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| **Table e-1. Baseline Characteristics1 of Subset with Neuropsychological Testing** |
|  | **APOE-ϵ4 Carrier Status** |  |
|  | **ϵ4 carriers** | **Non-ϵ4 carriers** |  |
| **N** | **Subjects (n=134)** | **Subjects (n=435)** | ***p* Valuea** |
| **Infectious burden (IB index)** | **1.00 ± 0.33** | **1.00 ± 0.34** | **0.995** |
| **HSV-1** | 116 (87%) | 378 (87%) | 0.922 |
| **HSV-2** | 85 (63%) | 265 (61%) | 0.601 |
| ***H. pylori*** | 79 (59%) | 236 (54%) | 0.338 |
| ***C. pneumoniae*** | 91 (68%) | 267 (61%) | 0.171 |
| **Cytomegalovirus** | 110 (82%) | 368 (85%) | 0.489 |
| **Sociodemographic risk factors** |  |  |  |
| **Ageb, y** | 70.80 ± 8.09 | 71.17 ± 8.01 | 0.641 |
| **Ageb ≥ 70 y** | 63 (47%) | 218 (50%) |  |
| **Female sex** | 76 (57%) | 277 (64%) | 0.147 |
| **Male sex** | 58 (43%) | 158 (36%) |  |
| **Non-Hispanic white** | 12 (9%) | 65 (15%) | 0.017 |
| **Non-Hispanic black** | 31 (23%) | 59 (14%) |   |
| **Hispanic** | 86 (64%) | 302 (69%) |   |
| **Other** | 5 (4%) | 9 (2%) |  |
| **Educationc (< high school)** | 83 (62%) | 254 (58%) | 0.465 |
| **Medicaid or no** **insurance** | 70 (52%) | 223 (51%) | 0.844 |
| **Medicare or private** **insurance** | 64 (48%) | 212 (49%) |  |
| **Vascular risk factors** |  |  |  |
| **Physical activity** | 71 (53%) | 236 (54%) | 0.797 |
| **Hypertension** | 89 (66%) | 299 (69%) | 0.614 |
| **Diabetes mellitus** | 20 (15%) | 78 (18%) | 0.420 |
| **Hypercholesterolemia** | 91 (68%) | 279 (64%) | 0.423 |
| **Neuropsychological test domain Z-scores** |  |  |  |
|  **Memory (n=563)** | -0.21 ± 1.01 | 0.00 ± 0.84 | 0.020 |
|  **Language (n=569)** | -0.10 ± 0.92 | -0.08 ± 0.81 | 0.841 |
|  **Processing speed  (n=559)** | -0.09 ± 0.92 | -0.06 ± 0.90 | 0.716 |
|  **Executive function  (n=556)** | -0.13 ± 0.89 | -0.06 ± 0.87 | 0.390 |
|  |  |  |  |
| Abbreviations: IB = infectious burden; HSV-1 = Herpes simplex virus 1; HSV-2 = Herpes simplex virus 2; *H. pylori* = *Helicobacter pylori*; *C. pneumoniae* = *Chlamydia pneumoniae*1 Values are mean ± SD, n(%), or median (IQR)a Chi-Squared test / Student's t-testb Age at neuropsych testingc Educational attainment evaluated at time of neuropsychological testing |

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| **Table e-2. Comparison of Participant Subsets1** |
|  | **APOE-ϵ4 Carrier Status** |  |
|  | **Neuropsych Subset** | **No Neuropsych Subset** | ***p* Valuea** |
| **N** | **Subjects (n=569)** | **Subjects (n=408)** |  |
| **APOE ϵ4 Status** | **134 (24%)** | **119 (29%)** | 0.048 |
| **Infectious burden (IB index)** | **1.00 ± 0.34** | **0.97 ± 0.35** | 0.268 |
| **HSV-1** | 494 (87%) | 338 (83%) | 0.085 |
| **HSV-2** | 350 (62%) | 207 (51%) | 0.001 |
| ***H. pylori*** | 315 (55%) | 208 (51%) | 0.176 |
| ***C. pneumoniae*** | 358 (63%) | 276 (68%) | 0.127 |
| **Cytomegalovirus** | 478 (84%) | 335 (82%) | 0.433 |
| **Sociodemographic risk factors** |  |  |  |
| **Age, y** | 64.48 ± 7.97 | 72.42 ± 10.12 | <0.001 |
| **Female sex** | 353 (62%) | 280 (69%) | 0.033 |
| **Non-Hispanic white** | 77 (14%) | 114 (28%) | <0.001 |
| **Non-Hispanic black** | 90 (16%) | 117 (29%) |  |
| **Hispanic** | 388 (68%) | 162 (40%) |  |
| **Other** | 14 (2%) | 15 (4%) |  |
| **Education (< high** **school)** | 326 (57%) | 197 (48%) | 0.005 |
| **Medicaid or no** **insurance** | 293 (51%) | 163 (40%) | <0.001 |
| **Vascular risk factors** |  |  |  |
| **Physical activity** | 307 (54%) | 230 (56%) | 0.454 |
| **Hypertension** | 388 (68%) | 306 (75%) | 0.021 |
| **Diabetes mellitus** | 98 (17%) | 87 (21%) | 0.107 |
| **Hypercholesterolemia** | 370 (65%) | 256 (63%) | 0.464 |
| Abbreviations: IB = infectious burden; HSV-1 = Herpes simplex virus 1; HSV-2 = Herpes simplex virus 2; *H. pylori* = *Helicobacter pylori;* *C. pneumoniae* = *Chlamydia pneumoniae*1 Values are mean ± SD or n(%)a Chi-Squared test / Student's t-test |