# IMPROVING PATIENT OUTCOMES

## Understanding the latest science in the ZyMōt™ revolution

### Increasing Euploidy and Pregnancy Rates

ZyMōt™ Sperm Separation Devices have been designed and developed to aid reproductive medicine professionals in the selection of the healthiest and best performing sperm for use in assisted reproductive technology (ART) procedures. ZyMōt devices enable the separation of sperm with the lowest possible levels of DNA fragmentation and oxidative stress. Improved sperm health means better clinical outcomes. In new research presented at ASRM 2020, investigators examined euploidy and ongoing pregnancy rates, and saw **significant improvement when processing samples with ZyMōt devices**.

### Results: Improved Euploidy Rates

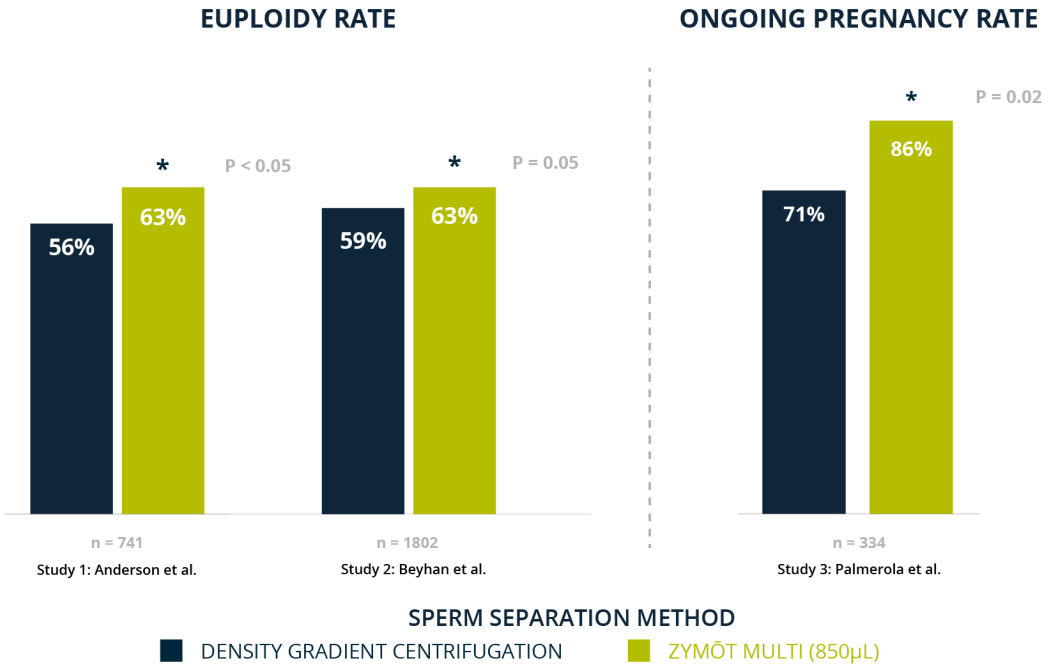
Anderson and colleagues conducted a prospective cohort study[1] that compared the impact of sperm prepared utilizing density gradient centrifugation (DGC) or sperm separation with the ZyMōt Multi (850µL) device on euploidy and pregnancy outcomes. The **D5 euploid rate was significantly higher** using ZyMōt compared to DGC (below, left).

Anderson also presented results based on a Six Sigma-style evaluation of time and showed that **ZyMōt saves procedural steps and time**.

Beyhan and colleagues conducted a retrospective study[2] that examined preimplantation development following ICSI after ZyMōt or DGC, in presumed normal to moderate male infertility patients. Similar fertilization and blastocyst conversion rates between the cohorts were observed. An **increased euploid rate was observed** for the ZyMōt-processed samples (below, middle).

### Results: Improved Ongoing Pregnancies

In another retrospective study, Palmerola and colleagues[3] compared ongoing pregnancy rates for two cohorts that used either DGC or ZyMōt preparation. A **significant improvement in ongoing pregnancies** following single, euploid embryo transfer was observed (below, right). Fertilization, useable blastocysts and D5 and D6 biopsy rates were similar between the DGC and ZyMōt groups.




### Improving Efficiency and Outcomes

ZyMōt devices are simple to use, helping labs quickly achieve optimal performance. With only 5 minutes of total hands-on tech time per sample, every ZyMōt-processed specimen represents a significant time savings over traditional, centrifugation-based methods.

**Learn more at zymotfertility.com**

### References


1. Anderson T., et al., Fertility and Sterility (2020), Volume 114, Issue 3, O-104
2. Right: Beyhan Z., et al., Fertility and Sterility (2020), Volume 114, Issue 3, P-48
3. Palmerola K., et al., Fertility and Sterility (2020), Volume 114, Issue 3, P-45


ZyMōt FERTILITY


**ZyMōt Fertility |a DxNow, Inc. business unit**
401 Professional Drive, Suite 130, Gaithersburg, MD USA 20879-3429
240.454.9893 | zymotfertility.com | info@zymotfertility.com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