**Table S1**

*Comparison of Included Versus Excluded Participants on Available Demographic and Clinical Data Collected at Study Entry*

|  |  |  |  |
| --- | --- | --- | --- |
| **Variable** | **Included (n = 349)** | **Excluded (n = 226)** | **Test statistic, p-value** |
| Age, mean (SD) | 39.8 (11.9) | 41.1 (11.7) | t = 1.20, p = .230 |
| Education, mean (SD) | 12.0 (3.2) | 11.2 (3.1) | t = -2.63, p = .009 |
| Gender (man)a , % (n) | 239 (68.4%) | 155 (71.8%) | X = 0.53, p = .465 |
| Ethnicity, % (n)  White (vs. all other categoriesb)  Black (vs. all other categoriesc) | 124 (35.5%)  123 (35.2%) | 70 (31.0%)  67 (29.6%) | X = 1.08, p = .299  X = 1.70, p = .193 |
| Study intervention (HF), % (n) | 198 (56.7%) | 103 (45.6%) | X = 6.41, p = .011 |
| Lifetime homelessness 3 years, % (n) | 185 (53.0%) | 112 (49.6%) | X = 0.0, p = 1.0 |
| CMC, mean (SD) | 3.7 (3.1) | 3.6 (3.1) | t = -0.26, p = .792 |
| CD-RISC2, mean (SD) | 5.2 (1.8) | 4.9 (2.2) | t = -1.45, p = .149 |
| Psychiatric diagnosis, % (n)  Major depression  Any psychosis  Alcohol abuse or dependence  Substance abuse or dependence | 133 (38.1%)  183 (52.4%)  159 (45.6%)  176 (50.4%) | 73 (32.3%)  136 (60.2%)  85 (37.6%)  92 (40.7%) | X = 1.77, p = .184  X = 3.02, p = .082  X = 3.23, p = .072  X = 4.83, p = .028 |

*Note.* HF = housing first; CMC = chronic medical comorbidities; CD-RISC2 = Connor-Davidson Resilience Scale-2.

aExcluded subgroup n = 216 due to removal of 10 transgendered participants; bother = Black, Indigenous, mixed, Asian, other, or not reported; cother = White, Indigenous, mixed, Asian, other, or not reported.

**Table S2**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. | 12. | 13. | 14. |
| 1. LM factor | --- | .466 | -.121 | .206 | .135 | .000 | .168 | .044 | -.151 | .166 | -.005 | -.091 | .058 | -.023 |
| 2. PSCF factor |  | --- | -.242 | .202 | .072 | .041 | .113 | .090 | -.165 | .209 | -.021 | -.206 | .056 | .027 |
| 3. Age (years) |  |  | --- | -.084 | .101 | .059 | -.186 | -.110 | -.017 | .020 | .071 | .150 | -.136 | .047 |
| 4. Gendera |  |  |  | --- | .088 | n/a | n/a | .074 | n/a | n/a | n/a | n/a | -.043 | -.042 |
| 5. Education (years) |  |  |  |  | --- | .068 | .219 | -.171 | .010 | -.014 | .171 | .215 | -.136 | .052 |
| 6. Study interventionb |  |  |  |  |  | --- | n/a | -.033 | n/a | n/a | n/a | n/a | .010 | -.049 |
| 7. Lifetime homelessness |  |  |  |  |  |  | --- | -.200 | n/a | n/a | n/a | n/a | -.180 | .111 |
| 8. ACE total score |  |  |  |  |  |  |  | --- | n/a | n/a | -.224 | -.305 | .239 | -.108 |
| 9. Major depressionc |  |  |  |  |  |  |  |  | --- | n/a | n/a | n/a | -.113 | .080 |
| 10. Psychotic disorderc |  |  |  |  |  |  |  |  |  | --- | n/a | n/a | .096 | .061 |
| 11. Alcohol abuse/dependencec |  |  |  |  |  |  |  |  |  |  | --- | n/a | -.086 | .039 |
| 12. Substance abuse/dependencec |  |  |  |  |  |  |  |  |  |  |  | --- | -.152 | .128 |
| 13. CMC total score |  |  |  |  |  |  |  |  |  |  |  |  | --- | -.179 |
| 14. CD-RISC2 total score |  |  |  |  |  |  |  |  |  |  |  |  |  | --- |

*Pearson and Point Biserial Correlations Between Predictor Variables Included in the Final Adjusted Models.*

Note. Correlations are only reported for where at least one variable is continuous. LM and PSCF factor scores at initial evaluation. LM = learning and memory; PSCF = processing speed and cognitive flexibility; ACE = adverse childhood experience; CMC = chronic medical comorbidities; CD-RISC2 = Connor-Davidson Resilience Scale-2; n/a = not applicable.

aReference level = man; bReference level = treatment as usual; cReference level = diagnosis absent

**Table S3**

*Linear Mixed Effect Models Describing Cognitive and Functional Trajectories Over 6 years.*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Learning and memory model (N = 339) | | Processing speed and cognitive flexibility model (N = 336) | | Community functioning model (N = 340) | | Quality of life model  (N = 340) | |
| Variable | Estimate (SE) | p-value | Estimate (SE) | p-value | Estimate (SE) | p-value | Estimate (SE) | p-value |
| Time | .087 (.010) | <.001 | .103 (.027) | <.001 | -.230 (.104) | .028 | .763 (.246) | .002 |
| Age  Age\*Time | -.007 (.004)  --- | .041  --- | -.018 (.004)  -.002 (.001) | <.001  .011 | -.008 (.026)  --- | .750  --- | -.020 (.081) | .807 |
| Gender (man) | -.311 (.088) | <.001 | -.149 (.078) | .058 | -1.60 (.653) | .015 | -3.76 (2.06) | .068 |
| Education | .039 (.013) | .003 | .023 (.012) | .048 | .322 (.096) | .001 | .117 (.230) | .698 |
| Study intervention (HF) | -.048 (.082) | .562 | -.027 (.074) | .718 | 1.26 (.614) | .041 | 3.86 (1.93) | .046 |
| Model AIC | 2448.10 | | 1540.46 | | 8233.08 | | 10233.79 | |
| Number of observations | 1079 | | 984 | | 1218 | | 1205 | |

Note. HF = Housing First; AIC = Aikaike Information Criterion.

**Supplementary Figure Captions**

**Figure S1.** Change in (A) learning and memory and (B) processing speed-cognitive flexibility performance over time (in years). Individual linear trajectories (light grey slopes) represent fitted values from linear mixed effects models and the bold black line represents the average fitted trajectory for the sample with a 95% confidence interval (dark grey shading).

**Figure S2.** Change in (A) community functioning and (B) subjective quality of life over time (in years). Individual linear trajectories (light grey slopes) represent fitted values from linear mixed effects models and the bold black line represents the average fitted trajectory for the sample with a 95% confidence interval (dark grey shading).