

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: 1405.1v6

Version History

Changes were published on January 17, 2023 1:40:19 PM EST

Currently viewing this version.

Description of changes published:

A few changes were made to the Age 4 Protocol which are reflected in this updated version.

Changes were published on July 1, 2022 10:21:25 AM EDT

[Review this version.](#)

Description of changes published:

The changes include updates to Age 4 data collection measures.

Changes were published on July 9, 2021 2:40:51 PM EDT

[Review this version.](#)

Description of changes published:

As of this revision of the registration (6/30/2021), we have completed age 2 data collection. We expect to begin to collect age 3 data in mid-July 2021. Updates to this version include changes to the intervention and planned data collection (with changes to data collection due to COVID-19). The intervention was previously lasting for the first 40 months of the child's life; now, the monthly cash gift payments will last through the first 52 months of the child's life. Additionally, the in-person data collection previously planned at age 3 is being postponed to 45-48 months. The data collection wave at age 3 will be in the form of a survey. Publicly available data from the baseline survey and completed waves of data collection can be found here: <https://www.icpsr.umich.edu/web/ICPSR/studies/37871>.

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

[Review this version.](#)

Description of changes published:

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

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

[Review this version.](#)

Description of changes published:

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

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

Section I: General Study Information

PI name: Greg Duncan

PI affiliation: University of California-Irvine

Co-PI name: Kimberly Noble

Co-PI affiliation: Columbia University. Teachers College

Co-PI name: Katherine Magnuson

Co-PI affiliation: University of Wisconsin

Co-PI name: Lisa Gennetian

Co-PI affiliation: Duke University

Co-PI name: Hirokazu Yoshikawa

Co-PI affiliation: New York University

Co-PI name: Nathan Fox

Co-PI affiliation: University of Maryland - College Park

Primary Funding Source(s):

National Institute for Child Health and Human Development (NICHD)

Award Number(s):

NIH R01 HD087384

IRB Name:

UCI

IRB Approval Date:

2017-06-19

IRB Approval Number:

2016-3336

Other Registration Name:

clinicaltrials.gov

Other Registration Date:

-

Other Registration Number:

NCT03593356

Study Start Date:

2017-09-15

Study End Date:

2024-07-31

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 gift payments have a causal effect on the cognitive, socio-emotional 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 76 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, the investigators will assess experimental/active comparator group differences at age 4 (this lab assessment was postponed from age 3 to age 4 due to Covid-19) and, for a subset of measures, age 2 and age 3 via maternal survey, on measures of cognitive, language, 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 4, the investigators will assess, during a lab visit, experimental/active comparator group differences in measures of brain activity (electroencephalography [EEG]). To understand how family economic behavior, parenting, and parent stress and well-being change in response to income enhancement, the investigators 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 age 3, 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:

This revision of the registration (1/3/2023) reflects a few changes to the age 4 protocol.

Publicly available data from the baseline survey and age 1 waves of data collection can be found here: <https://www.icpsr.umich.edu/web/ICPSR/studies/37871>. Age 2 data will be available soon.

Section II starts on the next page.

Section II: Description of Study

Type of Intervention:

Monthly cash gifts

Topic Area of Intervention:

Family resource intervention in early childhood

Number of intervention arms:

1

Target school level:

Birth to age 4

Target school type:

Schools not involved

Location of Implementation:

United States : Midwest, Northeast, South

Further description of location:

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

Brief Description of Intervention Condition:

\$333 monthly cash gift payments each month for the first 76 months of their baby's lives via debit card.

Brief Description of Comparison Condition:

\$20 monthly cash gift payments each month for the first 76 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 language development at age 48 months: Will a more generous stream of cash gift payments improve low-income children's language development at age 48 months?

Question 5:

Child executive function and self-regulation at age 48 months: Will a more generous stream of cash gift payments improve low-income children's brain function at age 48 months?

Question 6:

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 7:

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 8:

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 9:

Child socioemotional processing at age 48 months: Will a more generous stream of cash gift payments improve low-income children's socioemotional processing at age 48 months?

Question 10:

Child abstract spatial perception at age 48 months: Will a more generous stream of cash gift payments improve low-income children's abstract spatial perception at age 48 months?

Question 11:

Child resting 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 12:

Child resting brain function at age 48 months: Will a more generous stream of cash gift payments improve low-income children's brain function at age 48 months?

Question 13:

Child BMI at age 48 months: Will a more generous stream of cash gift payments improve low-income children's BMI at age 48 months?

Question 14:

Child physiological stress at age 48 months: Will a more generous stream of cash gift payments improve low-income children's physiological stress at age 48 months? NOTE: This measure had to be dropped (see Table 7)

Question 15:

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 16:

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 17:

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 18:

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 19:

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 20:

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 21:

Child epigenetic pace of aging at 48 months: Will a more generous stream of cash gift payments improve low-income children's epigenetic age at age 48 months?

Question 22:

Child DNA methylation age at 48 months: Will a more generous stream of cash gift payments improve low-income children's DNA methylation at age 48 months?

Question 23:

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

Question 24:

Concern for developmental delay at age 36 months: Will a more generous stream of cash gift payments reduce maternal concern for child developmental delay at age 36 months?

Question 25:

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 26:

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's birth and age 24 months?

Question 27:

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's birth and age 36 months?

Question 28:

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 29:

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 30:

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 31:

Housing and neighborhood quality 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 32:

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 33:

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 34:

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 age 12 months?

Question 35:

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 36:

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 37:

Maternal mental resources at child age 48 months: Will a more generous stream of cash gift payments improve low-income children's maternal mental resources at child age 48 months?

Question 38:

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 39:

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 40:

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 41:

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 42:

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 43:

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 44:

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 45:

Maternal epigenetic pace of aging at child age 48 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 48 months?

Question 46:

Maternal DNA methylation at child age 48 months: Will a more generous stream of cash gift payments effect low-income children's maternal genome-wide DNA methylation at child age 48 months?

Question 47:

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 48:

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 49:

Frequency of parent-child activity at child age 36 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 36 months?

Question 50:

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 51:

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 52:

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

Question 53:

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 54:

Parent-child interaction quality at child age 48 months: Will a more generous stream of cash gift payments improve the quality of parent-child interaction and environment at child age 48 months?

Question 55:

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 56:

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 57:

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 58:

Maternal physical health at child age 48 months: Will a more generous stream of cash gift payments improve low-income children's maternal physical health at child age 48 months?

Question 59:

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 60:

Maternal physiological stress at child age 48 months: Will a more generous stream of cash gift payments reduce low-income children's maternal physiological stress at child age 48 months? NOTE: This measure had to be dropped (see Table 8)

Question 61:

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 62:

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 63:

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 64:

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 65:

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 66:

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 67:

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 68:

Child-focused expenditures at child age 24 months: Will a more generous stream of cash gift payments increase current and recent child-focused expenditures between child's birth and age 24 months?

Question 69:

Child-focused expenditures at child age 36 months: Will a more generous stream of cash gift payments increase current and recent child-focused expenditures between child's birth and age 36 months?

Question 70:

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 71:

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 72:

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 73:

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

Question 74:

Child task-related brain function at age 48 months: Will a more generous stream of cash gift payments improve low-income children's task-related brain function at age 48 months?

Question 75:

Child pre-literacy at age 48 months: Will a more generous stream of cash gift payments improve low-income children's pre-literacy at age 48 months?

Question 76:

Child health at age 48 months: Will a more generous stream of cash gift payments improve low-income children's current and recent health between child age 36 months and age 48 months?

Question 77:

Household economic hardship at child age 48 months: Will a more generous stream of cash gift payments reduce low-income children's household economic hardship between child's birth and age 48 months?

Question 78:

Housing and neighborhood quality at child age 48 months: Will a more generous stream of cash gift payments improve

current and recent housing quality at child age 48 months?

Question 79:

Maternal labor market and education participation at child age 48 months: Will a more generous stream of cash gift payments affect low-income children's maternal labor market and education participation between child age 36 months and age 48 months?

Question 80:

Maternal earnings at child age 48 months: Will a more generous stream of cash gift payments increase low-income children's maternal earnings between child age 36 months and age 48 months?

Question 81:

Frequency of parent-child activity at child age 48 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 48 months?

Question 82:

Family and maternal perceived stress at child age 48 months: Will a more generous stream of cash gift payments reduce low-income children's family and maternal perceived stress at child age 48 months?

Question 83:

Maternal mental health at child age 48 months: Will a more generous stream of cash gift payments improve low-income children's maternal mental health at child age 48 months?

Question 84:

Child-focused expenditures at child age 48 months: Will a more generous stream of cash gift payments increase current and recent child-focused expenditures between child's birth and age 48 months?

Exploratory research questions:

No Questions added yet.

Comments:

While all of the hypotheses are confirmatory, we consider certain ones to be primary and others to be secondary. Please see Appendix Tables 7 and 8 in the Statistical Analysis Plan and Measures document for these distinctions and for more information about the data collection plans and measures.

Section IV-A: Study Design (Selection)

Study Design:

Randomized Trial (RT)

Comments:

-

Section IV-B: Study Design (Input)

Study Design: Input

Unit of random assignment of intervention:

Infant

Assignment within sites or blocks:

Yes

Define the sites or blocks:

Metropolitan area

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

Yes

Probability of assignment to treatment:

.40

Unit outcome data measured:

Infant

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

No

Comments:

-

Design Classification

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

RT: Multisite (Blocked)

Section V: Sample Characteristics

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

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

Number of blocks (Metropolitan area): 4

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

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

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

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

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

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

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

Yes - All metropolitan areas not listed above.

Comments:

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

Section VI: Outcomes (Input)**Confirmatory question 1: Outcome Measure 1**

Outcome domain: Other Outcome Domain - 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

Confirmatory question 2: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child language development at age 24 months

Minimum detectable effect size: .219 sd

Outcome measure: Child vocabulary measured by short-form versions of the MacArthur Communicative Development Inventories

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 3: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child language development at age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Maternal concern for language delay measured using two items included in the Parents' Evaluation of Developmental Status (PEDS)

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 4: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child language development at age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Vocabulary measured by Receptive One Word Picture Vocabulary Test (ROWPVT)

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 5: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child executive function and self-regulation at age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Executive function measured by the pencil tap test: This item was preregistered as an age-4 secondary outcome but was dropped on September 13, 2022, due to evidence of floor effects, and numerous reports from research staff that children were not understanding the instructions.

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 5: Outcome Measure 2

Outcome domain: Other Outcome Domain - Child executive function and self-regulation at age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Executive function measured by the Minnesota Executive Function 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

Confirmatory question 6: Outcome Measure 1

Outcome domain: Other Outcome Domain - 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)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 6: Outcome Measure 2

Outcome domain: Other Outcome Domain - Child socioemotional processing at age 12 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 (due to funding limitations, this was not feasible to code, and we have no immediate plans to do so)

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 7: Outcome Measure 1

Outcome domain: Other Outcome Domain - 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)

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 8: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child socioemotional processing at age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Behavior/emotional problems measured using shortened version of the Child Behavior Checklist measuring the following areas: emotionally reactive, anxious/depressed, attention problems, and aggressive behavior

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 8: Outcome Measure 2

Outcome domain: Other Outcome Domain - Child socioemotional processing at age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Maternal concern for behavioral and social-emotional problems measured by the sum of the two questions included in the PEDS on behavior and social-emotional concerns

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 9: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child socioemotional processing at age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Social-Emotional Behavior Measured using shortened version of the Child Behavior Checklist measuring the following areas: emotionally reactive, anxious/depressed, attention problems, and aggressive behavior

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 10: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child abstract spatial perception at age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: IQ measured by the Wechsler Nonverbal Scale of Ability: The Wechsler Nonverbal Scale of Ability was originally pre-registered as a Primary Outcome. The IQ score is calculated using two subtests -- Matrices and Recognition -- and we began our fieldwork on July 9, 2022 with both. On the basis of preliminary analysis of the first 71 cases, we discovered that 21% of participants scored at the floor of the Recognition assessment. We therefore dropped the Recognition subtest from our data collection instrument on September 30 2022, precluding us from calculating IQ in subsequent participants. Scores on the Matrices subtest, which measures visual processing and abstract spatial perception (not IQ per se), are now registered as an age-4 secondary outcome

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 11: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child Resting Brain Function at age 12 months

Minimum detectable effect size: .219 sd

Outcome measure: Measured by low-density mobile electroencephalography at Age 1: we preregistered group differences in theta, alpha, gamma power.

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 12: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child Brain Function at age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Measured by high-density in-lab electroencephalography at Age 4: Primary: Because of limitations in power expected with multiple testing adjustments, we are preregistering a single composite of mid-to-high-frequency whole-brain power summing across alpha, beta, and gamma bands, from 7 to 45 Hz. Secondary: We hypothesize greater frontal gamma power in the high-cash gift group, and plan to analyze a full model of regions nested within bands, with the plan to report all exploratory outcomes. See attached analysis plan. Note: The original preregistration of EEG data collected when children were 12 months old included hypotheses across multiple frequency bands. Please see the history of preregistrations, including analysis plans.

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 13: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child BMI at age 48 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

Confirmatory question 14: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child physiological stress at age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Our original plan was to measure physiological stress using hair cortisol concentration. The first several months of data collection revealed large racial and ethnic differences in willingness to provide a hair sample, due to both cultural and practical reasons. Because of the large amounts of non-random missing data, which would both compromise our statistical power and limit the generalizability of any findings, we dropped hair cortisol from our data collection procedures on October 25, 2022.

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 15: Outcome Measure 1

Outcome domain: Other 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: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 16: Outcome Measure 1

Outcome domain: Other Outcome Domain - 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: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 17: Outcome Measure 1

Outcome domain: Other Outcome Domain - 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: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 18: Outcome Measure 1

Outcome domain: Other Outcome Domain - 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 survey items

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 19: Outcome Measure 1

Outcome domain: Other 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 survey items

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 20: Outcome Measure 1

Outcome domain: Other 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 survey items

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 21: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child epigenetic pace of aging at 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Methylation pace of aging was developed from DNA-methylation analysis of Pace of Aging in the Dunedin Study birth cohort. Pace of Aging is a composite phenotype derived from analysis of longitudinal

change in 18 biomarkers of organ-system integrity (Belsky et al., 2015). In contrast, so-called epigenetic clocks are trained on chronological age. Increments of methylation pace of aging correspond to “years” of physiological change occurring per 12-months of chronological time. The second iteration (DunedinPACE) takes into account an additional measurement occasion (collected 20 years after inclusion) and only includes the most reliable DNA methylation probes, i.e. probes with little variation between technical replicates .

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 22: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child DNA methylation age at 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Salivary DNA-methylation profiles of cognitive functioning, i.e., “Epigenetic-g”, can be computed on the basis of weights from a blood-based epigenome wide association study of general cognitive functions (g) in adults (McCartney et al., 2022). General cognitive ability was derived from the first unrotated principal component of logical memory, verbal fluency and digit symbol tests, and vocabulary. Epigenetic-g is conceptually distinct from biological aging.

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 23: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Consumption of healthy foods using an additive index of survey items (see Appendix Table 7 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 24: Outcome Measure 1

Outcome domain: Other Outcome Domain - Concern for developmental delay at age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Parents' Evaluation of Developmental Status (PEDS)

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 25: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Index of economic stress measures by an additive index of 9 dichotomous variables (higher score=more stress) (see Appendix Table 8 in the "Analysis Plan and Measures" document)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 25: Outcome Measure 2

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

Minimum detectable effect size: .219 sd

Outcome measure: U.S. Household Food Security Survey Module

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: No

Please Describe:

Confirmatory question 25: Outcome Measure 3

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

Minimum detectable effect size: .219 sd

Outcome measure: Household poverty rate

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 26: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Index of economic stress measures by an additive index of 9 dichotomous variables (higher score=more stress) (see Appendix Table 8 in the "Analysis Plan and Measures" document)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 26: Outcome Measure 2

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

Minimum detectable effect size: .219 sd

Outcome measure: U.S. Household Food Security Survey Module

Scale of outcome measure: Ordinal

Normed or state test: Yes

Same outcome measure in treatment and comparison groups:

Confirmatory question 26: Outcome Measure 3

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

Minimum detectable effect size: .219 sd

Outcome measure: Household Poverty rate

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:

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

Confirmatory question 27: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Index of economic stress measures by an additive index of 9 dichotomous variables (higher score=more stress) (see Appendix Table 8 in the "Analysis Plan and Measures" document)

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 27: Outcome Measure 2

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

Minimum detectable effect size: .219 sd

Outcome measure: U.S. Household Food Security Survey Module

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 27: Outcome Measure 3

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

Minimum detectable effect size: .219 sd

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

Scale of outcome measure:

Normed or state test:

Same outcome measure in treatment and comparison groups:

Confirmatory question 28: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Number of Benefits received by mother

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 29: Outcome Measure 1

Outcome domain: Other Outcome Domain - 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: 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 30: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Number of Benefits received by mother

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 31: Outcome Measure 1

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

Minimum detectable effect size:

Outcome measure: Index of perceptions of neighborhood safety (higher score=feels more safe) (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 31: Outcome Measure 2

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

Minimum detectable effect size:

Outcome measure: Index of homelessness (higher score=experienced more homelessness) (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure:

Normed or state test:

Same outcome measure in treatment and comparison groups:

Confirmatory question 31: Outcome Measure 3

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

Minimum detectable effect size:

Outcome measure: Excessive residential mobility measured by a binary survey item indicating >3 moves (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey item)

Scale of outcome measure:

Normed or state test:

Same outcome measure in treatment and comparison groups:

Confirmatory question 31: Outcome Measure 4

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

Minimum detectable effect size:

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

Scale of outcome measure:

Normed or state test:

Same outcome measure in treatment and comparison groups:

Confirmatory question 31: Outcome Measure 5

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

Minimum detectable effect size:

Outcome measure: Index of housing quality (higher score=higher quality) (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure:

Normed or state test:

Same outcome measure in treatment and comparison groups:

Confirmatory question 32: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Index of perceptions of neighborhood safety (higher score=feels more safe) (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 32: Outcome Measure 2

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

Minimum detectable effect size: .219 sd

Outcome measure: Index of homelessness (higher score=experienced more homelessness) (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 32: Outcome Measure 3

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

Minimum detectable effect size: .219 sd

Outcome measure: Index of housing quality (higher score=higher quality) (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 32: Outcome Measure 4

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

Minimum detectable effect size: .219 sd

Outcome measure: Excessive residential mobility measured by a binary survey item indicating >3 moves (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey item)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 32: Outcome Measure 5

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

Minimum detectable effect size: .219 sd

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

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 33: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Index of perceptions of neighborhood safety (higher score=feels more safe) (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 33: Outcome Measure 2

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

Minimum detectable effect size: .219 sd

Outcome measure: Index of housing quality (higher score=higher quality) (see Appendix Table 6 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 33: Outcome Measure 3

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

Minimum detectable effect size: .219 sd

Outcome measure: Index of homelessness (higher score=experienced more homelessness) (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: .78

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 33: Outcome Measure 4

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

Minimum detectable effect size: .219 sd

Outcome measure: Excessive residential mobility measured by a binary survey item indicating >3 moves (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey item)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 33: Outcome Measure 5

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

Minimum detectable effect size: .219 sd

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

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 34: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Number of months until mom's reentry into labor market from birth (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 34: Outcome Measure 2

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

Minimum detectable effect size: .219 sd

Outcome measure: Number of months until mom's full-time reentry into labor market from birth of child (see Appendix Table 6 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 34: Outcome Measure 3

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

Minimum detectable effect size: .219 sd

Outcome measure: Survey item indicating mother's participation in education and or job training activities since birth (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: .78

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 35: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Survey item indicating mother's participation in education and or job training activities since birth (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 36: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Survey item indicating mother's participation in education and or job training activities since birth (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 37: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal mental resources at child age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Measured by the Minnesota Executive Function Scale

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 38: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Alcohol and cigarette use measured by an additive index of two survey items (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: No

Please Describe:

Confirmatory question 38: Outcome Measure 2

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

Minimum detectable effect size: .219 sd

Outcome measure: Mother's number of times per week reported opioid use (see Appendix Table 6 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 39: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Alcohol and cigarette use measured by an additive index of two survey items (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: No

Please Describe:

Confirmatory question 39: Outcome Measure 2

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

Minimum detectable effect size: .219 sd

Outcome measure: Mother's number of times per week reported opioid use (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 40: Outcome Measure 1

Outcome domain: Other 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: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: No

Please Describe:

Confirmatory question 41: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Home Environment Chaos Scale

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 42: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Survey item indicating physical abuse (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 42: Outcome Measure 2

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

Minimum detectable effect size: .219 sd

Outcome measure: Survey item measuring frequency of arguing (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 42: Outcome Measure 3

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

Minimum detectable effect size: .219 sd

Outcome measure: Relationship quality measured by an additive index of survey items (higher score=higher quality relationship) (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 43: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Survey item indicating physical abuse (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 43: Outcome Measure 2

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

Minimum detectable effect size: .219 sd

Outcome measure: Survey item measuring frequency of arguing (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 43: Outcome Measure 3

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

Minimum detectable effect size: .219 sd

Outcome measure: Dichotomous indicator of current or recent relationship quality, where poor quality is defined as 1 if the mother is in a relationship and has a score of 26 or below on the relationship quality scale (approximately the bottom tercile of the low cash gift group distribution of scores) and a 0 either if the mother is not in a relationship or is in a relationship and has a relationship quality index score of 27 or above (approximately in the top two terciles of the distribution). (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 44: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Dichotomous indicator of current or recent relationship quality, where poor quality is defined as 1 if the mother is in a relationship and has a score of 26 or below on the relationship quality scale (approximately the bottom tercile of the low cash gift group distribution of scores) and a 0 either if the mother is not in a relationship or is in a relationship and has a relationship quality index score of 27 or above (approximately in the top two terciles of the distribution). (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 45: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal epigenetic pace of aging at child age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Methylation pace of aging was developed from DNA-methylation analysis of Pace of Aging in the Dunedin Study birth cohort. Pace of Aging is a composite phenotype derived from analysis of longitudinal change in 18 biomarkers of organ-system integrity (Belsky et al., 2015). In contrast, so-called epigenetic clocks are trained on chronological age. Increments of methylation pace of aging correspond to “years” of physiological change occurring per 12-months of chronological time. The second iteration (DunedinPACE) takes into account an additional measurement occasion (collected 20 years after inclusion) and only includes the most reliable DNA methylation probes, i.e. probes with little variation between technical replicates.

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 46: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal DNA methylation at child age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Salivary DNA-methylation profiles of cognitive functioning, i.e., “Epigenetic-g”, can be computed on the basis of weights from a blood-based epigenome wide association study of general cognitive functions (g) in adults (McCartney et al., 2022). General cognitive ability was derived from the first unrotated principal component of logical memory, verbal fluency and digit symbol tests, and vocabulary. Epigenetic-g is conceptually distinct from biological aging.

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 47: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Additive index of 4 items with response scale (lower score=higher frequency of activities) (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 48: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Additive index of 5 items with response scale (lower score=higher frequency of activities) (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 49: Outcome Measure 1

Outcome domain: Other Outcome Domain - Frequency of parent-child activity at child age 36 months

Minimum detectable effect size: .219 sd

Outcome measure: Additive index of 5 items with response scale (lower score=higher frequency of activities) (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: No

Please Describe:

Confirmatory question 50: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Survey item indicating use of spanking (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 51: Outcome Measure 1

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

Minimum detectable effect size:

Outcome measure: Survey item indicating use of spanking (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 52: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Survey item indicating use of spanking (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 53: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Adult word count measured using LENA software technology

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 53: Outcome Measure 2

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

Minimum detectable effect size: .219 sd

Outcome measure: Conversational turns measured using LENA software technology

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 53: Outcome Measure 3

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

Minimum detectable effect size: .219 sd

Outcome measure: Mother's positive parenting behaviors measured using PICCOLO coding of parenting behaviors from the total of four sub-scales (affection, responsiveness, encouragement and teaching) with responses ranging from 0: absent, 1: barely, 2: clearly) (see Appendix Table 8 in the "Analysis Plan and Measures" document)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 54: Outcome Measure 1

Outcome domain: Other Outcome Domain - Parent-child interaction quality at child age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Measured using PICCOLO coding of parenting behaviors from the total of four sub-scales (affection, responsiveness, encouragement and teaching) with responses ranging from 0: absent, 1: barely, 2: clearly. Parent child interaction task and script adapted from the NICHD Study of Early Child Care and Youth Development.

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 55: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Maternal Physical Health: One-Item global health self-assessment at 12 months (see Appendix Table 8 in the "Analysis Plan and Measures" document)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 55: Outcome Measure 2

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

Minimum detectable effect size: .219 sd

Outcome measure: Sleep measured by an additive index of 3 survey items (higher score=higher quality sleep) (see Appendix Table 8 in the "Analysis Plan and Measures" document)

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 56: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Maternal Physical Health: One-Item global health self-assessment at 12 months (see Appendix Table 8 in the "Analysis Plan and Measures" document)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 57: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Sleep measured by an additive index of 3 survey items (higher score=higher quality sleep) (see Appendix Table 8 in the "Analysis Plan and Measures" document)

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 58: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal physical health at child age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Mother's Body Mass Index Measured by CDC BMI percentile scales

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 59: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Maternal hair cortisol

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 60: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal physiological stress at child age 48 months: At age 1, we attempted to collect maternal hair cortisol for all in-person visits, prior to the onset of the pandemic (when data collection became limited to phone-based survey administration only). This resulted in a hair sample being collected from 409 of the 605 mothers who participated in an in-person visit, with large racial and ethnic differences in willingness to provide a sample. At age-4, we attempted to improve collection rates following focus groups and the development of informational videos. However, the first several months of data collection again revealed large racial and ethnic differences in willingness to provide a hair sample, due to both cultural and practical reasons. Because of the large amounts of non-random missing data, which would both compromise our statistical power and limit the generalizability of any findings, we dropped hair cortisol from the age-4 data collection procedures on October 25, 2022.

Minimum detectable effect size: .219 sd

Outcome measure: Maternal hair cortisol

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 61: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Perceived Stress Scale (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 61: Outcome Measure 2

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

Minimum detectable effect size: .219 sd

Outcome measure: Aggravation in Parenting Scale (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 62: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Perceived Stress Scale (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 62: Outcome Measure 2

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

Minimum detectable effect size: .219 sd

Outcome measure: Aggravation in Parenting Scale (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 63: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Perceived Stress Scale (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 64: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Depression measured by PHQ-8

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 64: Outcome Measure 2

Outcome domain: Other Outcome Domain - Maternal 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: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 65: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Depression measured by PHQ-8

Scale of outcome measure: Continuous

Normed or state test: Yes

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 65: Outcome Measure 2

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

Minimum detectable effect size: .219 sd

Outcome measure: GAD-7 Anxiety Inventory

Scale of outcome measure: Continuous
Normed or state test: Yes
Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 66: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal mental health at child age 36 months
Minimum detectable effect size: .219 sd
Outcome measure: Depression measured by PHQ-8
Scale of outcome measure: Continuous
Normed or state test: No
Test-retest reliability: N/A
Internal consistency: N/A
Inter-rater reliability: N/A
Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 66: Outcome Measure 2

Outcome domain: Other Outcome Domain - Maternal mental health at child age 36 months
Minimum detectable effect size: .219 sd
Outcome measure: Beck Anxiety Inventory
Scale of outcome measure: Continuous
Normed or state test: No
Test-retest reliability: N/A
Internal consistency: N/A
Inter-rater reliability: N/A
Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 66: Outcome Measure 3

Outcome domain: Other Outcome Domain - Maternal mental health at child age 36 months
Minimum detectable effect size: .219 sd
Outcome measure: GAD-7
Scale of outcome measure: Continuous
Normed or state test: No
Test-retest reliability: N/A
Internal consistency: N/A
Inter-rater reliability: N/A
Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 67: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child-focused expenditures at child age 12 months
Minimum detectable effect size: .219 sd
Outcome measure: Child-focused expenditures since birth measured by an additive index of the survey items (higher score=more purchased) (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)
Scale of outcome measure: Continuous
Normed or state test: No
Test-retest reliability: N/A
Internal consistency: N/A
Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 67: Outcome Measure 2

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

Minimum detectable effect size: .219 sd

Outcome measure: Dollar amount of child-focused expenditures in past 30 days (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 67: Outcome Measure 3

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

Minimum detectable effect size: .219 sd

Outcome measure: Dollar amount of paid child care last week (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 67: Outcome Measure 4

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

Minimum detectable effect size: .219 sd

Outcome measure: Use of center-based care (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 68: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

Outcome measure: Dollar amount of child-focused expenditures in past 30 days (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 68: Outcome Measure 2

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

Minimum detectable effect size: .219 sd

Outcome measure: Dollar amount of paid child care last week (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 68: Outcome Measure 3

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

Minimum detectable effect size: .219 sd

Outcome measure: Use of center-based care (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 69: Outcome Measure 1

Outcome domain: Other 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 (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups:

Confirmatory question 69: Outcome Measure 2

Outcome domain: Other 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 (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 69: Outcome Measure 3

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

Minimum detectable effect size: .219 sd

Outcome measure: Use of center-based care (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 70: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

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

Scale of outcome measure: Ordinal

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 70: Outcome Measure 2

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

Minimum detectable effect size: .219 sd

Outcome measure: HOPE Scale

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 71: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

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

Scale of outcome measure: 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 71: Outcome Measure 2

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

Minimum detectable effect size: .219 sd

Outcome measure: HOPE Scale

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 72: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

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

Scale of outcome measure: 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 72: Outcome Measure 2

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

Minimum detectable effect size: .219 sd

Outcome measure: HOPE Scale

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 73: Outcome Measure 1

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

Minimum detectable effect size: .219 sd

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

Scale of outcome measure: Continuous

Normed or state test: 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 73: Outcome Measure 2

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

Minimum detectable effect size: .219 sd

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

Scale of outcome measure: Continuous

Normed or state test: 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 74: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child task-related brain function at age 48 months

Minimum detectable effect size:

Outcome measure: Auditory Discrimination Brain Function, measured by mismatch negativity (MMN) ERP with larger differences between standard and deviant stimulus in high-cash gift group compared to the low-cash gift group.

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 75: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child pre-literacy at age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Measured by The Reading House

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 76: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child health at age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Overall Health, Diagnosis of Health Condition or Disability measured by an additive index of survey items (See Appendix Table 7 for more information)

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 77: Outcome Measure 1

Outcome domain: Other Outcome Domain - Household economic hardship at child age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Index of economic stress measures by an additive index of 9 dichotomous variables (higher

score=more stress) (see Appendix Table 8 in the "Analysis Plan and Measures" document)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 77: Outcome Measure 2

Outcome domain: Other Outcome Domain - Household economic hardship at child age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: U.S. Household Food Security Survey Module

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 77: Outcome Measure 3

Outcome domain: Other Outcome Domain - Household economic hardship at child age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Household poverty rate

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 78: Outcome Measure 1

Outcome domain: Other Outcome Domain - Housing and neighborhood quality at child age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Dichotomous indicator of whether mom experienced "homelessness, eviction, or sudden loss of housing in the past 12 months".

Scale of outcome measure: Binary

Normed or state test:

Same outcome measure in treatment and comparison groups:

Confirmatory question 78: Outcome Measure 2

Outcome domain: Other Outcome Domain - Housing and neighborhood quality at child age 48 months

Minimum detectable effect size: .219 sd

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

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 79: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal labor market and education participation at child age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Measured by Dichotomous variable indicating whether mother is participating in the labor market using the item "do you currently work for pay?"

Scale of outcome measure: Binary

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 80: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal earnings at child age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Maternal earnings in the previous calendar year

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 81: Outcome Measure 1

Outcome domain: Other Outcome Domain - Frequency of parent-child activity at child age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Child meal and sleep routine index measured by an Additive index of 2 survey items (higher score=more routines)

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 81: Outcome Measure 2

Outcome domain: Other Outcome Domain - Frequency of parent-child activity at child age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Time on mother-focal child activities measured by an Additive index of activities where the number of days reported doing the activity are multiplied by the number of minutes on a given day.

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 82: Outcome Measure 1

Outcome domain: Other Outcome Domain - Family and maternal perceived stress at child age 48 months: NOTE that this measure was dropped owing to time constraints

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: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 83: Outcome Measure 1

Outcome domain: Other Outcome Domain - Maternal mental health at child age 48 months:

Minimum detectable effect size: .219 sd

Outcome measure: Depression measured using the PHQ-8

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 83: Outcome Measure 2

Outcome domain: Other Outcome Domain - Maternal mental health at child age 48 months:

Minimum detectable effect size: .219 sd

Outcome measure: Anxiety measured using GAD-7

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 84: Outcome Measure 1

Outcome domain: Other Outcome Domain - Child-focused expenditures at child age 48 months

Minimum detectable effect size: .219 sd

Outcome measure: Dollar amount of child-focused expenditures in past 30 days (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)

Scale of outcome measure: Continuous

Normed or state test: No

Test-retest reliability: N/A

Internal consistency: N/A

Inter-rater reliability: N/A

Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 84: Outcome Measure 2

Outcome domain: Other Outcome Domain - Child-focused expenditures at child age 48 months
Minimum detectable effect size: .219 sd
Outcome measure: Dollar amount of paid child care last week (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)
Scale of outcome measure: Continuous
Normed or state test: No
Test-retest reliability: N/A
Internal consistency: N/A
Inter-rater reliability: N/A
Same outcome measure in treatment and comparison groups: Yes

Confirmatory question 84: Outcome Measure 3

Outcome domain: Other Outcome Domain - Child-focused expenditures at child age 48 months
Minimum detectable effect size: .219 sd
Outcome measure: Use of center-based care (see Appendix Table 8 in the "Analysis Plan and Measures" document for survey items)
Scale of outcome measure: Binary
Normed or state test: No
Test-retest reliability: N/A
Internal consistency: N/A
Inter-rater reliability: N/A
Same outcome measure in treatment and comparison groups: Yes

Comments:

For detailed information about pre-registered hypotheses at age 48 month data collection see Appendix Tables 7 and 8 in the "Analysis Plan and Measures" document.

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 you plan to include in the model:

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

Analytic model:

See uploaded document

Plan to handle cases with missing outcome data:

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

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

No

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

No

Planned multiple comparisons adjustment, confirmatory question 8 (Other Outcome Domain):

No

Planned multiple comparisons adjustment, confirmatory question 25 (Other Outcome Domain):

No

Planned multiple comparisons adjustment, confirmatory question 26 (Other Outcome Domain):

No

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

No

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

No

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

No

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

No

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

No

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

No

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

No

Planned multiple comparisons adjustment, confirmatory question 42 (Other Outcome Domain):

No

Planned multiple comparisons adjustment, confirmatory question 43 (Other Outcome Domain):

No

Planned multiple comparisons adjustment, confirmatory question 53 (Other Outcome Domain):

No

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

No

Planned multiple comparisons adjustment, confirmatory question 61 (Other Outcome Domain):

No

Planned multiple comparisons adjustment, confirmatory question 62 (Other Outcome Domain):

No

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

No

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

No

Planned multiple comparisons adjustment, confirmatory question 66 (Other Outcome Domain):

No

Planned multiple comparisons adjustment, confirmatory question 67 (Other Outcome Domain):

No

Planned multiple comparisons adjustment, confirmatory question 68 (Other Outcome Domain):

No

Planned multiple comparisons adjustment, confirmatory question 69 (Other Outcome Domain):

No

Planned multiple comparisons adjustment, confirmatory question 70 (Other Outcome Domain):

No

Planned multiple comparisons adjustment, confirmatory question 71 (Other Outcome Domain):

No

Planned multiple comparisons adjustment, confirmatory question 72 (Other Outcome Domain):

No

Planned multiple comparisons adjustment, confirmatory question 73 (Other Outcome Domain):

No

Planned multiple comparisons adjustment, confirmatory question 77 (Other Outcome Domain):

No

Planned multiple comparisons adjustment, confirmatory question 78 (Other Outcome Domain):

No

Planned multiple comparisons adjustment, confirmatory question 81 (Other Outcome Domain):

No

Planned multiple comparisons adjustment, confirmatory question 83 (Other Outcome Domain):

No

Planned multiple comparisons adjustment, confirmatory question 84 :

No

Comments:

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

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

Section VIII: Additional Information

Links:

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

Study website

Files:

File Name: [Analysis Plans and Measures_61919.pdf](#)

Description: Analysis Plans and Measures updated version dated June 2019. It is necessary to be logged in to ICPSR to view this document. It is necessary to be logged in to ICPSR first to be able to view this document.

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. It is necessary to be logged in to ICPSR first to be able to view this document.

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

Description: Analysis Plans and Measures updated version dated July 2020. It is necessary to be logged in to ICPSR to view this document. It is necessary to be logged in to ICPSR first to be able to view this document.

File Name: [Statistical Analysis Plan_6242021.pdf](#)

Description: Analysis Plans and Measures updated version dated July 2021. It is necessary to be logged in to ICPSR first to be able to view this document.

File Name: [AEA SREE Statistical Analysis Plan 7122.pdf](#)

Description: Analysis Plans and Measures updated for (and prior to) Age 4 data collection, version July 2022. It is necessary to be logged in to ICPSR first to be able to view this document.

File Name: [Statistical Analysis Plan 2022 \(revised\)](#)

Description: Statistical Analysis Plan_Revised for Age 4_Dec 2022

Comments:

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