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Comparison of vitrification and conventional cryopreservation of day 5 and day 6 blastocysts during clinical application

*Fertility and Sterility, Volume 86, issue 1, July 2006, pages 20-26.
Juergen Liebermann, PhD, Michael J Tucker PhD.*

Objective:

To evaluate implantation of day 5 and day 6 vitrified and slow-frozen blastocysts.

Design:

Retrospective analysis comparing two cryopreservation techniques.

Setting:

Private IVF clinic.

Patient(s):

Five hundred eight cryopreserved embryo transfer candidates.

Intervention(s):

Supernumerary day 5 and day 6 blastocysts were vitrified or slow-frozen and transferred after warming or thawing.

Main Outcome Measure(s):

Comparison of two cryopreservation techniques with respect to survival rate, implantation and pregnancy rates of day 5 and day 6 blastocysts.

Result(s):

In 245 vitrified transfer cycles, survival, embryonic implantation and clinical pregnancy rates for day 5 blastocysts were 95.9%, 33.4%, 48.7% respectively.

For day 6 blastocysts the results were 97.5%, 25.9%, 42.8%.

In 254 slow frozen transfer cycles, survival, embryonic implantation and clinical pregnancy rates for day 5 blastocysts were 91.4%, 29.6%, 42.8% respective.

For day 6 blastocysts the results were 94.8%, 28.2%, 43.1%.

Overall there was a slightly but not significantly higher outcome regarding implantation and clinical pregnancy with the use of day 5 blastocysts (31.3% and 45.4% respectively) versus day 6 blastocysts (26.7% and 42.9% respectively).

Conclusion:

Vitrification technique yields the same implantation and pregnancy rate as slow-frozen blastocyst transfers. Slow growing embryos can be cryopreserved on day 6, because they yield a satisfactory survival, implantation and pregnancy rate

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- Increasing human blastocysts survival rate facilitates donor program growth
- Vitrification enables you to preserve life and provides fertility options for woman



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150 µm, 175 µm, 200 µm, 275 µm

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Conferences

ESHRE 2008

24th edition of the Annual Meeting of the European Society for Human Reproduction and Embryology
Barcelona, Spain July 6-9 2008

**Fertility Society of Australia
2008 Conference**

"Working together for Reproductive Health"
Brisbane, Queensland 19-22 October 2008

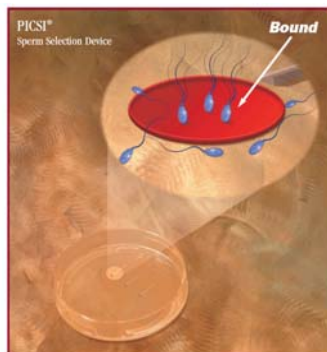
Staff News

Gytech would like to welcome Ross Turner and Kerrin Ball to the National Sales Team. Ross will be one of three Account Managers working within New South Wales and Kerrin will be servicing Western Australia, South Australia and part of Victoria. Welcome to you both.

We would also like to welcome back Bree Plunkett (nee Tozer) after the birth of her son Isaac.

PICSI® Sperm Selection Dish

The PICSI Sperm Selection Device is a sterile, plastic culture dish with three microdots of hyaluronan hydrogel attached to the bottom interior of the dish. It also has three locating lines embossed on the bottom exterior of the dish to aid the operator to find the microdots. Mature human sperm attach themselves to the hyaluronan through specific receptors found on the sperm plasma membrane. Hyaluronan-bound sperm exhibit no progressive movement, although their tails beat and they are capable of motility. Hyaluronan-bound sperm are easily selected and removed from the hyaluronan by micropipet for use in intracytoplasmic sperm injection (ICSI).



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