**Supplementary Online Content**

Kessler RC, Duncan GJ, Gennetian LA, Katz LF, Kling JR, Sampson NA, Sanbonmatsu L, Zaslavsky AM, Ludwig J. Associations of housing mobility interventions for children in high poverty neighborhoods with subsequent mental disorders during adolescence. *JAMA*

**eTable1.** Statistical power to detect odds-ratios of 2.0 between the MTO interventions and 12-month DSM-IV/CIDI disorders among long-term evaluation sample adolescent respondents using .05-level two-sided MI tests

**eTable 2.** Baseline characteristics of respondents versus non-respondents in the MTO long-term evaluation adolescent sample

**eTable3.** Twelve-month prevalence of DSM-IV/CIDI disorders among MTO adolescents by gender in the MTO long-term evaluation

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| **eTable 1. Statistical power to detect odds-ratios of 2.0 between the MTO interventions and 12-month DSM-IV/CIDI disorders among long-term evaluation sample adolescent respondents using .05-level two-sided MI tests** | | | |
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|  | **Low-poverty Voucher Group vs control** | **Traditional Voucher Group vs control** | **Either Intervention vs control** |
| **I. Statistical Power** |  |  |  |
| Major depressive disorder | 0.98 | 0.96 | 0.99 |
| Bipolar disorder | 0.61 | 0.53 | 0.75 |
| Panic disorder | 0.88 | 0.81 | 0.96 |
| Post-traumatic stress disorder | 0.93 | 0.88 | 0.98 |
| Oppositional-defiant disorder | 0.98 | 0.95 | 0.99 |
| Intermittent explosive disorder | 0.99 | 0.99 | 0.99 |
| Conduct Disorder | 0.86 | 0.79 | 0.95 |
| **II. Minimum odds-ratio that could be detected with 0.80 power** | | | |
| Major depressive disorder | 1.55 | 1.59 | 1.45 |
| Bipolar disorder | 2.18 | 2.29 | 2.08 |
| Panic disorder | 1.75 | 1.82 | 1.60 |
| Post-traumatic stress disorder | 1.66 | 1.72 | 1.53 |
| Oppositional-defiant disorder | 1.55 | 1.60 | 1.45 |
| Intermittent explosive disorder | 1.38 | 1.41 | 1.41 |
| Conduct Disorder | 1.78 | 1.85 | 1.62 |
|  |  |  |  |

Abbreviations: MTO, Moving to Opportunity; DSM, Diagnostic and Statistical Manual of Mental Disorders, Fourth

Edition; CIDI, Composite International Diagnostic Interview; MI, Multiply Imputed.

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| **eTable 2. Baseline characteristics of respondents versus non-respondents in the MTO long-term evaluation adolescent samplea** | | | | | | | | | | | | | |
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|  | **Respondents (n=2,872)** | | | | |  | **Non-respondents (n=174)b** | | | | |  |  |
|  | **n** | **%** | | | **(95% CI)** |  | **n** | **%** | | **(95% CI)** | |  | ***P* value** |
| **I. Respondent characteristics** |  |  | | |  |  |  |  | |  | |  |  |
| Sex |  |  | | |  |  |  |  | |  | |  |  |
| Male | 1407 | 49.6 | | | (47.4-51.7) |  | 109 | 61.6 | | (52.7-70.4) | |  | 0.007 |
| Age at baselinec |  |  | | |  |  |  |  | |  | |  |  |
| 0-5 (%) | 2421 | 83.9 | | | (80.2-87.6) |  | 139 | 78.7 | | (69.3-88.2) | |  | 0.25 |
| Mean | -- | 3.6 | | | (3.4-3.9) |  | -- | 3.9 | | (3.5-4.2) | |  | 0.13 |
| Median (Range) | -- | 4.0 | | | (0-8) |  | -- | 4.0 | | (0-8) | |  | -- |
| Required special medicine/equipment | 239 | 8.0 | | | (6.7-9.2) |  | 32 | 12.9 | | (8.4-17.5) | |  | 0.05 |
| Race/ethnicity (%) |  |  | | |  |  |  |  | |  | |  |  |
| Hispanic (any race) | 910 | 30.7 | | | (23.4-38) |  | 61 | 37.8 | | (28.7-46.9) | |  | 0.13 |
| White (Non-Hispanic) | 59 | 2.2 | | | (0.5-3.9) |  | 6 | 3.4 | | (-0.6-7.5) | |  | 0.41 |
| African-American (Non-Hispanic) | 1826 | 64.5 | | | (55.9-73.1) |  | 92 | 51.8 | | (42.4-61.3) | |  | 0.00 |
| Other race (Non-Hispanic) | 77 | 2.6 | | | (1.3-3.9) |  | 14 | 6.9 | | (2.6-11.3) | |  | 0.04 |
| **II. Baseline characteristics of the sample adult** |  |  | | |  |  |  |  | |  | |  |  |
| High school diploma (% yes) | 1031 | 34.6 | | | (31.6-37.5) |  | 67 | 39.0 | | (29.5-48.4) | |  | 0.41 |
| Currently in school (% yes) | 504 | 18.3 | | | (16.0-20.5) |  | 44 | 25.9 | | (15.7-36.1) | |  | 0.15 |
| Employed (% yes) | 640 | 21.6 | | | (19.3-23.9) |  | 31 | 18.3 | | (11.6-25.1) | |  | 0.37 |
| Never married (% yes) | 1961 | 68.4 | | | (64.2-72.6) |  | 108 | 62.4 | | (52.5-72.2) | |  | 0.22 |
| Younger than 18 at birth of first child (% yes) | 832 | 29.3 | | | (25.2-33.4) |  | 41 | 22.9 | | (13.1-32.8) | |  | 0.19 |
| Single mother (% yes) | 2524 | 88.2 | | | (85.6-90.7) |  | 157 | 89.6 | | (84.3-94.9) | |  | 0.61 |
| **III. Baseline household characteristics** |  |  | | |  |  |  |  | |  | |  |  |
| Income (%) |  |  | | |  |  |  |  | |  | |  |  |
| <$7,000 | 502 | 17.3 | | | (12.2-22.5) |  | 27 | 16.5 | | (7.4-25.5) | |  | 0.83 |
| $7,001-9,000 | 527 | 19.1 | | | (16.7-21.4) |  | 22 | 14.8 | | (5.9-23.7) | |  | 0.36 |
| $9,001-12,000 | 712 | 24.3 | | | (20.5-28.0) |  | 49 | 28.5 | | (20.0-37.1) | |  | 0.36 |
| $12,001-17,000 | 569 | 19.5 | | | (17.2-21.8) |  | 43 | 23.6 | | (15.0-32.1) | |  | 0.34 |
| $17,001+ | 562 | 19.8 | | | (17.3-22.3) |  | 32 | 16.6 | | (9.2-24.1) | |  | 0.37 |
| Receives AFDC (% yes) | 2350 | 82.4 | | | (79.8-84.9) |  | 141 | 79.9 | | (72.3-87.5) | |  | 0.53 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Household size (%) |  |  |  |  |  |  |  |  |  |
| 1-2 | 288 | 9.6 | (7.9-11.2) |  | 17 | 10.0 | (4.6-15.4) |  | 0.87 |
| 3 | 758 | 25.3 | (22.5-28.1) |  | 54 | 27.9 | (19.7-36.1) |  | 0.55 |
| 4 | 765 | 25.4 | (23.3-27.5) |  | 44 | 25.6 | (15.6-35.6) |  | 0.96 |
| 5+ | 1061 | 39.7 | (36.5-43.0) |  | 59 | 36.5 | (26.6-46.3) |  | 0.50 |
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| **eTable 2. Baseline characteristics of respondents versus non-respondents in the MTO long-term evaluation adolescent samplea (continued)** | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |
|  | **Respondents (n=2,872)** | | |  | **Non-respondents (n=174)b** | | |  |  |
|  | **n** | **%** | **(95% CI)** |  | **n** | **%** | **(95% CI)** |  | ***P* value** |
| **IV. Baseline neighborhood characteristics** |  |  |  |  |  |  |  |  |  |
| Family member victimized past 6 months (% yes) | 1195 | 42.4 | (39.1-45.8) |  | 65 | 37.4 | (25.6-49.2) |  | 0.39 |
| Lived in neighborhood 5 or more years (% yes) | 1557 | 53.5 | (50.3-56.8) |  | 93 | 53.2 | (42.6-63.9) |  | 0.95 |
| Moved more than 3 times in the 5 years (% yes) | 317 | 11.6 | (10.1-13.2) |  | 13 | 8.0 | (2.4-13.6) |  | 0.23 |
| Family in neighborhood (% yes) | 1082 | 37.1 | (32.4-41.7) |  | 51 | 25.7 | (19.0-32.5) |  | 0.01 |
| Mean poverty rate in census tractd | -- | 54.1 | (49.8-58.5) |  | -- | 52.9 | (48.5-57.3) |  | 0.45 |
| **V. City (%)** |  |  |  |  |  |  |  |  |  |
| Baltimore | 343 | 12.3 | (3.7-20.9) |  | 17 | 7.9 | (2.3-13.4) |  | 0.12 |
| Boston | 567 | 18.5 | (9.8-27.2) |  | 45 | 24.7 | (14.3-35.2) |  | 0.10 |
| Chicago | 664 | 24.4 | (10.1-38.7) |  | 26 | 18.0 | (7.7-28.2) |  | 0.15 |
| Los Angeles | 688 | 23.1 | (10.2-35.9) |  | 43 | 26.2 | (12.1-40.3) |  | 0.49 |
| New York City | 610 | 21.7 | (13.7-29.7) |  | 43 | 23.2 | (15.4-31.1) |  | 0.69 |
|  |  |  |  |  |  |  |  |  |  |

Abbreviation: MTO, Moving to Opportunity; AFDC, Aid to Families with Dependent Children.

aBased on weighted data for respondents that included a weight to adjust for under-sampling of youths in large-baseline households for follow-up prior to beginning the long-term evaluation survey and under-sampling hard-to-reach targeted youths after completing the first phase of the survey. See the figure for details.

bNon-respondents include those selected for interview, but not interviewed. They do not include participants excluded due to more than 3 family members or randomly excluded from phase 2. See figure 1.

cAge at long-term follow-up interview had a median age of 16 and range of 13-19.

dThe mean poverty rate in census tract is the fraction of residents living below the poverty threshold in the household's baseline census tract.  The poverty rate is linearly interpolated from the 1990 and 2000 decennial censuses.  See <http://www.census.gov/hhes/www/poverty/about/overview/measure.html> for information on how the Census Bureau defines the poverty threshold.

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| **eTable 3. Twelve-month prevalence of DSM-IV/CIDI disorders among MTO adolescents by gender in the MTO long-term evaluation** | | | | | | | | | | | | | | | |
|  |  |  |  |  |  |  |  | | |  |  |  | | |  |
|  | **Total** | | | |  | **Boys** | | | |  | **Girls** | | | | **Significance Test Boys vs Girlsc** |
|  | **n1a** | **n2b** | **%** | **(95% CI)** |  | **n1a** | **n2b** | **%** | **(95% CI)** |  | **n1a** | **n2b** | **%** | **(95% CI)** | ***P* value** |
| **I. Mood disorders** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Major Depressive disorder | 135 | 247.9 | 6.7 | (5.5-7.8) |  | 50 | 104.9 | 5.5 | (4.1-7.0) |  | 85 | 143.1 | 7.9 | (6.4-9.4) | 0.02 |
| **II. Anxiety disorders** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Panic disorder | 75 | 153.9 | 3.9 | (3.2-4.6) |  | 38 | 80.3 | 4.1 | (3.0-5.2) |  | 37 | 73.6 | 3.7 | (2.8-4.6) | 0.53 |
| Post-traumatic stress disorder | 134 | 206.6 | 5.5 | (4.6-6.4) |  | 49 | 80.6 | 4.4 | (3.2-5.6) |  | 85 | 126.0 | 6.6 | (5.2-7.9) | 0.01 |
| **III. Disruptive behavior disorders** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Oppositional-defiant disorder | 206 | 284.0 | 7.6 | (6.5-8.7) |  | 92 | 127.2 | 6.8 | (5.4-8.3) |  | 114 | 156.8 | 8.4 | (6.8-9.9) | 0.12 |
| Intermittent explosive disorder | 407 | 559.0 | 15.1 | (13.6-16.7) |  | 189 | 266.4 | 14.2 | (12.1-16.4) |  | 218 | 292.6 | 16.0 | (14.1-18.0) | 0.20 |
| Conduct disorder | 83 | 104.2 | 3.0 | (2.2-3.7) |  | 60 | 75.3 | 4.3 | (3.2-5.5) |  | 23 | 28.9 | 1.6 | (0.9-2.2) | <.001 |
| (n) | (3671) | | | |  | (1850) | | | |  | (1821) | | | |  |
|  |  |  |  |  |  |  |  | | |  |  |  | | |  |
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Abbreviations: MTO, Moving to Opportunity; DSM, Diagnostic and Statistical Manual of Mental Disorders, Fourth Edition; CIDI, Composite International Diagnostic Interview.

aObserved number of youths with the disorder in the total sample of youths who participated in the long-term follow-up survey.

bMean number of youths with the disorder across the 20 multiply imputed pseudo-samples