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| **Supplementary Table 2 Factors associated with change in NPI total score, MMSE and ADCS-ADL in placebo group (adjusted)** |
|  |  |  |  |  |  |  |  |  |  |
|  | NPI total score\* | MMSE\* | ADCS ADL\* |
| Risk factor (at baseline) | Difference in slope\*  | 95% CI | p-value | Difference in slope\*  | 95% CI | p-value | Difference in slope\*  | 95% CI | p-value |
|  |  |  |  |  |  |  |  |  |  |
| Age (years) |  |  |  |  |  |  |  |  |  |
| 47-75 | Ref |  | 0.56 | Ref |  | 0.56 | Ref |  | 0.44 |
| 76-82 | 0.23 | (-0.81, 1.27) | -0.07 | (-0.24, 0.09) | 0.04 | (-0.33, 0.41) |
| 83-92 | 0.55 | (-0.46, 1.56) | -0.08 | (-0.24, 0.08) | 0.22 | (-0.14, 0.58) |
|  |  |  |  |  |  |  |  |  |  |
| Sex |  |  |  |  |  |  |  |  |  |
| Women | Ref |  | 0.45 | Ref |  | 0.94 | Ref |  | 0.03 |
| Men | 0.32 | (-0.51, 1.15) | 0.00 | (-0.14, 0.13) | -0.33 | (-0.63, -0.04) |
|  |  |  |  |  |  |  |  |  |  |
| Race |  |  |  |  |  |  |  |  |  |
| White, non-Hispanic | Ref |  | 0.12 | Ref |  | 0.78 | Ref |  | 0.14 |
| Black, non-Hispanic | -0.21 | (-1.30, 0.89) | -0.03 | (-0.21, 0.15) | 0.15 | (-0.24, 0.54) |
| Hispanic | 0.36 | (-0.82, 1.54) | 0.02 | (-0.16, 0.21) | 0.48 | (0.06, 0.91) |
| Other, non-Hispanic | -2.47 | (-4.64, -0.30) | 0.16 | (-0.18, 0.50) | 0.31 | (-0.47, 1.08) |
|  |  |  |  |  |  |  |  |  |  |
| Education (years) |  |  |  |  |  |  |  |  |  |
| High school or less | Ref |  | 0.46 | Ref |  | 0.43 | Ref |  | 0.66 |
| More than high school | 0.31 | (-0.52, 1.14) | -0.05 | (-0.18, 0.08) | -0.07 | (-0.36, 0.23) |
|  |  |  |  |  |  |  |  |  |  |
| NBRS agitation subscale tertiles |  |  |  |  |  |  |  |  |  |
| Lowest: 0-5 | Ref |  | 0.24 | Ref |  | 0.32 | Ref |  | 0.12 |
| Middle: 6-8 | 0.85 | (-0.26, 1.95) | -0.13 | (-0.30, 0.04) | -0.12 | (-0.51, 0.28) |
| Highest (most agitated): 9+ | 0.11 | (-0.90, 1.13) | -0.07 | (-0.23, 0.09) | -0.36 | (-0.72, 0.00) |
|  |  |  |  |  |  |  |  |  |  |
| CMAI tertiles |  |  |  |  |  |  |  |  |  |
| Lowest: 0-24 | Ref |  | 0.34 | Ref |  | 0.13 | Ref |  | 0.81 |
| Middle: 25-30 | 0.22 | (-0.78, 1.21) | 0.00 | (-0.15, 0.16) | 0.11 | (-0.25, 0.46) |
| Highest (most agitated): 31+ | 0.76 | (-0.29, 1.81) | -0.15 | (-0.31, 0.02) | 0.02 | (-0.36, 0.39) |
|  |  |  |  |  |  |  |  |  |  |
| NPI agitation tertiles |  |  |  |  |  |  |  |  |  |
| Lowest: 0-6 | Ref |  | 0.08 | Ref |  | 0.27 | Ref |  | 0.82 |
| Middle: 7-8 | -0.71 | (-1.67, 0.25) | 0.12 | (-0.03, 0.27) | -0.11 | (-0.46, 0.23) |
| Highest (most agitated): 9+ | -1.15 | (-2.18, -0.12) | 0.08 | (-0.08, 0.24) | -0.06 | (-0.43, 0.31) |
|  |  |  |  |  |  |  |  |  |  |
| NPI-Q-4-Agitation/Aggression |  |  |  |  |  |  |  |  |  |
| Lowest: 0-14 | Ref |  | 0.01 | Ref |  | 0.06 | Ref |  | 0.17 |
| Middle: 15-22 | -1.39 | (-2.38, -0.40) | -0.15 | (-0.31, 0.01) | 0.33 | (-0.03, 0.68) |
| Highest (most agitated): 22+ | -1.29 | (-2.27, -0.31) | 0.04 | (-0.11, 0.19) | 0.23 | (-0.12, 0.58) |
|  |  |  |  |  |  |  |  |  |  |
| NPI-Q-3-Mood |  |  |  |  |  |  |  |  |  |
| Lowest: 0-8 | Ref |  | 0.12 | Ref |  | 0.52 | Ref |  | 0.65 |
| Middle: 9-14 | -0.47 | (-1.47, 0.52) | 0.00 | (-0.16, 0.15) | 0.09 | (-0.27, 0.44) |
| Highest (most symptoms): 15+ | -1.03 | (-2.03, -0.04) | -0.08 | (-0.24, 0.07) | -0.10 | (-0.45, 0.26) |
|  |  |  |  |  |  |  |  |  |  |
| NPI caregiver distress |  |  |  |  |  |  |  |  |  |
| Lowest: 0-13 | Ref |  | 0.01 | Ref |  | 0.86 | Ref |  | 0.08 |
| Middle: 14-19 | -0.69 | (-1.68, 0.30) | 0.03 | (-0.13, 0.19) | 0.31 | (-0.04, 0.67) |
| Highest (most distressed): 20+ | -1.62 | (-2.59, -0.65) | 0.04 | (-0.12, 0.19) | 0.36 | (0.01, 0.71) |
|  |  |  |  |  |  |  |  |  |  |
| NPI total score tertiles |  |  |  |  |  |  |  |  |  |
| Lowest: 0-28 | Ref |  | <0.01 | Ref |  | 0.98 | Ref |  | 0.82 |
| Middle: 29-42 | -0.20 | (-1.18, 0.79) | 0.01 | (-0.15, 0.17) | 0.11 | (-0.25, 0.47) |
| Highest (most symptoms): 43+ | -1.64 | (-2.64, -0.65) | -0.01 | (-0.17, 0.15) | 0.02 | (-0.34, 0.39) |
|  |  |  |  |  |  |  |  |  |  |
| Delusions or hallucinations  |  |  |  |  |  |  |  |  |  |
| Yes | Ref |  | 0.95 | Ref |  | 0.96 | Ref |  | 0.94 |
| No | -0.03 | (-0.85, 0.80) | 0.00 | (-0.13, 0.13) | -0.01 | (-0.31, 0.28) |
|  |  |  |  |  |  |  |  |  |  |
| MMSE |  |  |  |  |  |  |  |  |  |
| Mild impairment: 21+ | Ref |  | 0.01 | Ref |  | 0.78 | Ref |  | 0.32 |
| Moderate: 11-20 | -0.53 | (-1.46, 0.40) | 0.04 | (-0.11, 0.19) | -0.21 | (-0.54, 0.13) |
| Severe: 0-10 | -1.65 | (-2.74, -0.56) | -0.02 | (-0.19, 0.15) | 0.05 | (-0.34, 0.44) |
|  |  |  |  |  |  |  |  |  |  |
| ADCS-ADL tertiles |  |  |  |  |  |  |  |  |  |
| Lowest: 0-30 | Ref |  | 0.56 | Ref |  | 0.47 | Ref |  | 0.04 |
| Middle: 31-53 | -0.26 | (-1.24, 0.72) | 0.03 | (-0.12, 0.19) | -0.44 | (-0.79, -0.10) |
| Highest (fewest difficulties): 54+ | -0.59 | (-1.67, 0.48) | 0.10 | (-0.07, 0.27) | -0.14 | (-0.52, 0.23) |
|  |  |  |  |  |  |  |  |  |  |
| History of hypertension |  |  |  |  |  |  |  |  |  |
| Yes | Ref |  | 0.04 | Ref |  | 0.83 | Ref |  | 0.46 |
| No | 0.87 | (0.05, 1.69) | 0.01 | (-0.12, 0.14) | -0.11 | (-0.41, 0.19) |
|  |  |  |  |  |  |  |  |  |  |
| History of arthrtis |  |  |  |  |  |  |  |  |  |
| Yes | Ref |  | 0.77 | Ref |  | 0.83 | Ref |  | 0.04 |
| No | 0.13 | (-0.75, 1.02) | -0.01 | (-0.15, 0.12) | -0.33 | (-0.65, -0.02) |
|  |  |  |  |  |  |  |  |  |  |
| History of diabetes |  |  |  |  |  |  |  |  |  |
| Yes | Ref |  | 0.78 | Ref |  | 0.42 | Ref |  | 0.53 |
| No | 0.14 | (-0.85, 1.13) | -0.07 | (-0.22, 0.09) | 0.11 | (-0.24, 0.47) |
|   |   |   |   |   |   |   |   |   |   |
| \*Mixed effects regression results with random slope for participant. Adjusted model results are shown including control for gender, race, years of education and the baseline scale score. The 'Difference' column is the difference in the outcome variable slope in the category shown compared to the reference category. Negative differences indicate a larger loss for MMSE or ADL compared to the reference cell and a larger reduction in neuropsychiatric symptoms for NPI. The p-value is calculated from the F statistic comparing the model including the interaction term (time by risk factor) to a model without the interaction term. All available data were included. |
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