Supplementary Tables 1 through 4:

Results of the generalized estimating equations (GEE) methods with various working correlation structures including independent, exchangeable, first-order autoregressive, and unstructured for *post-hoc* comparison with the results of the multivariable logistic regression model.

Supplemental Table 1: Results of multivariable logistic regression model using GEE with independence correlation structure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variable | Reference group | Odds Ratio (OR)\* | 95% CI for OR\* | *P* value\* |
| Sex: female | Male | 0.763 | 0.663 - 0.878 | <0.001 |
| Education: > High school | ≤ High school | 0.905 | 0.788 - 1.04 | 0.16 |
| Resides with another study participant: Yes | No | 0.706 | 0.592 - 0.841 | <0.001 |
| Age (continuous, per year) | Mean age | 1.028 | 1.017 - 1.039 | <0.001 |
| MMSE (continuous, per unit score) | Mean MMSE | 0.94 | 0.913 - 0.967 | <0.001 |
| Physical activity: Yes | No | 0.838 | 0.718 - 0.978 | 0.025 |
| Hobby: Yes | No | 0.651 | 0.5 - 0.849 | 0.002 |
| Social activity: Yes | No | 0.608 | 0.393 - 0.94 | 0.025 |
| Social engagement: Yes | No | 0.767 | 0.645 - 0.912 | 0.003 |
| Subjective health rating: Fair/Good/Very good | Poor | 0.48 | 0.329 - 0.701 | <0.001 |
| Subjective health rating: Excellent | 0.347 | 0.221 - 0.546 | <0.001 |
| Stoke or TIA history: Yes | No | 1.36 | 0.959 - 1.929 | 0.084 |
| Number of people in whom to confide: ≥3 | <3 | 0.825 | 0.709 - 0.96 | 0.013 |
| Number of subjective memory complaints: 3-4 | 0-2 | 0.787 | 0.646 - 0.957 | 0.017 |
| Number of subjective memory complaints: ≥5 | 0.771 | 0.61 - 0.975 | 0.03 |
| IADL score: >0 | =0 | 1.372 | 1.165 - 1.615 | <0.001 |
| CDR: 0.5 | =0 | 1.532 | 1.246 - 1.885 | <0.001 |
| Frequency of leaving house: 2-6 times/week | Daily | 0.975 | 0.837 - 1.135 | 0.741 |
| Frequency of leaving house: less than weekly | 1.343 | 1.038 - 1.738 | 0.025 |

QIC=6755.25

Abbreviations. MMSE: Mini-Mental State Exam; IADL: Instrumental Activities of Daily Living; TIA: transient ischemic attack; CDR: clinical dementia rating

\*For the categorical variables (all variables except age and MMSE), the odds ratio is the odds of attrition at the next cycle for this group compared to that of the reference group; For the continuous variables (age and MMSE), the odds ratio is the odds of attrition at the next cycle for a participant with one unit increase in that variable compared to another participant with a measurement of that variable at mean value. 95% confidence intervals and p values are calculated based on the robust standard errors.

Supplemental Table 2: Results of multivariable logistic regression model using GEE with exchangeable correlation structure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variable | Reference group | Odds Ratio (OR)\* | 95% CI for OR\* | *P* value\* |
| Sex: female | Male | 0.761 | 0.661 - 0.875 | <0.001 |
| Education: > High school | ≤ High school | 0.909 | 0.791 - 1.044 | 0.178 |
| Resides with another study participant: Yes | No | 0.702 | 0.589 - 0.837 | <0.001 |
| Age (continuous, per year) | Mean age | 1.028 | 1.018 - 1.039 | <0.001 |
| MMSE (continuous, per unit score) | Mean MMSE | 0.94 | 0.914 - 0.968 | <0.001 |
| Physical activity: Yes | No | 0.833 | 0.715 - 0.969 | 0.018 |
| Hobby: Yes | No | 0.654 | 0.503 - 0.851 | 0.002 |
| Social activity: Yes | No | 0.607 | 0.393 - 0.937 | 0.024 |
| Social engagement: Yes | No | 0.768 | 0.647 - 0.913 | 0.003 |
| Subjective health rating: Fair/Good/Very good | Poor | 0.485 | 0.333 - 0.707 | <0.001 |
| Subjective health rating: Excellent | 0.353 | 0.226 - 0.553 | <0.001 |
| Stroke or TIA history: Yes | No | 1.354 | 0.96 - 1.91 | 0.085 |
| Number of people in whom to confide: ≥3 | <3 | 0.828 | 0.712 - 0.963 | 0.014 |
| Number of subjective memory complaints: 3-4 | 0-2 | 0.788 | 0.65 - 0.957 | 0.016 |
| Number of subjective memory complaints: ≥5 | 0.776 | 0.615 - 0.978 | 0.031 |
| IADL score: >0 | =0 | 1.372 | 1.168 - 1.612 | <0.001 |
| CDR: 0.5 | =0 | 1.528 | 1.245 - 1.874 | <0.001 |
| Frequency of leaving house: 2-6 times/week | Daily | 0.978 | 0.841 - 1.136 | 0.77 |
| Frequency of leaving house: less than weekly | 1.343 | 1.041 - 1.734 | 0.023 |

QIC=6756.0

Abbreviations. MMSE: Mini-Mental State Exam; IADL: Instrumental Activities of Daily Living; TIA: transient ischemic attack; CDR: clinical dementia rating

\*For the categorical variables (all variables except age and MMSE), the odds ratio is the odds of attrition at the next cycle for this group compared to that of the reference group; For the continuous variables (age and MMSE), the odds ratio is the odds of attrition at the next cycle for a participant with one unit increase in that variable compared to another participant with a measurement of that variable at mean value. 95% confidence intervals and p values are calculated based on the robust standard errors.

Supplemental Table 3: Results of multivariable logistic regression model using GEE with unstructured correlation structure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variable | Reference group | Odds Ratio (OR)\* | 95% CI for OR\* | *P* value\* |
| Sex: female | Male | 0.763 | 0.663 - 0.878 | <0.001 |
| Education: > High school | ≤ High school | 0.914 | 0.796 - 1.05 | 0.204 |
| Resides with another study participant: Yes | No | 0.701 | 0.588 - 0.836 | <0.001 |
| Age (continuous, per year) | Mean age | 1.028 | 1.018 - 1.039 | <0.001 |
| MMSE (continuous, per unit score) | Mean MMSE | 0.94 | 0.914 - 0.968 | <0.001 |
| Physical activity: Yes | No | 0.84 | 0.722 - 0.977 | 0.024 |
| Hobby: Yes | No | 0.656 | 0.505 - 0.852 | 0.002 |
| Social activity: Yes | No | 0.609 | 0.396 - 0.938 | 0.024 |
| Social engagement: Yes | No | 0.77 | 0.648 - 0.915 | 0.003 |
| Subjective health rating: Fair/Good/Very good | Poor | 0.484 | 0.333 - 0.704 | <0.001 |
| Subjective health rating: Excellent | 0.351 | 0.225 - 0.548 | <0.001 |
| Stroke or TIA history: Yes | No | 1.34 | 0.949 - 1.892 | 0.097 |
| Number of people in whom to confide: ≥3 | <3 | 0.834 | 0.717 - 0.97 | 0.018 |
| Number of subjective memory complaints: 3-4 | 0-2 | 0.785 | 0.648 - 0.951 | 0.013 |
| Number of subjective memory complaints: ≥5 | 0.773 | 0.615 - 0.973 | 0.028 |
| IADL score: >0 | =0 | 1.365 | 1.163 - 1.603 | <0.001 |
| CDR: 0.5 | =0 | 1.534 | 1.252 - 1.878 | <0.001 |
| Frequency of leaving house: 2-6 times/week | Daily | 0.985 | 0.848 - 1.144 | 0.844 |
| Frequency of leaving house: less than weekly | 1.368 | 1.062 - 1.763 | 0.015 |

QIC=6756.7

Abbreviations. MMSE: Mini-Mental State Exam; IADL: Instrumental Activities of Daily Living; TIA: transient ischemic attack; CDR: clinical dementia rating

\*For the categorical variables (all variables except age and MMSE), the odds ratio is the odds of attrition at the next cycle for this group compared to that of the reference group; For the continuous variables (age and MMSE), the odds ratio is the odds of attrition at the next cycle for a participant with one unit increase in that variable compared to another participant with a measurement of that variable at mean value. 95% confidence intervals and p values are calculated based on the robust standard errors.

Supplemental Table 4: Results of multivariable logistic regression model using GEE with independence correlation structure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variable | Reference group | Odds Ratio (OR)\* | 95% CI for OR\* | *P* value\* |
| Sex: female | Male | 0.763 | 0.663 - 0.878 | <0.001 |
| Education: > High school | ≤ High school | 0.905 | 0.788 - 1.04 | 0.16 |
| Resides with another study participant: Yes | No | 0.705 | 0.591 - 0.841 | <0.001 |
| Age (continuous, per year) | Mean age | 1.028 | 1.017 - 1.039 | <0.001 |
| MMSE (continuous, per unit score) | Mean MMSE | 0.94 | 0.913 - 0.967 | <0.001 |
| Physical activity: Yes | No | 0.838 | 0.719 - 0.978 | 0.025 |
| Hobby: Yes | No | 0.651 | 0.5 - 0.849 | 0.002 |
| Social activity: Yes | No | 0.608 | 0.393 - 0.94 | 0.025 |
| Social engagement: Yes | No | 0.767 | 0.645 - 0.912 | 0.003 |
| Subjective health rating: Fair/Good/Very good | Poor | 0.48 | 0.329 - 0.701 | <0.001 |
| Subjective health rating: Excellent | 0.348 | 0.222 - 0.546 | <0.001 |
| Stroke or TIA history: Yes | No | 1.359 | 0.959 - 1.926 | 0.085 |
| Number of people in whom to confide: ≥3 | <3 | 0.825 | 0.709 - 0.96 | 0.013 |
| Number of subjective memory complaints: 3-4 | 0-2 | 0.787 | 0.647 - 0.957 | 0.017 |
| Number of subjective memory complaints: ≥5 | 0.771 | 0.61 - 0.975 | 0.03 |
| IADL score: >0 | =0 | 1.372 | 1.166 - 1.615 | <0.001 |
| CDR: 0.5 | =0 | 1.532 | 1.246 - 1.884 | <0.001 |
| Frequency of leaving house: 2-6 times/week | Daily | 0.975 | 0.838 - 1.135 | 0.743 |
| Frequency of leaving house: less than weekly | 1.343 | 1.038 - 1.737 | 0.025 |

QIC=6755.3

Abbreviations. MMSE: Mini-Mental State Exam; IADL: Instrumental Activities of Daily Living; TIA: transient ischemic attack; CDR: clinical dementia rating

\*For the categorical variables (all variables except age and MMSE), the odds ratio is the odds of attrition at the next cycle for this group compared to that of the reference group; For the continuous variables (age and MMSE), the odds ratio is the odds of attrition at the next cycle for a participant with one unit increase in that variable compared to another participant with a measurement of that variable at mean value. 95% confidence intervals and p values are calculated based on the robust standard errors.