

ART Flowchart: Which Technique Is Used When?

Mastering Assisted Reproductive
Technologies for NEET

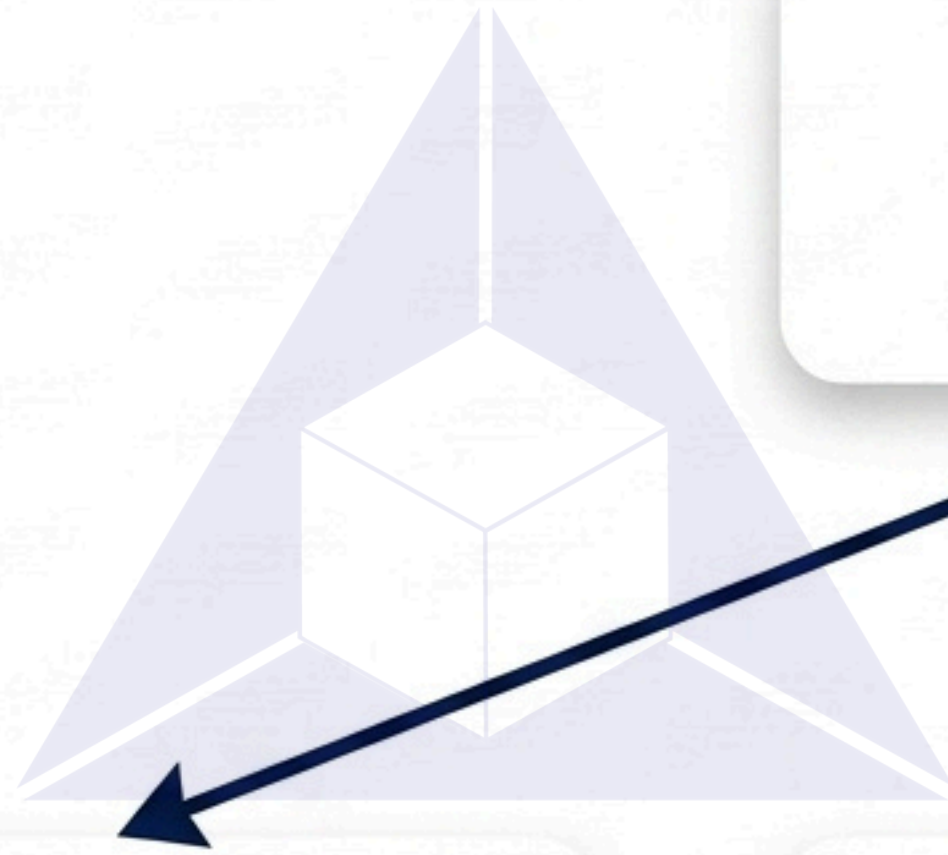
The ART Diagnostic Tree

**Problem:
Infertility**

**Female cannot
provide ovum**

**Female cannot
conceive in body**

**Male: very low
sperm count**



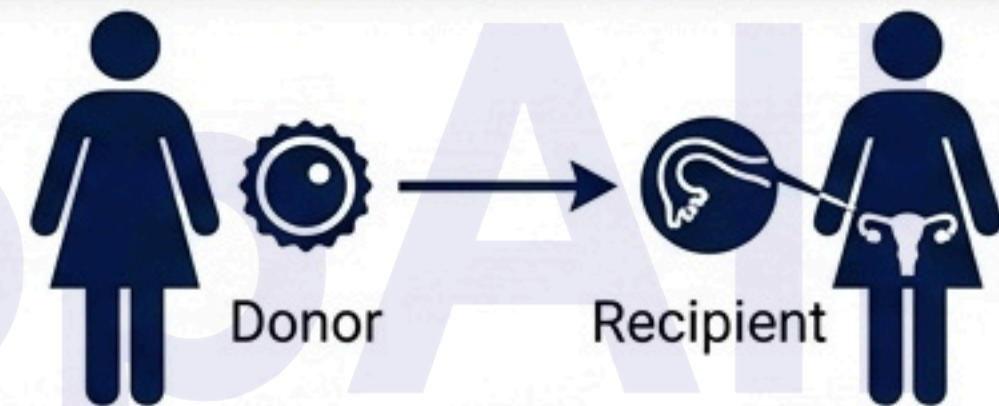
TopAll

Problem: Cannot Produce Ovum

Condition: The female cannot produce an ovum, BUT can provide a suitable environment for fertilisation and fetal development.

GIFT

Gamete Intra
Fallopian Transfer



Ovum (from a donor) transferred into the fallopian tube of another female who cannot produce an ovum but can support fertilisation

Quick Tip: GIFT requires a functioning fallopian tube because fertilisation will still happen naturally inside the body (in-vivo).



You've Learned the Theory. Let's Test Them Now.

$$E=mc^2$$



Turn theory into marks with **unlimited MCQs, smart analysis, and focused revision.**

Practice Now



At prep.topall.app

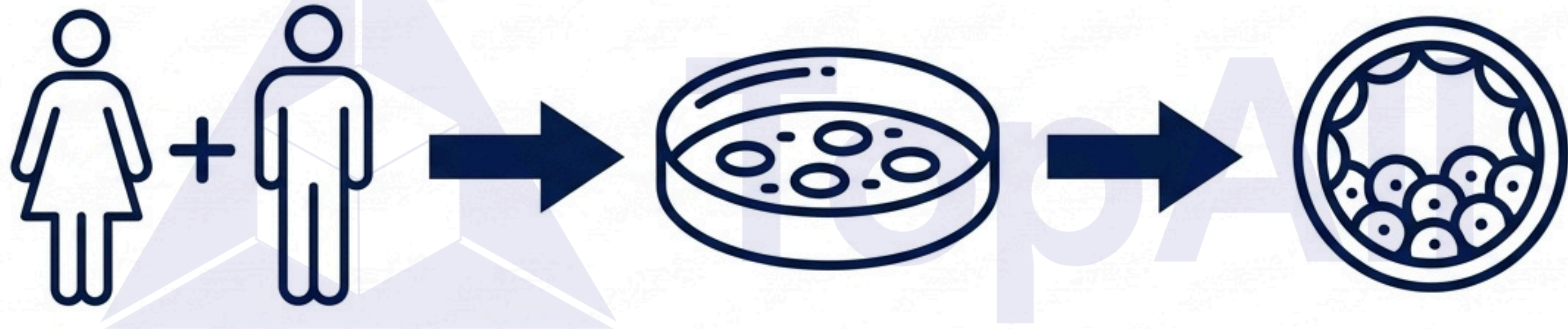
Key Highlights

- » Free Study Material, Videos & Infographics
- » Push Your Limits with Level-Based Challenges
- » Climb the Leaderboard Among Fellow Aspirants
- » Practice Unlimited MCQs for NEET & JEE
- » Get Clear Explanations, Not Just Marks
- » Track Your Performance Smarter



Problem: Cannot Conceive Inside Body

Condition: Blocked tubes or hostile environment preventing natural sperm-ovum fusion.



IVF-ET In Vitro Fertilisation - Embryo Transfer
(test-tube baby)

Ova (wife/donor) + **sperms** (husband/donor) fused in the lab
to form **zygote/early embryo**

The 8-blastomere rule

Zygote or early embryo
(≤ 8 blastomeres)
transferred into the
fallopian tube $\rightarrow$ **ZIFT**



$\rightarrow$ **ZIFT**

Embryos with more
than 8 blastomeres
transferred into
the uterus - **IUT**



$\rightarrow$ **IUT**

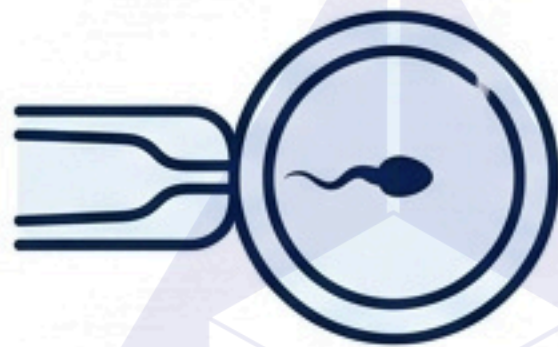


Examiner Trap: Mixing up IUT and ZIFT.

Remember: 'U' in IUT stands for Uterus (needs a bigger embryo, >8 cells). Fallopian tube gets the smaller zygote (≤ 8 cells).

Problem: Male Factor Infertility

Severe



Condition: Very low sperm count or morphology issues.

Solution: ICSI (Intra Cytoplasmic Sperm Injection)

A sperm is directly injected into the ovum to form an embryo in the lab

Moderate



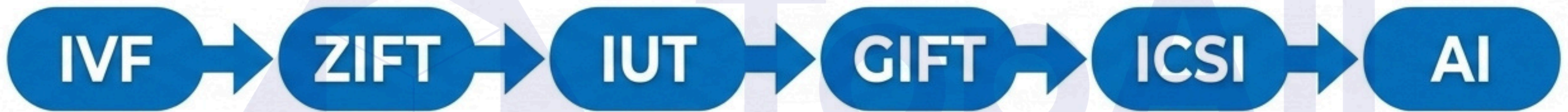
Condition: Inability to inseminate or low sperm count in semen.

Solution: AI / IUI (Artificial Insemination / Intra-Uterine Insemination)

Semen (from husband or donor) introduced into the vagina (AI) or uterus (IUI)

Learn ART as a decision tree, not as isolated acronyms.

Cleaner version: 'If Zoo Iguanas Got Sick Inject Antibiotics' → **IVF** → **ZIFT** → **IUT** → **GIFT** → **ICSI** → **AI**



Recall Check:

Which technique uses an embryo with 16 blastomeres?

(Answer: IUT)



You've Learned the Theory.

Now Let's Test It.

Reading notes gets you knowledge.

Practicing MCQs gets you marks.

That's exactly what TopAll Pro is built for.

Try TopAll Pro Now

What TopAll Pro Does Differently

-  **Stuck? Snap it. Solve it. — Doubts AI**
Photo → step-by-step solution in seconds, 24/7
-  **Your AI Coach finds your blind spots**
Concept-level weakness detection — not just chapter-level
-  **4.5 Lakh+ questions. Never run out.**
13× more content than any other prep app in India
-  **Build your own test in 60 seconds**
Pick a chapter, set difficulty — AI does the rest instantly.
-  **AI Recommendation that helps you improve**
AI Recommendation Analysis your Tests and tell you where you need to improve.



Practice the moment you finish studying
Jump in while the concept is still fresh in your head

4.5L+
MCQs

1.5L+
Students

AI Powered
In-Depth Analysis