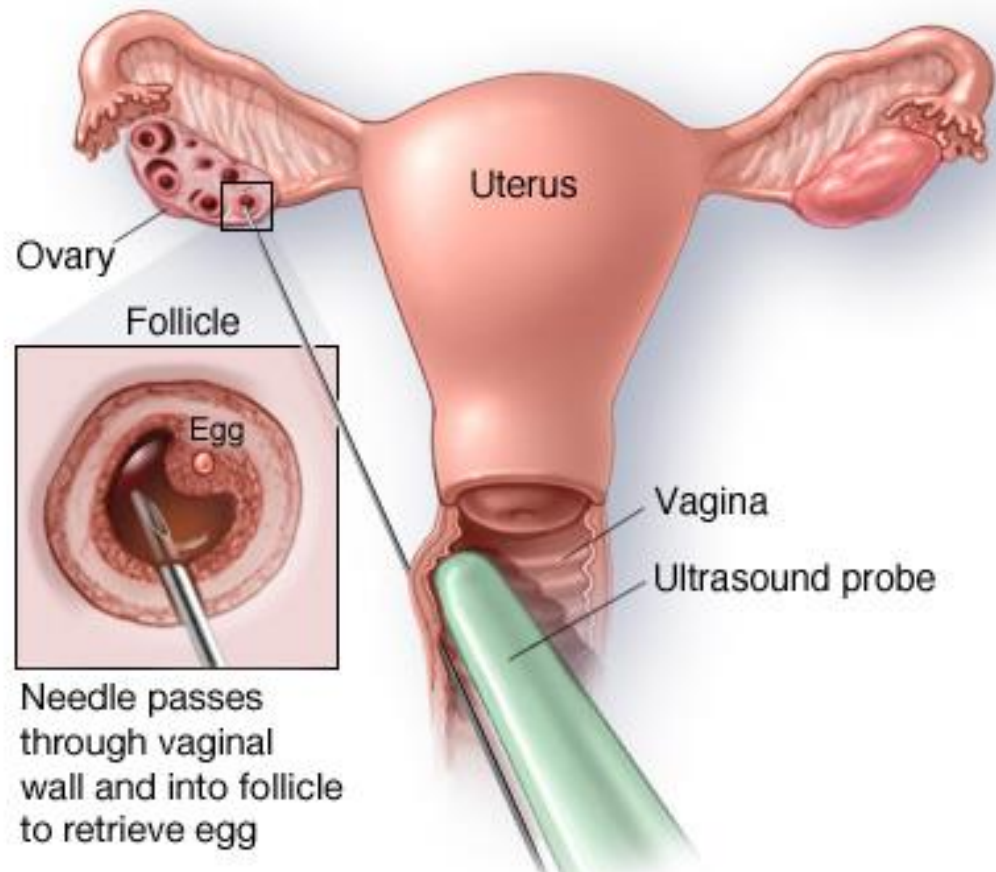


IVF ovarian follicle monitoring



How does it work ?

➤ Egg retrieval



transvaginal ultrasound aspiration

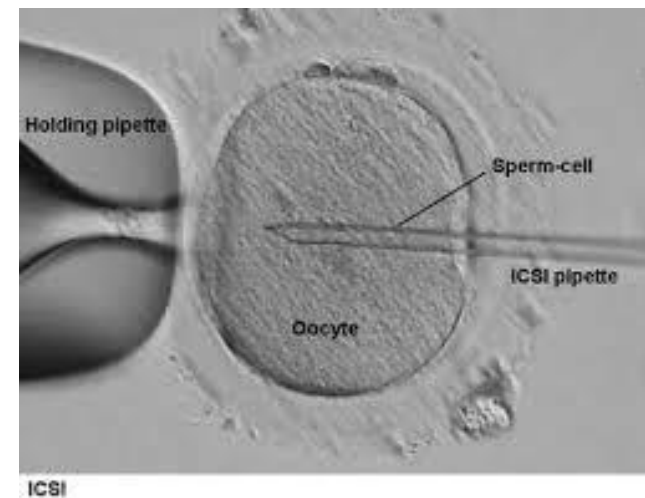
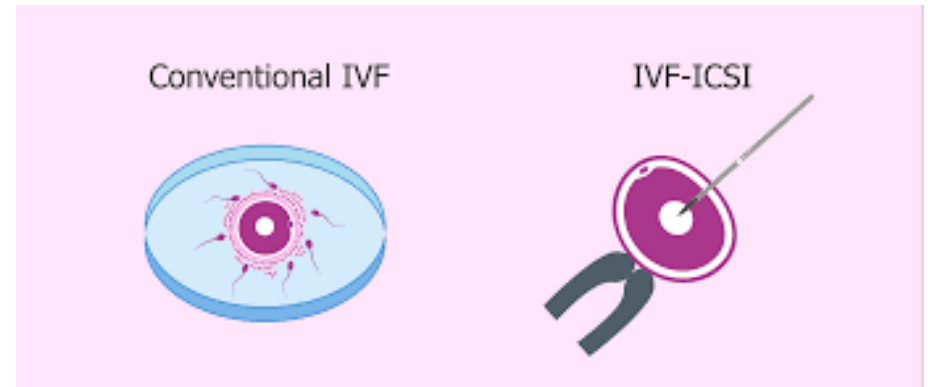


How does it work ?

➤ Insemination



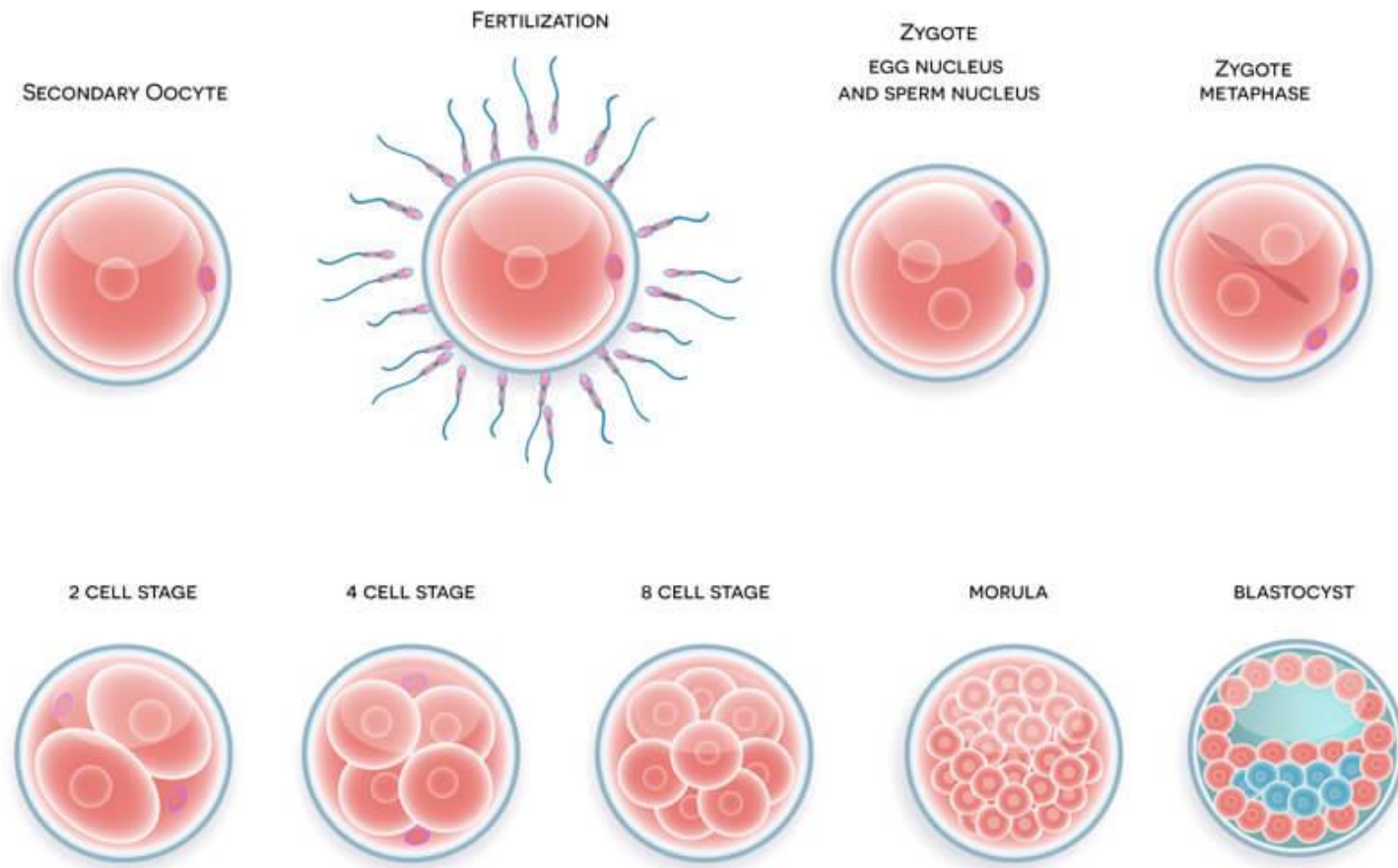
Incubator





How does it work ?

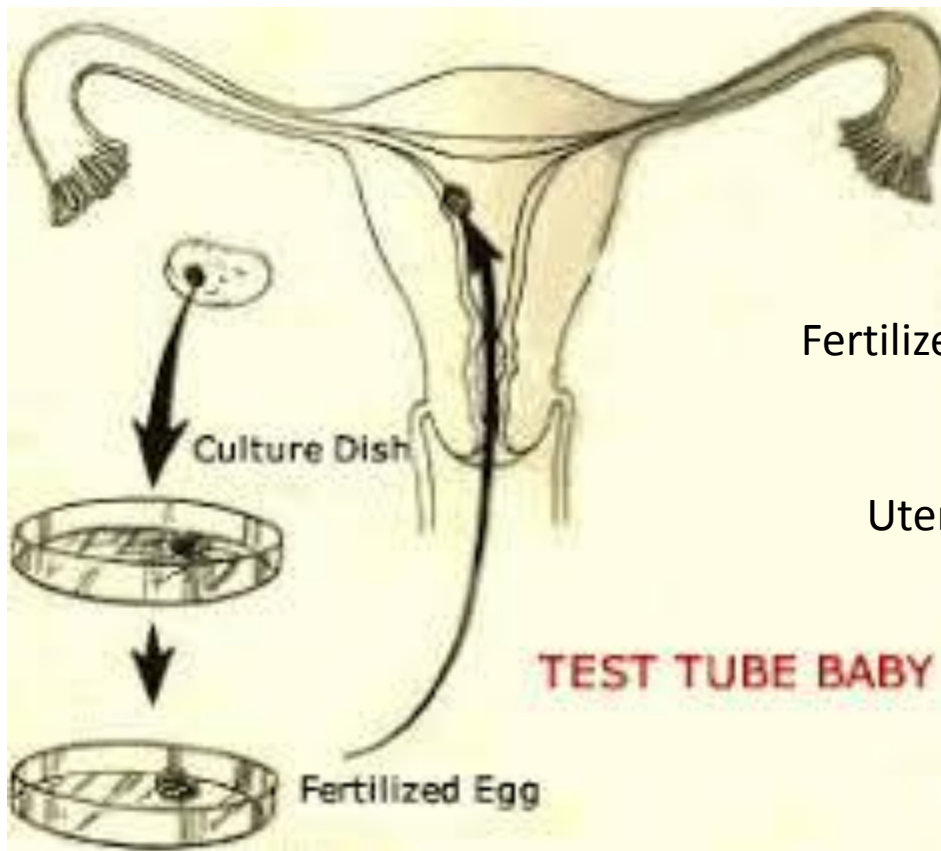
➤ Fertilization and embryo culture





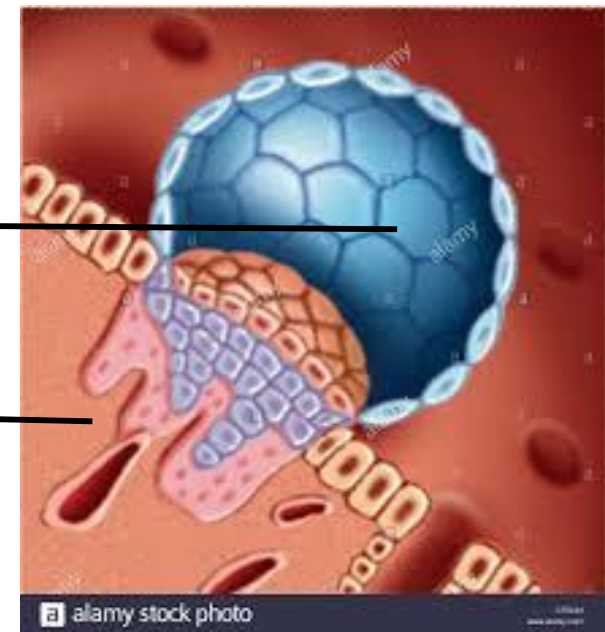
How does it work ?

➤ Embryo transfer



Fertilized egg

Uterus



alamy stock photo



Risks ?

- Ovarian hyper stimulation syndrome
- Multiple pregnancy : about 5 percent of IVF pregnancies are ectopic, which means that the fertilized egg develops outside the uterus, usually in the fallopian tubes

