|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Distribution of variables with missing data comparing observed complete data from the derivation cohort with the combined imputed data (training plus testing) for predicting POR and for predicting HOR** | | | | |
|  | **Number (%) with missing data** | **Complete case (original cohort)** | **Combined imputed data (POR)** | **Combined imputed data (HOR)** |
| AMH, ng/mL | 1830 (15.2) | 2.82 (1.48, 4.71) | 2.89 (1.54, 4.83) | 2.91 (1.55, 4.86) |
| Basal progesterone, ng/mL | 1010 (8.4) | 1.12 (0.79, 1.53) | 1.13 (0.80, 1.54) | 1.13 (0.80, 1.54) |
| Basal estradiol, ng/mL | 852 (7.1) | 112.3 (79.0, 150.6) | 112.7 (79.2, 151.1) | 112.7 (79.5, 151.1) |
| Basal AFC, n | 722 (6.0) | 10 (6, 15) | 10 (6, 15) | 10 (6, 15) |
| Duration of infertility, y | 637 (5.3) | 3 (2, 4) | 3 (2, 4) | 3 (2, 4) |
| Basal FSH, IU/L | 539 (4.5) | 6.5 (5.5, 7.9) | 6.5 (5.5, 7.9) | 6.5 (5.5, 7.9) |
| Basal LH, IU/L | 533 (4.4) | 4.9 (3.6, 6.6) | 4.9 (3.6, 6.6) | 4.9 (3.6, 6.6) |
| RBC, 1012/L | 329 (2.7) | 4.4 (4.2, 4.6) | 4.4 (4.2, 4.6) | 4.4 (4.2, 4.6) |
| WBC, 109/L | 324 (2.7) | 6.6 (5.4, 8.0) | 6.6 (5.4, 8.0) | 6.6 (5.4, 8.0) |
| Hematocrit, proportion of 1.0 | 287 (2.4) | 0.39 (0.37, 0.41) | 0.39 (0.37, 0.41) | 0.39 (0.37, 0.41) |
| PCR detection of Chlamydia trachomatis, n (%) | 200 (1.7) |  |  |  |
| Yes |  | 196 (1.7%) | 201 (1.7%) | 198 (1.6%) |
| No |  | 11616 (98.3%) | 11811 (98.3%) | 11814 (98.4%) |
| Frequency of menstrual cycles, n (%) | 169 (1.4) |  |  |  |
| Normal |  | 9237 (78.0%) | 9326 (77.6%) | 9318 (77.6%) |
| Less |  | 2554 (21.6%) | 2632 (21.9%) | 2637 (22.0%) |
| More |  | 52 (0.4%) | 54 (0.4%) | 57 (0.5%) |
| DBP, mmHg | 151 (1.3) | 71 (66, 78) | 71 (66, 78) | 71 (66, 78) |
| SBP, mmHg | 146 (1.2) | 115 (109, 120) | 115 (109, 120) | 115 (109, 120) |
| Serum creatinine, μmol/L | 145 (1.2) | 59.5 (53.2, 65.9) | 59.5 (53.2, 65.9) | 59.5 (53.2, 65.9) |
| Prothrombin time, s | 140 (1.2) | 13.0 (12.6, 13.4) | 13.0 (12.6, 13.4) | 13.0 (12.6, 13.4) |
| Activated partial thromboplastin time, s | 137 (1.1) | 35.1 (33.0, 37.3) | 35.1 (33.0, 37.4) | 35.1 (33.0, 37.3) |
| Age at menarche, y | 136 (1.1) | 14 (13, 14) | 14 (13, 14) | 14 (13, 14) |
| ABO blood type, n (%) | 116(1.0) |  |  |  |
| A |  | 3689 (31.0%) | 3728 (31.0%) | 3724 (31.0%) |
| B |  | 3133 (26.3%) | 3163 (26.3%) | 3166 (26.4%) |
| O |  | 4017 (33.8%) | 4056 (33.8%) | 4054 (33.7%) |
| AB |  | 1057 (8.9%) | 1065 (8.9%) | 1068 (8.9%) |
| Albumin | 113 (0.9) | 43.7 (41.9, 45.5) | 43.7 (41.9, 45.5) | 43.7 (41.9, 45.5) |
| AST, U/L | 95 (0.8) | 18.0 (16.0, 21.0) | 18.0 (16.0, 21.0) | 18.0 (16.0, 21.0) |
| Serum total protein, g/L | 93 (0.8) | 72.1 (68.9, 75.1) | 72.1 (68.9, 75.1) | 72.1 (68.9, 75.1) |
| Abnormal reproductive history, n (%) | 92 (0.8) |  |  |  |
| Yes |  | 3806 (31.9%) | 3812 (31.7%) | 3811 (31.7%) |
| No |  | 8114 (68.1%) | 8200 (68.3%) | 8201 (68.3%) |
| Regularity of menstrual cycles, n (%) | 79 (0.7) |  |  |  |
| Regular |  | 9720 (81.5%) | 9783 (81.4%) | 9787 (81.5%) |
| Irregular |  | 2213 (18.5%) | 2229 (18.6%) | 2225 (18.5%) |
| ALT, U/L | 69 (0.6) | 15 (11, 21) | 15 (11, 21) | 15 (11, 21) |
| Platelet, 109/L | 61 (0.5) | 233 (198, 273) | 233 (198, 273) | 233 (198, 273) |
| Hemoglobin, g/L | 59 (0.5) | 130 (124, 136) | 130 (124, 136) | 130 (124, 136) |
| Education level, n (%) | 17 (0.1) |  |  |  |
| Primary or below |  | 465 (3.9%) | 466 (3.9%) | 465 (3.9%) |
| Junior |  | 4094 (34.1%) | 4102 (34.1%) | 4098 (34.1%) |
| High |  | 3446 (28.7%) | 3449 (28.7%) | 3451 (28.7%) |
| Bachelor |  | 3392 (28.3%) | 3396 (28.3%) | 3400 (28.3%) |
| Master or above |  | 598 (5.0%) | 599 (5.0%) | 598 (5.0%) |
| Primary/Secondary infertility, n (%) | 11 (0.1) |  |  |  |
| Primary |  | 5894 (49.1%) | 5905 (49.2%) | 5905 (49.2%) |
| Secondary |  | 6107 (50.9%) | 6107 (50.8%) | 6107 (50.8%) |
| SBP, systolic pressure; AST, Aspartate aminotransferase | | | | |