**Maternal and Infant Home Visiting Program Evaluation (MIHOPE)**

OMB Information Collection Request

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Supporting Statement

Part A

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Submitted By:

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**Part A. JUSTIFICATION**

**A1. Circumstances necessitating data collection**

In 2011, the Administration for Children and Families (ACF) and Health Resources and Services Administration (HRSA) within the U.S. Department of Health and Human Services (HHS) launched the Mother and Infant Home Visiting Program Evaluation (MIHOPE). This evaluation, mandated by the Affordable Care Act (ACA), will provide information about the effectiveness of the Maternal, Infant, and Early Childhood Home Visiting (MIECHV) program in its first few years of operation, and provide information to help states and others develop and strengthen home visiting programs in the future. It will attempt to fill gaps in research that were identified in recent reviews of home visiting programs funded by the U.S. Department of Health and Human Services through the Home Visiting Evidence of Effectiveness (HomVEE) project. The evaluation is being conducted by MDRC in partnership with Mathematica Policy Research, James Bell Associates, Johns Hopkins University, and the University of Georgia.

The proposed evaluation will be conducted in approximately 85 sites across approximately 12 states. In each site, approximately 60 families will be randomly assigned to either MIECHV-funded home visiting or to a control group, which will be given referrals to other services in the community. Families will be eligible for the study if they include a pregnant woman or an infant under six months old and the mother is at least 15 years old. The goals of the evaluation are: (1) to understand the effects of home visiting programs on parent and child outcomes, both overall and for key subgroups of families, (2) to understand how home visiting programs are implemented and how implementation varies across programs, and (3) to understand which features of local home visiting programs are associated with larger or smaller program impacts.

MIHOPE includes two phases. Phase 1 includes site recruitment, recruitment of families and collection of baseline data on families, and the collection of data on program implementation. Phase 2 includes follow-up data collection, including a survey conducted with parents around the time the child is 15 months old, observations of interactions between parents and children, observations of the home environment, direct observations of child development, direct measurement of maternal weight and child height and weight, and continuing collection of information on program implementation. In addition, there is a possibility that saliva would be collected to measure cotinine and cortisol. If so, a request for a nonsubstantive change request will be submitted.

OMB approved a data collection package for Phase 1 in July 2012. This document provides support for the data collection efforts of Phase 2.

**A2. Purpose and use of the information collection: How, by whom, and for what purpose the information is to be used**.

Phase 1 of the evaluation includes three broad sets of data collection activities, which were previously approved by OMB. These are summarized below:

1. Collect information from state MIECHV administrators and local programs to inform the selection of states and sites for the evaluation. The overall goal of site recruitment in MIHOPE is to select approximately 85 sites across approximately 12 states.
2. Recruit families into the study and collect baseline information on families using a one-hour telephone survey.
3. Collect information on the implementation of home visiting programs. Information on program implementation comes from surveys of home visitors, home visitor supervisors, home visiting program managers; semi-structured interviews with MIECHV administrators; surveys of administrators of other programs serving the same communities as those served by evaluation sites; logs maintained by supervisors and home visitors; and semi-structured interviews with home visiting program staff at evaluation sites.

Phase 2 of the evaluation will include the following activities (more detailed information for each activity follows this list):

1. Collect information on participating families through a one-hour telephone survey when the child is approximately 15 months old. The follow-up survey will provide information on each domain specified for evaluation in the ACA.
2. Conduct direct observations of parent-child interactions using the three bags task, which is intended to capture the parenting constructs of parental sensitivity, cognitive stimulation, positive regard, intrusiveness, negative regard, detachment, relationship quality (degree of relatedness and mutual engagement), and boundary dissolution (parent’s inability to maintain an appropriate role in his or her interaction with child). From this task, children’s behaviors towards the parent will also be gathered in the context of the parent-child interaction, including engagement with the parent, sustained attention, and negativity towards the parent. In addition, the parent and child dyad will be observed in a “cleaning up” task in which they are asked to clean up the objects from the three bags task. The clean-up task will be used to assess parent’s use of guidance and control strategies, as well as the child’s compliance.
3. Administer the Preschool Language Scales, Fifth Edition (PLS-5), Auditory Comprehension scale to assess the child’s ability to be attentive and respond to stimuli in the environment and to comprehend basic vocabulary or gestures at 15 months.
4. Measure the child’s weight and height to provide information on whether the child’s growth is within a normal range or exhibits early signs of underweight or obesity. In addition, measure the mother’s weight to assess the effects of home visiting on maternal weight and obesity.
5. Continue to collect information on the implementation of home visiting programs through weekly logs completed by home visitors. Data on program implementation will be used to describe how home visiting programs are organized and operated, how services are related to staff and family characteristics, and how features of local programs are related to impacts of local programs. Logs maintained by home visitors will be collected through June 2016 or until the child is no longer in the home visiting program. Weekly logs provide information on how often home visits are conducted and the content of the visits. The log submitted with this package have been updated slightly from the version approved by OMB during Phase 1 of MIHOPE. If home visitor logs need to be collected beyond the expiration date of this OMB clearance, a request for information collection extension will be submitted.
6. Possibly, collect saliva from the parent and child for purposes of measuring cotinine and cortisol. Cotinine is an indicator of smoking behavior and exposure to second-hand smoke. The association between mother’s and child’s cortisol has been found to be stronger in households with better parenting practices and better parent-child interactions.

The remainder of this section provides more detail on the various data collection activities included in Phase 2 of MIHOPE.

**Weekly Logs**

The authorizing legislation requires examining how impacts vary across programs. Phase 2 of MIHOPE would address this requirement by exploring how variation in how local home visiting programs were implemented is related to variation in impacts of those programs on parent, child, and family outcomes.

OMB previously approved collection of data on program implementation as part of the Phase 1 data collection package. As part of that package, OMB approved the collection of weekly logs on how home visitors spend their time with families through July 2015 or the child’s 15th month, whichever comes first. Phase 2 will extend the collection of logs through June 2016 for all families, or until the family is no longer receiving home visiting services. This is being done to provide more comprehensive information on dosage since each of the evidence-based models provides services past the child’s 15th month of age. This information will be especially useful if HHS opts for longer follow-up of outcomes for families in the evaluation. A request for an information collection extension will be submitted in the event that the OMB clearance for data collection expires before June 2016.

In addition, the weekly logs approved in the Phase 1 data collection package have been modified to collect information on visits made by individuals from the home visiting program other than the primary home visitor, such as backup staff that conduct home visits when the primary home visitor is unavailable or specialty staff that conduct visits to address a specific issue. Information being collected from logs is provided in Attachment 3.

**Family Follow-up Survey**

The family follow-up survey (Attachment 1) will include information on several domains specified in the ACA: infant and child health; child development; parental health and well-being; parenting practices, attitudes, and beliefs; domestic violence; history with the criminal justice system; family economic self-sufficiency; and use of social services. Survey questions will focus on outcomes for which previous studies of home visiting have found effects and on outcomes that would not be available from other sources (such as administrative records).

Table A.1 lists the constructs that will be collected in these various domains, the sources and proposed measures, and whether they will be collected during Phase 1 or 2. In general, measures were chosen because prior research or theory indicates that home visiting programs may have effects on these outcomes. For example, prior research has found that home visiting programs have favorable impacts on outcomes such as maternal depression, breastfeeding behavior, and access to health care. The follow-up survey will collect information that is not available from other sources, such as administrative data. Some of this information is also collected at baseline, and reassessed at follow-up (such as depressive symptoms).

**Direct Parent-Child Interactions**

Follow-up data collection will include direct assessments of children’s and parents’ interactions with each other, specifically using the three bags task and a “clean-up” task. A protocol for these activities is provided in Section H of Attachment 2. These tasks capture a range of parenting outcomes that are direct targets of home visiting programs, including parental sensitivity, cognitive stimulation, positive regard, intrusiveness, negative regard, detachment, relationship quality (degree of relatedness and mutual engagement), and boundary dissolution (parent’s inability to maintain an appropriate role in his or her interaction with child). These outcomes require independent assessments (as opposed to self-reports, which may be more likely to be influenced by home visiting programs through raising parents’ awareness of preferred or desired responses regarding various types of parenting behaviors). In the proposed task, participants will be given three bags of objects. The first bag will include a board book (such as Goodnight Gorilla), the second bag will include a set of building blocks (such as Lego Duplo), and the third bag will include 2 Little People and 3 farm animals.. All materials will be gender neutral, will not involve sounds or batteries, and the content of each bag are intended to be equally attractive. The book will have few words, so the same book will be provided to both English and Spanish speaking children and parents. Parents are given instructions that are intentionally vague so as to allow parents to display naturally occurring parenting behaviors for about 10 minutes. Coders will subsequently rate the mother on parenting scales and the child will be rated on engagement of the parent, sustained attention, and negativity toward the parent. Children will not be coded for reading behaviors. The task and various adaptions of the task have been successfully administered and coded in a variety of large-scale experimental and longitudinal studies, including the National Evaluation of Early Head Start ([Brady-Smith et al., 2000](#_ENREF_2)), the ECLS-B (Early Childhood Longitudinal Study—Birth Cohort), and Baby FACES.

When the three bags task has been completed, parents and children will be asked to pick up the objects. Parents will be told to behave as they would at home if they were trying to get their child to do something. The task will be videorecorded and coded for parents’ guidance and control strategies, as well as the child’s compliance. The task is expected to last about three minutes or when all of the objects are put back in the bags from the three bags task.

**Direct Child Assessment**

Maternal stimulation of children’s language development is a core component of many home visiting programs. Language development in the second year of life is a predictor of longer-term school readiness and achievement. Furthermore, there is evidence of positive effects of home visiting programs in this area. For these reasons, assessment of children’s language – particularly their receptive language - is an important outcome variable. A direct assessment of the child’s language development will be conducted during Phase 2 using the Preschool Language Scales-5 Auditory Comprehension Scale (PLS-5), which is an individually administered test that assesses the child’s ability to understand language. The child will sit on the mother’s lap while the field interviewer administers this test. For Spanish respondents, field staff will use the Spanish version of the PLS-5. At 15 months, toddlers’ spoken language capabilities are only just beginning to develop. For this reason, the Auditory Comprehension subtest of the PLS-5 will be used. The Auditory Comprehension cluster measures a child’s ability to be attentive and respond to stimuli in the environment and to comprehend basic vocabulary or gestures. A protocol for completing this assessment is provided in Section E of Attachment 2, although the specific questions are not provided because they are proprietary.

**Height and Weight**

Field staff will have the bottom piece of a stadiometer and a weighing scale when they conduct field visits, which they will use to obtain both the mother’s weight and the child’s height and weight. Only the bottom piece of the stadiometer will be used because it is sufficient for measuring the child’s height, and it can be unwieldy to have the top piece of the stadiometer in a crowded house. Direct measurements of the child’s weight and height will provide information on whether the child’s growth is within a normal range or exhibits early signs of unhealthy growth trajectories (i.e., risk of obesity or under-development). Measurement of the mother’s weight along with self-reported height will provide information on whether the mother is obese, which is associated with a host of other health problems. When measuring weight, if the child is willing, the field interviewer will ask him or her to stand on the weighing scale by him or herself. If the child is unwilling to do so, then the staff person will obtain the mother’s weight and then ask her to pick up the child and stand on the scale with the child. The mother’s weight will then be subtracted from this total weight to obtain the child’s weight. These measures are being collected out of concern that the mother may not accurately report her own weight and may not know her child’s current weight and height. A protocol for measuring height and weight is provided in Section F of Attachment 2.

**Home Observation for Measuring the Environment Assessment**

The Home Observation for Measuring the Environment (HOME) will be collected to assesses the quality and amount of stimulation that the child receives in the home as well as observations of the home environment. These assessments provide information on parenting behavior, including social-emotional responsivity, cognitive stimulation, and harsh parenting. Information needed to score the HOME will be obtained from two sources: (1) parent-reported items that are included in the family follow-up survey, and (2) observations by the Mathematica field staff person when they are in the family’s home at follow-up. . Since it does not represent a burden to families, OMB is not being asked to approve the observational component of the HOME assessment. Specifically, it (1) does not require the family to provide any information, and (2) will be conducted at the same time as other in-home aspects of data collection. This is consistent with 44 USC, 5 CFR Ch. 11 (1-1-99 Edition), 1320.3, which indicates that “information” does not generally include facts or opinions obtained through direct observation by an employee or agent of the sponsoring agency or through nonstandardized oral communication in connection with such direct observations. Section K of Attachment 2 shows the areas covered by the observational component of the HOME, although the specific questions are not provided because they are proprietary.

**Saliva Collection**

If saliva is collected, it will be collected from mothers and children for two purposes: (1) to assess their exposure to smoke by measuring levels of cotinine, a metabolite of nicotine; and (2) to measure levels of cortisol, which will provide a physiological measure of attunement between the mother and child. The protocol for saliva collection is provided in Section C of Attachment 2.

Saliva would be used to measure cotinine because evidence suggests that there is a considerable amount of misreporting of smoking behavior in self-reported surveys. For example, a recent analysis by the Centers for Disease Control (CDC) found that nearly one-fourth of pregnant women who smoked reported they did not smoke, as did 10 percent of other female smokers ([Dietz et al., 2011](#_ENREF_3)). Perhaps more important, studies of interventions to reduce smoking have found that those who receive services are more likely to misreport whether they smoke at follow-up, which would result in biased estimates of the effects of home visiting programs on smoking ([Patrick et al., 1994](#_ENREF_13); [Russell, Crawford, & Woodby, 2004](#_ENREF_14); [Studts et al., 2006](#_ENREF_15)). Using saliva to measure cotinine levels would thus provide unbiased estimates of the effects of home visiting on smoking and exposure to smoke, which is a key predictor of maternal health and child health and development.

Saliva samples would also be used to measure salivary cortisol levels in mothers and children. Cortisol is a biomarker of stress in the body and is frequently used as a measure of stress exposure or chronic stress activation. Previous evaluations have demonstrated that home visiting programs can successfully improve the capacity for cortisol regulation among children in foster care ([Mary Dozier, Peloso, Lewis, Laurenceau, & Levine, 2008](#_ENREF_4); [M. Dozier et al., 2006](#_ENREF_5)) and among medically at-risk infants ([Bugental, 2010](#_ENREF_2)).

The standard analysis of cortisol is based on the observation that normal cortisol levels follow a circadian rhythm rising rapidly at wake-time and falling over the course of the day, but that “flatter” cortisol functions and higher overall levels of cortisol over the course of the day are associated with growing up in “toxic stress” conditions, including poverty, abuse, and neglect. This type of analysis requires collecting multiple samples of cortisol across the day, which can be time consuming and expensive and can impose a substantial burden on parents.

Because of the cost of the standard strategy, MIHOPE will be using an alternative approach that is based on recent work by Douglas Granger and others. According to this research, the attunement or correlation between a parent’s cortisol level and the child’s cortisol level is close to zero for very disadvantaged families but higher for better off families, for example, around 0.3 for intact middle class families (Booth, Goslin, Johnson, & Granger, under review; Ruttle, Serbin, Stack, Schwartzman, & Shirtcliff, 2011) Thus, the main hypothesis to be tested in MIHOPE is that the correlation between the mother’s and child’s levels is higher in the home visiting group than in the control group.

If collected, saliva samples would be collected two times from mothers and children during the data collection follow-up visit: once immediately before the three bags task and once about 20 minutes after the three bags task. Two samples would be collected because cortisol measurement can be fairly imprecise with just one sample.

Although the proposed approach has not been used in large-scale studies, MIHOPE could provide evidence that cortisol can be measured more simply than in the past, greatly reducing the burden to families in future studies.

**Table A.1.**

**Follow-up Data Collection: Domains and Constructs**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Domain** | **Constructs** | **Source** | **Proposed measure(s)** | **In Baseline (Phase 1)** | **In Follow-up (Phase 2)** |
| Child health and development |  |  |  |  |  |
| Newborn Health | Overall health; birth weight; length of hospital stay at | PR | Pregnancy Risk Assessment and | X | X |
|  | Birth |  | Monitoring System (PRAMS) |  |  |
|  |  |  |  |  |  |
| Infant and Child Health | Overall health; height/weight; special health care | DA, PR | U.S. Department of Education; National |  | X |
|  | needs; injuries; developmental milestones; |  | Center for Education Statistics; items |  |  |
|  | chronic illnesses; stress; exposure to smoke |  | from Early Childhood Longitudinal |  |  |
|  |  |  | Study, Birth Cohort (ECLS-B); items |  |  |
|  |  |  | from Healthy Families Alaska (HFA) |  |  |
|  |  |  | Interview (Duggan et al., 1999); |  |  |
|  |  |  | PRAMS; saliva sample (if saliva is collected) |  |  |
|  |  |  |  |  |  |
| Child Development | Language development; social and emotional | DA, PR | Preschool Languages Scale-5 Auditory |  | X |
|  | Development |  | Comprehension Scale, Brief Infant |  |  |
|  |  |  | Toddler Social and Emotional |  |  |
|  |  |  | Assessment (BITSEA) |  |  |
| Parenting |  |  |  |  |  |
| Parenting Behavior | Breastfeeding | PR | PRAMS | X | X |
|  | Nutrition; sleep routines; cognitive stimulation; parental sensitivity; positive regard; intrusiveness; negative regard; detachment | PR, OA | Baby FACES Parent Interview; Brief Infant Sleep Questionnaire, Three bags Task; HOME (Caldwell & Bradley, 1984; Linver et al., 2002) |  | X |
|  |  |  |  |  |  |
| Child Maltreatment | Harsh parenting and discipline | PR | Items from the Conflict Tactics |  | X |
|  |  |  | Scale-Parent Child Version (CTS-PC) |  |  |
|  | Contact with Cihild Protective Services | PR | Item from Fragile Families Survey |  | X |
|  |  |  |  |  |  |
| Safety, Stress, Paternal Support | Home Safety Environment | PR, OA | PRAMS, HOME | X | X |
|  | Parenting Stress | PR | Parent Stress Index- Short Form (PSI-SF) | X | X |
|  | Father Involvement | PR | Baby FACES Parent Interview | X | X |
| Parent health and well-being |  |  |  |  |  |
| Maternal Health | Mother's global health; physical health/illness; depression; anxiety; other mental illness; stress | OA, PR, DA | SF-12 Health Survey Scoring Demonstration; California Health Interview Survey (CHIS); | X | X |
|  |  |  | PRAMS; Center for Epidemiologic Studies |  |  |
|  |  |  | Depression Scale (CES-D); Generalized |  |  |
|  |  |  | Anxiety Scale (GAD-7); Pearlin Mastery Scale saliva sample (if saliva is collected) |  |  |

**Table A.1. (continued)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Domain** | **Constructs** | **Source** | **Proposed measure(s)** | **In Baseline (Phase 1)** | **In Follow-up (Phase 2)** |
| Maternal Substance Use | Tobacco use | DA | Saliva sample (if saliva is collected) |  | X |
|  | Tobacco use, substance use; problem alcohol use | PR | PRAMS | X | X |
|  |  |  |  |  |
| Maternal Reproductive Health | Birth control; desired timing of subsequent births | PR | Items from HFA Survey | X | X |
|  |  |  |  |  |  |
| Intimate Partner Violence | Emotional, physical and sexual victimization | PR | CTS scales from Supporting Healthy | X | X |
|  | and perpetration |  | Marriage (SHM) Survey, Women's |  |  |
|  |  |  | Experience and Battery Scale (WEB) |  |  |
|  |  |  |  |  |  |
| Crime | Maternal criminal involvement: arrests | PR | Items from Youth Build Survey | X | X |
|  |  |  |  |  |  |
| Family Self-Sufficiency | Income: Maternal earned income and household income | PR | Supporting Healthy Marriages (SHM) | X | X |
|  | in last month |  | 12-Month Survey |  |  |
|  | Employment: Maternal employment | PR | KS-MO Hard to Employ Survey; Employment | X | X |
|  |  |  | Retention and Advancement (ERA) Survey |  |  |
|  | Public Assistance: Receipt TANF, SNAP, WIC, and UI | PR | SHM 12-Month Survey; HFA interview |  |  |
|  | in last month |  |  |  |  |
|  | Food Security | PR | Economic Research Service |  | X |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Actual Services |  |  |  |  |  |
| Child-Related Screenings, Referral, Coordination, and Service Use | Insurance; access to preventive/primary care; usual source of care; immunizations; receipt of well child care; hospitalizations; injuries requiring health care; emergency department visit; early intervention services; child care; other social services; oral health care; prescription drug use | PR | PRAMS; HFA Interview; National Survey of Children's Health; (NSCH), Baby FACES Parent Interview; CHIS; National Survey of Children with Special Health Care Needs (NSCSHCN) | X | X |
|  |  |  |  |  |  |
| Mother-related Screenings, Referral, | Insurance; health care access; use of services; | PR | Items from HFA Interview; NHANES; | X | X |
| Coordination, and Service Use | postpartum care; prescription drug use; reproductive |  | NSCSHCN; National Health Interview |  |  |
|  | health care; mental/substance use care; hospitalization; |  | Survey (NHIS); PRAMS |  |  |
|  | Intimate partner violence services |  |  |  |  |

Note: Parent-Reports – PR; Observational Assessment – OA; Direct Assessments – DA

**A3. Use of information technology for data collection to reduce respondent burden**

This study will use information technology, when possible, to minimize respondent burden and to collect data efficiently.

The family follow-up survey will be conducted using computer-assisted telephone interviewing (CATI). CATI allows for the efficient administration of a survey by using skip logic to quickly move to the next appropriate question depending upon a respondent’s previous answer.

The three bags parent-child interaction and clean-up task will be video-recorded on a smart card, which allows for the task to be completed efficiently. The use of electronic recording also ensures that the field staff are more focused on proper administration of the task than other tasks (such as coding).

Logs maintained by home visitors will be collected using web-based applications. These applications will allow for the use of skip patterns to reduce the time needed to complete the various data collection procedures. For example, if a home visitor has not visited a family in a given week, the web-based log would record this information but skip over other questions about the family for that week.

Electronic data collection will also allow the research team to track real-time response rates and to monitor data on a regular basis to ensure data quality. The home visitors will receive weekly reports for their own logs, and the research team will also receive weekly reports. These reports will allow the research team to monitor data collection by detailing who has completed the staff survey, whether each home visitor has completed a weekly log for each of their assigned families, and whether each supervisor has completed a weekly log for each of their team members. Electronic data also aid in maintaining and reviewing data quality. Given the study’s real-time access to the web-based data, research staff will be able to regularly review item frequencies and cross-tabulations to guard against inconsistent or incorrect values. In addition, the web-based system is designed such that invalid responses cannot be entered (e.g., a 9,000 minute supervisory session) and will prompt the respondent accordingly.

**A4. Efforts to identify duplication and use of similar information**

Data being collected for MIHOPE are not available in any other form in a consistent manner across the evaluation’s approximately 85 sites.

Although many home visiting programs assess parents and children on the domains being collected as part of the family follow-up, those assessments will differ by local program, and local programs will not collect similar information on control group members. The follow-up family survey and direct assessments of parent-child interactions and child development provide the only opportunity to collect this information in a consistent way for all families in the study.

Likewise, information that is being collected through weekly logs is not expected to be available in any other form. To understand variations in actual services received, the study must collect uniforminformation across models and program sites. No local program is expected to collect the breadth of information needed by the study team from these logs, and some programs may not collect any of the information in a systematic way. Even if some local programs are collecting some of the information included in the logs, it would be very costly for MIHOPE to align and analyze data from 85 different management information systems (MIS). Program sites vary to the extent that they use an MIS, track service delivery information in the MIS, and track specific service delivery variables. Finally, the study team’s experience in conducting analyses in home visiting studies using service delivery data from program site MIS data indicates that the data are often poor quality. Moreover, in past studies it has taken 1–3 months for local programs to send MIS data, making it impractical to monitor data quality and resolve inconsistencies. Real-time monitoring of data quality will be important for obtaining accurate estimates of service delivery.

Finally, although the follow-up survey asks parents to report on their smoking behavior, the collection of saliva, if it is collected, will provide another source of information on smoking and exposure to smoking, to provide a more accurate indicator of smoking status and exposure.For example*,* although cotinine provides a more reliable measure of recent smoking, it would not pick up less frequent smoking or smoking that had occurred in the past. Self-reports will be valuable for providing a more complete picture of the mother’s smoking history, particularly during pregnancy.

**A5. Burden on small business**

No small businesses are affected by the data collection in this project.

**A6. Consequences to collecting information less frequently**

Follow-up family data. Follow-up family data will be collected only once for each family. Follow-up family data includes the family follow-up survey, direct parent-child observations, direct child observations, maternal weight and child height and weight measurements, the HOME assessment, and maternal and child saliva collection (if collected). Eliminating follow-up family data will reduce the ability of the evaluation to answer questions about the effectiveness of home visiting programs across the range of child and parent domains specified in the ACA. It would also not be able to estimate the effects of home visiting for subgroups of families, as required by the authorizing legislation.

Logs maintained by home visitors. The ability of the evaluation to assess what aspects of implementation of home visiting program models lead to stronger impacts would be compromised without continued monitoring of home visitor logs. Continuing weekly logs will allow the evaluation to assess variations and patterns of services provided to families, and to link child and family functioning outcomes with whether or not specific activities or tasks were completed during a home visit. More generally, from a cost perspective, it will be important to understand whether frequency of visits or duration of a program have implications for differential outcomes for families.

**A7. Special Data Collection Circumstances**

There are no special circumstances requiring deviation from these guidelines.

**A8. Form 5 CFR 1320.8 (d) and consultations prior to OMB Submission**

The 60-day Federal Register notice soliciting comments for the MIHOPE Phase 2 data collection instruments was posted in the Federal Register, Volume 77 Number 148, page 45618 on August 1, 2012. One comment was received. The commentor was supportive of the study and provided three specific suggestions of wording in the measures, which were incorporated into the current version of the instrument. The commentor questioned if the burden estimate for the mother survey was too low. The survey will be pretested with 9 or fewer people and if found to exceed an hour, will be edited so the burden does not exceed the estimated hour.

**A9. Justification for Respondent Payments**

Tokens of appreciation are important, especially in a longitudinal study, to gain respondents’ cooperation and ensure a high response rate and their participation throughout the study, both at the baseline and at the follow-up interview ([James, 2001](#_ENREF_9); [Mack, Huggins, Keathley, & Sundukchi, 1998](#_ENREF_11); [Martin, Abreu, & Winters, 2001](#_ENREF_12)). Gifts of appreciation are most appropriately used in Federal statistical surveys with hard-to-find populations or respondents whose failure to participate would jeopardize the quality of the survey data (e.g., in panel surveys experiencing high attrition), or in studies that impose exceptional burden on respondents, such as those asking highly sensitive questions.

Families participating in the study will receive a $25 gift card to parents for completing the 60-minute follow-up family survey. This amount was also offered for completing the baseline interview, as approved in the Phase 1 information collection request. For the field visit, each child will receive a board book (of a $5 value) and the parent will receive a $20 gift card after completing the in-person data collection pieces. If saliva is collected, the parent will receive $15 for providing saliva for herself and her child. The amount is sufficient to encourage families to continue their participation in the follow-up study but is not overly generous. Offering a lower amount could jeopardize the study and actually cost the government more because it could result in a lower retention of families into the study and more effort expended by the evaluation team to successfully keep families in MIHOPE.

**A10. Privacy provided to respondents**

The study team is committed to protecting the privacy of participants and maintaining the privacy of the data that are entrusted to us; in addition, the study team is experienced in implementing stringent security procedures. Every MDRC and Mathematica employee, including field staff employed for data collection, is required to sign a pledge to assure participants of nondisclosure of private information. Field staff will also be trained in maintaining respondent privacy and data security.

When participants are recruited into the study, they provide signed, informed consent. The consent form includes information about study goals, time required and duration, and the nature of questions that will be asked. Parents will be assured that their responses will be shared only with researchers, will be reported only in the aggregate as part of statistical analyses, and will not affect their receipt of services. If an applicant is a minor, they are asked to assent to be in the study and their parent or guardian is asked for consent , unless the state emancipated minor laws make this unnecessary. The consent form has been revised to reflect the nature of follow-up data collection and is attached. Parents will be reminded of these assurances and of the nature of follow-up data collection activities and will be asked to verbally consent again before they provide information at follow-up.

Due to the sensitive nature of this research (for example, questions about substance use, domestic violence, child maltreatment, parental harshness, and depression), the evaluation has obtained a Certificate of Confidentiality from HRSA. The Certificate of Confidentiality helps to assure sites and participating mothers that their information will be kept private to the fullest extent permitted by law.

Documents shipped from the field and the document transmittal form that accompanies them will contain only identification numbers so that data cannot be attributed to any particular individual. Security will be maintained on the complete set (and any deliverable backups) of all master survey files and documentation, including sample information, tracking information, baseline, and follow-up data. Personally identifiable information will be removed from study files, which will contain a linking identification number that can be used to match records from one data file to another, for example, linking the physiological information to the questionnaire responses. If collected, saliva will only be analyzed for cotinine and cortisol. Finally, data will be available only to staff associated with the project through password protection and encryption keys.

**A11. Justification for sensitive questions**

Questions in some components of the MIHOPE follow-up survey are potentially sensitive for respondents. Parents are asked about personal topics, such as child and parental health, substance abuse, salary and income, intimate partner violence and criminal involvement. To improve understanding of how home visiting programs affect families and children, it will be necessary to ask these types of sensitive questions. For example, maternal substance use is a major risk factor for reduced family well-being and child development. It is thus important to identify mothers with depression because maternal depression can be associated with poor parenting and child outcomes. Measuring these outcomes is important because home visiting programs are intended to reduce these behaviors. As noted in section A4, this information will not be available from other data sources in a consistent manner across the 85 sites and for both program group and control group families.

To ensure that parents are aware of the sensitive nature of the questions, the family follow-up survey will contain instructions that explain questions before they are posed and will remind participants that they may refuse to answer any question. Also, respondents will be informed by research staff prior to the start of the interviews or surveys that their answers will be kept private, that results will only be reported in the aggregate, and that their responses will not affect any services or benefits they or their family members receive. These instructions are shown on page 9 of Attachment 1, which contains the proposed follow-up survey.

Collecting accurate information on smoking behavior among mothers is important because previous studies have found that home visiting can reduce smoking ([Harding, Galano, Martin, Huntington, & Schellenbach, 2007](#_ENREF_8); [Olds et al., 2002](#_ENREF_13)). As discussed in sections A2 and A4, relying only on self-reports would substantially reduce the ability of MIHOPE to estimate impacts of home visiting programs for the subgroup of smokers and on smoking behavior. The evidence suggests that saliva samples are excellent at measuring cotinine. A meta-analysis comparing self-reports to biomarkers found sensitivity – a measure of how often a smoker is correctly identified as such using saliva – of 99 percent (Patrick, et al., 1994). Salivary cotinine has also been used to classify smokers as active, passive, infrequent, or regular ([Kendrick et al., 1995](#_ENREF_10)). Collecting information on cortisol levels will provide a physiological measure of attunement between mother and child, or the matching of behavior, affective states, and biological rhythms. A growing body of research suggests that dyads with more sensitive mothers and their children display greater levels of both behavioral and physiological attunement (Booth, et al., under review; Papp, Pendry, & Adam, 2009; Ruttle, et al., 2011; Sethre-Hofstad, Stansbury, & Rice, 2002; van Bakel & Riksen-Walraven, 2008), thus parents and children in the home visiting group should have more highly correlated cortisol levels than those in the control group.

**A12. Estimate of the hour burden of data collection to respondents**

Table A.2 shows the annual burden of the activities described in this supporting statement.

The team will try to collect follow-up information from all 5,100 families in the study but is assuming 85 percent of families will provide this information, for a total of 4,335 families at follow-up.

The annual burden estimates for site recruitment and Phase 1 data collection efforts are outlined in the first half of Table A.2, and have already been approved by the OMB. The activities that have already been approved include 459 annual burden hours totaling $13,173 for site recruitment activities, and 5,312 annual burden hours totaling $146,091 for Phase 1 data collection efforts.

The annual burden estimates (hours and costs) for Phase 2 data collection efforts are shown in the last panel of Table A.2. The newly requested burden for approval includes 5,389 annual burden hours, for an additional $50,156 in costs. For collecting logs, an hourly wage of $28.70 was used (see Table A.3). This is the mean wage for full-time employees 25 years old and older with a bachelor’s degree or higher according to the Bureau of Labor Statistics’ Current Population Survey 2011. For collecting data from families, an hourly wage of $11.48 was assumed for mothers, which is the median wage for full-time workers 25 years old or older with less than a high school diploma. For children, an hourly wage of $0 was assumed.

Note that the burden per response for home visitor logs is 0.20 hours for Phase 1 data collection and 0.09 hours for Phase 2. Phase 1 will collect information from logs through the child’s 15th months, while Phase 2 would collect log information after the child’s 15th month. The burden per response is lower in Phase 2 because fewer families are expected to be receiving home visiting services after the child’s 15th month.

The total estimates of burden for the study (including site recruitment, Phase 1 data collection, and Phase 2 data collection) are 10,701 hours and about $196,247 in costs.



Burden for Phase 2 data collection and overall, without collection of saliva, is detailed in the following table:

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### **A13. Estimates of Other Total Annual Cost Burden to Respondents and Record Keepers**

There is no additional cost burden to respondents of record keepers.

**A14. Estimates of costs to federal government**

ACF and HRSA are funding these activities. The estimated cost for activities covered in this submission is $12,797,873, or $4,265,958 per year.This includes designing data collection instruments, collecting follow-up family information, and collecting all data on program implementation.

**A15. Changes in burden**

This is an increase in burden approved under the Maternal and Infant Home Visiting Program Evaluation Phase 1 data collection package (0970-0402). The increase is the result of ongoing information collection for the mandated evaluation.

**A16. Tabulation, analysis, and publication plans and schedule**

Site recruitment activities for Phase 1 of MIHOPE began in February 2012 (as approved 1/26/2012 under OMB clearance 0970-0402). States were contacted for the first time between February 2012 and December 2012. Local program sites will be enrolled in the study on a rolling basis from September 2012 through June 2013. Within a site, staff would be surveyed at the time the site enters the study and one year later. In each site, it is expected to take 12-18 months to enroll women, so that sample recruitment and baseline data collection is expected to end in December 2014.

Phase 1 data collection instruments were developed and approved by OMB, including a family baseline survey and all implementation research surveys and logs (OMB clearance 0970-0402, approved 7/12/2012). Phase 1 will produce a report to Congress in 2015. This report will include information on the characteristics of families participating in the evaluation. The report will also include information on organizational factors that will be collected from the implementing agencies.

Phase 2 will include follow-up data collection on family outcomes and results will be presented in three reports.

* The first report will describe findings on program implementation using the baseline and follow-up web-based surveys of program staff and as much data from weekly logs as is available.
* A second report will describe the estimated effects of the programs on the range of domains specified in the ACA and for key groups of families and programs. If saliva is collected, this report will include information obtained from those saliva samples to describe how home visiting services and impacts differed between smokers and nonsmokers. It will also describe the effects of home visiting, if scaled up, to affect health care disparities and health care systems. The second report will further include results from the MIHOPE economic evaluation, including information on program costs and cost-effectiveness for achieving impacts on key outcomes.
* A third report will describe the relationship between the features of home visiting programs and their effects.

**A18. Reasons for not displaying the OMB approval expiration date**

All instruments will display the expiration date of OMB approval.

**A19. Exceptions to Certification Statement**

No exceptions are necessary for this information collection.

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