

A COMPARISON OF THE SURVIVAL, PREGNANCY AND IMPLANTATION RATES BETWEEN DAY 3 CLEAVAGE STAGE AND DAY 5 BLASTOCYST VITRIFIED EMBRYOS

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Abstract Body

Aim: This is a retrospective study to compare the survival, pregnancy and implantation rates of embryos vitrified at different stages in our Centre.

Methods: 143 female patients aged between 28 to 44 years old who underwent frozen-thawed cycles from Jan'2014 to Nov'2016 were analyzed. A total of 103 patients underwent day 3 frozen-thawed cycle and 40 patients underwent day 5 frozen-thawed cycles.

Results: 243 day 3 vitrified frozen-thawed embryos were thawed, of which 232 embryos survived. 80 day 5 vitrified frozen-thawed blastocysts were thawed, 75 survived. The survival rate was not significantly different, 95.5% vs 93.8%; $P=0.75$. Clinical pregnancy rate per cycle transfer was also not significantly different, 35% (36/103) for day 3, 35% (14/40) for day 5; $P=0.85$. There was also no significant difference in terms of implantation rate per cycle for both day 3 and day 5 frozen-thawed cycles, 33.1% (34/103) vs 27.5% (11/40); $P=0.66$.

Conclusion: The data showed that vitrification on either day 3 or day 5 is feasible as they give similar survival rate and clinical outcomes.