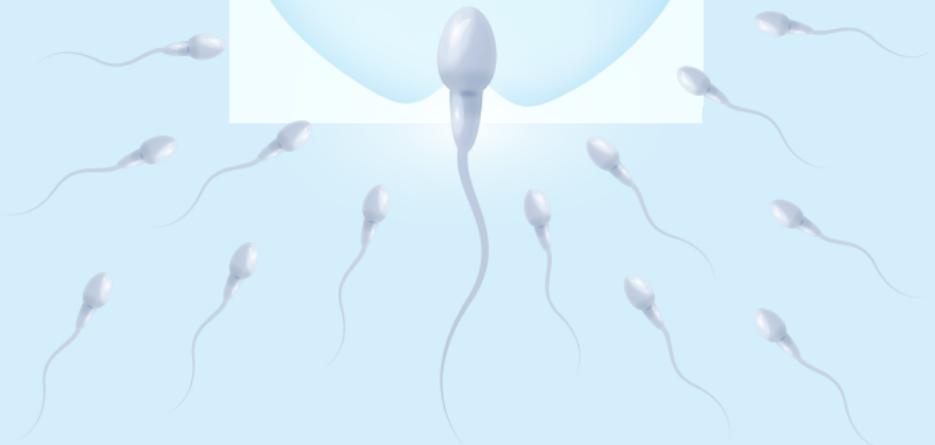




# IN-VITRO MATURATION (IVM)



In-Vitro Maturation is one of the many procedures that can be suggested by your gynaecologist as the treatment for infertility.



## **What is IVM?**

IVM is one of the methods for Assisted Reproductive Technology (ART) where the eggs/ova from the female are made to mature outside the human body. The mature ova are then fertilised using healthy sperms in laboratory settings just like in an In-Vitro fertilisation procedure.

## **How is IVM different from IVF?**

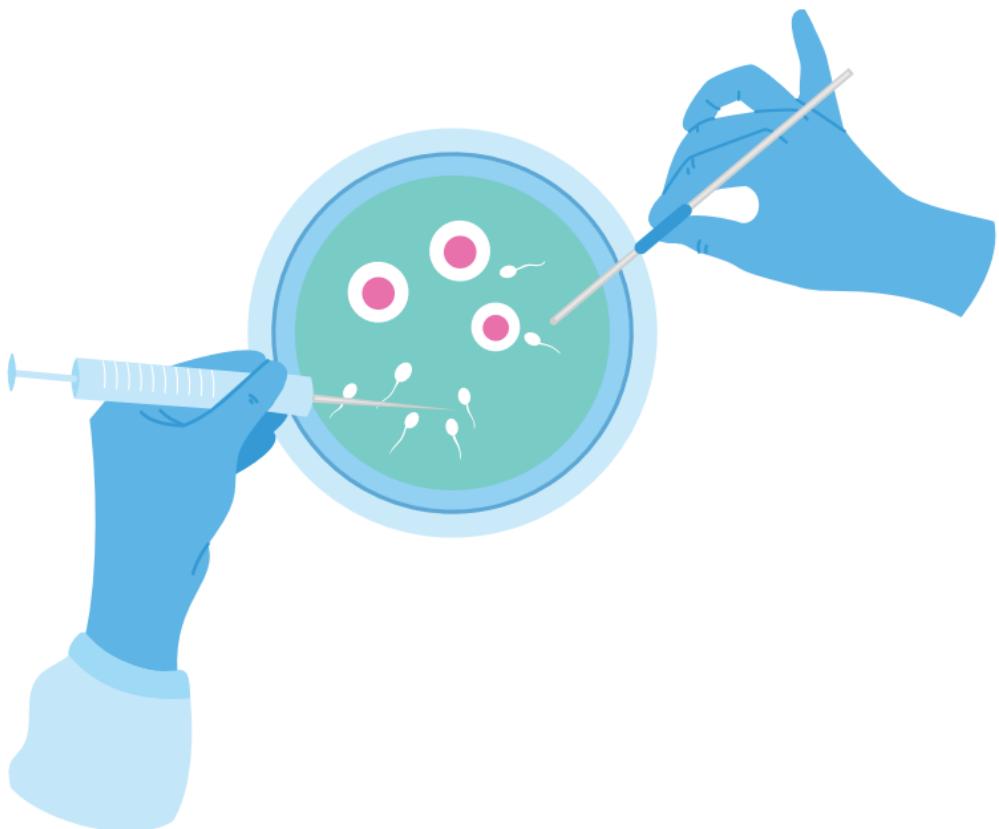
In IVF ova/eggs are made to mature inside the body, the mature eggs are then retrieved and fertilised in laboratory settings. The embryo thus formed is then transferred to the uterus to expect a successful pregnancy. All procedural steps remain similar in IVM, except that the eggs/ova are retrieved in an immature state, which are then made to mature outside the human body.

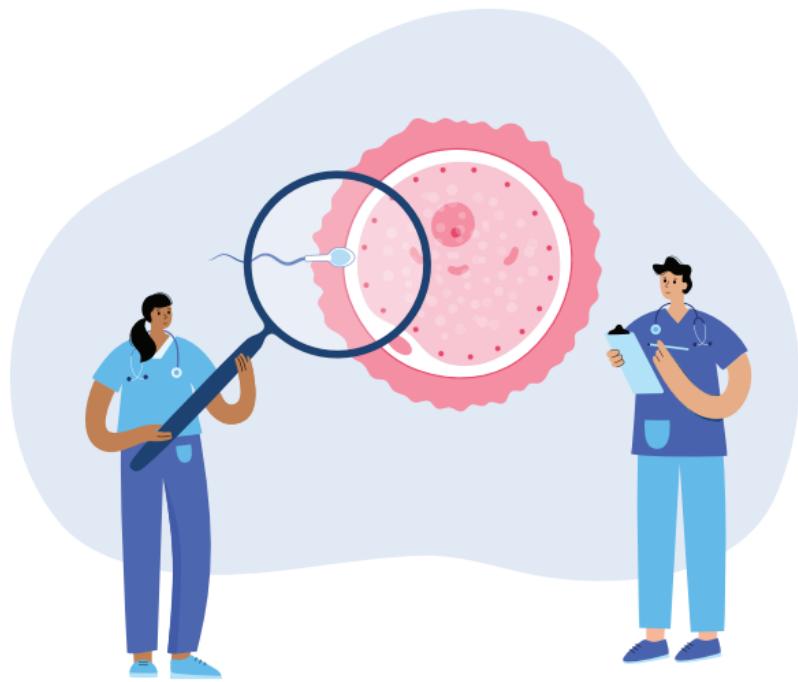
## **Is there any advantage of maturing the eggs outside?**

When ova/eggs are matured inside the body, women require multiple hormonal injections to encourage maturation, and multiple blood tests and ultrasounds to monitor the same. This is within a span of just one month. By retrieving immature eggs in IVM hormonal injections and tests can be avoided. This is especially beneficial in women who can have more side-effects due to hormones, as in cases of PCOS.

## **How are ova/eggs matured in IVM?**

After retrieval of eggs, they are made to mature in a culture using hormones, or a naturally occurring protein dimer.





## **Who can benefit from IVM procedure?**

Since IVM eliminates the need for hormonal injections, women with the following may particularly benefit from this procedure.

- Women with PCOS, as their ovaries are more prone to getting hyper stimulated
- Women who are recovering/have recovered from cancer, as hormones may stimulate remaining cancer tissue
- Young women looking for lesser exhaustive option than IVF
- IVM may be utilised in case the eggs retrieved during IVF are immature

Apart from these specific conditions, all women who benefit by an IVF can also opt for IVM. These include women with fallopian tube defects, endometriosis and ovulation disorders or men with problems in quality and quantity of sperms, etc.

## **What are the advantages of IVM?**

Apart from eliminating the need of injecting hormones for maturation of eggs, IVM is also cost effective and less-exhaustive.

All cases of infertility are unique, and the success rate and risks associated with a procedure depend on the individual health condition. Consult a gynaecologist to know what is best suited for you.

Ankura hospital for women and children, has a team of expert obstetricians and gynaecologists who guide you through each step of infertility treatment.





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