**Supplementary Table 1.** Baseline (1990-1992) participant characteristics by quartile of global cognition z-score

|  |  |
| --- | --- |
| Characteristic | Global cognition z-score (N=11675) |
| Q1 | Q2 | Q3 | Q4 | P |
| (N=2920) | (N=2916) | (N=2919) | (N=2920) |
| **Demographic Variables** |  |  |  |  |  |
|  | Age, years |  58.8 ± 5.59  |  57.4 ± 5.67  |  56.8 ± 5.64  |  55.3 ± 5.40  |  <0.001  |
|  | Male sex |  1291 (44.2)  |  1457 (50.0)  |  1683 (57.7)  |  1947 (66.7)  |  <0.001  |
|  | Americans |  1571 (53.8)  |  2373 (81.4)  |  2553 (87.5)  |  2726 (93.4)  |  <0.001  |
|  | Education |  |  |  |  |  <0.001  |
|  |  Less than high school |  1447 (49.6)  |  569 (19.5)  |  257 (8.80)  |  94 (3.22)  |  |
|  |  High school |  773 (26.5)  |  1061 (36.4)  |  1014 (34.7)  |  842 (28.8)  |  |
|  |  College |  700 (24.0)  |  1286 (44.1)  |  1648 (56.5)  |  1984 (67.9)  |  |
|  | Income, US$ |  |  |  |  |  <0.001  |
|  |  <16 000 |  1240 (42.5)  |  536 (18.4)  |  304 (10.4)  |  172 (5.89)  |  |
|  |  16 000-35 000 |  1057 (36.2)  |  1084 (37.2)  |  1024 (35.1)  |  762 (26.1)  |  |
|  |  >35 000 |  623 (21.3)  |  1296 (44.4)  |  1591 (54.5)  |  1986 (68.0)  |  |
|  | Smoking |  |  |  |  |  <0.001  |
|  |  Never |  1046 (35.8)  |  1144 (39.2)  |  1197 (41.0)  |  1243 (42.6)  |  |
|  |  Former |  1063 (36.4)  |  1085 (37.2)  |  1120 (38.4)  |  1182 (40.5)  |  |
|  |  Current |  811 (27.8)  |  687 (23.6)  |  602 (20.6)  |  495 (17.0)  |  |
|  | Drinking |  |  |  |  |  <0.001  |
|  |  Never |  824 (28.2)  |  694 (23.8)  |  552 (18.9)  |  464 (15.9)  |  |
|  |  Former |  908 (31.1)  |  592 (20.3)  |  473 (16.2)  |  375 (12.8)  |  |
|  |  Current |  1188 (40.7)  |  1630 (55.9)  |  1894 (64.9)  |  2081 (71.3)  |  |
| **Physiological and Lab Variables** |  |  |  |  |
|  | Body mass index, kg/m2 |  28.9 ± 5.62  |  28.0 ± 5.29  |  27.6 ± 5.07  |  27.0 ± 5.07  |  <0.001  |
|  | SBP, mmHg |  123 (112, 137)  |  118 (108, 130)  |  118 (108, 131)  |  115 (106, 127)  |  <0.001  |
|  | DBP, mmHg |  73.0 (66.0, 80.0)  |  71.0 (65.0, 78.0)  | 71.0 (65.0, 78.0)  | 71.0 (65.0, 78.0) |  <0.001  |
|  | Heart rate, /min |  65.0 (58.0, 73.0)  |  65.0 (59.0, 72.0)  | 64.0 (59.0, 71.0)  | 64.0 (59.0, 71.0) |  0.023  |
|  | Total cholesterol, mmol/l |  5.44 ± 1.04  |  5.39 ± 1.02  |  5.42 ± 1.00  |  5.40 ± 0.95  |  0.220  |
|  | HDL, mmol/l |  1.23 ± 0.42  |  1.23 ± 0.41  |  1.29 ± 0.42  |  1.36 ± 0.45  |  <0.001  |
|  | LDL, mmol/l |  3.52 ± 0.98  |  3.46 ± 0.97  |  3.46 ± 0.93  |  3.38 ± 0.92  |  <0.001  |
|  | Triglycerides, mmol/l |  1.49 ± 0.78  |  1.51 ± 0.75  |  1.47 ± 0.72  |  1.41 ± 0.72  |  <0.001  |
|  | Creatinine, mg/dl |  1.20 ± 0.37  |  1.15 ± 0.42  |  1.13 ± 0.20  |  1.11 ± 0.17  |  <0.001  |
|  | Blood glucose, mmol/l |  5.88 (5.44, 6.61)  |  5.72 (5.33, 6.27)  | 5.66 (5.27, 6.16)  | 5.61 (5.22, 6.05) |  <0.001  |
| **Chronic Medical Conditions** |  |  |  |  |
|  | Hypertension |  1160 (39.7)  |  824 (28.3)  |  754 (25.8)  |  585 (20.0)  |  <0.001  |
|  | Diabetes mellitus |  654 (22.4)  |  421 (14.4)  |  334 (11.4)  |  222 (7.60)  |  <0.001  |
|  | COPD |  734 (25.1)  |  701 (24.0)  |  654 (22.4)  |  563 (19.3)  |  <0.001  |

Values are expressed as n (%), mean ± SD, and median (25th, 75th). Global cognition z-score was calculated by computing the mean from the z score versions of the DSST, WFT, and DWRT administered during the visit 2. SBP, systolic blood pressure; DBP, diastolic blood pressure; HDL, high density lipoprotein; LDL, Low density lipoprotein; COPD, chronic obstructive pulmonary disease; DSST, Digit Symbol Substitution Test; WFT, Word Fluency Test; DWRT, Delayed Word Recall Test