

Registry of Efficacy and Effectiveness Studies

Study Title:

Baby's First Years (BFY). The official title is: Household Income and Child Development in the First Three Years of Life

Registry ID: 1405.1v3

Version History

Changes were published on July 13, 2020 1:01:39 PM EDT

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Description of changes published:

As of this revision of the registration (7/8/2020), we have completed age 1 data collection. We expect to begin to collect age 2 data in mid-July 2020. With the exception of two age-3 outcomes, all changes included in this updated pre-registration publication relate to the age 2 data collection, and all decisions about these changes were made prior to the beginning of the age 2 data collection. The changes are in four broad categories: new measures (e.g., child nutrition and child epigenetics); substitute measures (e.g., substituting the MCDI for the MCDI short-form); additional individual items to existing pre-registered indices (e.g., adding an item about air conditioning to the existing housing quality index); and deletions (e.g., maternal substance abuse). All of the age-2 changes are to secondary hypotheses. The additional age-3 outcomes relates to a primary hypothesis.

Changes were published on June 20, 2019 1:43:40 PM EDT

[Review this version.](#)

Description of changes published:

A few details changed with regard to outcome measures made prior to the collection of outcome data (June 2019).

The first version of this entry was published on August 10, 2018 3:59:22 PM EDT

[Review this version.](#)

Section I: General Study Information

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-

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Study Start Date:

2017-09-15

Study End Date:

2022-07-31

Intervention Start Date:

2018-05-09

Timing of entry:

Prior to collection of outcome data

Brief Abstract:

Recent advances in developmental neuroscience suggest that experiences early in life have profound and enduring influences on the developing brain. Family economic resources shape the nature of many of these experiences, yet the extent to which they affect children's development is unknown. Our team of neuroscientists, economists and developmental psychologists proposes to fill important gaps in scientific knowledge about the role of economic resources in early development by evaluating the first randomized controlled trial to determine whether unconditional cash payments have a causal effect on the cognitive, socioemotional and brain development of infants and toddlers in low-income U.S. families. Specifically, 1,000 mothers of infants with incomes below the federal poverty line from four diverse U.S. communities will receive monthly cash gift payments by debit card for the first 40 months of the child's

life. Parents in the experimental group will receive \$333 per month (\$4,000 per year), whereas parents in the active comparator group will receive a nominal monthly payment of \$20. In order to understand the impacts of the added income on children's cognitive and behavioral development, we will assess experimental/active comparator group differences at age 3 (and, for a subset of measures, ages 1 and 2) on measures of cognitive, language, memory, self-regulation and socio-emotional development. Brain circuitry may be sensitive to the effects of early experience even before early behavioral differences can be detected. In order to understand the impacts of added income on children's brain functioning at age 3, we will assess, during a lab visit, experimental/active comparator group differences in measures of brain activity (electroencephalogram [EEG]). To understand how family economic behavior, parenting, and parent stress and well-being change in response to income enhancement, we will assess experimental/active comparator differences in family expenditures, food insecurity, housing and neighborhood quality; family routines and time use; parent stress, mental health and cognition; parenting practices; and child care arrangements at child age 2 and, for a subset of these measures, child age 1. This study will thus provide the first definitive understanding of the extent to which income plays a causal role in determining early child cognitive, socio-emotional and brain development among low-income families.

Keywords:

Poverty, Income, Child Development, Brain Development

Comments:

As of this revision of the registration (7/8/2020), we have completed age 1 data collection. We expect to begin to collect age 2 data in mid-July 2020. With the exception of two age-3 outcomes, all changes included in this updated pre-registration publication relate to the age 2 data collection, and all decisions about these changes were made prior to the beginning of the age 2 data collection. The changes are in four broad categories: new measures (e.g., child nutrition and child epigenetics); substitute measures (e.g., substituting the MCDI for the MCDI short-form); additional individual items to existing pre-registered indices (e.g., adding an item about air conditioning to the existing housing quality index); and deletions (e.g., maternal substance abuse). All of the age-2 changes are to secondary hypotheses. The additional age-3 outcomes relates to a primary hypothesis.

Section II starts on the next page.

Section II: Description of Study

Type of Intervention:

Monthly cash gifts

Topic Area of Intervention:

Family resource intervention in early childhood

Number of intervention arms:

1

Target school level:

Birth to age 3

Target school type:

Schools not involved

Location of Implementation:

United States : Midwest, Northeast, South

Further description of location:

New York City; Twin cities, MN; Greater Omaha metropolitan area; Greater New Orleans metropolitan area

Brief Description of Intervention Condition:

\$333 monthly cash gift payments each month for the first 40 months of their baby's lives via debit card.

Brief Description of Comparison Condition:

\$20 monthly cash gift payments each month for the first 40 months of their baby's lives via debit card. This condition can also be described as an active comparator group.

Comparison condition:

Other

Comments:

-

Section III: Research Questions

Confirmatory research questions:

Question 1:

Child language development at age 12 months: Will a more generous stream of cash gift payments improve low-income children's language development at age 12 months?

Question 2:

Child language development at age 24 months: Will a more generous stream of cash gift payments improve low-income children's language development at age 24 months?

Question 3:

Child language development at age 36 months: Will a more generous stream of cash gift payments improve low-income children's language development at age 36 months?

Question 4:

Child executive function and self-regulation at age 36 months: Will a more generous stream of cash gift payments improve low-income children's executive function and self-regulation at age 36 months?

Question 5:

Child socioemotional processing at age 12 months: Will a more generous stream of cash gift payments improve low-income children's socioemotional processing at age 12 months?

Question 6:

Child socioemotional processing at age 24 months: Will a more generous stream of cash gift payments improve low-income children's socioemotional processing at age 24 months?

Question 7:

Child socioemotional processing at age 36 months: Will a more generous stream of cash gift payments improve low-income children's socioemotional processing at age 36 months?

Question 8:

Child IQ at age 36 months: Will a more generous stream of cash gift payments improve low-income children's IQ at age 36 months?

Question 9:

Child brain function at age 12 months: Will a more generous stream of cash gift payments improve low-income children's brain function at age 12 months?

Question 10:

Child brain function at age 36 months: Will a more generous stream of cash gift payments improve low-income children's brain function at age 36 months?

Question 11:

Child BMI at age 36 months: Will a more generous stream of cash gift payments improve low-income children's BMI at age 36 months?

Question 12:

Child physiological stress at age 36 months: Will a more generous stream of cash gift payments improve low-income children's physiological stress at age 36 months?

Question 13:

Child sleep at age 12 months: Will a more generous stream of cash gift payments improve low-income children's sleep quality at age 12 months?

Question 14:

Child sleep at age 24 months: Will a more generous stream of cash gift payments improve low-income children's sleep quality at age 24 months?

Question 15:

Child sleep at age 36 months: Will a more generous stream of cash gift payments improve low-income children's sleep quality at age 36 months?

Question 16:

Child health at age 12 months: Will a more generous stream of cash gift payments improve low-income children's current and recent health between child's birth and age 12 months?

Question 17:

Child health at age 24 months: Will a more generous stream of cash gift payments improve low-income children's current and recent health between child age 12 months and age 24 months?

Question 18:

Child health at age 36 months: Will a more generous stream of cash gift payments improve low-income children's current and recent health between child age 24 months and age 36 months?

Question 19:

Household economic hardship at child age 12 months: Will a more generous stream of cash gift payments reduce low-income children's household economic hardship between child's birth and age 12 months?

Question 20:

Household economic hardship at child age 24 months: Will a more generous stream of cash gift payments reduce low-income children's household economic hardship between child age 12 months and age 24 months?

Question 21:

Household economic hardship at child age 36 months: Will a more generous stream of cash gift payments reduce low-income children's household economic hardship between child age 24 months and age 36 months?

Question 22:

Family and maternal perceived stress at child age 12 months: Will a more generous stream of cash gift payments reduce low-income children's family and maternal perceived stress at child age 12 months?

Question 23:

Family and maternal perceived stress at child age 24 months: Will a more generous stream of cash gift payments reduce low-income children's family and maternal perceived stress at child age 24 months?

Question 24:

Family and maternal perceived stress at child age 36 months: Will a more generous stream of cash gift payments reduce low-income children's family and maternal perceived stress at child age 36 months?

Question 25:

Maternal physiological stress at child age 12 months: Will a more generous stream of cash gift payments reduce low-income children's maternal physiological stress at child age 12 months?

Question 26:

Maternal physiological stress at child age 36 months: Will a more generous stream of cash gift payments reduce low-income children's maternal physiological stress at child age 36 months?

Question 27:

Maternal physical health at child age 12 months: Will a more generous stream of cash gift payments improve low-income children's maternal physical health at child age 12 months?

Question 28:

Maternal physical health at child age 24 months: Will a more generous stream of cash gift payments improve low-income children's maternal physical health at child age 24 months?

Question 29:

Maternal physical health at child age 36 months: Will a more generous stream of cash gift payments improve low-income children's maternal physical health at child age 36 months?

Question 30:

Maternal mental health at child age 12 months: Will a more generous stream of cash gift payments improve low-income children's maternal mental health at child age 12 months?

Question 31:

Maternal mental health at child age 24 months: Will a more generous stream of cash gift payments improve low-income children's maternal mental health at child age 24 months?

Question 32:

Maternal mental health at child age 36 months: Will a more generous stream of cash gift payments improve low-income children's maternal mental health at child age 36 months?

Question 33:

Parent-child interaction quality at child age 12 months: Will a more generous stream of cash gift payments improve the quality of parent-child interaction and environment at child age 12 months?

Question 34:

Parent-child interaction quality at child age 24 months: Will a more generous stream of cash gift payments improve the quality of parent-child interaction and environment at child age 24 months?

Question 35:

Child-focused expenditures at child age 12 months: Will a more generous stream of cash gift payments increase current and recent child-focused expenditures between child's birth and age 12 months?

Question 36:

Child-focused expenditures at child age 24 months: Will a more generous stream of cash gift payments increase child-focused expenditures at child age 24 months?

Question 37:

Child-focused expenditures at child age 36 months: Will a more generous stream of cash gift payments increase child-focused expenditures at child age 36 months?

Question 38:

Housing and neighborhoods at child age 12 months: Will a more generous stream of cash gift payments improve current and recent housing quality at child age 12 months?

Question 39:

Housing and neighborhood quality at child age 24 months: Will a more generous stream of cash gift payments improve current and recent housing quality at child age 24 months?

Question 40:

Housing and neighborhood quality at child age 36 months: Will a more generous stream of cash gift payments improve current and recent housing quality at child age 36 months?

Question 41:

Social services receipt at child age 12 months: Will a more generous stream of cash gift payments affect the number of benefits the mother receives at child age 12 months?

Question 42:

Social services receipt at child age 24 months: Will a more generous stream of cash gift payments affect the number of benefits the mother receives at child age 24 months?

Question 43:

Social services receipt at child age 36 months: Will a more generous stream of cash gift payments affect the number of benefits the mother receives at child age 36 months?

Question 44:

Maternal labor market and education participation at child age 12 months: Will a more generous stream of cash gift payments affect low-income children's maternal labor market and education participation between child's birth and child age 12 months?

Question 45:

Maternal labor market and education participation at child age 24 months: Will a more generous stream of cash gift payments affect low-income children's maternal labor market and education participation between child age 12 months and age 24 months?

Question 46:

Maternal labor market and education participation at child age 36 months: Will a more generous stream of cash gift payments affect low-income children's maternal labor market and education participation between child age 24 months and age 36 months?

Question 47:

Maternal happiness and optimism at child age 12 months: Will a more generous stream of cash gift payments improve low-income children's maternal happiness and optimism at child age 12 months?

Question 48:

Maternal mental resources at child age 24 months: Will a more generous stream of cash gift payments improve low-income children's maternal mental resources at child age 24 months?

Question 49:

Maternal substance abuse at child age 12 months: Will a more generous stream of cash gift payments reduce low-income children's maternal substance abuse between birth and child age 12 months?

Question 50:

Maternal substance abuse at child age 36 months: Will a more generous stream of cash gift payments reduce low-income children's maternal substance abuse between child age 24 months and age 36 months?

Question 51:

Chaos in the home at child age 12 months: Will a more generous stream of cash gift payments reduce chaos in the home at child age 12 months?

Question 52:

Chaos in the home at child age 24 months: Will a more generous stream of cash gift payments reduce chaos in the home at child age 24 months?

Question 53:

Chaos in the home at child age 36 months: Will a more generous stream of cash gift payments reduce chaos in the home at child age 36 months?

Question 54:

Maternal relationships at child age 12 months: Will a more generous stream of cash gift payments improve low-income children's maternal relationships between child's birth and age 12 months?

Question 55:

Maternal relationships at child age 24 months: Will a more generous stream of cash gift payments improve low-income children's maternal relationships between child age 12 months and age 24 months?

Question 56:

Maternal relationships at child age 36 months: Will a more generous stream of cash gift payments improve low-income children's maternal relationships between child age 24 months and age 36 months?

Question 57:

Maternal epigenetic age at child age 24 months: Will a more generous stream of cash gift payments reduce the acceleration of low-income children's maternal epigenetic age between birth and child age 24 months?

Question 58:

Maternal DNA methylation at child age 24 months: Will a more generous stream of cash gift payments effect low-income children's maternal genome-wide DNA methylation at child age 24 months?

Question 59:

Frequency of parent-child activity at child age 12 months: Will a more generous stream of cash gift payments increase the frequency of low-income children's recent parent-child activity at child at 12 months?

Question 60:

Frequency of parent-child activity at child age 24 months: Will a more generous stream of cash gift payments increase the frequency of low-income children's recent parent-child activity at child at 24 months?

Question 61:

Maternal discipline at child age 12 months: Will a more generous stream of cash gift payments reduce the harshness of low-income children's maternal discipline at age 12 months?

Question 62:

Maternal discipline at child age 24 months: Will a more generous stream of cash gift payments reduce the harshness of low-income children's maternal discipline at age 24 months?

Question 63:

Maternal happiness and optimism at child age 24 months: Will a more generous stream of cash gift payments improve low-income children's maternal happiness and optimism at child age 24 months?

Question 64:

Maternal happiness and optimism at child age 36 months: Will a more generous stream of cash gift payments improve low-income children's maternal happiness and optimism at child age 36 months?

Question 65:

School Achievement and Behavior at child age 6: Will a more generous stream of cash gift payments improve the target child's school test scores and behavior, and the target child's siblings behavior, starting at age 6?

Question 66:

Child epigenetic age at age 24 months: Will a more generous stream of cash gift payments reduce the acceleration of low-income children's epigenetic age between birth and age 24 months?

Question 67:

Child DNA methylation at age 24 months: Will a more generous stream of cash gift payments affect low-income children's genome-wide DNA methylation at age 24 months?

Question 68:

Child Nutrition at age 24 months: Will a more generous stream of cash gift payments improve low-income children's nutrition at age 24 months?

Exploratory research questions:

No Questions added yet.

Comments:

While all of the hypotheses are confirmatory, we consider certain ones to be primary and others to be secondary. Primary hypotheses are the following: 3, 4, 7, 8, 10, 11, 15, 18, 26, 34, 65. The rest are secondary hypotheses.

Section IV-A: Study Design (Selection)**Study Design:**

Randomized Trial (RT)

Comments:

-

Section IV-B: Study Design (Input)

Study Design: Input

Unit of random assignment of intervention:

Infant

Assignment within sites or blocks:

Yes

Define the sites or blocks:

Metropolitan area

Probability of assignment to treatment the same across sites or blocks:

Yes

Probability of assignment to treatment:

.40

Unit outcome data measured:

Infant

Intermediate clusters between unit of random assignment and unit of measurement:

No

Comments:

-

Design Classification

Based on the responses above, this study has been classified as:

RT: Multisite (Blocked)

Section V: Sample Characteristics

Approximate number of outcome data units (Infant) in the comparison condition within each block (Metropolitan area): 150

Approximate number of outcome data units (Infant) in the intervention condition within each block (Metropolitan area): 100

Number of blocks (Metropolitan area): 4

Were there certain outcome data units (Infant) that were targeted for the study?

Yes - 1. mother 18 years or older; 2. household income below the federal poverty threshold in the calendar year prior to the interview, counting the newborn; 3. infant admitted to the newborn nursery and not requiring admittance to the intensive care unit; 4. residence in the state of recruitment; 5. mother not "highly likely" to move to a different state or country in the next 12 months; 6. infant to be discharged in the custody of the mother; 7. Mother English or Spanish speaking (necessary for administration of instruments used to measure some of the child outcomes)

Were there certain outcome data units (Infant) that were excluded from the study?

Yes - All infants/mothers not meeting the above seven criteria

Were there certain blocks (Metropolitan area) that were targeted for the study?

Yes - New York City; Twin Cities, MN; Omaha metropolitan area; New Orleans metropolitan area

Were there certain blocks (Metropolitan area) that were excluded from the study?

Yes - All metropolitan areas not listed above.

Comments:

In New York City, we recruited 289 mother-infant dyads. We recruited 295 mother-infant dyads in the Omaha metropolitan area and the New Orleans metropolitan area. Lastly, we recruited 121 mother-infant dyads in the Twin Cities, MN. 40% of the mother-infant dyads in each metropolitan area are in the intervention condition (receiving the high cash gift) and 60% of the mother-infant dyads are in the comparison condition (receiving the low cash gift).

Section VI: Outcomes (Input)

Confirmatory question 1: Outcome Measure 1

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Language milestones measured by the Ages & Stages Questionnaires- Communication Subscale

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 2: Outcome Measure 1

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Child vocalizations measured using LENA software technology

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 2: Outcome Measure 2

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Communicative development measured by the Short Form Version of the MacArthur Communicative Development Inventories

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 3: Outcome Measure 1

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Language milestones measured by the Ages & Stages Questionnaires- Communication Subscale

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 3: Outcome Measure 2

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Verbal comprehension measured by the Wechsler preschool and primary scale of intelligence- Vocabulary subtest

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 3: Outcome Measure 3

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Language processing measured by Quick Interactive Language Screener (QUILS)- Language Processing Subscale

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 4: Outcome Measure 1

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Executive function measured by the Minnesota Executive Function Scale at 36 months (may be replaced following pilot testing)

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: No

Please Describe:

The same outcome measure will be collected in the treatment and comparison groups. However, we may replace the Minnesota Executive Function Scale at 36 months after pilot testing. Alternative measures may include: Wechsler preschool and primary scale of intelligence- Working memory subscale or EF Touch Executive Functioning scale

Confirmatory question 4: Outcome Measure 2

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Self-regulation measured by The Preschool Self-Regulation Assessment

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: .91

Internal consistency: .88

Inter-rater reliability: .83

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 5: Outcome Measure 1

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Social-Emotional problems measured by the Brief Infant-Toddler Social and Emotional Assessment (BITSEA)- Problem Scale

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 5: Outcome Measure 2

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Social emotional behavior measured by using NICHD SECCYD parent-child-interaction task coding scheme, with child codes Positive Mood, Negative Mood, Activity Level, Sustained Attention, Positive Engagement

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 6: Outcome Measure 1

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Social-emotional problems measured by the Brief Infant-Toddler Social and Emotional Assessment (BITSEA)

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 6: Outcome Measure 2

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Social-Emotional Behavior measured using NICHD SECCYD parent-child-interaction task coding scheme, with child codes Positive Mood, Negative Mood, Activity Level, Sustained Attention, Positive Engagement

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 7: Outcome Measure 1

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Social-Emotional problems measured by the Brief Infant-Toddler Social and Emotional Assessment (BITSEA)

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 7: Outcome Measure 2

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Behavior/Emotional problems measured using the Child Behavior Checklist

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 8: Outcome Measure 1

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: IQ measured by the Wechsler preschool and primary scale of intelligence

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 9: Outcome Measure 1

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Resting brain function measured by EEG (Alpha, Gamma and Theta power)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 10: Outcome Measure 1

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Resting brain function measured by EEG (Alpha, Gamma and Theta power)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 10: Outcome Measure 2

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Language Related brain function measured by EEG (Alpha, Gamma and Theta power)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 11: Outcome Measure 1

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: BMI measured by CDC scales

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 12: Outcome Measure 1

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Measured by hair cortisol

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 13: Outcome Measure 1

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Sleep problems measured by the PROMIS Sleep Disturbance- Short Form

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: .9

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 14: Outcome Measure 1

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Sleep problems measured by the PROMIS Sleep Disturbance- Short Form

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: .9

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 15: Outcome Measure 1

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Sleep problems measured by the PROMIS Sleep Disturbance- Short Form

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: .9

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 16: Outcome Measure 1

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Overall Health, Medical Care, Diagnosis of Condition or Disability measured by additive index of 6 survey items (see Appendix Table 1 in the "Analysis Plan and Measures" document)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 17: Outcome Measure 1

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Overall Health, Medical Care, Diagnosis of Condition or Disability measured by additive index of survey items (see Appendix Table 3 in the "Analysis Plan and Measures" document)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 18: Outcome Measure 1

Outcome domain: Other Outcome Domain

Minimum detectable effect size: .219 sd

Outcome measure: Overall Health, Medical Care, Diagnosis of Condition or Disability measured by additive index of survey items (see Appendix Table 3 in the "Analysis Plan and Measures" document)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 19: Outcome Measure 1

Outcome domain: Other Outcome Domain - Household economic hardship at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Index of economic stress measures by an additive index of 9 dichotomous variables (higher score=more stress) (see Appendix Table 2 in the "Analysis Plan and Measures" document)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 19: Outcome Measure 2

Outcome domain: Other Outcome Domain - Household economic hardship at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: U.S. Household Food Security Survey Module: Five-Item Short Form

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 19: Outcome Measure 3

Outcome domain: Other Outcome Domain - Household economic hardship at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Household poverty rate measured by Census Bureau's poverty thresholds by size of family and number of children

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 20: Outcome Measure 1

Outcome domain: Other Outcome Domain - Household economic hardship at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Index of economic stress measures by an additive index of 9 dichotomous variables (higher score=more stress) (see Appendix Table 4 in the "Analysis Plan and Measures" document)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 20: Outcome Measure 2

Outcome domain: Other Outcome Domain - Household economic hardship at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: U.S. Household Food Security Survey Module: Five-Item Short Form

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 20: Outcome Measure 3

Outcome domain: Other Outcome Domain - Household economic hardship at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Household poverty rate measured by Census Bureau's poverty thresholds by size of family and number of children

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 21: Outcome Measure 1

Outcome domain: Other Outcome Domain - Household economic hardship at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Index of economic stress measures by an additive index of 9 dichotomous variables (higher score=more stress) (see Appendix Table 4 in the "Analysis Plan and Measures" document)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 21: Outcome Measure 2

Outcome domain: Other Outcome Domain - Household economic hardship at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: U.S. Household Food Security Survey Module: Five-Item Short Form

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 21: Outcome Measure 3

Outcome domain: Other Outcome Domain - Household economic hardship at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Household poverty rate measured by Census Bureau's poverty thresholds by size of family and number of children

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 22: Outcome Measure 1

Outcome domain: Other Outcome Domain - Family and maternal perceived stress at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Perceived Stress Scale

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: .86

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 22: Outcome Measure 2

Outcome domain: Other Outcome Domain - Family and maternal perceived stress at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Aggravation in parenting scale

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: .71

Inter-rater reliability:

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 23: Outcome Measure 1

Outcome domain: Other Outcome Domain - Family and maternal perceived stress at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Perceived Stress Scale

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: .86

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 23: Outcome Measure 2

Outcome domain: Other Outcome Domain - Family and maternal perceived stress at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Aggravation in Parenting Scale

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: .71

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 24: Outcome Measure 1

Outcome domain: Other Outcome Domain - Family and maternal perceived stress at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Perceived Stress Scale

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: .86

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 24: Outcome Measure 2

Outcome domain: Other Outcome Domain - Family and maternal perceived stress at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Aggravation in Parenting Scale

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: .71

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 25: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal Physiological Stress at 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Maternal hair cortisol at 12 months

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 26: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal Physiological Stress at 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Maternal hair cortisol at 36 months

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 27: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal Physical Health at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Maternal Physical Health: One-Item global health self-assessment at 12 months (see Appendix Table 2 in the "Analysis Plan and Measures" document)

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 27: Outcome Measure 2

Outcome domain: Other Outcome Domain - Maternal Physical Health at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Sleep measured by an additive index of 3 survey items (higher score=higher quality sleep) (see Appendix Table 2 in the "Analysis Plan and Measures" document)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 28: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal Physical Health at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Maternal Physical Health: One-Item global health self-assessment at 24 months (see Appendix Table 4 in the "Analysis Plan and Measures" document for item)

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 29: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal physical health at 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Maternal Physical Health: One-Item global health self-assessment at 36 months (see Appendix Table 4 in the "Analysis Plan and Measures" document for item)

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 29: Outcome Measure 2

Outcome domain: Other Outcome Domain - Maternal physical health at 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Sleep measured by an additive index of 3 survey items (higher score=higher quality sleep) (see Appendix Table 4 in the "Analysis Plan and Measures" document for items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups:

Confirmatory question 29: Outcome Measure 3

Outcome domain: Other Outcome Domain - Maternal physical health at 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Mother's Body Mass Index calculated by dividing weight by stature

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 30: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal mental health at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Depression measured by PHQ-8

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 30: Outcome Measure 2

Outcome domain: Other Outcome Domain - Maternal mental health at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Beck Anxiety Inventory

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 31: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal mental health at child age 24 months

Minimum detectable effect size:

Outcome measure: Depression measured by PHQ-8

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 31: Outcome Measure 2

Outcome domain: Other Outcome Domain - Maternal mental health at child age 24 months

Minimum detectable effect size:

Outcome measure: GAD-7

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: .75

Internal consistency: .92

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 32: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal mental health at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Depression measured by PHQ-8

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 32: Outcome Measure 2

Outcome domain: Other Outcome Domain - Maternal mental health at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Beck Anxiety Inventory

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 33: Outcome Measure 1

Outcome domain: Other Outcome Domain - Parent-child interaction quality at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Adult word count measured using LENA software technology

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 33: Outcome Measure 2

Outcome domain: Other Outcome Domain - Parent-child interaction quality at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Conversational turns measured using LENA software technology

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 33: Outcome Measure 3

Outcome domain: Other Outcome Domain - Parent-child interaction quality at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Mother's positive parenting behaviors measured using PICCOLO coding of parenting behaviors from three sub-scales (affection, responsiveness, encouragement and teaching) with responses ranging from 0: absent, 1: barely, 2: clearly) (see Appendix Table 2 in the "Analysis Plan and Measures" document)

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: .78

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 34: Outcome Measure 1

Outcome domain: Other Outcome Domain - Parent-child interaction quality at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Adult word count measured using LENA software technology

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 34: Outcome Measure 2

Outcome domain: Other Outcome Domain - Parent-child interaction quality at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Conversational turns measured using LENA software technology

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 34: Outcome Measure 3

Outcome domain: Other Outcome Domain - Parent-child interaction quality at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Mother's positive parenting behaviors measured using PICCOLO coding of parenting behaviors from three sub-scales (affection, responsiveness, encouragement and teaching) with responses ranging from 0: absent, 1: barely, 2: clearly) (see Appendix Table 4 in the "Analysis Plan and Measures" document)

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: .78

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 35: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child-focused expenditures at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Child-focused expenditures since birth measured by an additive index of the survey items (higher score=more purchased) (see Appendix Table 2 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: No

Please Describe:

Confirmatory question 35: Outcome Measure 2

Outcome domain: Other Outcome Domain - Child-focused expenditures at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Dollar amount of child-focused expenditures in past 30 days (see Appendix Table 2 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups:

Confirmatory question 35: Outcome Measure 3

Outcome domain: Other Outcome Domain - Child-focused expenditures at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Dollar amount of paid child care last week (see Appendix Table 2 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 35: Outcome Measure 4

Outcome domain: Other Outcome Domain - Child-focused expenditures at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Use of center-based care (see Appendix Table 2 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups:

Confirmatory question 36: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child-focused expenditures at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Dollar amount of child-focused expenditures in past 30 days (see Appendix Table 4 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 36: Outcome Measure 2

Outcome domain: Other Outcome Domain - Child-focused expenditures at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Dollar amount of paid child care last week (see Appendix Table 4 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: No

Please Describe:

Confirmatory question 36: Outcome Measure 3

Outcome domain: Other Outcome Domain - Child-focused expenditures at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Use of center-based care using a survey item (see Appendix Table 4 in the "Analysis Plan and Measures" document for item)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 37: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child-focused expenditures at child age 36 months using survey items (see Appendix Table 4 in the "Analysis Plan and Measures" document for items)

Minimum detectable effect size: .219 sd

Outcome measure: Dollar amount of child-focused expenditures in past 30 days (see Appendix Table 4 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 37: Outcome Measure 2

Outcome domain: Other Outcome Domain - Child-focused expenditures at child age 36 months using survey items (see Appendix Table 4 in the "Analysis Plan and Measures" document for items)

Minimum detectable effect size: .219 sd

Outcome measure: Dollar amount of paid child care last week (see Appendix Table 4 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 37: Outcome Measure 3

Outcome domain: Other Outcome Domain - Child-focused expenditures at child age 36 months using survey items (see Appendix Table 4 in the "Analysis Plan and Measures" document for items)

Minimum detectable effect size: .219 sd

Outcome measure: Use of center-based care using a survey item (see Appendix Table 4 in the "Analysis Plan and Measures" document for item)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 38: Outcome Measure 1

Outcome domain: Other Outcome Domain - Housing and neighborhoods at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Index of perceptions of neighborhood safety (higher score=feels more safe) (see Appendix Table 2 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: No

Please Describe:

Confirmatory question 38: Outcome Measure 2

Outcome domain: Other Outcome Domain - Housing and neighborhoods at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Index of housing quality (higher score=higher quality) (see Appendix Table 2 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 38: Outcome Measure 3

Outcome domain: Other Outcome Domain - Housing and neighborhoods at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Index of homelessness (higher score=experienced more homelessness) (see Appendix Table 2 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 38: Outcome Measure 4

Outcome domain: Other Outcome Domain - Housing and neighborhoods at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Excessive residential mobility measured by a binary survey item indicating >3 moves (see Appendix Table 2 in the "Analysis Plan and Measures" document for survey item)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 38: Outcome Measure 5

Outcome domain: Other Outcome Domain - Housing and neighborhoods at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Neighborhood poverty measured using the number of residents below poverty line in the census tract divided by total residents

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 39: Outcome Measure 1

Outcome domain: Other Outcome Domain - Housing and neighborhood quality at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Index of perceptions of neighborhood safety (higher score=feels more safe)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: No

Please Describe:

Confirmatory question 39: Outcome Measure 2

Outcome domain: Other Outcome Domain - Housing and neighborhood quality at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Index of housing quality (higher score=higher quality) (see Appendix Table 4 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 39: Outcome Measure 3

Outcome domain: Other Outcome Domain - Housing and neighborhood quality at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Index of homelessness (higher score=experienced more homelessness) (see Appendix Table 4 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 39: Outcome Measure 4

Outcome domain: Other Outcome Domain - Housing and neighborhood quality at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Excessive residential mobility measured by a binary survey item indicating >3 moves (see Appendix Table 4 in the "Analysis Plan and Measures" document for survey item)

Scale of outcome measure:

Normed or state test:

Same outcome measure in treatment and comparison groups:

Confirmatory question 39: Outcome Measure 5

Outcome domain: Other Outcome Domain - Housing and neighborhood quality at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Neighborhood poverty measured using the number of residents below poverty line in the census tract divided by total residents

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 40: Outcome Measure 1

Outcome domain: Other Outcome Domain - Housing and neighborhood quality at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Index of perceptions of neighborhood safety (higher score=feels more safe)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: No

Please Describe:

Confirmatory question 40: Outcome Measure 2

Outcome domain: Other Outcome Domain - Housing and neighborhood quality at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Index of housing quality (higher score=higher quality) (see Appendix Table 4 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 40: Outcome Measure 3

Outcome domain: Other Outcome Domain - Housing and neighborhood quality at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Index of homelessness (higher score=experienced more homelessness) (see Appendix Table 4 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 40: Outcome Measure 4

Outcome domain: Other Outcome Domain - Housing and neighborhood quality at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Excessive residential mobility measured by a binary survey item indicating >3 moves (see Appendix Table 4 in the "Analysis Plan and Measures" document for survey item)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 40: Outcome Measure 5

Outcome domain: Other Outcome Domain - Housing and neighborhood quality at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Neighborhood poverty measured using the number of residents below poverty line in the census tract divided by total residents

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 41: Outcome Measure 1

Outcome domain: Other Outcome Domain - Social services receipt at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Number of Benefits received by mother

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 42: Outcome Measure 1

Outcome domain: Other Outcome Domain - Social services receipt at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Number of Benefits received by mother

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 43: Outcome Measure 1

Outcome domain: Other Outcome Domain - Social services receipt at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Number of Benefits received by mother

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 44: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal labor market and education participation at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Number of months until mom's reentry into labor market from birth (see Appendix Table 2 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 44: Outcome Measure 2

Outcome domain: Other Outcome Domain - Maternal labor market and education participation at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Number of months until mom's full-time reentry into labor market from birth of child (see Appendix Table 2 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 44: Outcome Measure 3

Outcome domain: Other Outcome Domain - Maternal labor market and education participation at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Survey item indicating mother's participation in education and or job training activities since birth (see Appendix Table 2 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 45: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal labor market and education participation at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Survey item indicating mother's participation in education and or job training activities since birth (see Appendix Table 4 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 46: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal labor market and education participation at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Survey item indicating mother's participation in education and or job training activities since birth (see Appendix Table 4 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 47: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal happiness and optimism at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Global happiness survey item: One-item with 3-point response scale "Taken altogether, how happy are you these days?" (0: not happy; 1: pretty happy; 2: very happy)

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 47: Outcome Measure 2

Outcome domain: Other Outcome Domain - Maternal happiness and optimism at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: HOPE Scale

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: .81

Internal consistency: .86

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 48: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal mental resources at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Flanker Inhibitory Control and Attention Test

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: .92

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 49: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal substance abuse at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Alcohol and cigarette use measured by an additive index of two survey items (see Appendix Table 2 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: No

Please Describe:

Confirmatory question 49: Outcome Measure 2

Outcome domain: Other Outcome Domain - Maternal substance abuse at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Mother's number of times per week reported opioid use (see Appendix Table 2 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 50: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal substance abuse at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Alcohol and cigarette use measured by an additive index of two survey items (see Appendix Table 4 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 50: Outcome Measure 2

Outcome domain: Other Outcome Domain - Maternal substance abuse at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Mother's number of times per week reported opioid use (see Appendix Table 4 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 51: Outcome Measure 1

Outcome domain: Other Outcome Domain - Chaos in the home at child age 12 months

Minimum detectable effect size:

Outcome measure: Home Environment Chaos Scale

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: .93

Internal consistency: .77

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 52: Outcome Measure 1

Outcome domain: Other Outcome Domain - Chaos in the home at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Home Environment Chaos Scale

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: .93

Internal consistency: .77

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 53: Outcome Measure 1

Outcome domain: Other Outcome Domain - Chaos in the home at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Home Environment Chaos Scale

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: .93

Internal consistency: .77

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 54: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal relationships at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Survey item indicating physical abuse (see Appendix Table 2 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 54: Outcome Measure 2

Outcome domain: Other Outcome Domain - Maternal relationships at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Survey item measuring frequency of arguing (see Appendix Table 2 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 54: Outcome Measure 3

Outcome domain: Other Outcome Domain - Maternal relationships at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Relationship quality measured by an additive index of survey items (higher score=higher quality relationship) (see Appendix Table 2 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 55: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal relationships at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Survey item indicating physical abuse (see Appendix Table 4 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 55: Outcome Measure 2

Outcome domain: Other Outcome Domain - Maternal relationships at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Survey item measuring frequency of arguing (see Appendix Table 4 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 55: Outcome Measure 3

Outcome domain: Other Outcome Domain - Maternal relationships at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Dichotomous indicator of relationship quality (see Appendix Table 4 in the "Analysis Plan and Measures" document for how the dichotomous indicator will be defined)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 56: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal relationships at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Survey item indicating physical abuse (see Appendix Table 4 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 56: Outcome Measure 2

Outcome domain: Other Outcome Domain - Maternal relationships at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Survey item measuring frequency of arguing (see Appendix Table 4 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 56: Outcome Measure 3

Outcome domain: Other Outcome Domain - Maternal relationships at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Dichotomous indicator of relationship quality (see Appendix Table 4 in the "Analysis Plan and Measures" document for how the dichotomous indicator will be defined)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 57: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal epigenetic age at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Epigenetic age

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 58: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal DNA methylation at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: DNA methylation

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 59: Outcome Measure 1

Outcome domain: Other Outcome Domain - Frequency of parent-child activity at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Additive index of 4 items with response scale (lower score=higher frequency of activities) (see Appendix Table 2 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 60: Outcome Measure 1

Outcome domain: Other Outcome Domain - Frequency of parent-child activity at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Additive index of 5 items with response scale (lower score=higher frequency of activities) (see Appendix Table 4 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 61: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal discipline at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Survey item indicating use of spanking (see Appendix Table 2 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 62: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal discipline at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Survey item indicating use of spanking (see Appendix Table 4 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 63: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal happiness and optimism at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Global happiness survey item: One-item with 3-point response scale "Taken altogether, how happy are you these days?" (0: not happy; 1: pretty happy; 2: very happy)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 63: Outcome Measure 2

Outcome domain: Other Outcome Domain - Maternal happiness and optimism at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: HOPE scale

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: .86

Internal consistency: .81

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 64: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal happiness and optimism at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Global happiness survey item: One-item with 3-point response scale "Taken altogether, how happy are you these days?" (0: not happy; 1: pretty happy; 2: very happy)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 64: Outcome Measure 2

Outcome domain: Other Outcome Domain - Maternal happiness and optimism at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: HOPE scale

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: .86

Inter-rater reliability: .81

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 65: Outcome Measure 1

Outcome domain: Other Outcome Domain - School achievement and behavior at child age 6

Minimum detectable effect size: .219 sd

Outcome measure: School administrative test score data at child age 6

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 65: Outcome Measure 2

Outcome domain: Other Outcome Domain - School achievement and behavior at child age 6

Minimum detectable effect size: .219 sd

Outcome measure: School administrative test score data of target child's siblings at target child age 6

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 65: Outcome Measure 3

Outcome domain: Other Outcome Domain - School achievement and behavior at child age 6

Minimum detectable effect size: .219 sd

Outcome measure: School administrative disciplinary data for target child and target child's siblings at target child age 6

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 66: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child Epigenetic Age at age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Epigenetic age

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 67: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child DNA Methylation at child age 24 months

Minimum detectable effect size:

Outcome measure: DNA Methylation

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 68: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child Nutrition at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Consumption of healthy foods using an additive index of survey items (see Appendix Table 3 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 68: Outcome Measure 2

Outcome domain: Other Outcome Domain - Child Nutrition at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Consumption of unhealthy foods measured using an additive index of survey items (see Appendix Table 3 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Comments:

While all of the hypotheses are confirmatory, we consider certain ones to be primary and others to be secondary. Primary hypotheses are the following: 3, 4, 7, 8, 10, 11, 15, 18, 26, 34, 65.

For detailed information about pre-registered hypotheses at age 12 month data collection see Appendix Tables 1 and 2 in the "Analysis Plan and Measures" document.

For detailed information about pre-registered hypotheses at age 24 and 36 month data collection see Appendix Tables 3 and 4 in the "Analysis Plan and Measures" document.

Section VII: Outcomes (Input)

Baseline data collected prior to start of intervention:

Yes

Description of baseline data:

Child information (child's sex, birth weight, gestational age at birth and birth order);

Mother and biological father demographic data (age, race, ethnicity, education);

Household size: roster of every person residing in the household, relationship to the infant, age, sex, employment status, contribution to household income, plus children not living in household;

Household income: total earnings, total from social assistance and related programs,

net worth - formal and informal debt, any assets/savings;
Type of public assistance;
Indicators of economic stress: utility cutoffs, eviction, missed payments;
Maternal work hours during pregnancy, planned maternity leave, planned childcare;
Mother's marital status, relationship with biological father, biological father's support;
Neighborhood: Perceptions of neighborhood safety;
Maternal Health: Physical, Mental, Smoking, Alcohol

Covariates you plan to include in the model:

-, Please see uploaded document for a description of baseline measures

Analytic model:

See uploaded document

Plan to handle cases with missing outcome data:

We will use several of these approaches in a search for robust results; Please see uploaded analysis plan document for more detailed information.

Planned multiple comparisons adjustment, confirmatory question 2 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 2 (Other Outcome Domain):

Two

Correction for multiple comparisons, confirmatory question 2 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 3 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 3 (Other Outcome Domain):

Three

Correction for multiple comparisons, confirmatory question 3 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 4 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 4 (Other Outcome Domain):

Two

Correction for multiple comparisons, confirmatory question 4 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 5 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 5 (Other Outcome Domain):

Two

Correction for multiple comparisons, confirmatory question 5 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 6 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 6 (Other Outcome Domain):

Two

Correction for multiple comparisons, confirmatory question 6 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 7 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 7 (Other Outcome Domain):

Two

Correction for multiple comparisons, confirmatory question 7 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 10 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 10 (Other Outcome Domain):

Two

Correction for multiple comparisons, confirmatory question 10 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 19 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 19 (Other Outcome Domain):

Three

Correction for multiple comparisons, confirmatory question 19 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 20 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 20 (Other Outcome Domain):

Three

Correction for multiple comparisons, confirmatory question 20 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 21 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 21 (Other Outcome Domain):

Three

Correction for multiple comparisons, confirmatory question 21 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 22 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 22 (Other Outcome Domain):

Two

Correction for multiple comparisons, confirmatory question 22 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 23 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 23 (Other Outcome Domain):

Two

Correction for multiple comparisons, confirmatory question 23 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 24 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 24 (Other Outcome Domain):

Two

Correction for multiple comparisons, confirmatory question 24 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 27 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 27 (Other Outcome Domain):

Two

Correction for multiple comparisons, confirmatory question 27 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 29 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 29 (Other Outcome Domain):

Three

Correction for multiple comparisons, confirmatory question 29 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 30 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 30 (Other Outcome Domain):

Two

Correction for multiple comparisons, confirmatory question 30 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 31 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 31 (Other Outcome Domain):

Two

Correction for multiple comparisons, confirmatory question 31 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 32 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 32 (Other Outcome Domain):

Two

Correction for multiple comparisons, confirmatory question 32 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 33 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 33 (Other Outcome Domain):

Three

Correction for multiple comparisons, confirmatory question 33 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 34 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 34 (Other Outcome Domain):

Three

Correction for multiple comparisons, confirmatory question 34 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 35 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 35 (Other Outcome Domain):

Four

Correction for multiple comparisons, confirmatory question 35 (Other Outcome Domain):

Planned multiple comparisons adjustment, confirmatory question 36 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 36 (Other Outcome Domain):

Three

Correction for multiple comparisons, confirmatory question 36 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 37 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 37 (Other Outcome Domain):

Three

Correction for multiple comparisons, confirmatory question 37 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 38 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 38 (Other Outcome Domain):

Five

Correction for multiple comparisons, confirmatory question 38 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 39 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 39 (Other Outcome Domain):

Five

Correction for multiple comparisons, confirmatory question 39 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 40 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 40 (Other Outcome Domain):

Five

Correction for multiple comparisons, confirmatory question 40 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 44 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 44 (Other Outcome Domain):

Three

Correction for multiple comparisons, confirmatory question 44 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 47 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 47 (Other Outcome Domain):

Two

Correction for multiple comparisons, confirmatory question 47 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 49 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 49 (Other Outcome Domain):

Two

Correction for multiple comparisons, confirmatory question 49 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 50 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 50 (Other Outcome Domain):

Two

Correction for multiple comparisons, confirmatory question 50 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 54 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 54 (Other Outcome Domain):

Three

Correction for multiple comparisons, confirmatory question 54 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 55 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 55 (Other Outcome Domain):

Three

Correction for multiple comparisons, confirmatory question 55 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 56 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 56 (Other Outcome Domain):

Three

Correction for multiple comparisons, confirmatory question 56 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 63 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 63 (Other Outcome Domain):

Two

Correction for multiple comparisons, confirmatory question 63 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 64 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 64 (Other Outcome Domain):

Two

Correction for multiple comparisons, confirmatory question 64 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 65 (Other Outcome Domain):

Yes

Number of planned comparisons to adjust, confirmatory question 65 (Other Outcome Domain):

Two

Correction for multiple comparisons, confirmatory question 65 (Other Outcome Domain):

other

Planned multiple comparisons adjustment, confirmatory question 68 :

Comments:

All adjustments for multiple comparisons will also be made within confirmatory questions using step down resampling methods for multiple testing; Westfall and Young, 1993. See the "Analysis Plan and Measures" document for details.

Westfall, P. H. & Young, S. S. (1993). Resampling-based multiple testing: Examples and methods for p-value adjustment. Hoboken, New Jersey: John Wiley & Sons.

Section VIII: Additional Information**Links:**

<https://www.babysfirstyears.com/>

Study website

Files:

File Name: [Analysis Plans and Measures 61919.pdf](#)

Description: Analysis Plans and Measures updated version dated June 2019

File Name: [Research Strategy 61919.pdf](#)

Description: Text from our successful NICHD proposal describing the study with a few details changed since this proposal was funded in 2017; updated version June 2019

File Name: [Statistical Analysis Plan July 2020 gjd.pdf](#)

Description: Analysis Plans and Measures updated version dated July 2020

Comments:

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