

Supplementary Table S1. Association between different low-grade blastocysts and reproductive outcomes.

Outcomes	Good-grade (N = 4386)	AC (N = 27)	CA (N = 12)	BC (N = 1972)	CB (N = 715)	CC (N = 117)
Live birth	1946 (44.4%)	9 (33.3%)	4 (33.3%)	653 (33.1%)	176 (24.6%)	16 (13.7%)
Crude OR	Reference	/	/	0.62 (0.56–0.69)	0.41 (0.34–0.49)	0.20 (0.12–0.34)
Adjusted OR	Reference	/	/	0.53 (0.46–0.63)*	0.35 (0.28–0.43)*	0.30 (0.18–0.52)*
Clinical pregnancy	2268 (51.7%)	9 (33.3%)	4 (33.3%)	866 (43.9%)	251 (35.1%)	19 (16.2%)
Crude OR	Reference	/	/	0.73 (0.66–0.81)	0.51 (0.43–0.60)	0.18 (0.11–0.30)
Adjusted OR	Reference	/	/	0.54 (0.46–0.63)*	0.37 (0.30–0.45)*	0.32 (0.19–0.53)*
Multiple birth	19 (0.4%)	0	0	14 (0.7%)	1 (0.1%)	0
Crude OR	Reference	/	/	1.64 (0.82–3.28)	0.32 (0.04–2.41)	/
Adjusted OR	Reference	/	/	1.49 (0.59–3.72)*	0.36 (0.04–3.16)*	/
Pregnancy loss	322 (7.3%)	0	0	213 (10.8%)	75 (10.5%)	3 (2.6%)
Crude OR	Reference	/	/	1.53 (1.27–1.84)	1.48 (1.14–1.93)	0.33 (0.10–1.05)
Adjusted OR	Reference	/	/	1.01 (0.78–1.30)*	0.99 (0.71–1.37)*	0.69 (0.21–2.23)*

We did not perform regression analysis for AC or CA group due to small numbers.

* Adjusted for institute, female age, fresh/frozen transfer, blastocyst developmental stage, blastocyst age.

OR, odds ratio. Results in bold are $P < 0.05$. Crude OR is calculated without any confounders. Bold values refer to statistically significant results.