**Supplementary Table 2.** Unadjusted and adjusted HRs (95% CI) for the association of baseline (1990-1992) cognition function with presence of atrial fibrillation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Variable | Quartile | Unadjusted | | Adjusted | |
| HR (95% CI) | P | HR (95% CI) | P |
| DWRT score |  |  | <0.001 |  | 0.141 |
|  | Q1 | 1.733 (1.460-2.057) | <0.001 | 1.207 (1.012-1.439) | 0.037 |
|  | Q2 | 1.436 (1.199-1.721) | <0.001 | 1.161 (0.967-1.393) | 0.109 |
|  | Q3 | 1.229 (1.015-1.487) | 0.034 | 1.098 (0.907-1.329) | 0.339 |
|  | Q4 | Reference | - | Reference | - |
| DSST score |  |  | <0.001 |  | 0.011 |
|  | Q1 | 1.810 (1.590-2.061) | <0.001 | 1.316 (1.120-1.546) | 0.001 |
|  | Q2 | 1.681 (1.476-1.914) | <0.001 | 1.159 (1.010-1.330) | 0.036 |
|  | Q3 | 1.400 (1.227-1.598) | <0.001 | 1.124 (0.983-1.285) | 0.088 |
|  | Q4 | Reference | - | Reference | - |
| WFT score |  |  | <0.001 |  | 0.081 |
|  | Q1 | 1.424 (1.257-1.613) | <0.001 | 1.137 (0.991-1.305) | 0.068 |
|  | Q2 | 1.123 (0.986-1.280) | 0.080 | 0.997 (0.873-1.140) | 0.966 |
|  | Q3 | 1.182 (1.040-1.344) | 0.011 | 1.110 (0.976-1.264) | 0.112 |
|  | Q4 | Reference | - | Reference | - |
| Language domain factor score | | | <0.001 |  | 0.029 |
|  | Q1 | 1.441 (1.277-1.625) | <0.001 | 1.148 (1.004-1.311) | 0.043 |
|  | Q2 | 1.098 (0.963-1.251) | 0.164 | 0.968 (0.847-1.107) | 0.636 |
|  | Q3 | 1.185 (1.043-1.345) | 0.009 | 1.099 (0.967-1.248) | 0.150 |
|  | Q4 | Reference | - | Reference | - |
| Memory domain factor score | | | <0.001 |  | 0.049 |
|  | Q1 | 1.547 (1.362-1.759) | <0.001 | 1.105 (0.966-1.263) | 0.146 |
|  | Q2 | 1.331 (1.171-1.513) | <0.001 | 1.132 (0.994-1.288) | 0.061 |
|  | Q3 | 1.028 (0.885-1.195) | 0.716 | 0.961 (0.826-1.117) | 0.602 |
|  | Q4 | Reference | - | Reference | - |
| Executive functioning domain factor score | | | <0.001 |  | 0.002 |
|  | Q1 | 1.796 (1.579-2.042) | <0.001 | 1.365 (1.162-1.604) | <0.001 |
|  | Q2 | 1.667 (1.468-1.893) | <0.001 | 1.170 (1.022-1.339) | 0.023 |
|  | Q3 | 1.366 (1.199-1.556) | <0.001 | 1.116 (0.977-1.274) | 0.105 |
|  | Q4 | Reference | - | Reference | - |

Univariate and multivariate Cox regression analysis between cognition function and presence of atrial fibrillation. Multivariate Cox regression was adjusted by age (<57, ≥57), sex, center-race, education (<high school, high school, or >high school), annual household income (<16 000, 16 000 to 35 000, or >35 000), smoking (never, former, current), drinking (never, former, current), body mass index, systolic blood pressure, heart rate, total cholesterol, triglycerides, high density lipoprotein, hypertension, diabetes, and chronic obstructive pulmonary disease. HR, hazard ratio; CI, confidence interval; DSST, Digit Symbol Substitution Test; WFT, Word Fluency Test; DWRT, Delayed Word Recall Test.