

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: #1405.1v2

Version History

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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 PM ET.

[Review this version.](#)

Section I: General Study Information

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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 (6/19/2019), we have completed recruitment with a sample of 1,000 mother-infant dyads. All of the information that we have collected from them preceded random assignment. We expect to begin to collect outcome data in early July 2019.

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 of intervention:

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 arm:

\$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 24 months: Will a more generous stream of cash gift payments improve low-income children's physiological stress at age 24 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 24 months: Will a more generous stream of cash gift payments reduce low-income children's maternal physiological stress at child age 24 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 24 months: Will a more generous stream of cash gift payments reduce low-income children's maternal substance abuse between child age 12 months and age 24 months?

Question 51

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 52

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 53

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 54

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 55

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 56

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 57

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 58

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 59

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 60

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 61

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 62

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 63

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 64

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 65

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 66

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 starting at age 6?

Question 67

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

Question 68

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

Question 69

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

Exploratory research question:

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, 10, 11, 15, 18, 26, 34, 66. The rest are secondary hypotheses.

Section IV-A starts on the next page.

Section IV-A: Study Design (Selection)

Study Design:

Randomized Trial (RT)

Comments:

Section IV-B: Study Design (Input)

Unit of random assignment of intervention:

Infant

Assignment within blocks or selected strata:

Yes

Define the natural blocks or purposefully selected strata:

Metropolitan area

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

Yes

Probability of assignment to treatment:

.40

Unit outcome data measured:

Infant

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

No

Design Classification:

RT: Multisite (Blocked)

Comments

Section V: Sample Characteristics

Approximate number of outcome data units in the intervention condition within each block: 100

Approximate number of outcome data units in the comparison condition within each block: 150

Number of blocks: 4

Certain outcome data units 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)

Certain outcome data units that were excluded from the study:

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

Certain blocks that were targeted for the study:

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

Certain blocks 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-A: Outcomes (Selection)

Confirmatory question 1 - number of outcome measures: 1

Confirmatory question 2 - number of outcome measures: 3

Confirmatory question 3 - number of outcome measures: 3

Confirmatory question 4 - number of outcome measures: 2

Confirmatory question 5 - number of outcome measures: 2

Confirmatory question 6 - number of outcome measures: 3

Confirmatory question 7 - number of outcome measures: 2

Confirmatory question 8 - number of outcome measures: 1

Confirmatory question 9 - number of outcome measures: 1

Confirmatory question 10 - number of outcome measures: 2

Confirmatory question 11 - number of outcome measures: 1

Confirmatory question 12 - number of outcome measures: 1

Confirmatory question 13 - number of outcome measures: 1

Confirmatory question 14 - number of outcome measures: 1

Confirmatory question 15 - number of outcome measures: 1

Confirmatory question 16 - number of outcome measures: 1

Confirmatory question 17 - number of outcome measures: 1

Confirmatory question 18 - number of outcome measures: 1

Confirmatory question 19 - number of outcome measures: 3

Confirmatory question 20 - number of outcome measures: 3

Confirmatory question 21 - number of outcome measures: 3

Confirmatory question 22 - number of outcome measures: 2

Confirmatory question 23 - number of outcome measures: 2

Confirmatory question 24 - number of outcome measures: 2

Confirmatory question 25 - number of outcome measures: 1

Confirmatory question 26 - number of outcome measures: 1

Confirmatory question 27 - number of outcome measures: 2

Confirmatory question 28 - number of outcome measures: 2

Confirmatory question 29 - number of outcome measures: 3

Confirmatory question 30 - number of outcome measures: 2

Confirmatory question 31 - number of outcome measures: 2

Confirmatory question 32 - number of outcome measures: 2

Confirmatory question 33 - number of outcome measures: 3

Confirmatory question 34 - number of outcome measures: 3

Confirmatory question 35 - number of outcome measures: 1

Confirmatory question 36 - number of outcome measures: 3

Confirmatory question 37 - number of outcome measures: 3

Confirmatory question 38 - number of outcome measures: 1

Confirmatory question 39 - number of outcome measures: 1

Confirmatory question 40 - number of outcome measures: 1

Confirmatory question 41 - number of outcome measures: 1

Confirmatory question 42 - number of outcome measures: 1

Confirmatory question 43 - number of outcome measures: 1

Confirmatory question 44 - number of outcome measures: 3

Confirmatory question 45 - number of outcome measures: 3

Confirmatory question 46 - number of outcome measures: 3

Confirmatory question 47 - number of outcome measures: 2
Confirmatory question 48 - number of outcome measures: 1
Confirmatory question 49 - number of outcome measures: 2
Confirmatory question 50 - number of outcome measures: 2
Confirmatory question 51 - number of outcome measures: 2
Confirmatory question 52 - number of outcome measures: 1
Confirmatory question 53 - number of outcome measures: 1
Confirmatory question 54 - number of outcome measures: 1
Confirmatory question 55 - number of outcome measures: 3
Confirmatory question 56 - number of outcome measures: 3
Confirmatory question 57 - number of outcome measures: 3
Confirmatory question 58 - number of outcome measures: 1
Confirmatory question 59 - number of outcome measures: 1
Confirmatory question 60 - number of outcome measures: 1
Confirmatory question 61 - number of outcome measures: 1
Confirmatory question 62 - number of outcome measures: 1
Confirmatory question 63 - number of outcome measures: 1
Confirmatory question 64 - number of outcome measures: 2
Confirmatory question 65 - number of outcome measures: 2
Confirmatory question 66 - number of outcome measures: 1
Confirmatory question 67 - number of outcome measures: 1
Confirmatory question 68 - number of outcome measures: 1
Confirmatory question 69 - number of outcome measures: 1

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, 10, 11, 15, 18, 19, 26, 34, and 66.

For confirmatory questions 35, 38-40, the following information regarding the number of outcome measures is accurate (ignore the information included above):

1. There are 4 outcome measures for confirmatory question 35
2. There are 5 outcome measures for confirmatory questions 38-40.

Confirmatory Question 1, Outcome Measure 1

Outcome domain: Student Achievement - Child language development at age 12 months

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

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Confirmatory Question 2, Outcome Measure 1

Outcome domain: Student Achievement - Child language development at age 24 months

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

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Confirmatory Question 2, Outcome Measure 2

Outcome domain: Student Achievement - Child language development at age 24 months

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

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Confirmatory Question 2, Outcome Measure 3

Outcome domain: Student Achievement - Child language development at age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Communicative development measured by the MacArthur Communicative Development Inventories

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

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Confirmatory Question 3, Outcome Measure 1

Outcome domain: Student Achievement - Child language development at age 36 months

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

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Confirmatory Question 3, Outcome Measure 2

Outcome domain: Student Achievement - Child language development at age 36 months

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

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Confirmatory Question 3, Outcome Measure 3

Outcome domain: Student Achievement - Child language development at age 36 months

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

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Confirmatory Question 4, Outcome Measure 1

Outcome domain: Student Social, Emotional, & Behavior - Child executive function and self-regulation at age 36 months

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: No

Test-retest reliability: .93

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: No

Please describe:

Alternative measures may include: Wechsler preschool and primary scale of intelligence- Working memory subscale or EF Touch Executive Functioning scale

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Confirmatory Question 4, Outcome Measure 2

Outcome domain: Student Social, Emotional, & Behavior - Child executive function and self-regulation at age 36 months

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

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Confirmatory Question 5, Outcome Measure 1

Outcome domain: Student Social, Emotional, & Behavior - Child socioemotional processing at age 12 months

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: No

Test-retest reliability: .87

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

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Confirmatory Question 5, Outcome Measure 2

Outcome domain: Student Social, Emotional, & Behavior - Child socioemotional processing at age 12 months

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

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Confirmatory Question 6, Outcome Measure 1

Outcome domain: Student Social, Emotional, & Behavior - Child socioemotional processing at age 24 months

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: No

Test-retest reliability: .87

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

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Confirmatory Question 6, Outcome Measure 2

Outcome domain: Student Social, Emotional, & Behavior - Child socioemotional processing at age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Behavior/Emotional Problems measured by the Child Behavior Checklist

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

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Confirmatory Question 6, Outcome Measure 3

Outcome domain: Student Social, Emotional, & Behavior - Child socioemotional processing at age 24 months

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

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Confirmatory Question 7, Outcome Measure 1

Outcome domain: Student Social, Emotional, & Behavior - Child socioemotional processing at age 36 months

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: No

Test-retest reliability: .87

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

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Confirmatory Question 7, Outcome Measure 2

Outcome domain: Student Social, Emotional, & Behavior - Child socioemotional processing at age 36 months

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

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Confirmatory Question 8, Outcome Measure 1

Outcome domain: Student Achievement - Child IQ at age 36 months

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

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Confirmatory Question 9, Outcome Measure 1

Outcome domain: Student Achievement - Child brain function at age 12 months

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

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Confirmatory Question 10, Outcome Measure 1

Outcome domain: Student Achievement - Child brain function at age 36 months

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

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Confirmatory Question 10, Outcome Measure 2

Outcome domain: Student Achievement - Child brain function at age 36 months

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

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Confirmatory Question 11, Outcome Measure 1

Outcome domain: Child BMI at age 36 months

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

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Confirmatory Question 12, Outcome Measure 1

Outcome domain: Child physiological stress at age 24 months

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

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Confirmatory Question 13, Outcome Measure 1

Outcome domain: Child sleep at age 12 months

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

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Confirmatory Question 14, Outcome Measure 1

Outcome domain: Child sleep at age 24 months

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

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Confirmatory Question 15, Outcome Measure 1

Outcome domain: Child sleep at age 36 months

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

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Confirmatory Question 16, Outcome Measure 1

Outcome domain: Child health at age 12 months

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

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

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Confirmatory Question 17, Outcome Measure 1

Outcome domain: Child health at age 24 months

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

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

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Confirmatory Question 18, Outcome Measure 1

Outcome domain: Child health at age 36 months

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

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

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Confirmatory Question 19, Outcome Measure 1

Outcome domain: Household economic hardship at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Additive index of 9 dichotomous variables (higher score=more stress)

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

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Confirmatory Question 19, Outcome Measure 2

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

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Confirmatory Question 19, Outcome Measure 3

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

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Confirmatory Question 20, Outcome Measure 1

Outcome domain: Household economic hardship at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Additive index of 9 dichotomous variables (higher score=more stress)

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

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Confirmatory Question 20, Outcome Measure 2

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

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Confirmatory Question 20, Outcome Measure 3

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

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Confirmatory Question 21, Outcome Measure 1

Outcome domain: Household economic hardship at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Additive index of 9 dichotomous variables (higher score=more stress)

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

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Confirmatory Question 21, Outcome Measure 2

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

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Confirmatory Question 21, Outcome Measure 3

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

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Confirmatory Question 22, Outcome Measure 1

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

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Confirmatory Question 22, Outcome Measure 2

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

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Confirmatory Question 23, Outcome Measure 1

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

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Confirmatory Question 23, Outcome Measure 2

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

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Confirmatory Question 24, Outcome Measure 1

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

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Confirmatory Question 24, Outcome Measure 2

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

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Confirmatory Question 25, Outcome Measure 1

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

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Confirmatory Question 26, Outcome Measure 1

Outcome domain: Maternal Physiological Stress at 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Maternal hair cortisol at 24 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

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Confirmatory Question 27, Outcome Measure 1

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

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

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Confirmatory Question 27, Outcome Measure 2

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)

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

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Confirmatory Question 28, Outcome Measure 1

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

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

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Confirmatory Question 28, Outcome Measure 2

Outcome domain: Maternal Physical Health at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Sleep measured by an additive index of 3 survey items (higher score=higher quality sleep)

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

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Confirmatory Question 29, Outcome Measure 1

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

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

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Confirmatory Question 29, Outcome Measure 2

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)

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:

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Confirmatory Question 29, Outcome Measure 3

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

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Confirmatory Question 30, Outcome Measure 1

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

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Confirmatory Question 30, Outcome Measure 2

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: No

Test-retest reliability: .75

Internal consistency: .92

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

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Confirmatory Question 31, Outcome Measure 1

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

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Confirmatory Question 31, Outcome Measure 2

Outcome domain: Maternal mental health at child age 24 months

Minimum detectable effect size:

Outcome measure: Beck Anxiety Inventory

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

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Confirmatory Question 32, Outcome Measure 1

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

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Confirmatory Question 32, Outcome Measure 2

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: No

Test-retest reliability: .75

Internal consistency: .92

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

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Confirmatory Question 33, Outcome Measure 1

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

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Confirmatory Question 33, Outcome Measure 2

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

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Confirmatory Question 33, Outcome Measure 3

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

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

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Confirmatory Question 34, Outcome Measure 1

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

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Confirmatory Question 34, Outcome Measure 2

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

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Confirmatory Question 34, Outcome Measure 3

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

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

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Confirmatory Question 35, Outcome Measure 1

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)

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:

Additional measures for Confirmatory Question 35: 1. Dollar amount of child-focused expenditures in past 30 days (continuous, not normed, collected for treatment and comparison group) 2. Dollar amount of paid child care last week (continuous, not normed, collected for treatment and comparison group) 3. Use of center-based care (binary, not normed, collected for treatment and comparison group)

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Confirmatory Question 36, Outcome Measure 1

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

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

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Confirmatory Question 36, Outcome Measure 2

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

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:

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Confirmatory Question 36, Outcome Measure 3

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

Minimum detectable effect size: .219 sd

Outcome measure: Use of center-based care

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

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Confirmatory Question 37, Outcome Measure 1

Outcome domain: Child-focused expenditures at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Dollar amount of child-focused expenditures in past 30 days

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

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Confirmatory Question 37, Outcome Measure 2

Outcome domain: Child-focused expenditures at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Dollar amount of paid child care last week

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

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Confirmatory Question 37, Outcome Measure 3

Outcome domain: Child-focused expenditures at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Use of center-based care

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

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Confirmatory Question 38, Outcome Measure 1

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)

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:

Additional outcome measures for Confirmatory Question 38: 1. Index of housing quality (higher score=higher quality) (continuous, not from a normed or state test, to be collected in treatment and comparison groups) 2. Index of homelessness (higher score=experienced more homelessness) (continuous, not from a normed or state test, to be collected in treatment and comparison groups) 3. Excessive residential mobility measured by a binary survey item indicated >3 moves since baby's birth (to be used for treatment and comparison groups) 4. Neighborhood poverty measured using the number of residents below poverty line in the census tract divided by total residents (to be collected for treatment and comparison groups)

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Confirmatory Question 39, Outcome Measure 1

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:

Additional outcome measures for Confirmatory Question 38: 1. Index of housing quality (higher score=higher quality) (continuous, not from a normed or state test, to be collected in treatment and comparison groups) 2. Index of homelessness (higher score=experienced more homelessness) (continuous, not from a normed or state test, to be collected in treatment and comparison groups) 3. Excessive residential mobility measured by a binary survey item indicated >3 moves since baby's birth (to be used for treatment and comparison groups) 4. Neighborhood poverty measured using the number of residents below poverty line in the census tract divided by total residents (to be collected for treatment and comparison groups)

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Confirmatory Question 40, Outcome Measure 1

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:

Additional outcome measures for Confirmatory Question 38: 1. Index of housing quality (higher score=higher quality) (continuous, not from a normed or state test, to be collected in treatment and comparison groups) 2. Index of homelessness (higher score=experienced more homelessness) (continuous, not from a normed or state test, to be collected in treatment and comparison groups) 3. Excessive residential mobility measured by a binary survey item indicated >3 moves since baby's birth (to be used for treatment and comparison groups) 4. Neighborhood poverty measured using the number of residents below poverty line in the census tract divided by total residents (to be collected for treatment and comparison groups)

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Confirmatory Question 41, Outcome Measure 1

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

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Confirmatory Question 42, Outcome Measure 1

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

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Confirmatory Question 43, Outcome Measure 1

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

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Confirmatory Question 44, Outcome Measure 1

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 of child derived from

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

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Confirmatory Question 44, Outcome Measure 2

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

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

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Confirmatory Question 44, Outcome Measure 3

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

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

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Confirmatory Question 45, Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Number of months until mom's reentry into labor market from birth of child derived from

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

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Confirmatory Question 45, Outcome Measure 2

Outcome domain: Maternal labor market and education participation at child age 24 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

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

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Confirmatory Question 45, Outcome Measure 3

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

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

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Confirmatory Question 46, Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Number of months until mom's reentry into labor market from birth of child derived from

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

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Confirmatory Question 46, Outcome Measure 2

Outcome domain: Maternal labor market and education participation at child age 36 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

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

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Confirmatory Question 46, Outcome Measure 3

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

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

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Confirmatory Question 47, Outcome Measure 1

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

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Confirmatory Question 47, Outcome Measure 2

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

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Confirmatory Question 48, Outcome Measure 1

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: 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

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: 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

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: Maternal substance abuse at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Alcohol and cigarette use measured by an additive index of two 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: Maternal substance abuse at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Mother's number of times per week reported opioid use

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: Maternal substance abuse at child age 36 months

Minimum detectable effect size:

Outcome measure: Alcohol and cigarette use measured by an additive index of two 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

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Confirmatory Question 51, Outcome Measure 2

Outcome domain: Maternal substance abuse at child age 36 months

Minimum detectable effect size:

Outcome measure: Mother's number of times per week reported opioid use

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

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Confirmatory Question 52, Outcome Measure 1

Outcome domain: Chaos in the home at child age 12 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

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Confirmatory Question 53, Outcome Measure 1

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

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Confirmatory Question 54, Outcome Measure 1

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

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Confirmatory Question 55, Outcome Measure 1

Outcome domain: Maternal relationships at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Survey item indicating physical abuse

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

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Confirmatory Question 55, Outcome Measure 2

Outcome domain: Maternal relationships at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Survey item measuring frequency of arguing

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

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Confirmatory Question 55, Outcome Measure 3

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)

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

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Confirmatory Question 56, Outcome Measure 1

Outcome domain: Maternal relationships at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Survey item indicating physical abuse

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

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Confirmatory Question 56, Outcome Measure 2

Outcome domain: Maternal relationships at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Survey item measuring frequency of arguing

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

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Confirmatory Question 56, Outcome Measure 3

Outcome domain: Maternal relationships at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Relationship quality measured by an additive index of survey items (higher score=higher quality relationship)

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 57, Outcome Measure 1

Outcome domain: Maternal relationships at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Survey item indicating physical abuse

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

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Confirmatory Question 57, Outcome Measure 2

Outcome domain: Maternal relationships at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Survey item measuring frequency of arguing

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

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Confirmatory Question 57, Outcome Measure 3

Outcome domain: Maternal relationships at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Relationship quality measured by an additive index of survey items (higher score=higher quality relationship)

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

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Confirmatory Question 58, Outcome Measure 1

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

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Confirmatory Question 59, Outcome Measure 1

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

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Confirmatory Question 60, Outcome Measure 1

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):

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

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Confirmatory Question 61, Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Additive index of 4 items with response scale (lower score=higher frequency of activities)

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

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Confirmatory Question 62, Outcome Measure 1

Outcome domain: Maternal discipline at child age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Survey item indicating use of spanking

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

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Confirmatory Question 63, Outcome Measure 1

Outcome domain: Maternal discipline at child age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Survey item indicating use of spanking

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

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Confirmatory Question 64, Outcome Measure 1

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

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Confirmatory Question 64, Outcome Measure 2

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: N/A

Internal consistency: .86

Inter-rater reliability: .81

Same outcome measure in treatment and comparison groups: Yes

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Confirmatory Question 65, Outcome Measure 1

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: 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

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Confirmatory Question 65, Outcome Measure 2

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: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

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Confirmatory Question 66, Outcome Measure 1

Outcome domain: Student Achievement - 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

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Confirmatory Question 67, Outcome Measure 1

Outcome domain: School Achievement and Behavior at child age 6

Minimum detectable effect size:

Outcome measure: School administrative test score data for target child's siblings

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

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Confirmatory Question 68, Outcome Measure 1

Outcome domain: School Achievement and Behavior for target child's siblings at child age 6

Minimum detectable effect size: .219 sd

Outcome measure: School administrative disciplinary data for target child's siblings

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

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Confirmatory Question 69, Outcome Measure 1

Outcome domain: Student Achievement - School Achievement and Behavior at child age 6

Minimum detectable effect size: .219 sd

Outcome measure: School administrative disciplinary data

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

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Comments:

Section VII starts on the next page.

Section VII: Analysis Plan

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 to include at the outcome data unit level 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 (Student Achievement - Other):

Yes

Number of planned comparisons to adjust, confirmatory question 2 (Student Achievement - Other):

Three

Correction for multiple comparisons, confirmatory question 2 (Student Achievement - Other):

Step down resampling methods for multiple testing; Westfall and Young, 1993

Planned multiple comparisons adjustment, confirmatory question 3 (Student Achievement - Other):

Yes

Number of planned comparisons to adjust, confirmatory question 3 (Student Achievement - Other):

Three

Correction for multiple comparisons, confirmatory question 3 (Student Achievement - Other):

Step down resampling methods for multiple testing; Westfall and Young, 1993

Planned multiple comparisons adjustment, confirmatory question 4 (Student Social, Emotional, & Behavior - Other):

Yes

Number of planned comparisons to adjust, confirmatory question 4 (Student Social, Emotional, & Behavior - Other):

Two

Correction for multiple comparisons, confirmatory question 4 (Student Social, Emotional, & Behavior - Other):

Step down resampling methods for multiple testing; Westfall and Young, 1993

Planned multiple comparisons adjustment, confirmatory question 5 (Student Social, Emotional, & Behavior - Other):

Yes

Number of planned comparisons to adjust, confirmatory question 5 (Student Social, Emotional, & Behavior - Other):

Two

Correction for multiple comparisons, confirmatory question 5 (Student Social, Emotional, & Behavior - Other):

Step down resampling methods for multiple testing; Westfall and Young, 1993

Planned multiple comparisons adjustment, confirmatory question 6 (Student Social, Emotional, & Behavior - Other):

Yes

Number of planned comparisons to adjust, confirmatory question 6 (Student Social, Emotional, & Behavior - Other):

Three

Correction for multiple comparisons, confirmatory question 6 (Student Social, Emotional, & Behavior - Other):

Step down resampling methods for multiple testing; Westfall and Young, 1993

Planned multiple comparisons adjustment, confirmatory question 7 (Student Social, Emotional, & Behavior - Other):

Yes

Number of planned comparisons to adjust, confirmatory question 7 (Student Social, Emotional, & Behavior - Other):

Two

Correction for multiple comparisons, confirmatory question 7 (Student Social, Emotional, & Behavior - Other):

Step down resampling methods for multiple testing; Westfall and Young, 1993

Planned multiple comparisons adjustment, confirmatory question 10 (Student Achievement - Other):

Yes

Number of planned comparisons to adjust, confirmatory question 10 (Student Achievement - Other):

Two

Correction for multiple comparisons, confirmatory question 10 (Student Achievement - Other):

Step down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Three

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

Step down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Three

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

Step-down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Three

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

Step down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Two

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

Step down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Two

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

Step down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Two

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

Step down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Two

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

Step down resampling methods for multiple testing; Westfall and Young, 1993

Planned multiple comparisons adjustment, confirmatory question 28 (Other):

Yes

Number of planned comparisons to adjust, confirmatory question 28 (Other):

Two

Correction for multiple comparisons, confirmatory question 28 (Other):

Step down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Three

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

Step down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Two

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

Step down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Two

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

Step down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Two

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

Step down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Three

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

Step down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Three

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

Step down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Three

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

Step down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Three

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

Step down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Three

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

Step down resampling methods for multiple testing; Westfall and Young, 1993

Planned multiple comparisons adjustment, confirmatory question 45 (Other):

Yes

Number of planned comparisons to adjust, confirmatory question 45 (Other):

Three

Correction for multiple comparisons, confirmatory question 45 (Other):

Step down resampling methods for multiple testing; Westfall and Young, 1993

Planned multiple comparisons adjustment, confirmatory question 46 (Other):

Yes

Number of planned comparisons to adjust, confirmatory question 46 (Other):

Three

Correction for multiple comparisons, confirmatory question 46 (Other):

Step down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Two

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

Step down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Two

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

Step down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Two

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

Step down resampling methods for multiple testing; Westfall and Young, 1993

Planned multiple comparisons adjustment, confirmatory question 51 (Other):

Yes

Number of planned comparisons to adjust, confirmatory question 51 (Other):

Two

Correction for multiple comparisons, confirmatory question 51 (Other):

Step down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Three

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

Step down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Three

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

Step down resampling methods for multiple testing; Westfall and Young, 1993

Planned multiple comparisons adjustment, confirmatory question 57 (Other):

Yes

Number of planned comparisons to adjust, confirmatory question 57 (Other):

Three

Correction for multiple comparisons, confirmatory question 57 (Other):

Step down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Two

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

Step down resampling methods for multiple testing; Westfall and Young, 1993

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

Yes

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

Two

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

Step down resampling methods for multiple testing; Westfall and Young, 1993

Comments: Adjustments for multiple comparisons will also be made within confirmatory questions 35, 38, 39, 40 using step down resampling methods for multiple testing; Westfall and Young, 1993.

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 Materials

Right click to open links and files in a new window.

Links

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

Description: 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

Comments