**Online-only Supplementary**

Table S-1: Characteristics of participants by ethnic group

|  |  |  |  |
| --- | --- | --- | --- |
| **Socio-demographic factors** | **Chinese** | **Malay** | **Indian** |
| **Normotensive** | **Hypertensive** | **p-value** | **Normotensive** | **Hypertensive** | **p-value** | **Normotensive** | **Hypertensive** | **p-value** |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Age (years), mean (SD)** | 42.2 | (11.3)  | 54.7 | (11.4)  | <0.001 | 40.1  | (11.1)  | 53.0  |  (10.9) | <0.001 | 41.2  |  (11.2) | 53.8  | (11.1)  | <0.001 |
| **Gender, n (%)** |  |  |  |  | <0.001 |  |  |  |  | 0.181 |  |  |  |  | 0.004 |
|  | Female | 1,921 | (72.4) | 734 | (27.6) |  | 1,031 | (65.9) | 533 | (34.1) |  | 1,161 | (73.7) | 415 | (26.3) |  |
|  | Male | 1,377 | (63.7) | 785 | (36.3) |  | 749 | (68.4) | 346 | (31.6) |  | 797 | (68.6) | 365 | (31.4) |  |
| **Blood pressure (mm Hg), mean (SD)** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Systolic BP, mean (SD) | 116.74  | (11.97) | 149.09  | (16.80) | <0.001 | 118.03  | (12.02) | 150.04  | (17.33) | <0.001 | 114.49  | (12.91) | 147.24  | (18.70) | <0.001 |
|  | Diastolic BP, mean (SD) | 70.40  | (8.48) | 84.40  | (10.57) | <0.001 |  69.78  | (8.33) | 83.32  | (11.07) | <0.001 | 69.14  | (8.64) | 82.18  | (11.40) | <0.001 |
| **Highest education level, n (%)** |  |  |  |  | <0.001 |  |  |  |  | <0.001 |  |  |  |  | <0.001 |
|  | Primary or lower | 499 | (46.5) | 573 | (53.5) |  | 419 | (51.2) | 400 | (48.8) |  | 511 | (58.6) | 361 | (41.4) |  |
|  | Secondary | 1,228 | (68.6) | 561 | (31.4) |  | 1,027 | (71.8) | 404 | (28.2) |  | 820 | (72.8) | 306 | (27.2) |  |
|  | Tertiary or higher | 1,569 | (80.3) | 385 | (19.7) |  | 332 | (81.6) | 75 | (18.4) |  | 626 | (84.7) | 113 | (15.3) |  |
| **Marital status, n (%)** |  |  |  |  | <0.001 |  |  |  |  | 0.001 |  |  |  |  | 0.832 |
|  | Currently married | 2,366 | (65.6) | 1,242 | (34.4) |  | 1,359 | (65.3) | 721 | (34.7) |  | 1,477 | (71.4) | 592 | (28.6) |  |
|  | Not married/divorced/separated | 930 | (77.1) | 277 | (22.9) |  | 420 | (72.7) | 158 | (27.3) |  | 479 | (71.8) | 188 | (28.2) |  |
| **Work status, n (%)** |  |  |  |  | <0.001 |  |  |  |  | <0.001 |  |  |  |  | <0.001 |
|  | Working/Studying full-time | 2,642 | (74.2) | 919 | (25.8) |  | 1,209 | (74.3) | 419 | (25.7) |  | 1,355 | (76.0) | 428 | (24.0) |  |
|  | Homemaker | 475 | (59.7) | 321 | (40.3) |  | 467 | (58.1) | 337 | (41.9) |  | 436 | (65.7) | 228 | (34.3) |  |
|  | Retired/Unemployed | 162 | (37.4) | 271 | (62.6) |  | 99 | (45.6) | 118 | (54.4) |  | 158 | (56.4) | 122 | (43.6) |  |
| **Monthly household income (SGD)^, n (%)** |  |  |  |  | <0.001 |  |  |  |  | <0.001 |  |  |  |  | <0.001 |
|  | <2,000 | 379 | (57.7) | 278 | (42.3) |  | 543 | (67.8) | 258 | (32.2) |  | 555 | (67.8) | 264 | (32.2) |  |
|  | 2,000-3,999 | 713 | (73.3) | 260 | (26.7) |  | 563 | (70.9) | 231 | (29.1) |  | 603 | (70.8) | 249 | (29.2) |  |
|  | 4,000-5,999 | 554 | (75.2) | 183 | (24.8) |  | 317 | (70.8) | 131 | (29.2) |  | 382 | (79.7) | 97 | (20.3) |  |
|  | ≥6,000 | 707 | (75.2) | 233 | (24.8) |  | 162 | (78.6) | 44 | (21.4) |  | 244 | (77.2) | 72 | (22.8) |  |
| *n refers to number, SD refers to standard deviation^Of all participants, 21.5% did not provide information on their averaged monthly household income. They have been categorized as ‘unknown income’ and included for analysis;For categorical variables, we reported the counts and percentages, and used the chi-square test to assess association between each categorical variable and hypertension status. For continuous variables, we reported the mean and standard deviation and used the 2-sample independent t-test to assess association between the continuous variable and hypertension status.* |