



# **Assisted Reproductive Technologies**

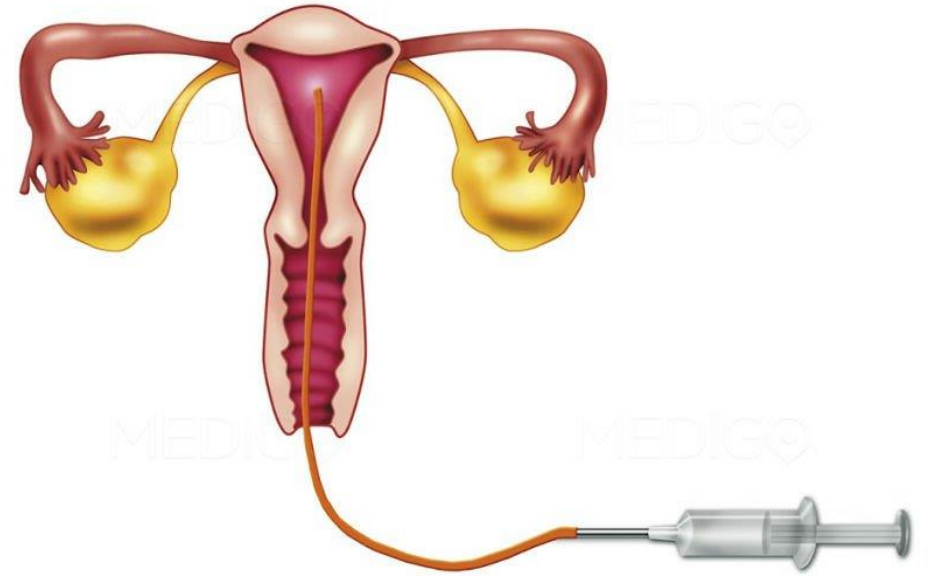


Reproductive technologies are techniques designed to promote and enhance the chances of childbirth in cases of infertility.



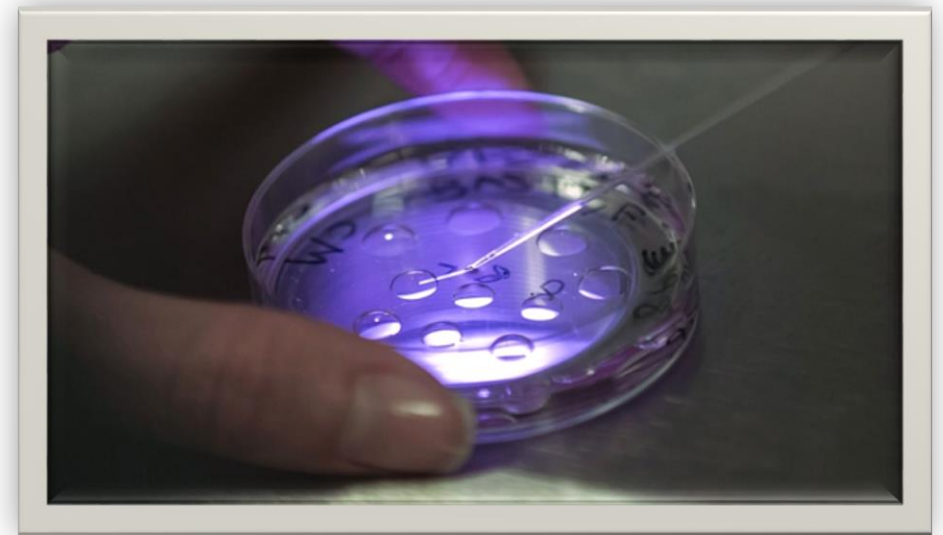
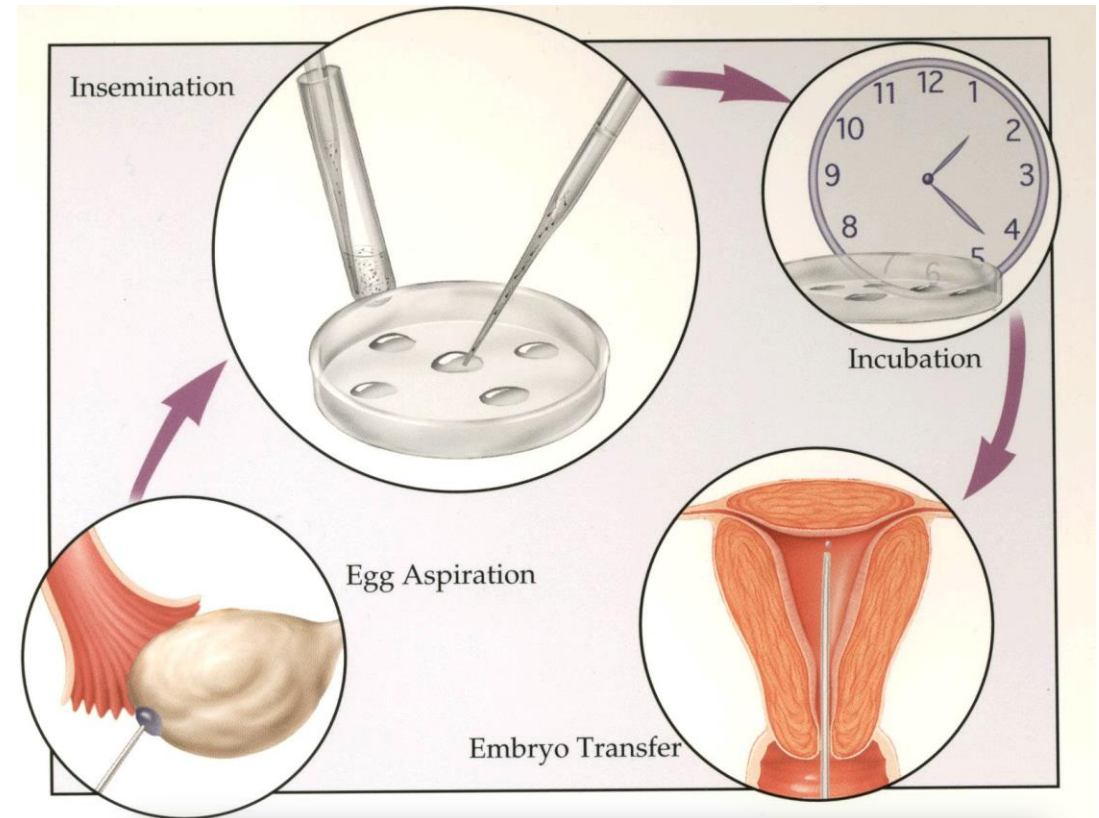
## 1. Artificial Insemination

- Developed over 200 years ago for livestock, now used for humans as well
- Donor sperm are provided.



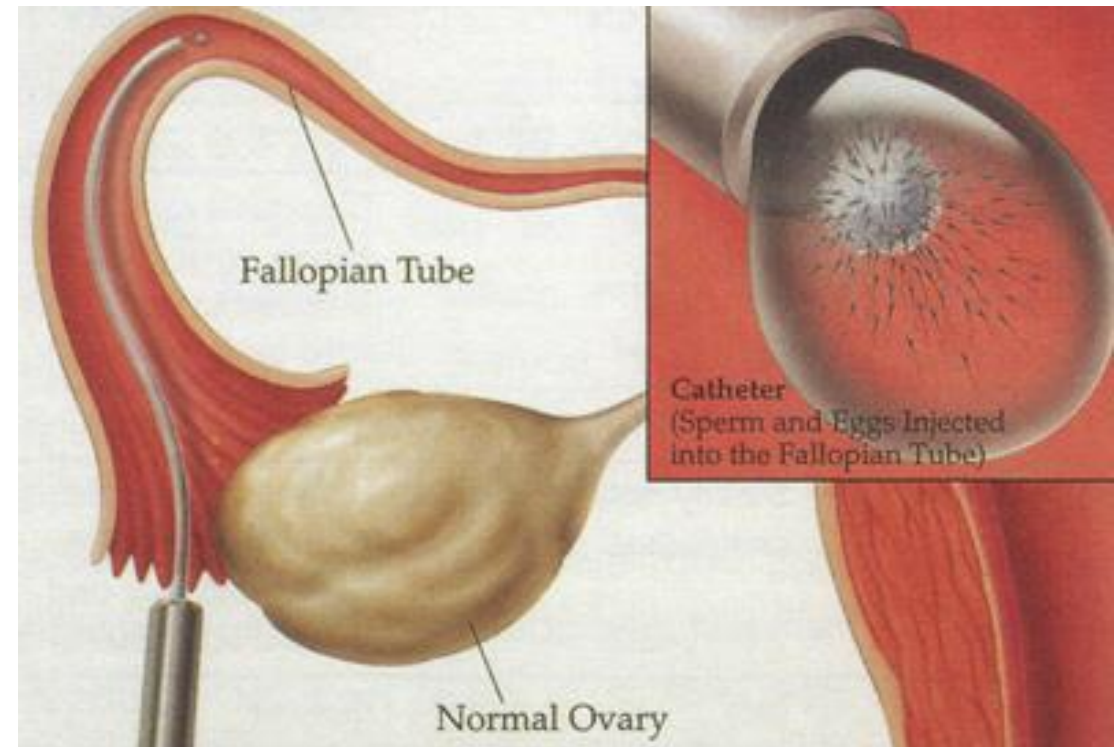
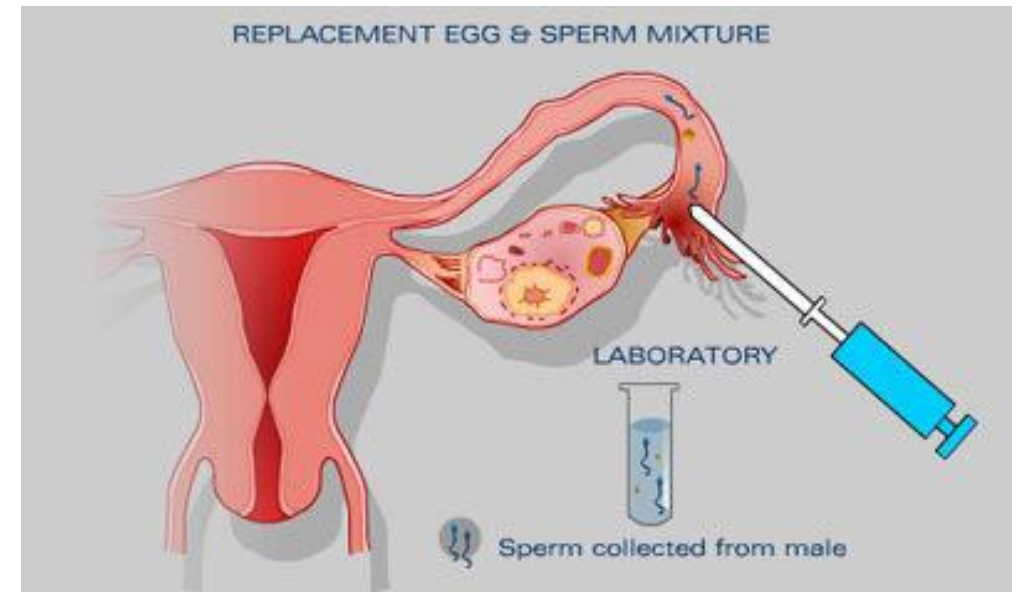
2. In Vitro Fertilization a woman's egg cell is placed in a petri dish, and then sperm are injected into the dish so that one sperm cell may fertilize the egg.

- In vitro = In Glass
- After 2-4 days fertilized eggs are implanted in the female.
- Hormones are used to increase the success rate.



### 3. Gamete Intrafallopian Transfer (GIFT)

- A mixture of a woman's eggs and a male's sperm are injected into the fallopian tubes where fertilization occurs.



#### 4. Intracytoplasmic Sperm injection

- One sperm is injected into an egg to fertilize it. The resulting zygote is implanted into the female. This method has a 25% success rate.

