Table S1 Results of multiple linear regression analysis with fertilization rate as a dependent variable

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| --- | --- |
|  Parameters | Fertilization rate (%) |
| Unstandardized B | Coefficients standard error | Standardized coefficients beta | *P*-value |
| Age (years) (women) | 1.17 | 0.739 | 0.183 | 0.118 |
| Age (years) (men) | −1.088 | 0.439 | −0.309 | 0.016 |
| BMI (kg/m2) (men) | 0.394 | 0.541 | 0.083 | 0.469 |
| Number of previous attempts | 1.847 | 2.854 | 0.081 | 0.520 |
| Sperm concentration (×106/ml) | −0.361 | 0.169 | −0.354 | 0.037 |
| Progressive motility (%) | 0.413 | 0.204 | 0.339 | 0.047 |
| Non-progressive motility (%) | −0.154 | 0.382 | −0.052 | 0.68 |
| Non-motile (%) | 7.741 | 4.844 | 8.52 | 0.103 |
| Number of collected eggs | 0.652 | 0.422 | 0.348 | 0.729 |
| Allelic variants combinations between 307 and 680 codons | −0.157 | 0.382 | −0.052 | 0.776 |
| Gene polymorphism at codon 307 | −12.04 | 4.658 | −0.379 | 0.012 |
| Gene polymorphism of codon 680 | 0.864 | 3.643 | 0.028 | 0.813 |

Table S2 Reporting the study according to STROBE recommendations

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|  | Item no. | Recommendation | Pages in the manuscript |
| Title and abstract | 1 | (a) Indicate the study’s design with a commonly used term in the title or the abstract | 1 |
|  |  | (b) Provide in the abstract an informative and balanced summary of what was done and what was found | 2  |
| Introduction |  |  |  |
| Background/rationale | 2 | Explain the scientific background and rationale for the investigation being reported | 3 4 |
| Objectives | 3 | State specific objectives, including any prespecified hypotheses | 5 |
| Methods |  |  |  |
| Study design | 4 | Present key elements of study design early in the paper | 5 first paragraph in the study design |
| Setting | 5 | Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection | 5 |
| Participants | 6 | (a) Cohort study—Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up case–control study—Give the eligibility criteria, and the sources and methods of case ascertainment and control selection. Give the rationale for the choice of cases and controls. Cross-sectional study—Give the eligibility criteria, and the sources and methods of selection of participants | 5 |
|  |  | (b) Cohort study—For matched studies, give matching criteria and number of exposed and unexposed. Case–control study—For matched studies, give matching criteria and the number of controls per case |  |
| Variables | 7 | Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable | 7, 8, 9 |
| Data sources/ measurement | 8\* | For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe comparability of assessment methods if there is more than one group | 7, 8, 9 |
| Bias | 9 | Describe any efforts to address potential sources of bias | 7, 8, 9 |