**Table S1** Ongoing pregnancy rate (OPR) outcomes accordingly to blastocyst’s quality

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Day 5 (*N* = 855) | Day 6 (N = 636) | Day 7 (N = 36) | *P-*value |
| Good quality (BL3–BL6 AA/AB/BA) | 189/303 (62.4%) | 99/173 (57.2%) | 2/2 (100.0%) | 0.357 |
| Fair quality (BL3–BL6 BB) | 254/445 (57.1%) | 124/245 (50.6%) | 0/4 (0.0%) | 0.018 |
| Poor quality (BL3–BL6 AC/BC/CC/CA/CB) | 36/107 (33.6%) | 65/218 (29.8%) | 2/30 (6.7%) | 0.008 |

OPR outcomes are calculated as total number of successful outcomes out of total FETs performed accordingly to the blastocyst’s quality per group (days 5, 6 and 7 of blastocyst biopsy). Blastocysts were classified as good quality (BL3–BL6, AA/AB/BA), fair quality (BL3–BL6, BB) or poor quality (BL3–BL6, AC/BC/CC/CA/CB) according to the grade of expansion, inner cell mass (ICM) and trophectoderm (TE) quality, respectively. Values are expressed as percentage (%).

**Table S2** Determination of risk factors associated with day 7 blastocysts frozen embryo transfer (FET) cycles

|  |  |  |  |
| --- | --- | --- | --- |
| Risk factors | OR | [95% CI] | *P-*value |
| Female age (years old) | 1.08 | 1.01–1.16 | 0.024 |
| Male age (years old) | 1.05 | 1.01–1.10 | 0.016 |
| AMH (mg/ml) | 0.78 | 0.62–0.97 | 0.027 |
| BMI (kg/m2) | 1.05 | 0.98–1.12 | 0.188 |
| Type of infertility | *Ref*. |  |  |
| Primary  Secondary | 1.18 | 0.56–2.46 | 0.661 |

Univariate model for OPR outcomes considering the risk factors of having a day 7 euploid blastocyst FET cycle. AMH: anti-Müllerian hormone; BMI: body mass index; CI: confidence interval; OR: odds ratio.