

Supplementary Online Content

Grill JD, Raman R, Ernstrom K, et al; for the A4 Study Team. Short-term psychological outcomes of disclosing amyloid imaging results to research participants who do not have cognitive impairment. *JAMA Neurol*. Published online August 10, 2020. doi:10.1001/jamaneurol.2020.2734

eTable 1. Multivariable assessments of visit 1 scores on psychological scales.

eTable 2. Raw psychological scale data.

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

| eTable 1. Multivariable assessments of visit 1 scores on psychological scales. | | | | | | | | |
|---|-----------------|-------------------|------------------|-----------------|-----------------|-------------------|------------------|-----------------|
| | GDS | | | | STAI | | | |
| | Estimate | Std. error | Statistic | p-value* | Estimate | Std. error | Statistic | p-value* |
| (intercept) | 669.4 | 164.3 | 4.07 | <0.0001 | 765.7 | 181.9 | 4.21 | <0.0001 |
| Group (Elevated amyloid) | -2.4 | 23.0 | -0.10 | 0.92 | -8.8 | 25.4 | -0.35 | 0.73 |
| Age | 0.24 | 2.3 | 0.11 | 0.92 | -0.02 | 2.5 | -0.01 | 0.99 |
| CFI | 74.4 | 5.0 | 15.18 | <0.0001 | 46.4 | 5.6 | 8.33 | <0.0001 |
| Sex (Male) | 25.9 | 21.5 | 1.20 | 0.23 | -102.9 | 23.8 | -4.32 | <0.0001 |
| Family history (Yes) | -12.3 | 23.8 | -0.52 | 0.61 | 47.6 | 26.3 | 1.81 | 0.07 |

*Based on a rank regression analysis with visit 1 GDS score as the dependent variable and amyloid group as the independent variable of interest, adjusting for age, screening CFI score, APOE and family history of dementia.

** Models could not be run for CSSRS due to infrequent scores >0.

| eTable 2. Post-disclosure safety results | | | | |
|---|--------------------------|-------------------------|-----------------------------|----------------|
| Outcome | | Elevated amyloid | Not elevated amyloid | p-value |
| CSSRS | N | 1155 | 534 | |
| | Mean change (SD) [Range] | -0.01 (0.5) [-9, 6] | 0.0 (0.4) [-5,6] | 0.67 |
| | Increase >0, n (%) | 8 (0.7) | 4 (0.8) | 0.99 |
| GDS | N | 1165 | 536 | |
| | Mean change (SD) [Range] | 0.04 (1.3) [-8, 8] | 0.02 (1.3) [-7, 8] | 0.87 |
| | Increase to >6, n (%) | 10 (0.9) | 5 (0.9) | 0.99 |
| STAI | N | 1165 | 535 | |
| | Mean change (SD) [Range] | -0.15 (3.0) [-15, 12] | -0.02 (3.2) [-14, 11] | 0.46 |
| | Increase to >17, n (%) | 17 (1.5) | 10 (1.9) | 0.54 |
| IES | N | 1157 | 512 | |
| | Median (IQR) [Range] | 7.0 (1,16) [0, 54] | 3.0 (0,9) [0,44] | <0.001 |
| | 0, n (0%) | 198 (17.1) | 149 (29.1) | <0.001 |
| | 1-8, n (%) | 438 (37.9) | 228 (44.5) | |
| | 9-25, n (%) | 407 (35.3) | 119 (23.2) | |
| >25, n (%) | 114 (9.8) | 16 (3.1) | | |

Note: Two sample t-tests for continuous variables and Fisher tests for categorical variables were used to compare the two groups post-disclosure.