**Table S1** Spearman correlation between fertilization rate and baseline characteristics, and AE result

|  |  |  |
| --- | --- | --- |
| **Variables** | **Fertilization rate** | |
|  | **R** | ***P*** |
| Female age (years) | 0.070 | 0.059 |
| Male age (years) | 0.052 | 0.159 |
| MII oocytes (n) | 0.054 | 0.146 |
| Abstinence days (n) | -0.010 | 0.778 |
| Semen volume (mL) | 0.016 | 0.659 |
| Concentration (× 106/mL) | 0.035 | 0.349 |
| Motility (%) | 0.046 | 0.212 |
| Forward progression motility (%) | 0.119 | 0.001 |
| Percentage of normal morphology (%) | 0.069 | 0.062 |
| Infertility duration (years) | 0.054 | 0.141 |
| AE levels (μIU/106 sperm) | 0.075 | 0.042 |

*AE* acrosomal enzyme, *MII* meta-phase II