

Table and Figure Titles and Captions:

Table 1: Cycle Characteristics Per Transfer

Supplemental Table 1: Multivariate Generalized Estimating Equation Analysis of Transferred Blastocyst to Live Birth Efficiency

β values indicate the estimated coefficient of each independent factor as associated with embryo to live birth efficiency, after adjusting for the other variables in the model. Positive β values indicate a positive correlation with embryo to live birth efficiency.

Figure 1: Pregnancy Outcomes Single vs. Double Frozen Blastocyst Transfer (FBT)*

Figure 2: Incidence and Severity of Prematurity, Single vs. Double Frozen Blastocyst Transfer (FBT)

Mean gestational age at birth was 38w5d \pm 13d in the single embryo group vs. 37w5d \pm 21d with double transfer ($p < 0.0001$). The difference was attributable to increased twin delivery in the double embryo transfer group.

Supplemental Table 1:

Variable	β (95% Confidence Interval)	P-value
Blastocysts Transferred (1 vs 2)	4.56 (0.33, 8.79)	0.034
Patient Age at Vitrification	-1.25 (-3.78, 1.28)	0.33
Patient Age at Warming/Transfer	-0.08 (-2.61, 2.44)	0.95
Body Mass Index (BMI)	-0.55 (-0.93, -0.16)	0.005
Uterine Factor (yes vs no)	-4.91 (-16.03, 6.22)	0.39
PCOS (yes vs no)	1.22 (-4.41, 6.84)	0.67
Prior Parity	-4.16 (-7.65, -0.66)	0.020
Prior Transfers w/o Birth	-1.65 (-3.45, 0.16)	0.074
Live Birth in Fresh Transfer (yes vs no)	9.12 (0.78, 17.47)	0.032
Vitrify-All (yes vs no)	1.27 (-7.87, 10.41)	0.78
PGD/PGS (yes vs no)	-1.81 (-11.85, 8.23)	0.72
Number of Vitrified Embryos	0.07 (-0.85, 1.00)	0.88
Mean Day of Vitrification	-11.70 (-17.03, -6.38)	<0.0001
Embryo Survival (%)	0.09 (-0.05, 0.24)	0.21
Intact Cells (%)	1.21 (0.80, 1.63)	<0.0001