

ZyMōt™ MULTI SPERM SEPARATION DEVICE

An advanced method for sperm separation



CooperSurgical®

Male factor infertility

Male factor infertility contributes to approximately 50% of all infertility cases, highlighting the **importance of sperm quality and health**.^{1,2}

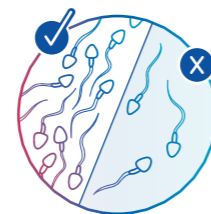
Sperm are designed to deliver DNA and are unique cells with distinctive morphology (shape). The number, motility (ability to swim), morphology and integrity of sperm DNA can impact your fertility treatment and success.

Examples of sperm disorders



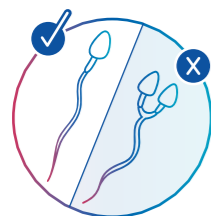
Low sperm motility

Reduced proportion of sperm able to swim or sperm with poor quality of movement



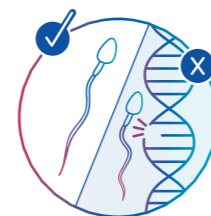
Low sperm count

Reduced numbers of sperm



Abnormal sperm morphology

Misshapen sperm with defects to head and or tail



Sperm DNA fragmentation

Disturbance to the genetic material of the sperm

ZyMōt represented a fundamental change in thinking about how to effectively separate high-quality sperm for ART procedures.³⁻⁵

What is sperm separation?

During fertility treatments, an embryologist visually evaluates the semen sample's appearance and sperm motility and selects the most motile sperm, to help ensure the best chance of success. However, visual inspection alone cannot always reveal immature or damaged sperm and if unsuitable sperm are chosen, they might affect embryo quality and may increase the risk of pregnancy loss.⁶

What is the ZyMōt Multi Sperm Separation Device?

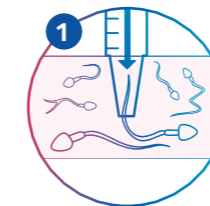
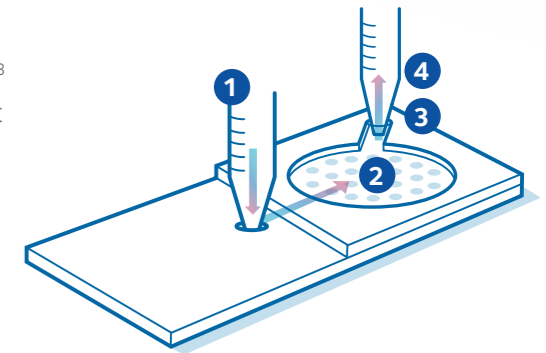
The ZyMōt™ device is a first-of-its-kind patented innovation⁷ and helps retrieve a high-quality motile sperm sample with considerably lower levels of DNA damage.³⁻⁵

It is an innovative and effective way to separate motile sperm for fertility treatments that helps to increase the chances of successful implantation and pregnancy.⁸ The ZyMōt Multi Sperm Separation Device uses only the most motile sperm for ART procedures, whether ICSI, IVF or IUI.

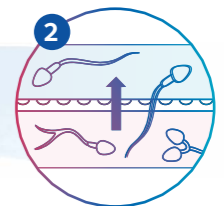


How does ZyMōt™ work?

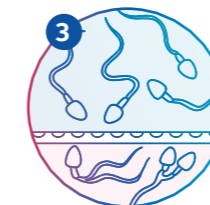
ZyMōt creates a competitive environment for sperm separation.³ It has two chambers separated by a microporous membrane that filter high-quality sperm, isolating them in the upper chamber.³⁻⁵ The most motile sperm can swim through the pores of the membrane and can then be harvested from the upper chamber by the embryologist. Immature (not fully formed) sperm, damaged sperm or those sperm with low motility (not good at swimming) do not reach the end destination.



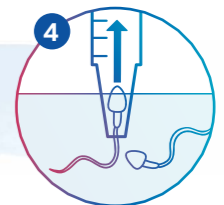
The sperm sample is injected into the lower chamber via the inlet port



The most motile and viable sperm can swim through the holes in the microporous membrane and into the upper chamber



The most motile and viable sperm are isolated in the upper chamber



Your embryologist collects the sperm for your fertility treatment

How can the proven success of the ZyMōt™ device help me?^{9,10}

One motile sperm and one egg are all that is needed to begin the process of creating an embryo. The quality of the sperm used matters, and when processing with the ZyMōt device, it enhances the recovery of sperm with good motility, progression and morphology, along with providing a significant reduction of DNA damage.^{9,10}

For men with high sperm DNA fragmentation, ZyMōt-processed samples have been shown to select high-quality, motile sperm that helps enhance fertilization, embryo development, and pregnancy rates.⁸

Using the ZyMōt device has been shown to increase the number of euploid embryos and can potentially lead to pregnancies for couples with a history of previous ART failure.^{8,11}

Talk to your clinician

ZyMöt can help make it easier for your fertility team to isolate high-quality, motile sperm³⁻⁵ to help improve your chances of a successful treatment.⁸⁻¹⁰



ART, assisted reproductive technology; ICSI, intracytoplasmic sperm injection ; IVF, *in vitro* fertilization; IUI, intrauterine insemination.

Contact your fertility clinician to find out if ZyMöt is a good option for you, or visit our website to learn more:



References

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