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The Cryotec Method yields 100% post-thaw survival rate, high clinical pregnancy and implantation rates in euploid blastocysts

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Introduction:

We had earlier reported our initial experience using Cryotec Vitrification and Warming Method on day 3 embryos (n=5, 2 patients) and day 5/6 blastocysts (n=28, 15 patients), achieving 100% post-thaw survival rate (Lee et al, 2014). We continued using Cryotec and now report our retrospective study on all cases done since the commencement of the use of Cryotec Method in Alpha Fertility Centre in July 2013.

Methods:

This study was performed between July 2013 and December 2015. Two hundred and six (206) euploid blastocysts from 154 patients were frozen on Day 5 or 6 using Cryotech Vitrification Media and were thawed using Cryotech Warming Media. Freezing and thawing of embryos were done by Embryologists who were certified by Cryotech, Japan. The mean age of the patients was 32.1 (range: 21 to 43 years old). The mean number of embryos transferred was 1.3.

Results:

All 206 euploid blastocysts survived with morphologically intact inner cell mass and trophectoderm cells, enabling transfer in all cases. In all 206 blastocysts, there were no deterioration in grade. The **clinical pregnancy rate** per embryo transfer was **62.3%**. **Implantation rate** was **55.8%**. As all thawed cases resulted in embryo transfer, the clinical pregnancy rate and implantation rate per thawed cycle were also 62.3% and 55.8% respectively.

Conclusion:

This study shows that by using the Cryotec Method, we consistently achieved 100% post-thaw survival rates of embryos with intact inner cell mass and trophectoderm. All thawed euploid blastocysts were suitable for transfer, resulting in high clinical pregnancy and implantation rates.