A comparison of the distributions of variables included in the multiple imputation models by completeness of data for grip strength analyses within the UKB.

|  | | **Mean (SD) or N (%)** | |  |
| --- | --- | --- | --- | --- |
| **Characteristic** | **Total N** | **No missing data**, N = 3904871 | **Missing data**, N = 1073001 | **p-val**2 |
| **Highest educational qualification** | 489,912 |  |  | <0.001 |
| *Degree & higher* |  | 132,261 (34) | 28,130 (28) |  |
| *A-levels, professional, or equiv.* |  | 91,712 (23) | 21,573 (22) |  |
| *O-levels, CSEs, or equiv.* |  | 107,621 (28) | 23,913 (24) |  |
| *No qualification* |  | 58,893 (15) | 25,809 (26) |  |
| **IMD (quantiles)** | 485,191 |  |  | <0.001 |
| *1 (most affluent)* |  | 81,914 (21) | 15,637 (17) |  |
| *2* |  | 79,511 (20) | 17,768 (19) |  |
| *3* |  | 78,609 (20) | 18,433 (19) |  |
| *4* |  | 76,837 (20) | 20,058 (21) |  |
| *5 (least affluent)* |  | 73,616 (19) | 22,808 (24) |  |
| **Occupational class (NS-SEC)** | 497,787 |  |  | <0.001 |
| *Managerial/professional occupations* |  | 138,262 (35) | 37,130 (35) |  |
| *Intermediate occupations* |  | 44,640 (11) | 14,636 (14) |  |
| *Small employers & owner account workers* |  | 13,078 (3.3) | 3,791 (3.5) |  |
| *Lower supervisory & technical occupations* |  | 10,289 (2.6) | 3,274 (3.1) |  |
| *Semi-routine/routine occupations* |  | 40,735 (10) | 16,784 (16) |  |
| *Never worked/unemployed* |  | 143,483 (37) | 31,685 (30) |  |
| **Smoking status** | 495,892 |  |  | <0.001 |
| *Never* |  | 215,554 (55) | 56,063 (53) |  |
| *Previous* |  | 134,362 (34) | 37,514 (36) |  |
| *Current* |  | 40,571 (10) | 11,828 (11) |  |
| **Sedentariness** | 486,541 |  |  | <0.001 |
| *Mean (SD)* |  | 4 (2.1) | 4 (2.3) |  |
| **Vigorous physical activity (10min+)** | 471,632 |  |  | <0.001 |
| *None* |  | 145,210 (37) | 31,695 (39) |  |
| *1 day a week* |  | 55,662 (14) | 10,776 (13) |  |
| *2 days a week* |  | 61,922 (16) | 12,635 (16) |  |
| *3 days a week* |  | 53,914 (14) | 10,962 (14) |  |
| *4+ days a week* |  | 73,779 (19) | 15,077 (19) |  |
| **Co-morbidity** | 481,879 |  |  | <0.001 |
| *No condition* |  | 195,590 (50) | 37,009 (40) |  |
| *1 condition* |  | 119,460 (31) | 29,470 (32) |  |
| *2 conditions* |  | 55,619 (14) | 17,197 (19) |  |
| *3+ conditions* |  | 19,818 (5.1) | 7,716 (8.4) |  |
| **Occupational activity** | 459,545 |  |  | <0.001 |
| *No manual, No standing/walking* |  | 88,958 (23) | 11,239 (16) |  |
| *No manual, Some standing/walking* |  | 55,148 (14) | 7,313 (11) |  |
| *No manual, Mostly standing/walking* |  | 23,191 (5.9) | 3,794 (5.5) |  |
| *Some manual, Some standing/walking* |  | 18,771 (4.8) | 3,056 (4.4) |  |
| *Some manual, Mostly standing/walking* |  | 29,550 (7.6) | 5,461 (7.9) |  |
| *Mostly manual, Mostly standing/walking* |  | 31,386 (8.0) | 6,510 (9.4) |  |
| *Never worked/unemployed* |  | 143,483 (37) | 31,685 (46) |  |
| **Height (cm)** | 497,042 |  |  | <0.001 |
| *Mean (SD)* |  | 169 (9.3) | 167 (9.3) |  |
| **Waist circumference (cm)** | 497,409 |  |  | <0.001 |
| *Mean (SD)* |  | 90 (13.4) | 91 (13.8) |  |
| **Hip circumference (cm** | 497,354 |  |  | <0.001 |
| *Mean (SD)* |  | 103 (9.1) | 104 (9.8) |  |
| **Waist to hip ratio** | 497,308 |  |  | <0.001 |
| *Mean (SD)* |  | 1 (0.1) | 1 (0.1) |  |
| **Body fat percentage (%)** | 489,273 |  |  | <0.001 |
| *Mean (SD)* |  | 31 (8.5) | 32 (8.6) |  |
| 1n (%) | | | | |
| 2Pearson's Chi-squared test; Wilcoxon rank sum test | | | | |