**eFigure 1.** Quantile-Quantile plots

**eTable 1.Univariate logistic regression analyses for relationship between physical exercise and dementia**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **OR** | **LCI** | **UCI** | **p value** |
| Age (years) | 1.0991 | 1.0908 | 1.1074 | <0.0001 |
| Sex (female) | 1.3474 | 1.2129 | 1.4981 | <0.0001 |
| Education (years) | 0.9416 | 0.9312 | 0.9312 | <0.0001 |
| Hypertension (yes) | 1.0032 | 0.9056 | 1.1113 | 0.9520 |
| DM (yes) | 0.9714 | 0.8389 | 1.1203 | 0.6940 |
| CHD (yes) | 1.0553 | 0.9135 | 1.2145 | 0.4590 |
| Stroke (yes) | 1.4401 | 1.2565 | 1.6457 | <0.0001 |
| Smoking (yes) | 1.0876 | 0.9690 | 1.2188 | 0.1510 |
| Drinking (yes) | 1.0027 | 0.8871 | 1.1309 | 0.9660 |
| Physical exercise | 0.4212 | 0.3569 | 0.4994 | <0.0001 |
| Frequency of physical exercise (ref: Never) |  |  |  |
| 1-2 times/week | 0.7336 | 0.5838 | 0.9212 | 0.0077 |
| 3 times/week | 0.5591 | 0.4531 | 0.6906 | <0.0001 |
| 4-5 times/week | 0.3727 | 0.3118 | 0.4470 | <0.0001 |
| ＞5 times/week | 0.3778 | 0.3142 | 0.4556 | <0.0001 |

**Abbreviations:** DM, diabetes mellitus; CHD, coronary heart disease.

**eTable 2. Univariate linear regression analyses for relationship between physical exercise and dementia**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **β** | **LCI** | **UCI** | **p value** |
| Age (years) | 26944  | 23250  | 30638  | <0.0001 |
| Sex (female) | -2476  | -2610  | -2343  | <0.0001 |
| Education (years) | -18882  | -20624  | -17140  | <0.0001 |
| Hypertension (yes) | -1880  | -3631  | -128  | 0.0355 |
| DM (yes) | 507  | -1948  | 2962  | 0.6850 |
| CHD (yes) | -2594  | -5067  | -121  | 0.0398  |
| Stroke (yes) | -7548  | -10088  | -5009  | <0.0001 |
| Smoking (yes) | 2279  | 286  | 4272  | 0.0250  |
| Drinking (yes) | 4878  | 2799  | 6956  | <0.0001  |
| Physical exercise | 26944  | 23250  | 30638  | <0.0001 |
| Frequency of physical exercise (ref: Never) |  |  |  |
| 1-2 times/week | 9259  | 4398  | 14119  | 0.0002  |
| 3 times/week | 18463  | 14093  | 22834  | <0.0001 |
| 4-5 times/week | 26858  | 23063  | 30654  | <0.0001 |
| ＞5 times/week | 33721  | 29856  | 37586  | <0.0001 |

**Abbreviations:** DM, diabetes mellitus; CHD, coronary heart disease.

**eTable 3. Logistic regression analyses for relationship between physical exercise and dementia**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **OR** | **LCI** | **UCI** | **p value** |
| **M1** |  |  |  |  |
| Physical exercise | 0.4212  | 0.3569  | 0.4994  | **<0.0001** |
| Frequency of physical exercise (ref: Never) |
| 1-2 times/week | 0.7336  | 0.5838  | 0.9212  | **0.0077**  |
| 3 times/week | 0.5591  | 0.4531  | 0.6906  | **<0.0001** |
| 4-5 times/week | 0.3727  | 0.3118  | 0.4470  | **<0.0001** |
| ＞5 times/week | 0.3778  | 0.3142  | 0.4556  | **<0.0001** |
| **M2** |  |  |  |  |
| Physical exercise | 0.5379  | 0.4512  | 0.6441  | **<0.0001** |
| Frequency of physical exercise (ref: Never) |
| 1-2 times/week | 0.7927  | 0.6244  | 1.0059  | 0.0561  |
| 3 times/week | 0.6497  | 0.5217  | 0.8099  | **0.0001**  |
| 4-5 times/week | 0.4772  | 0.3956  | 0.5778  | **<0.0001**  |
| ＞5 times/week | 0.5044  | 0.4150  | 0.6150  | **<0.0001** |
| **M3** |  |  |  |  |
| Physical exercise | 0.5414  | 0.4536  | 0.6491  | **<0.0001** |
| Frequency of physical exercise (ref: Never) |
| 1-2 times/week | 0.7908  | 0.6222  | 1.0045  | 0.0546  |
| 3 times/week | 0.6619  | 0.5310  | 0.8259  | **0.0002**  |
| 4-5 times/week | 0.4794  | 0.3969  | 0.5811  | **<0.0001** |
| ＞5 times/week | 0.5053  | 0.4152  | 0.6170  | **<0.0001** |

Abbreviations: OR, odds ratio; LCI, lower confidence interval (2.5%); UCI, upper confidence interval (97.5%).

M1: The univariate logistic regression analysis.

M2: The multivariate logistic regression analysis adjusted for age, sex and education years.

M3: The multivariate logistic regression analysis adjusted for age, sex and education years, hypertension, DM, CHD, stroke, smoking and drinking.

**eTable 4. Liner regression analyses for relationship between physical exercise and cognition**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **M1** | **M2** | **M3** |
|  | **β** | **p value** | **β** | **p value** | **β** | **p value** |
| Physical exercise | 26944 | **<0.0001** | 13013  | **<0.0001** | 12851  | **<0.0001** |
| Frequency of physical exercise (ref: Never) |  |  |  |  |
| 1-2 times/week | 9259  | **0.0002** | 6675  | **0.0015** | 6788  | **0.0012** |
| 3 times/week | 18463  | **<0.0001** | 12823  | **<0.0001** | 12648  | **<0.0001** |
| 4-5 times/week | 26858  | **<0.0001** | 13395  | **<0.0001** | 13221  | **<0.0001** |
| ＞5 times/week | 33721  | **<0.0001** | 14222  | **<0.0001** | 14036  | **<0.0001** |

M1: The univariate liner regression analysis.

M2: The multivariate liner regression analysis adjusted for age, sex and education years.

M3: The multivariate liner regression analysis adjusted for age, sex and education years, hypertension, DM, CHD, stroke, smoking and drinking.

**eTable 5. Logistic regression analyses between physical exercise and dementia subtype**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **AD** | **VD** | **Other types of dementia** |
|  | **OR** | **P** | **OR** | **P** | **OR** | **P** |
| **M1** |  |  |  |  |  |  |
| Physical exercise | 0.4873(0.3962-0.6046)  | **<0.0001**  | 0.3582(0.2501-0.5295) | **<0.0001** | 0.3145(0.2317-0.4359)  | **<0.0001** |
| Frequency of physical exercise (ref: Never) |
| 1-2 times/week | 0.7974(0.6000-1.0594) | 0.1180 | 0.7454(0.4486-1.2340)  | 0.1591  | 0.5808(0.3679-0.9072)  | **0.0179**  |
| 3 times/week | 0.5959(0.4577-0.7775)  | **0.0001** | 0.5201(0.3228-0.8416)  | **0.0180**  | 0.5026(0.3363-0.7525)  | **0.0008**  |
| 4-5 times/week | 0.4294(0.3439-0.5400)  | **<0.0001** | 0.3070(0.2059-0.4684)  | **<0.0001** | 0.2890(0.2060-0.4114)  | **<0.0001** |
| ＞5 times/week | 0.4664(0.3439-0.5893)  | **<0.0001** | 0.2957(0.1939-0.4590)  | **<0.0001** | 0.2328(0.1607-0.3402)  | **<0.0001** |
| **M2** |  |  |  |  |  |  |
| Physical exercise | 0.5847(0.4712-0.7318)  | **<0.0001** | 0.4211(0.2920-0.6262)  | **<0.0001** | 0.4610(0.3338-0.6495)  | **<0.0001** |
| Frequency of physical exercise (ref: Never) |
| 1-2 times/week | 0.8627(0.5676-1.1558)  | 0.3220  | 0.7845(0.4703-1.3042)  | 0.3488  | 0.6035(0.3759-0.9595)  | **0.0341**  |
| 3 times/week | 0.6768(0.5161-0.8898)  | **0.0049**  | 0.5801(0.3586-0.9424) | **0.0265**  | 0.6028(0.3972-0.9170)  | **0.0174**  |
| 4-5 times/week | 0.5170(0.4107-0.6556)  | **<0.0001** | 0.3568(0.2378-0.5475)  | **<0.0001** | 0.4256(0.2985-0.6156)  | **<0.0001** |
| ＞5 times/week | 0.5676(0.4477-0.6556)  | **<0.0001** | 0.3531(0.2294-0.5529)  | **<0.0001** | 0.3933(0.2666-0.5850)  | **<0.0001** |
| **M3** |  |  |  |  |  |  |
| Physical exercise | 0.5708(0.4578-0.7178)  | **<0.0001** | 0.3864(0.2536-0.6052)  | **<0.0001** | 0.4749(0.2501-0.5295)  | **<0.0001** |
| Frequency of physical exercise (ref: Never) |
| 1-2 times/week | 0.8423(0.6249-1.1352)  | 0.2593  | 0.6638(0.3741-1.1751)  | 0.1591  | 0.6601(0.4064-1.0625)  | 0.0893  |
| 3 times/week | 0.6741(0.5115-0.8906)  | **0.0053**  | 0.5216(0.3044-0.8981)  | **0.0180**  | 0.6148(0.4004-0.9462)  | **0.0262**  |
| 4-5 times/week | 0.5055(0.3996-0.6439)  | **<0.0001** | 0.3328(0.2101-0.5383)  | **<0.0001** | 0.4361(0.3029-0.6369)  | **<0.0001** |
| ＞5 times/week | 0.5450(0.4276-0.6992)  | **<0.0001** | 0.3239(0.1994-0.5346)  | **<0.0001** | 0.4033(0.2707-0.6057)  | **<0.0001** |

Abbreviations: OR, odds ratio; LCI, lower confidence interval (2.5%); UCI, upper confidence interval (97.5%).

M1: The univariate logistic regression analysis.

M2: The multivariate logistic regression analysis adjusted for age, sex and education years.

M3: The multivariate logistic regression analysis adjusted for age, sex and education years, hypertension, DM, CHD, stroke, smoking and drinking.

**eTable 6. Liner regression analyses for relationship between physical exercise and cognition in dementia subtype**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **AD** | **VD** | **Other types of dementia** |
|  | **β** | **p value** | **β** | **p value** | **β** | **p value** |
| **M1** |  |  |  |  |  |  |
| Physical exercise | 22485 | **<0.0001** | 19169 | **<0.0001** | 20635 | **<0.0001** |
| Frequency of physical exercise (ref: Never) |  |  |  |  |
| 1-2 times/week | 7142 | **0.0038** | 6247 | **0.0090**  | 7519 | **0.0018**  |
| 3 times/week | 15570 | **<0.0001** | 13000 | **<0.0001** | 13988 | **<0.0001** |
| 4-5 times/week | 22039 | **<0.0001** | 18010 | **<0.0001** | 19404 | **<0.0001** |
| ＞5 times/week | 28526 | **<0.0001** | 25323 | **<0.0001** | 27111 | **<0.0001** |
| **M2** |  |  |  |  |  |  |
| Physical exercise | 10460 | **<0.0001** | 9093 | **<0.0001** | 9234 | **<0.0001** |
| Frequency of physical exercise (ref: Never) |  |  |  |
| 1-2 times/week | 5167  | **0.0140** | 5691  | **0.0044** | 6491  | **0.0011** |
| 3 times/week | 11262  | **<0.0001** | 10186  | **<0.0001** | 10573  | **<0.0001** |
| 4-5 times/week | 10555  | **<0.0001** | 8640  | **<0.0001** | 8705  | **<0.0001** |
| ＞5 times/week | 11312  | **<0.0001** | 10099  | **<0.0001** | 10102  | **<0.0001** |
| **M3** |  |  |  |  |  |  |
| Physical exercise | 10406 | **<0.0001** | 8806 | **<0.0001** | 9043 | **<0.0001** |
| Frequency of physical exercise (ref: Never) |  |  |  |
| 1-2 times/week | 5219  | **0.0130** | 5907  | **0.0030** | 6407  | **0.0012** |
| 3 times/week | 11134  | **<0.0001** | 9987  | **<0.0001** | 10458  | **<0.0001** |
| 4-5 times/week | 10464  | **<0.0001** | 8334  | **<0.0001** | 8525  | **<0.0001** |
| ＞5 times/week | 11325  | **<0.0001** | 9694  | **<0.0001** | 9839  | **<0.0001** |

M1: The univariate liner regression analysis.

M2: The multivariate liner regression analysis adjusted for age, sex and education years.

M3: The multivariate liner regression analysis adjusted for age, sex and education years, hypertension, DM, CHD, stroke, smoking and drinking.

**eTable 7. Evaluation of multicollinearity in linear regression analyses**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **VIF** | **Total** | **AD** | **VD** | **Other dementia****types** |
| Physical exercise | 1.01  | 1.01  | 1.01  | 1.01  |
| Age (years) | 1.02  | 1.01  | 1.01  | 1.01  |
| Sex (female) | 1.16  | 1.16  | 1.17  | 1.17  |
| Education (years) | 1.07  | 1.07  | 1.07  | 1.07  |
| Hypertension | 1.06 | 1.05 | 1.06 | 1.05 |
| DM | 1.03  | 1.03  | 1.03  | 1.03  |
| CHD | 1.04  | 1.04  | 1.05  | 1.04  |
| Stroke | 1.03 | 1.03 | 1.04 | 1.03 |
| Smoking | 1.42  | 1.42  | 1.44  | 1.43  |
| Drinking | 1.41  | 1.41  | 1.42  | 1.41  |
| Physical exercise frequency | 1.06  | 1.05  | 1.05  | 1.05  |

Abbreviations: VIF, variance inflation factor; AD, Alzheimer's dementia; VD, vascular dementia; DM, diabetes mellitus; CHD, coronary heart disease.

**eTable 8. Interaction analyses between physical exercise and dementia**

|  |  |  |
| --- | --- | --- |
| **p value** | **Physical exercise** | **Frequency of physical exercise (ref: Never, times/week)** |
| **1-2**  | **3**  | **4-5**  | **＞5**  |
| **Age (≥75)** | **0.03** | 0.43 | 0.44 | **0.02** | **0.02** |
| Sex (female) | 0.84 | 0.49 | 0.63 | 0.85 | 0.90 |
| **Hypertension** | **0.04** | 0.12 | 0.44 | 0.13 | **0.01** |
| DM | 0.34 | 0.71 | 0.12 | 0.51 | 0.36 |
| CHD | 0.28 | 0.11 | 0.69 | 0.40 | 0.43 |
| **Stroke** | **<0.01** | 0.10 | 0.18 | **<0.01** | **<0.01** |
| Smoking | 0.15 | 0.83 | 0.95 | 0.09 | 0.06 |
| Drinking | 0.32 | 0.81 | 0.94 | 0.31 | 0.08 |

Abbreviations: DM, diabetes mellitus; CHD, coronary heart disease.

**eTable 9. Subgroup analyses stratified by age**

|  |  |  |
| --- | --- | --- |
|  | **65-74** | **≥75** |
|  | OR | LCI | UCI | p value | OR | LCI | UCI | p value |
| **M1** |  |  |  |  |  |  |  |  |
| Physical exercise | 0.57  | 0.42  | 0.79  | **<0.01**  | 0.38  | 0.31  | 0.47  | **<0.01** |
| Frequency of physical exercise (ref: Never) |  |  |  |  |  |  |  |
| **1-2 times/week** | 0.85  | 0.56  | 1.29  | 0.44  | 0.69  | 0.52  | 0.92  | **0.01**  |
| 3 times/week | 0.65  | 0.45  | 0.96  | **0.03**  | 0.55  | 0.42  | 0.71  | **<0.01**  |
| 4-5 times/week | 0.53  | 0.39  | 0.74  | **<0.01** | 0.33  | 0.26  | 0.41  | **<0.01** |
| ＞5 times/week | 0.55  | 0.39  | 0.77  | **<0.01**  | 0.33  | 0.26  | 0.42  | **<0.01** |
| **M2** |  |  |  |  |  |  |  |  |
| Physical exercise | 0.58  | 0.43  | 0.80  | **<0.01** | 0.52  | 0.42  | 0.65  | **<0.01** |
| Frequency of physical exercise (ref: Never) |  |  |  |  |  |  |
| 1-2 times/week | 0.84  | 0.55  | 1.27  | 0.41  | 0.77  | 0.58  | 1.04  | 0.09  |
| 3 times/week | 0.66  | 0.45  | 0.98  | **0.03**  | 0.65  | 0.49  | 0.85  | **<0.01** |
| 4-5 times/week | 0.53  | 0.38  | 0.74  | **<0.01** | 0.45  | 0.36  | 0.58  | **<0.01** |
| ＞5 times/week | 0.56  | 0.40  | 0.79  | **<0.01** | 0.48  | 0.38  | 0.61  | **<0.01** |
| **M3** |  |  |  |  |  |  |  |  |
| Physical exercise | 0.57  | 0.42  | 0.79  | **<0.01** | 0.53  | 0.42  | 0.66  | **<0.01**  |
| Frequency of physical exercise (ref: Never) |  |  |  |  |  |  |  |
| 1-2 times/week | 0.81  | 0.53  | 1.23  | 0.32  | 0.78  | 0.58  | 1.04  | 0.09  |
| 3 times/week | 0.65  | 0.45  | 0.96  | **0.03**  | 0.66  | 0.51  | 0.87  | **<0.01** |
| 4-5 times/week | 0.52  | 0.38  | 0.73  | **<0.01** | 0.45  | 0.36  | 0.58  | **<0.01** |
| ＞5 times/week | 0.55  | 0.39  | 0.78  | **<0.01** | 0.48  | 0.37  | 0.61  | **<0.01** |

Abbreviations: OR, odds ratio; LCI, lower confidence interval (2.5%); UCI, upper confidence interval (97.5%).

M1: The univariate logistic regression analysis.

M2: The multivariate logistic regression analysis adjusted for age, sex and education years.

M3: The multivariate logistic regression analysis adjusted for age, sex and education years, hypertension, DM, CHD, stroke, smoking and drinking.

**eTable 10. Subgroup analyses stratified by stroke**

|  |  |  |
| --- | --- | --- |
|  | **Without stroke** | **Stroke** |
|  | OR | LCI | UCI | p value | OR | LCI | UCI | p value |
| **M1** |  |  |  |  |  |  |  |  |
| Physical exercise | 0.50  | 0.41  | 0.60  | **<0.01**  | 0.25  | 0.17  | 0.35  | **<0.01**  |
| Frequency of physical exercise (ref: Never) |  |  |  |  |  |  |  |
| **1-2 times/week** | 0.81  | 0.62  | 1.05  | 0.12  | 0.52  | 0.32  | 0.83  | **0.01**  |
| 3 times/week | 0.61  | 0.48  | 0.78  | **<0.01** | 0.43  | 0.28  | 0.68  | **<0.01** |
| 4-5 times/week | 0.45  | 0.36  | 0.55  | **<0.01** | 0.20  | 0.13  | 0.29  | **<0.01** |
| ＞5 times/week | 0.46  | 0.37  | 0.57  | **<0.01** | 0.18  | 0.12  | 0.27  | **<0.01** |
| **M2** |  |  |  |  |  |  |  |  |
| Physical exercise | 0.62  | 0.50  | 0.76  | **<0.01**  | 0.34  | 0.24  | 0.50  | **<0.01** |
| Frequency of physical exercise (ref: Never) |  |  |  |  |  |  |
| 1-2 times/week | 0.84  | 0.63  | 1.10  | 0.20  | 0.67  | 0.41  | 1.09  | 0.11  |
| 3 times/week | 0.69  | 0.54  | 0.89  | **<0.01** | 0.57  | 0.36  | 0.91  | **0.02**  |
| 4-5 times/week | 0.56  | 0.45  | 0.70  | **<0.01** | 0.27  | 0.18  | 0.41  | **<0.01** |
| ＞5 times/week | 0.61  | 0.49  | 0.76  | **<0.01** | 0.25  | 0.16  | 0.39  | **<0.01** |
| **M3** |  |  |  |  |  |  |  |  |
| Physical exercise | 0.61  | 0.50  | 0.75  | **<0.01**  | 0.34  | 0.23  | 0.49  | **<0.01** |
| Frequency of physical exercise (ref: Never) |  |  |  |  |  |  |  |
| 1-2 times/week | 0.83  | 0.63  | 1.09  | 0.18  | 0.64  | 0.39  | 1.05  | 0.08  |
| 3 times/week | 0.69  | 0.53  | 0.89  | **<0.01** | 0.56  | 0.35  | 0.89  | **0.02**  |
| 4-5 times/week | 0.55  | 0.44  | 0.69  | **<0.01** | 0.27  | 0.18  | 0.41  | **<0.01** |
| ＞5 times/week | 0.59  | 0.47  | 0.75  | **<0.01** | 0.25  | 0.16  | 0.38  | **<0.01** |

Abbreviations: OR, odds ratio; LCI, lower confidence interval (2.5%); UCI, upper confidence interval (97.5%).

M1: The univariate logistic regression analysis.

M2: The multivariate logistic regression analysis adjusted for age, sex and education years.

M3: The multivariate logistic regression analysis adjusted for age, sex and education years, hypertension, DM, CHD, stroke, smoking and drinking.

**eTable 11. Subgroup analyses stratified by hypertension**

|  |  |  |
| --- | --- | --- |
|  | **Without hypertension** | **Hypertension** |
|  | OR | LCI | UCI | p value | OR | LCI | UCI | p value |
| M1 |  |  |  |  |  |  |  |  |
| Physical exercise | 0.35  | 0.28  | 0.45  | **<0.01** | 0.50  | 0.39  | 0.64  | **<0.01** |
| Frequency of physical exercise (ref: Never) |  |  |  |  |  |  |  |
| **1-2 times/week** | 0.61  | 0.44  | 0.84  | **<0.01**  | 0.88  | 0.64  | 1.21  | 0.43  |
| 3 times/week | 0.51  | 0.38  | 0.69  | **<0.01**  | 0.61  | 0.45  | 0.82  | **<0.01**  |
| 4-5 times/week | 0.32  | 0.25  | 0.42  | **<0.01**  | 0.43  | 0.33  | 0.56  | **<0.01**  |
| ＞5 times/week | 0.29  | 0.23  | 0.38  | **<0.01**  | 0.48  | 0.37  | 0.63  | **<0.01**  |
| M2 |  |  |  |  |  |  |  |  |
| Physical exercise | 0.46  | 0.36  | 0.60  | **<0.01**  | 0.62  | 0.48  | 0.80  | **<0.01**  |
| Frequency of physical exercise (ref: Never) |  |  |  |  |  |  |
| **1-2 times/week** | 0.63  | 0.44  | 0.88  | **0.01**  | 1.00  | 0.71  | 1.40  | 0.99  |
| 3 times/week | 0.60  | 0.44  | 0.82  | **<0.01**  | 0.70  | 0.51  | 0.96  | **0.03**  |
| 4-5 times/week | 0.42  | 0.33  | 0.56  | **<0.01**  | 0.53  | 0.41  | 0.70  | **<0.01**  |
| ＞5 times/week | 0.41  | 0.31  | 0.54  | **<0.01**  | 0.61  | 0.47  | 0.81  | **<0.01**  |
| M3 |  |  |  |  |  |  |  |  |
| Physical exercise | 0.46  | 0.36  | 0.60  | **<0.01** | 0.63  | 0.49  | 0.81  | **<0.01** |
| Frequency of physical exercise (ref: Never) |  |  |  |  |  |  |  |
| **1-2 times/week** | 0.62  | 0.44  | 0.87  | **0.01**  | 1.00  | 0.71  | 1.40  | 0.99  |
| 3 times/week | 0.60  | 0.44  | 0.83  | **<0.01**  | 0.71  | 0.52  | 0.98  | **0.03**  |
| 4-5 times/week | 0.42  | 0.32  | 0.55  | **<0.01**  | 0.54  | 0.41  | 0.71  | **<0.01**  |
| ＞5 times/week | 0.40  | 0.31  | 0.54  | **<0.01**  | 0.62  | 0.47  | 0.82  | **<0.01**  |

Abbreviations: OR, odds ratio; LCI, lower confidence interval (2.5%); UCI, upper confidence interval (97.5%).

M1: The univariate logistic regression analysis.

M2: The multivariate logistic regression analysis adjusted for age, sex and education years.

M3: The multivariate logistic regression analysis adjusted for age, sex and education years, hypertension, DM, CHD, stroke, smoking and drinking.