# Supplementary Online Content

This supplementary material has been provided by the authors to give readers additional information about their work.

**eTable 1.** Alzheimer's Disease Neuroimaging Initiative (ADNI) Inclusion and Exclusion Criteria

| |
|---|
| *General Criteria* |
| Hachinski less than or equal to 4 |
| Age between 55-90 |
| Stability of Permitted Medications for 4 weeks (see https://adni.loni.usc.edu/methods/documents/ for permitted medication list) |
| Geriatric Depression Scale less than 6 |
| Study partner with 10+ hr/wk contact (can be in person and telephone), accompanies to visits |
| Visual and auditory acuity adequate for neuropsychological testing |
| Good general health with no diseases precluding enrollment |
| Women must be sterile or two years past childbearing potential |
| Willing and able to complete a 3 year imaging study (2 years for AD subjects) |
| 6 grades education or work history |
| Must speak English/Spanish fluently |
| Commitment to Neuroimaging and no medical contraindications to MRI |
| Agrees to DNA for ApoE testing and banking |
| Agrees to Blood and Urine for Biomarkers |
| Not enrolled in other trials or studies |
| *Group specific criteria: Cognitively normal* |
| No Memory Complaints aside from those common to other normal subjects of that age range. |
| Normal memory function documented by scoring at specific cutoffs on the Logical Memory II subscale (delayed Paragraph Recall) from the Wechsler Memory Scaled - Revised (the maximum score is 25): a) greater than or equal to 9 for 16 or more years of education b) greater than or equal to 5 for 8-15 years of education c) greater than or equal to 3 for 0-7 years of education. |
| Mini-Mental State Exam score between 24 and 30 (inclusive) (Exceptions may be made for subjects with less than 8 years of education at the discretion of the project director). |
| Clinical Dementia Rating = 0. Memory Box score must be 0. |
| Cognitively normal, based on an absence of significant impairment in cognitive functions or activities of daily living. |
| *Group specific criteria: Mild Cognitive Impairment* |
| Memory complaint by subject or study partner that is verified by a study partner. |
| Abnormal memory function documented by scoring below the education adjusted cutoff on the Logical Memory II subscale (Delayed Paragraph Recall) from the Wechsler Memory Scale – Revised (the maximum score is 25): a) less than or equal to 8 for 16 or more years of education b) less than or equal to 4 for 8-15 years of education c) less than or equal to 2 for 0-7 years of education. |
| Mini-Mental State Exam score between 24 and 30 (inclusive) (Exceptions may be made for subjects with less than 8 years of education at the discretion of the project director). |
| Clinical Dementia Rating = 0.5. Memory Box score must be at least 0.5. |
| General cognition and functional performance sufficiently preserved such that a diagnosis of Alzheimer disease cannot be made by the site physician at the time of the screening visit. |

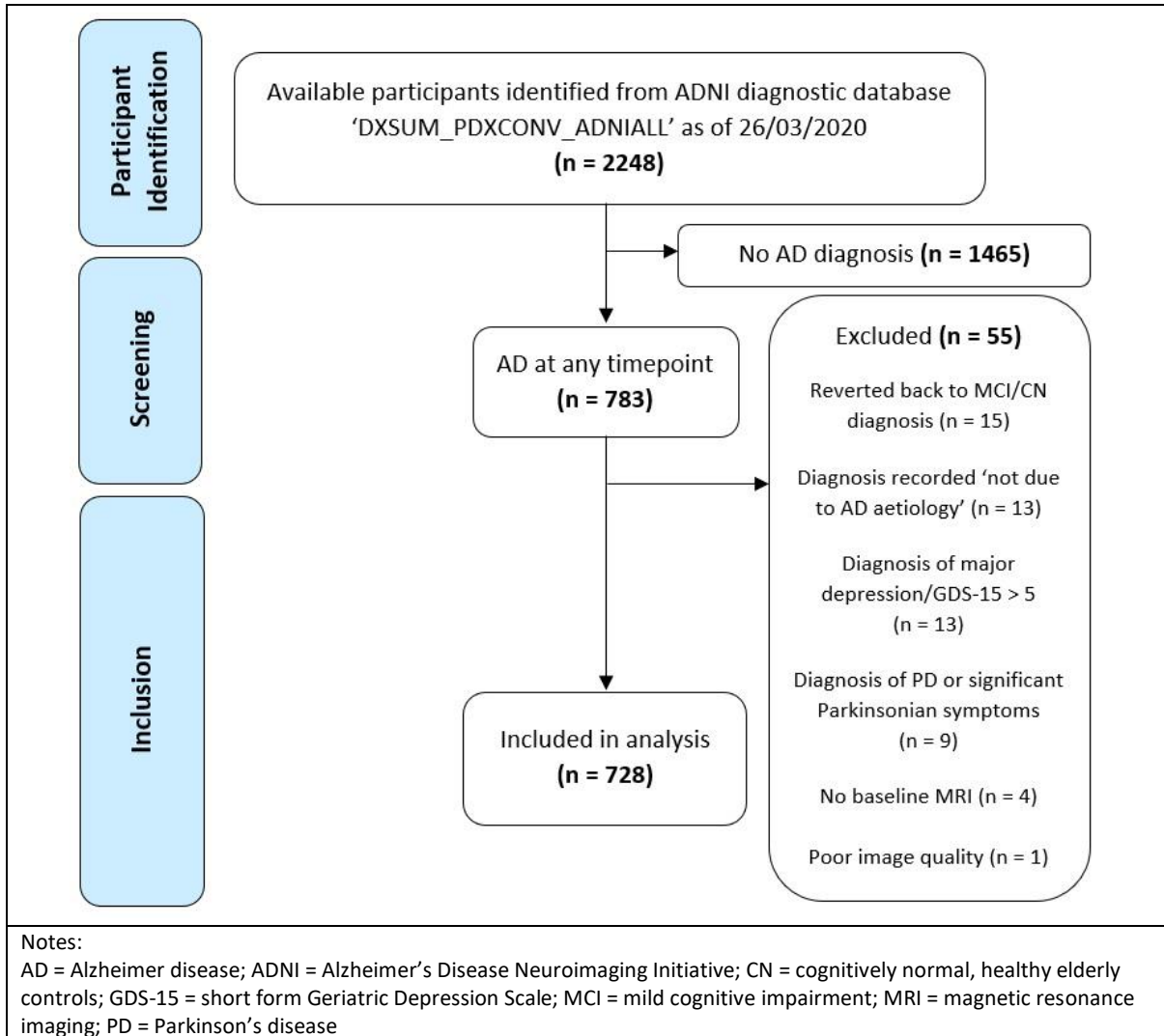| |
|---|
| *Group specific criteria: Alzheimer disease* |
| Memory complaint by subject or study partner that is verified by a study partner. |
| Abnormal memory function documented by scoring below the education adjusted cutoff on the Logical Memory II subscale (Delayed Paragraph Recall) from the Wechsler Memory Scale – Revised (the maximum score is 25):<br>a) less than or equal to 8 for 16 or more years of education<br>b) less than or equal to 4 for 8-15 years of education<br>c) less than or equal to 2 for 0-7 years of education. |
| MMSE between 20 and 26 (inclusive) (Exceptions may be made for subjects with less than 8 years of education at the discretion of the protocol PI). |
| Clinical Dementia Rating = 0.5, 1.0 |
| NINCDS/ADRDA criteria for probable AD. |

**eTable 2.** Breakdown and Classification of Psychosis Symptoms at Baseline (n = 32)

|  | Content | N (%) |
|---|---|---|
| *Persecutory* | | |
| Delusions | In danger/others are planning to hurt him/her | 5 (15.6) |
|  | Others are stealing from him/her | 12 (37.5) |
|  | Spouse is having an affair | 1 (3.1) |
|  | Family members plan to abandon him/her | 3 (9.4) |
| *Misidentification* | | |
| Delusions | Unwelcome guests are staying in his/her house | 4 (12.5) |
|  | His/her spouse or others are not who they claim to be | 3 (9.4) |
|  | His/her house is not his/her own | 2 (6.3) |
|  | Television/magazine figures are present in his/her home | 1 (3.1) |
| Hallucinations | He/she can hear voices | 5 (15.6) |
|  | Talks to people who are not there | 3 (9.4) |
|  | Seeing things not seen by others | 7 (21.9) |
| *Other* | | |
| Delusions | Any other unusual beliefs | 11 (34.4) |
| Hallucinations | Smells odours not smelled by others | - |
|  | Feels things on his/her skin | 3 (9.4) |
|  | Tastes without known cause | 1 (3.1) |
|  | Any other unusual sensory experiences | 4 (12.5) |
| Notes:<br>In total seven participants experienced persecutory symptoms alone, nine misidentification symptoms alone, eight had mixed persecutory and misidentification symptoms and the remaining eight had other psychosis symptoms. | | |

**eFigure 1.** Participant Selection Flow Chart



Notes:
AD = Alzheimer disease; ADNI = Alzheimer's Disease Neuroimaging Initiative; CN = cognitively normal, healthy elderly controls; GDS-15 = short form Geriatric Depression Scale; MCI = mild cognitive impairment; MRI = magnetic resonance imaging; PD = Parkinson's disease

**eTable 3.** Comparison Between Remaining Sample and Participant Excluded Due to Poor Scan Quality

| | Remaining sample (n = 728)[†] | Excluded participant (n = 1) |
|---|---|---|
| Age, mean (SD), years | 74.8 (7.4) | 82 |
| No. (%) female | 317 (43.5) | 1 (100) |
| No. (%) right handed | 673 (92.4) | 1 (100) |
| Education, mean (SD), years | 15.5 (2.9) | 14 |
| No. (%) delusions at baseline | 42 (5.8) | 0 (0) |
| No. (%) hallucinations at baseline | 24 (3.3) | 0 (0) |
| *Race* | | |
| No (%) Asian | 16 (2.2) | - |
| No (%) Black | 25 (3.4) | - |
| No. (%) White | 681 (93.5) | 1 (100) |
| No. (%) Multiple races[‡] | 6 (0.8) | - |
| *Diagnosis* | | |
| No. (%) cognitively normal | 27 (3.7) | - |
| No. (%) amnestic MCI | 315 (43.3) | 1 (100) |
| No. (%) Alzheimer disease | 386 (53.0) | - |
| *Medication* | | |
| No. (%) ChEI/Memantine | 523 (71.8) | 0 (0) |
| No. (%) antidepressant | 251 (34.5) | 1 (100) |
| No. (%) antipsychotic | 10 (1.4) | 0 (0) |
| *Screening Assessments* | | |
| NPI-Q, median (IQR), score | 2 (0 – 4) | 1 |
| MMSE, mean (SD), score | 25.1 (2.9) | 30 |
| GDS-15, median (IQR), score | 1 (1 – 2) | 4 |
| Category fluency, mean (SD), score | 14.0 (5.2) | 12 |

Notes:
MCI = mild cognitive impairment; ChEI = cholinesterase inhibitor; GDS-15 = short form Geriatric Depression Scale; MMSE = Mini Mental State Examination; NPI-Q = Neuropsychiatric Inventory Questionnaire.
[†]Whole sample n = 727 for Medication and Category fluency.
[‡] Indicates that participant self-reported as 'more than one race' when demographic details were collected by ADNI researchers.

**eTable 4.** Binary Logistic Regression Modeling to Predict Presence of Delusions at Baseline

**4a.** Binary logistic regression modeling to predict presence of delusions at baseline, with false recognition on ADAS-Cog 13 as false memory measure (n = 589)

| Covariates | Odds ratio (95% CI) | *P* Value |
|---|---|---|
| Total false recognition on ADAS-Cog 13 | 1.060 (.950, 1.183) | .298 |
| Age | 1.024 (.979, 1.070) | .309 |
| Gender | .888 (.450, 1.753) | .733 |
| Years of education | 1.060 (.937, 1.199) | .353 |
| ChEI | .983 (.427, 2.264) | .967 |
| MMSE | .864 (.756, .987) | **.032** |
| Category fluency | .950 (.884, 1.021) | .161 |

**4b.** Binary logistic regression modeling to predict presence of delusions at baseline, with false recognition on RAVLT as false memory measure (n = 588)

| Covariates | Odds ratio (95% CI) | *P* Value |
|---|---|---|
| Total false recognition on RAVLT | 1.048 (.930, 1.181) | .442 |
| Age | 1.022 (.977, 1.069) | .339 |
| Gender | .865 (.440, 1.700) | .673 |
| Years of education | 1.058 (.936, 1.196) | .365 |
| ChEI | .971 (.421, 2.235) | .944 |
| MMSE | .859 (.752, .981) | **.025** |
| Category fluency | .949 (.883, 1.019) | .149 |

Notes:
ADAS-Cog 13 = Alzheimer's Disease Assessment Scale–Cognitive Subscale, 13 item; ChEI = cholinesterase inhibitor prescription; MMSE = Mini Mental State Examination; RAVLT = Rey's Auditory Verbal Learning Test. Category fluency for animals only.

**eTable 5.** Region of Interest Analysis Model Diagnostics

| Region of Interest | ADAS-Cog 13 False Recognition Models[†] | | | | RAVLT False Recognition Models[†] | | | |
|---|---|---|---|---|---|---|---|---|
| | Model likelihood ratio, $X^2$ ($p$s < .001) | VIF, mean (SD) | Pearson residual, mean (SD) | Cook's distance[‡], mean (SD) | Model likelihood ratio, $X^2$ ($p$s ≤ .002) | VIF, mean (SD) | Pearson residual, mean (SD) | Cook's distance[‡], mean (SD) |
| L Hippocampus | 105.0 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.7) | 32.0 | 1.2 (0.2) | 0.0 (1.0) | 1.4 (3.4) |
| R Hippocampus | 88.7 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.7) | 26.1 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (3.5) |
| L Entorhinal Cortex | 83.0 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.7) | 29.3 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (3.6) |
| R Entorhinal Cortex | 78.0 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.8) | 28.6 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (3.4) |
| L Anterior Cingulate Gyrus | 69.9 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.6) | 27.0 | 1.2 (0.1) | 0.0 (1.0) | 1.5 (4.1) |
| R Anterior Cingulate Gyrus | 71.6 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.6) | 28.0 | 1.2 (0.1) | 0.0 (1.0) | 1.5 (3.9) |
| L Superior Parietal Lobule | 68.0 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.5) | 25.6 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (3.6) |
| R Superior Parietal Lobule | 66.5 | 1.2 (0.1) | 0.0 (1.0) | 1.3 (2.4) | 24.6 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (3.7) |
| *Ventral Visual Stream* | | | | | | | | |
| L Parahippocampal Gyrus | 86.3 | 1.3 (0.2) | 0.0 (1.0) | 1.4 (2.7) | 30.4 | 1.3 (0.2) | 0.0 (1.0) | 1.4 (3.5) |
| R Parahippocampal Gyrus | 72.2 | 1.3 (0.2) | 0.0 (1.0) | 1.4 (2.7) | 29.4 | 1.3 (0.2) | 0.0 (1.0) | 1.4 (3.5) |
| L Fusiform Gyrus | 79.1 | 1.3 (0.2) | 0.0 (1.0) | 1.4 (2.6) | 25.4 | 1.3 (0.2) | 0.0 (1.0) | 1.4 (3.6) |
| R Fusiform Gyrus | 72.4 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.7) | 27.5 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (3.4) |
| L Lingual Gyrus | 66.2 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.5) | 24.7 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (3.7) |
| R Lingual Gyrus | 65.1 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.5) | 25.2 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (3.4) |
| *Dorsolateral Prefrontal Cortex* | | | | | | | | |
| L Middle Frontal Gyrus | 71.4 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.5) | 25.8 | 1.2 (0.1) | 0.0 (1.0) | 1.5 (3.8) |
| R Middle Frontal Gyrus | 72.7 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.6) | 26.8 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (3.7) |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| L Superior Frontal Gyrus | 66.8 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.5) | 31.5 | 1.2 (0.1) | 0.0 (1.0) | 1.5 (4.0) |
| R Superior Frontal Gyrus | 71.2 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.6) | 28.1 | 1.2 (0.1) | 0.0 (1.0) | 1.5 (3.8) |
| *Ventrolateral Prefrontal cortex* | | | | | | | | |
| L Inferior Frontal Gyrus | 73.3 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.6) | 27.9 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (3.6) |
| R Inferior Frontal Gyrus | 67.6 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.6) | 26.1 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (3.5) |
| L Inferior Frontal Orbital Gyrus | 66.3 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.7) | 24.6 | 1.2 (0.1) | 0.0 (1.0) | 1.5 (4.0) |
| R Inferior Frontal Orbital Gyrus | 66.2 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.7) | 24.7 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (3.5) |
| L Inferior Frontal Angular Gyrus | 67.7 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.6) | 24.9 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (3.5) |
| R Inferior Frontal Angular Gyrus | 66.0 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.9) | 24.6 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (3.6) |
| *Medial Prefrontal Cortex* | | | | | | | | |
| L Superior Medial Frontal Gyrus | 72.0 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.7) | 29.2 | 1.2 (0.1) | 0.0 (1.0) | 1.5 (3.9) |
| R Superior Medial Frontal Gyrus | 71.4 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.6) | 30.0 | 1.2 (0.1) | 0.0 (1.0) | 1.5 (4.3) |
| L Medial Frontal Cerebrum | 69.1 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.7) | 27.1 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (3.7) |
| R Medial Frontal Cerebrum | 70.9 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.8) | 27.2 | 1.2 (0.1) | 0.0 (1.1) | 1.4 (3.6) |
| *Orbitofrontal Prefrontal Cortex* | | | | | | | | |
| L Lateral Orbital Gyrus | 65.7 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.5) | 24.6 | 1.2 (0.1) | 0.0 (1.0) | 1.5 (3.8) |
| R Lateral Orbital Gyrus | 65.0 | 1.2 (0.1) | 0.0 (1.0) | 1.4 (2.7) | 24.8 | 1.2 (0.1) | 0.0 (1.0) | 1.5 (4.0) |

Notes:
[†] n = 725.
[‡] x $10^{-3}$

ADAS-Cog 13 = Alzheimer's Disease Assessment Scale–Cognitive Subscale, 13 item; RAVLT = Rey's Auditory Verbal Learning Test; VIF = Variance inflation factor.

Poisson regression models include covariates: age, gender, years of education, MMSE score, cholinesterase inhibitor prescription, category fluency for animals and MRI field strength. Pearson residuals additionally visualised on scatter plots and Cook's distance on bar charts.

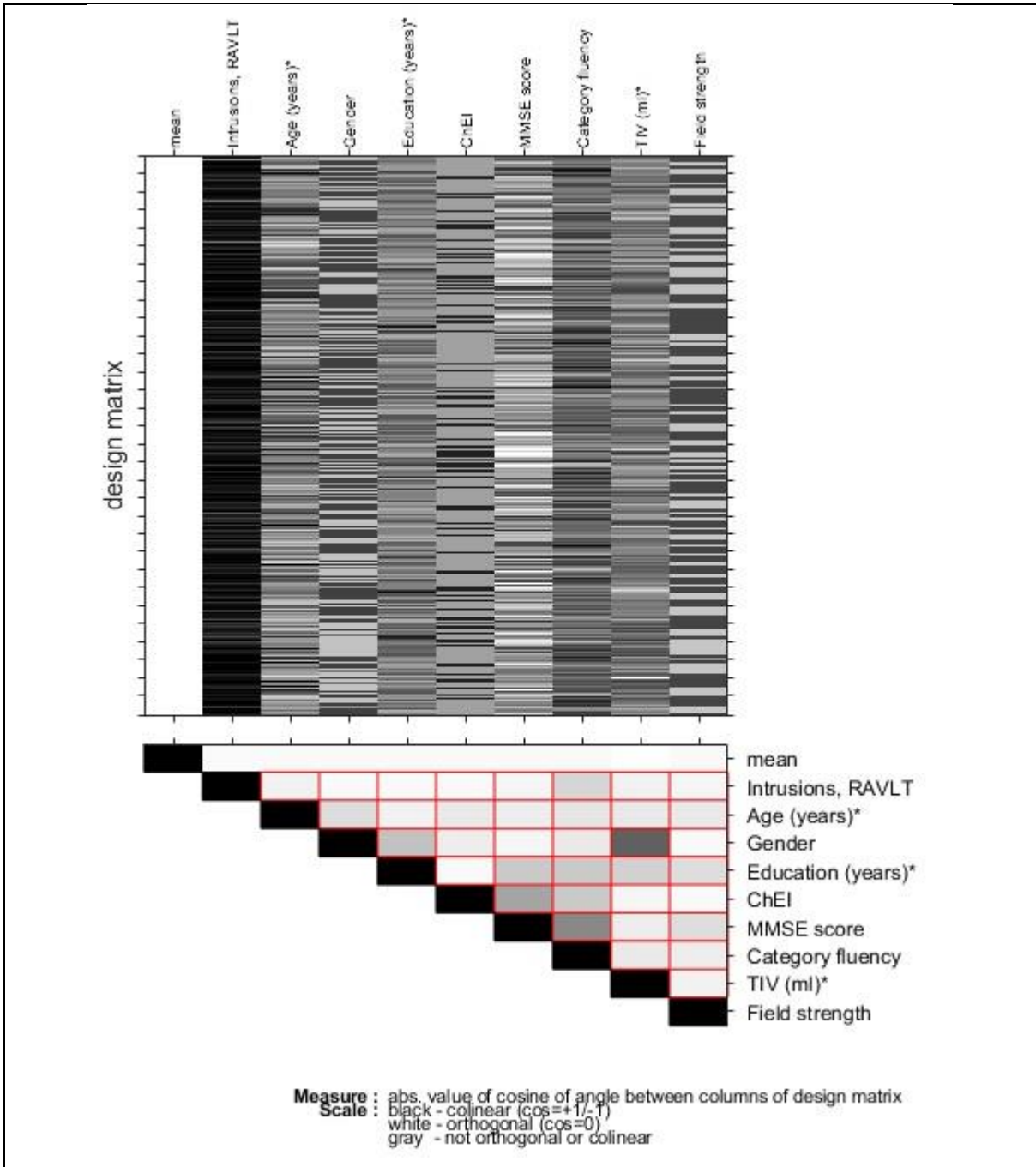**eFigure 2.** Voxel-Based Morphometry (VBM) Design Orthogonality Matrices

**2A**. VBM design orthogonality matrix: False recognition on ADAS-Cog 13
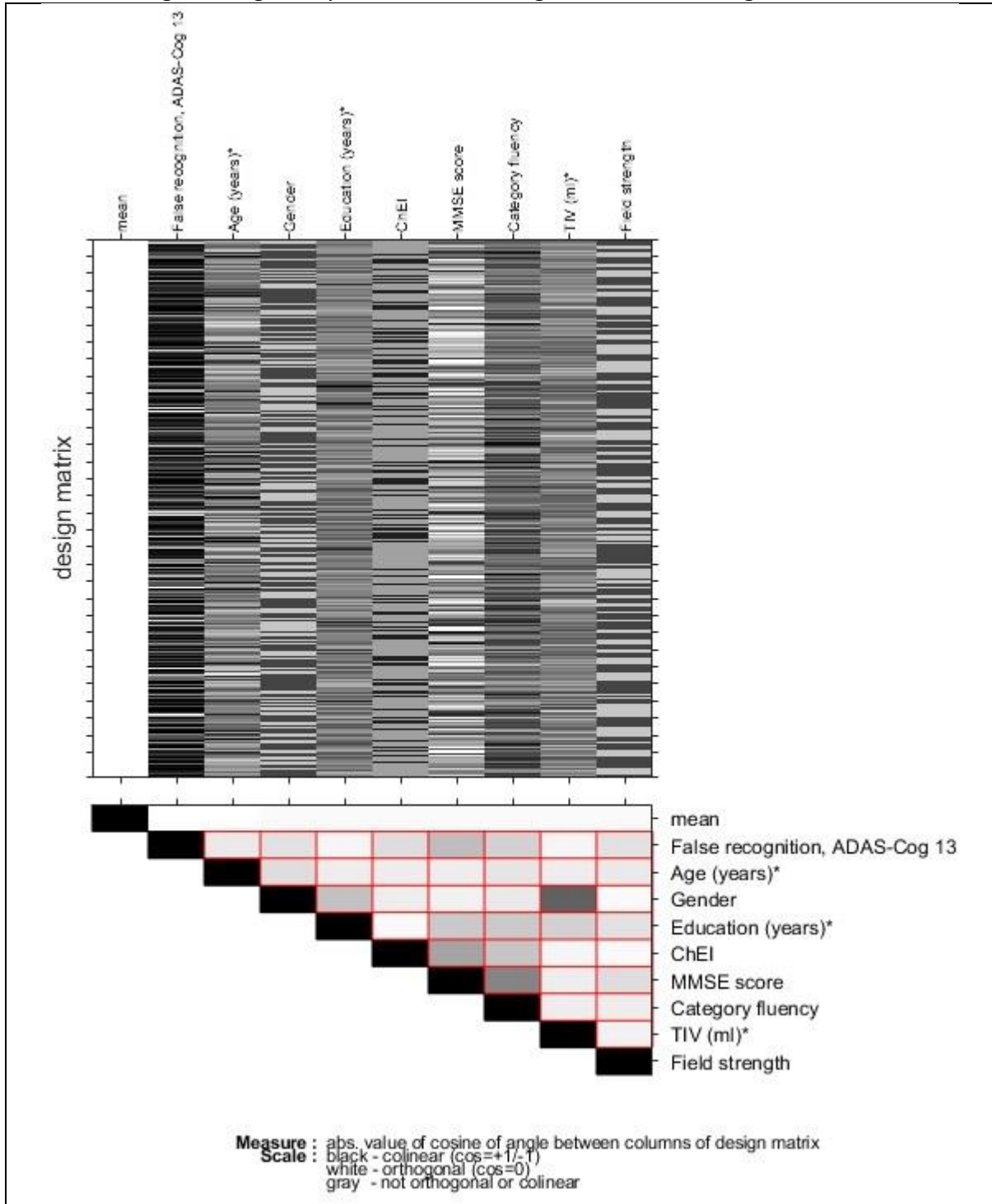
**2B.** VBM design orthogonality matrix: False recognition on RAVLT
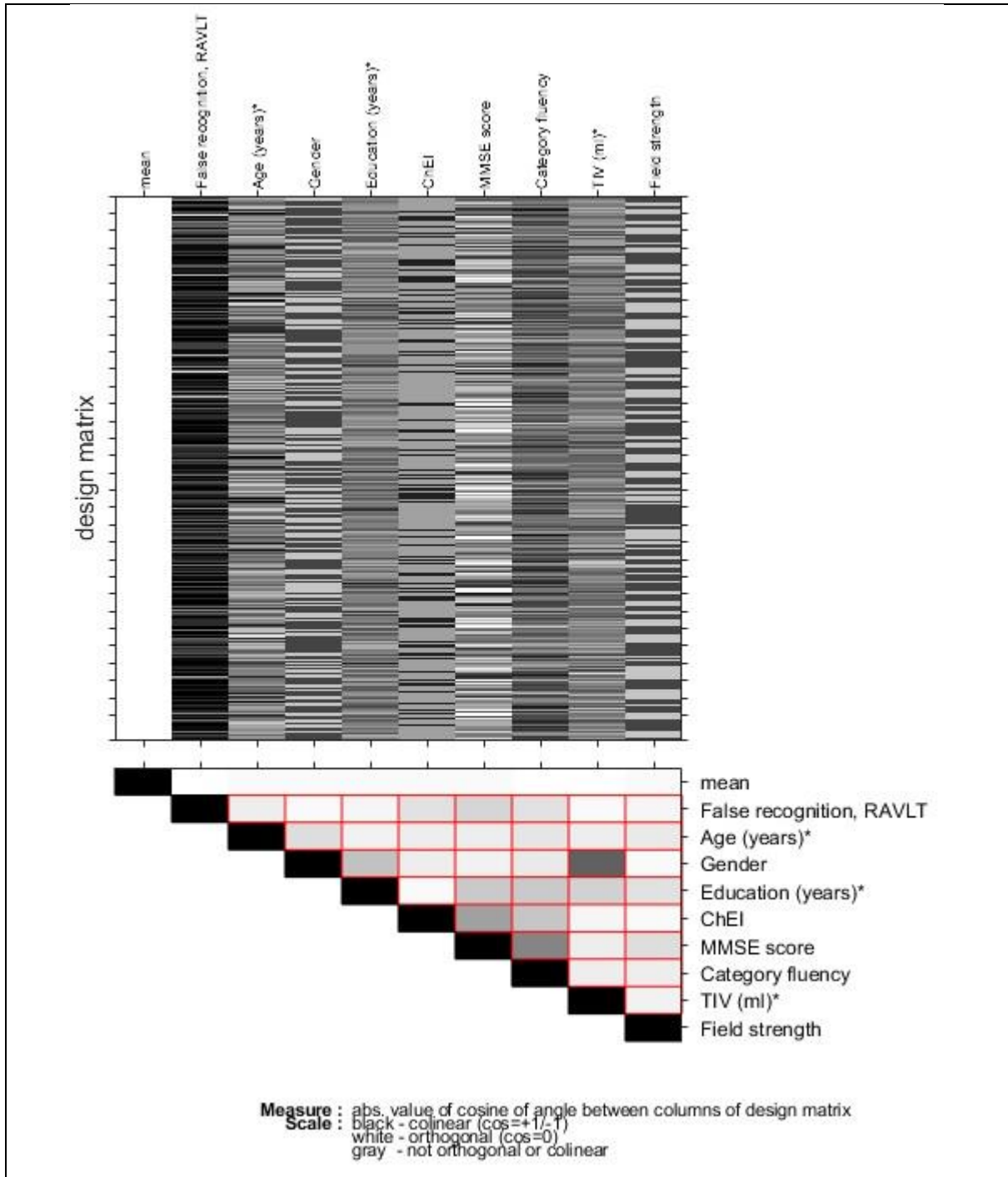
**2C.** VBM design orthogonality matrix: Intrusions on RAVLT



Notes:
* mean centered variables.
ADAS-Cog 13 = Alzheimer's Disease Assessment Scale–Cognitive Subscale, 13 item; ChEI = cholinesterase inhibitor prescription; MMSE = Mini Mental State Examination; RAVLT = Rey's Auditory Verbal Learning Test; TIV = total intracranial volume.

**eTable 6.** Comparison of Volume in Identified Regions of Interest Between Those With Delusions at Baseline and the Control Group

| Region of Interest | Control‡ (n = 549) | Delusions at baseline‡ (n = 42) | Control vs Delusions at baseline, *P* Value | Binary logistic regression models (*ps* < .05)[†] | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| | | | | One unit = % Mean ROI Volume | Odds ratio (95% CI) | *P* Value | % change baseline delusions per unit |
| L Hippocampus | 1.40 (0.27) | 1.36 (0.24) | $t_{589}$ = .869, *p* = .385 | 7.4 | 1.026 (.829, 1.180) | .717 | - |
| R Hippocampus | 1.60 (0.32) | 1.56 (0.29) | $t_{589}$ = .853, *p* = .394 | 6.6 | 1.002 (.891, 1.126) | .979 | - |
| L Entorhinal Cortex | 1.29 (0.28) | 1.32 (0.29) | $t_{589}$ = -.486, *p* = .627 | 8.1 | 1.122 (.984, 1.278) | .085 | - |
| R Entorhinal Cortex | 1.34 (0.28) | 1.35 (0.28) | $t_{589}$ = -.332, *p* = .740 | 7.8 | 1.094 (.959, 1.247) | .182 | - |
| L Anterior Cingulate Gyrus | 2.63 (0.38) | 2.55 (0.43) | $t_{589}$ = 1.302, *p* = .193 | 3.9 | .976 (.890, 1.071) | .612 | - |
| R Anterior Cingulate Gyrus | 1.99 (0.35) | 1.87 (0.39) | $t_{589}$ = 2.147, ***p* = .032** | 5.2 | .912 (.830, 1.002) | .054 | - |
| L Superior Parietal Lobule | 5.41 (0.72) | 5.56 (0.83) | $t_{589}$ = -1.325, *p* = .186 | 1.9 | 1.045 (.999, 1.093) | .054 | - |
| R Superior Parietal Lobule | 5.30 (0.69) | 5.35 (0.79) | $t_{589}$ = -.429, *p* = .668 | 1.9 | 1.019 (.971, 1.070) | .442 | - |
| *Ventral Visual Stream* | | | | | | | |
| L Parahippocampal Gyrus | 1.71 (0.29) | 1.72 (0.31) | $t_{589}$ = -.206, *p* = .837 | 6.0 | 1.083 (.945, 1.241) | .254 | - |
| R Parahippocampal Gyrus | 1.70 (0.30) | 1.75 (0.34) | $t_{589}$ = .259, *p* = .259 | 6.1 | 1.146 (1.002, 1.311) | **.047** | 14.6 |
| L Fusiform Gyrus | 4.38 (0.60) | 4.39 (0.66) | $t_{589}$ = -.186, *p* = .853 | 2.3 | § | - | - |
| R Fusiform Gyrus | 4.28 (0.58) | 4.25 (0.62) | $t_{589}$ = .343, *p* = .732 | 2.4 | 1.038 (.971, 1.109) | .278 | - |
| L Lingual Gyrus | 4.43 (0.60) | 4.45 (0.65) | $t_{589}$ = -.189, *p* = .850 | 2.3 | 1.028 (.968, 1.092) | .365 | - |
| R Lingual Gyrus | 4.66 (0.61) | 4.60 (0.64) | $t_{589}$ = .622, *p* = .534 | 2.2 | .989 (.931, 1.050) | .722 | - |
| *Dorsolateral Prefrontal Cortex* | | | | | | | |
| L Middle Frontal Gyrus | 9.78 (1.08) | 9.58 (1.29) | $t_{589}$ = 1.084, *p* = .279 | 1.0 | .991 (.961, 1.021) | .554 | - |
| R Middle Frontal Gyrus | 9.72 (1.09) | 9.53 (1.07) | $t_{589}$ = 1.092, *p* = .275 | 1.0 | .990 (.960, 1.021) | .526 | - |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| L Superior Frontal Gyrus | 7.85 (0.85) | 7.68 (0.76) | $t_{589}$ = 1.274, $p$ = .203 | 1.3 | .979 (.940, 1.020) | .320 | - |
| R Superior Frontal Gyrus | 7.88 (0.85) | 7.79 (0.83) | $t_{589}$ = 0.615, $p$ = .539 | 1.3 | .994 (.956, 1.034) | .758 | **-** |
| *Ventrolateral Prefrontal cortex* | | | | | | | |
| L Inferior Frontal Gyrus | 1.80 (0.26) | 1.78 (0.27) | $t_{589}$ = .362, $p$ = .717 | 5.7 | .999 (.876, 1.141) | .994 | - |
| R Inferior Frontal Gyrus | 1.82 (0.26) | 1.76 (0.24) | $t_{589}$ = 1.371, $p$ = .171 | 5.6 | .926 (.814, 1.054) | .245 | - |
| L Inferior Frontal Orbital Gyrus | 0.87 (0.13) | 0.88 (0.14) | $t_{589}$ = -.078, $p$ = .938 | 11.7 | 1.072 (.825, 1.393) | .601 | - |
| R Inferior Frontal Orbital Gyrus | 0.84 (0.12) | 0.84 (0.15) | $t_{589}$ = .043, $p$ = .966 | 12.1 | 1.103 (.847, 1.436) | .469 | - |
| L Inferior Frontal Angular Gyrus | 1.79 (0.26) | 1.74 (0.28) | $t_{589}$ = 1.217, $p$ = .224 | 5.7 | .926 (.810, 1.058) | .259 | - |
| R Inferior Frontal Angular Gyrus | 1.83 (0.26) | 1.78 (0.21) | $t_{589}$ = 1.116, $p$ = .265 | 5.6 | .938 (.819, 1.074) | .355 | - |
| *Medial Prefrontal Cortex* | | | | | | | |
| L Superior Medial Frontal Gyrus | 3.38 (0.39) | 3.30 (0.39) | $t_{589}$ = 1.319, $p$ = .188 | 3.0 | .966 (.884, 1.056) | .450 | - |
| R Superior Medial Frontal Gyrus | 4.11 (0.53) | 4.02 (0.56) | $t_{589}$ = .990, $p$ = .323 | 2.5 | .990 (.929, 1.055) | .763 | - |
| L Medial Frontal Cerebrum | 0.92 (0.16) | 0.88 (0.15) | $t_{589}$ = 1.395, $p$ = .164 | 11.3 | .938 (.760, 1.158) | .551 | - |
| R Medial Frontal Cerebrum | 0.97 (0.16) | 0.93 (0.17) | $t_{589}$ = 1.568, $p$ = .117 | 10.6 | .928 (.750, 1.148) | .490 | - |
| *Orbitofrontal Prefrontal Cortex* | | | | | | | |
| L Lateral Orbital Gyrus | 1.24 (0.15) | 1.22 (0.16) | $t_{589}$ = .697, $p$ = .486 | 8.2 | .966 (.776, 1.203) | .756 | - |
| R Lateral Orbital Gyrus | 1.32 (0.16) | 1.29 (0.16) | $t_{589}$ = 1.288, $p$ = .198 | 7.7 | .921 (.742, 1.143) | .455 | - |

Notes:
[†] n = 589.
[‡] All measures are mean brain volume for specified region of interest, as proportion of total intracranial volume, at baseline x $10^{-3}$. Expressed as mean (SD).
Models included covariates: age, gender, years of education, cholinesterase inhibitor prescription, MMSE score, category fluency for animals and MRI field strength.
Model fit assessed by Hosmer and Lemeshow test, all $p$s > .05 indicating acceptable model fit except where indicated.
[§] Hosmer and Lemeshow test $p$ < .05, did not proceed to model interpretation.
No $p$ values remained significant after Bonferroni correction.