|  |  |  |  |
| --- | --- | --- | --- |
| **Candidate covariates initially included and excluded in this study** | | | |
| **Domain** | **Variable** | **Missingness (Percent)** | **Included/Excluded** |
| Demographics | Age | 0 | Included |
| Vitals | Diastolic blood pressures | 1% | Included |
| Vitals | Systolic blood pressure | 1% | Included |
| Vitals | Weight | <1% | Included |
| Vitals | Body mass index | <1% | Excluded, correlated with weight |
| Ultrasound | Basal antral follicle count | 6% | Included |
| Social history | Education level | <1% | Included |
| Social history | Season when oocyte retrieval was finished | 0 | Included |
| Social history | Smoker | 1% | Excluded due to large imbalance |
| OS strategy | Follicle-stimulating hormone starting dose | <1% | Included |
| OS strategy | Using recombinant or urinary follicle-stimulating hormone | <1% | Included |
| OS strategy | Exogenous luteinizing hormone supplementation | <1% | Included |
| OS strategy | Ovarian stimulating protocol | 0 | Included |
| Laboratory | Fasting plasma glucose | 52% | Excluded due to missingness |
| Laboratory | Low density lipoprotein cholesterol | 51% | Excluded due to missingness |
| Laboratory | High density lipoprotein cholesterol | 51% | Excluded due to missingness |
| Laboratory | Triglyceride | 51% | Excluded due to missingness |
| Laboratory | Total cholesterol | 51% | Excluded due to missingness |
| Laboratory | Fasting insulin level | 50% | Excluded due to missingness |
| Laboratory | Basal prolactin | 31% | Excluded due to missingness |
| Laboratory | Basal androstenedione | 30% | Excluded due to missingness |
| Laboratory | Cancer antigen 125 | 24% | Excluded due to missingness |
| Laboratory | Homocysteine | 23% | Excluded due to missingness |
| Laboratory | Serum urea nitrogen | 20% | Excluded due to missingness |
| Laboratory | Anti-Müllerian hormone | 15% | Included |
| Laboratory | Basal progesterone | 8% | Included |
| Laboratory | Basal estradiol | 7% | Included |
| Laboratory | Basal FSH | 4% | Included |
| Laboratory | Basal luteinizing hormone | 4% | Included |
| Laboratory | Red blood cell count | 3% | Included |
| Laboratory | White blood cell count | 3% | Included |
| Laboratory | PCR detection of *Neisseria gonorrhoeae* | 2% | Excluded due to large imbalance |
| Laboratory | Hematocrit | 2% | Included |
| Laboratory | PCR detection of *Chlamydia trachomatis* | 2% | Included |
| Laboratory | PCR detection of *Ureaplasma urealyticum and Mycoplasma hominis* | 1% | Excluded due to large imbalance |
| Laboratory | Serum creatinine | 1% | Included |
| Laboratory | Prothrombin time | 1% | Included |
| Laboratory | Activated partial thromboplastin time | 1% | Included |
| Laboratory | ABO blood type | <1% | Included |
| Laboratory | Albumin | <1% | Included |
| Laboratory | Aspartate aminotransferase | <1% | Included |
| Laboratory | Serum total protein | <1% | Included |
| Laboratory | Rhesus Macacus blood type | <1% | Excluded due to large imbalance |
| Laboratory | Alanine aminotransferase | <1% | Included |
| Laboratory | Platelet count | <1% | Included |
| Laboratory | Hemoglobin | <1% | Included |
| Clinical history | Duration of infertility | 5% | Included |
| Clinical history | Frequency of menstrual cycles | 1% | Included |
| Clinical history | Age at menarche | 1% | Included |
| Clinical history | Abnormal reproductive history | <1% | Included |
| Clinical history | Regularity of menstrual cycles | <1% | Included |
| Clinical history | Primary/Secondary infertility | <1% | Included |
| Clinical history | Allergy history | <1% | Included |
| Clinical history | Penicillin allergic | <1% | Excluded due to large imbalance |
| Clinical history | Cephalosporin allergic | <1% | Excluded due to large imbalance |
| Clinical history | Maternal history | <1% | Included |
| Clinical history | Paternal history | <1% | Included |
| Clinical history | Menstrual bleeding volume | <1% | Included |
| Clinical history | Times of abortion | <1% | Included |
| Clinical history | Times of gravidity | <1% | Included |
| Clinical history | Dysmenorrhea | 0 | Included |
| Clinical history | Parity | 0 | Included |
| Clinical history | Risk factors for poor ovarian response | 0 | Included |
| Clinical history | Polycystic ovarian syndrome | 0 | Included |
| Clinical history | Tubal factor for infertility | 0 | Included |
| Clinical history | Endometriosis | 0 | Included |
| Clinical history | Unexplained factor for infertility | 0 | Included |
| Clinical history | Pelvic inflammatory disease | 0 | Included |
| Clinical history | Premature Ovarian Insufficiency or diminished ovarian reserve | 0 | Included |
| Clinical history | Hypothyroidism | 0 | Included |
| Clinical history | Male factor for infertility | 0 | Included |
| Clinical history | Genetic factor | 0 | Included |
| Clinical history | Recurrent miscarriage | 0 | Included |
| PCR, polymerase chain reaction. | | | |