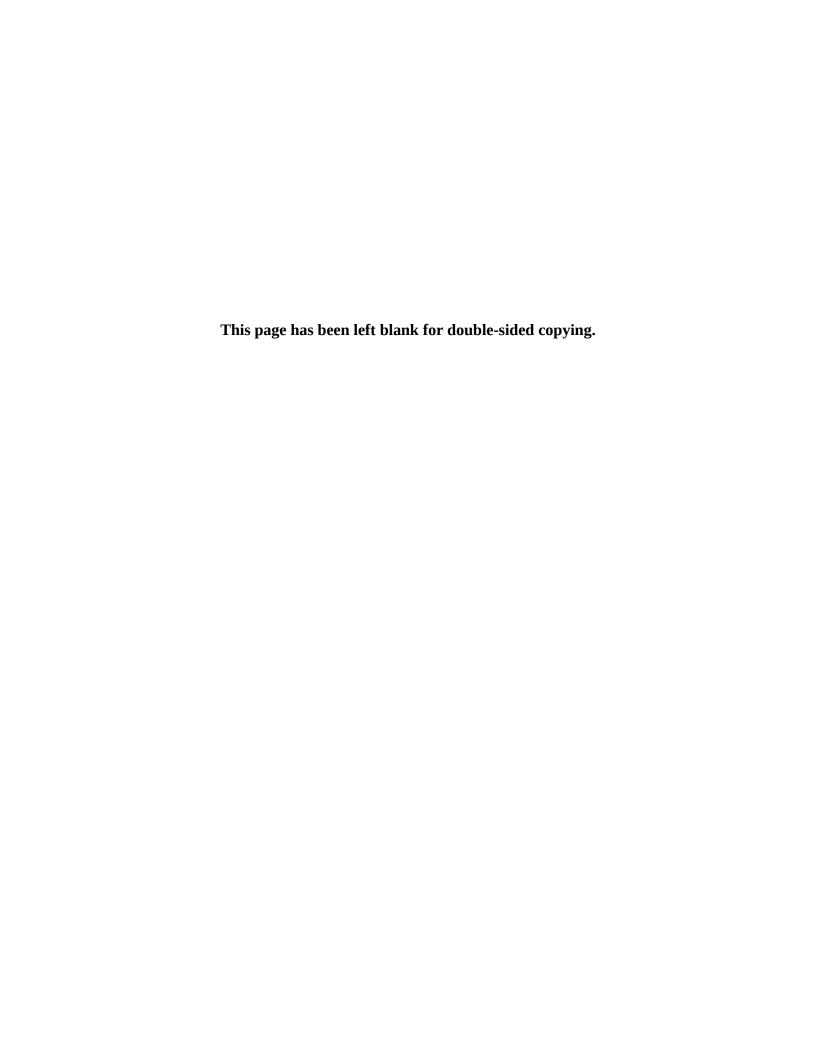
## APPENDIX C: CONCEPTUAL FRAMEWORKS AND RESEARCH QUESTIONS



The building blocks of the conceptual framework for EHS include multiple layers: the resources, assets, contributions, and information available to achieve program goals (inputs); the plans and activities, services, and processes designed to achieve program goals (activities); the direct, tangible results of program efforts, such as level of service delivery and participation (outputs); and the benefits of program participation for children and families (enhanced outcomes). The conceptual framework shows the pathways from inputs for operating EHS programs to program goals of achieving enhanced outcomes for children and families.

Guided by the broad conceptual framework for EHS, we then developed two sub-frameworks that guide the redesign of Baby FACES (from longitudinal in 2009 to cross-sectional in 2018–2020) and serve as a road map for the topics of interest in Baby FACES 2018 and 2020. In developing these sub-frameworks, we identified constructs that are considered to be most important to capture to answer study questions. ACF's priorities for Baby FACES 2018 and Baby FACES 2020 are the processes in classrooms and home visits that support responsive relationships: teacher—child relationships, staff—parent relationships, and parent—child relationships.

Research demonstrates that sensitive and responsive relationships between caregivers and young children are critical for healthy child development (Horm et al. 2016). For this reason, relationship-based care practices are a policy and practice priority in child care settings for infants and toddlers (Sosinsky et al. 2016). EHS relationship-based care practices are intended to support strong relationships among parents, teachers/home visitors, and children. Therefore, in Baby FACES 2018 and 2020, we measure teacher–child relationships, parent–staff relationships, and parent–child relationships. The study is designed to examine associations between program processes and functioning and the development of nurturing, responsive relationships in

classrooms and home visits. We also address questions of how these relationships are associated with outcomes for infants and toddlers in EHS and their families.

Figure 1. Conceptual Framework for Early Head Start

### Inputs

Resources, assets, contributions, and information available to achieving program goals

### Community

- · Strengths and needs
- Resources
- Services

### **Program**

- Service option
- · Services provided by partners
- Program structure and features aligned with needs
- · Resources and funding
- Management and support systems
- Program policies

### Staff

· Demographics

National and regional/state policy, training/TA, and QRIS

Early Head Start regulations/performance standards

- Culture and language
- Qualifications/ experience
- · Physical and mental health
- · Attitudes and beliefs
- · History of leadership

### **Child and Family**

- Demographic and socioeconomic characteristics
- · Culture and language
- Special needs
- · Risk factors

#### Activities

Plans and activities, services, and processes designed to achieve program goals

### **Community Engagement**

- Service coordination
- Referrals

### **Program Processes**

- Implementation of Early Head Start management and support systems
- Organizing data to inform decisions
- Planning for implementation of new initiatives and policies
- EHS-CCP and other partnerships
- Leadership
- Staffing and professional development

#### **Core Services**

- Child development and family support services
- Center-based caregiving
- Home visits
- Family child care
- Services for pregnant women

### Outputs

Direct, tangible results of program efforts, such as level of service delivery and participation

### **Comprehensive Services**

- Partnerships and linkages
- Coordinated and complementary services
- Ease of access to needed services

### **Program Functioning**

- Quality of program processes
- Programmatic decisions supported by data
- New initiatives and policies implemented
- Organizational climate
- Leadership
- Staff retention
- Staff trained
- Staff competencies

#### **Service Characteristics**

- Quality of services
- Data-based individualized services
- Use of curriculum and assessment
- Continuity of care
- · Caregiver-child relationship
- Parent-staff relationship
- · Engagement of families
- · Services offered and received

# Enhanced Outcomes Benefits of program participation for children and families

### Infant/Toddler Development and Learning

- Safety and health
- · Approaches to learning
- Social and emotional development
- Language and literacy
- Cognition
- Perceptual, motor, and physical development

### Family Wellbeing and Efficacy

- Parent wellbeing
- Self-sufficiency
- Family resources and competencies
- Parenting and parent-child relationship
- Home environment

Note: Some of the input factors, for example, child and family characteristics, may directly influence other layers of the framework in addition to Activities. Child and family outcomes learned may also influence the inputs and the activities that programs will take.

• Staff retention (PD

interview)

sufficiency

resources and

competencies

Family

engagement

(parent report)

RQ5a RQ2a. **Classroom Processes Supporting** RQ13. **Responsive Relationships** RO7-9. Infant/Toddler -Relationship-based classroom **Program Processes Outcomes** RQ1. practices and other aspects of **Supporting Responsive** · Language and **Teacher-Child** classroom quality Relationships literacy **Relationships** (teacher interview, classroom (program director interview, Social and RQ10 RQ3a RQ4 (Q-CCIIT, CLASS, STRS) teacher interview) observation) emotional • Structural features (group size, Program goals development Program plans and decision ratio etc.) making processes Activities · Use of curricula T/TA and PD RQ10 Materials Environment RQ6 **RQ16** RQ17 RQ12 RQ12 RQ15. Parent-**RQ11.** Program RQ14. RQ1. **Functioning** Child **Family** Parent-Teacher · Organizational climate (PD Relationships Wellbeing Relationships (staff RQ12 RQ2b. RQ3b RQ6 **RQ17** and staff interview) Home Parent interview, parent **Parent Engagement** · Decisions supported by environment wellbeing interview) Practices/Activities data (PD interview) Parent Self-

Figure 2. Understanding Classroom Processes That Support Responsive Relationships in Early Head Start

RQ3b

RQ3b

(staff interview,

parent interview)

<sup>\*</sup>As an example of mediation, green path shows teacher-child relationships mediate the associations between classroom processes and infant/toddler wellbeing (RQ5b).

**RQ7-8.** RQ2a. **RQ12**. **Program Processes Supporting Responsive Home Visit Processes Supporting Responsive** Infant/Toddler Outcomes Relationships Relationships · Language and literacy (program director interview, -Relationship-based home visit practices Social and emotional and quality home visitor interview) RQ9 development (home visitor interview and home Program goals • Program plans and decision making processes visit observation) T/TA and PD Curricula Interactions · Activities and content RQ11 RQ9 RQ3a RQ3a RQ15 RQ16 RQ11 **RQ10.** RO14. Parent-**RQ13.** RQ1. **Program Functioning** Family **Parent-Home Visitor** Child Organizational Relationships Wellbeing RQ11 RO3b Relationships RQ4 RQ16 RQ2b. climate (PD and staff (staff interview, parent Home Parent **Parent Engagement** interview) wellbeing interview) environment Practices/Activities Decisions supported Parent · Self-sufficiency (staff interview, by data (PD Family RQ3b engagement parent interview) interview) resources and (parent report) · Staff retention (PD RQ3b competencies interview)

Figure 3. Understanding Home Visit Processes That Support Responsive Relationships in Early Head Start

<sup>\*</sup>Green path shows parent-child relationships mediate the associations between home visit processes and infant/toddler wellbeing (RQ5).

### Table 1. Research questions for Baby FACES 2018-2020—pathways for center-based programs

### Service characteristics

- 1. What does relationship quality look like in center-based Early Head Start?
  - Teacher-child relationships
  - Teacher-child relationships
- 2a. How are relationship-based approaches to supporting infant/toddler development embedded in classroom practices, such as interactions, activities, use of curricula and materials, and other features of the environment?
- 2b. What do parent engagement practices and activities look like?
- 3a. How do classroom practices and other aspects of classroom quality relate to teacher-child relationships?
- 3b. How do parent engagement practices and activities relate to parent-teacher relationships, parent-child relationships, and family well-being?
- 4. Are teacher-child relationships associated with infant/toddler outcomes?
- 5a. Are classroom practices or other aspects of classroom quality associated with infant/toddler outcomes?
- 5b. Do teacher-child relationships mediate the associations between classroom practices and other aspects of classroom quality and infant/toddler outcomes?
- 6. How do parent-teacher relationships relate to teacher-child relationships and infant/toddler outcomes?

### **Program processes**

- 7. Are program goals aimed at supporting relationships between caregivers (parents/staff) and infants/toddlers?
- 8. Do program plans and decision-making processes reflect support for relationship-based practices and activities?
- 9. How do staff training, technical assistance, and professional development activities target practices that support the development of nurturing, responsive relationships between caregivers (parents/staff) and infants/toddlers?
- 10. How do program processes and supports (e.g., goals, plans, training and technical assistance, and professional development) relate to quality of practices in the classroom, teacher-child relationship quality, parent engagement practices and activities, parent-teacher relationships, and parent-child relationships? Do classroom practices and quality mediate the associations between program processes and supports and teacher-child relationship quality? Do parent engagement practices and activities mediate the associations of program processes and supports with parent-teacher relationships and parent-child relationships?

### **Program functioning**

- 11. What are the features of program functioning (such as organizational climate, staff retention) in center-based Early Head Start programs?
- 12. How do features of program functioning mediate the associations between program processes and classroom practices and quality, and associations between program processes and parent engagement practices?

### Infant/toddler outcomes

13. How are Early Head Start infants and toddlers faring in key domains of development and learning (e.g., language and social-emotional development)?

### Family well-being

- 14. How are Early Head Start families functioning (e.g., social/economic well-being, family resources and competencies)?
- 15. What do parent-child relationships and home environment look like among Early Head Start families?
- 16. How are parent-child relationships associated with infant/toddler outcomes?
- 17. How is family well-being associated with parent-child relationships and infant/toddler outcomes?

### Table 2. Research questions for Baby FACES 2018-2020—pathways for home-based programs

### Service characteristics

- 1. What does relationship quality look like in home-based Early Head Start?
  - Parent-home visitor relationships
- 2a. How are relationship-based approaches to supporting infant/toddler development embedded in home visit practices, such as interactions, activities and content, and use of curricula? How are parent-home visitor relationships and parent-child relationships supported in home visits?
- 2b. What do parent engagement practices and activities look like?
- 3a. How do home visit practices and quality relate to parent-home visitor relationships and parent-child relationships?
- 3b. How do parent engagement practices and activities relate to parent-home visitor relationships, parent-child relationships, and family well-being?
- 4. How do parent-home visitor relationships relate to parent-child relationships?
- 5. Do parent-child relationships mediate the associations between home visit practice quality and infant/toddler well-being?

### **Program processes**

- 6. Are program goals aimed at supporting parent-home visitor relationships and parent-child relationships?
- 7. Do program plans and decision-making processes reflect support for relationship-based home visit practices and activities?
- 8. How do staff training, technical assistance, and professional development activities target practices that support the development of nurturing, responsive relationships between parents and home visitors and between parents and infants/toddlers?
- 9. How are program processes and supports (e.g., goals, plans, training and technical assistance, and professional development) associated with quality of practice in home visits, parent engagement practices and activities, parent-home visitor relationships, and parent-child relationships? Do home visit practices and quality mediate the associations of program processes and supports with parent-home visitor relationships and parent-child relationships? Do parent engagement practices and activities mediate the associations of program processes and supports with parent-home visitor relationships and parent-child relationships?

### **Program functioning**

- 10. What are the features of program functioning (such as organizational climate, staff retention) in home-based Early Head Start programs?
- 11. How do features of program functioning mediate the associations between program processes and home visit processes and quality, and associations between program processes and parent engagement practices?

### Infant/toddler outcomes

12. How are Early Head Start infants/toddlers faring in key domains of development and learning (e.g., language and social-emotional development)?

### Family well-being

- 13. How are Early Head Start families functioning (e.g., social/economic well-being, family resources and competencies)?
- 14. What do parent-child relationships and home environment look like among Early Head Start families?
- 15. How are parent-child relationships associated with infant/toddler outcomes?
- 16. How is family well-being associated with parent-child relationships and infant/toddler outcomes?
- 17. What can we learn by conducting two home visit observations per home visitor rather than one? That is, how much of the variance in home visit quality is between families within home visitors and between home visitors?

Table 3. Research questions for center-based programs, domains and constructs, and measures

Research questions	Constructs	Measures	Source of data
What does relationship quality look like in center-based Early Head Start?     Teacher-child relationships     Parent-teacher relationships	Teacher-child relationships Closeness and conflict Support for social-emotional, cognitive, and language and literacy development Number of months teacher has been working with the child	Teacher-child relationships  Student-Teacher Relationship Scale, Short Form (STRS-SF)  Q-CCIIT  Survey item	Teacher-child relationships Classroom observation, staff child report – teachers
	<ul> <li>Parent-teacher relationships</li> <li>Support, endorsement, undermining, agreement</li> <li>Trust, clarity of communication,</li> <li>Language of communication</li> <li>Ability to understand one another</li> </ul>	Parent-teacher relationships  • Cocaring Relationship Questionnaire (CRQ)	Parent-teacher relationships Parent survey, staff child report – teachers
2a. How are relationship-based approaches to supporting infant/toddler development embedded in classroom practices and features?	Classroom features and practices  Staff:child ratios and class size  Physical environment and practices  Implementation of curricula and assessment  Use of data for planning and individualization  Languages used for communication and instruction	Classroom features and practices Survey items Adapted Baby FACES 2009 and 2018 teacher survey items	Classroom features and practices Classroom observation, staff survey – teacher, program and center director survey
2b. What do parent engagement practices and activities look like?	Parent engagement practices Family's level of engagement in program Involvement in program activities	Parent engagement practices Survey items Adapted Baby FACES 2018 program director survey items	Parent engagement practices Parent survey, staff child report – teachers, center director survey, program director survey
3a. How do classroom practices and	d other aspects of classroom quality relate to teach	er-child relationships?	see above for same constructs, measures, and data source
3b. How do parent engagement practices and activities relate to parent-teacher relationships, parent-child relationships, and family well-being?	Parent-child relationships Parents' perception of closeness and conflict Parent-child interactions	Parent-child relationships Child-Parent Relationship Scale, Short Form (CPRS-SF) Healthy Families Parenting Inventory (HFPI)	Parent-child relationships Parent child report
	<ul> <li>Home environment</li> <li>Bookreading/storytelling, home learning activities</li> <li>Household chaos</li> <li>Family routines, screen time</li> </ul>	<ul> <li>Home environment</li> <li>Confusion, Hubbub, and Order Scale (CHAOS)</li> <li>Baby FACES 2009 parent survey items</li> <li>Survey items</li> </ul>	Home environment Parent survey

Research questions	Constructs	Measures	Source of data
	Parent well-being Health, depressive symptoms, substance abuse Parenting stress, economic stress, social support Self-sufficiency	Parent well-being Center for Epidemiological Studies-Depression (CESD) Parenting Stress Index (PSI-SF), Economic Strain Questionnaire (ESQ), Healthy Families Parenting Inventory (HFPI) Baby FACES 2009 parent survey items Survey items	Parent well-being Parent survey, parent-child report
4. Are teacher-child relationships associated with infants' and toddlers' outcomes?	Infant/toddler outcomes  Expressive and receptive vocabulary  Gestures, combining words, grammatical complexity (age specific)  Behavior problems and emotional competence	Infant/toddler outcomes     Child Development Inventory (CDI) age specific forms     Brief Infant Toddler Social Emotional Assessment (BITSEA)	Infant/toddler outcomes Parent child report, staff child report – teachers
	aspects of classroom quality associated with infa ediate the associations between classroom praction	nts' and toddlers' outcomes? ces and other aspects classroom quality and infants' and	see above for same constructs, measures, and data source
6. How do parent-teacher relationsh	ips relate to teacher-child relationships and infants	s' and toddlers' outcomes?	see above for same constructs, measures, and data source
7. Are program goals aimed at supporting relationships between caregivers (parents and staff) and infants and toddlers?	Program goals related to supporting responsive relationships and how they are developed and met  Plan to achieve goals related to responsive relationships  Evaluating progress toward goals	Program goals related to supporting responsive relationships and how they are developed and met  • Survey items	Program goals related to supporting responsive relationships and how they are developed and met Program director survey
3. Do program plans and decision- making processes reflect support for relationship-based practices and activities?	Program processes supporting responsive relationships     Considerations in assigning primary caregivers     Processes for facilitating relationship with primary caregiver	Program processes supporting responsive relationships  Survey items Continuity of Care scale (Ruprecht)	Program processes supporting responsive relationships Center director survey, staff child report – teachers
9. How do staff training, technical assistance, and professional development activities target bractices that support the development of nurturing, responsive relationships between caregivers (parents and staff) and infants and toddlers?	Program processes supporting responsive relationships  • Supervision  • Mentoring/coaching  • Training  • Classroom observation	Program processes supporting responsive relationships  Adapted Baby FACES 2009 program director survey items  Adapted FACES 2014 center director survey items  Adapted Baby FACES 2018 teacher survey items  Survey items	Program processes supporting responsive relationships Center director survey, staff survey – teacher

Research questions	Constructs	Measures	Source of data
to quality of practices in the classroo relationships, and parent-child relatio Do classroom practices and quality r	om, teacher-child relationship quality, parent engagonships? mediate the associations between program proces	echnical assistance, and professional development) relate gement practices and activities, parent-teacher uses and supports and teacher-child relationship quality? Doesses and supports with parent-teacher relationships and	see above for same constructs, measures, and data source
11. What are the features of	Program functioning	Program functioning	Program functioning
program functioning (such as organizational climate and staff	Organizational climate	Organizational climate	Center director survey
retention) in center-based Early Head Start programs?	<ul> <li>Leadership, communication, supportiveness and collaboration</li> </ul>	<ul> <li>TCU-Survey of Organizational Functioning (Cohesion, Communication, Stress, and Satisfaction subscales)</li> </ul>	Staff survey – teacher
neau Start programs:	Staff stress, staff satisfaction	<ul> <li>Organizational Climate Description Questionnaire for Elementary Schools [OCDQ-RE] (Supportive behavior)</li> </ul>	
	Data-supported decision making	Data-supported decision making	Data-supported decision
	<ul> <li>Availability of data, uses of data for program</li> </ul>	Survey items	making
	<ul><li>planning</li><li>Barriers and supports for data use</li></ul>	<ul> <li>Adapted Baby FACES 2018 program director survey items</li> </ul>	Program director survey
	Staff retention	Staff retention	Staff retention
	Turnover	Adapted Baby FACES 2009 program director survey	Program director survey,
	<ul> <li>Positions unfilled</li> </ul>	items	center director survey
	Hiring practices	<ul> <li>Adapted Migrant Seasonal Head Start 2017 center director survey items</li> </ul>	
12. How do features of program functioning mediate the associations between program processes and classroom practices and quality and associations between program processes and parent engagement practices?	see above	see above	see above
13. How are EHS infants/toddler faring in key domains of development and learning (for example, language and socialemotional development)?	see above	see above	see above
14. How are EHS families functioning (for example, social and economic well-being and family resources and competencies)?	see above	see above	see above

Research questions	Constructs	Measure:	s Source of data
15. What do parent-child relationships and home environment look like among Early Head Start families?	see above	see above	see above
16. How are parent-child relationships associated with infants' and toddlers' outcomes?	see above	see above	see above
17. How is family well-being associated with parent-child relationships and infants' and toddlers' outcomes?	see above	see above	see above

Table 4. Research questions for home-based programs, domains and constructs, and measures

Research questions	Constructs	Measures	Source of data
What does relationship quality look like in home-based Early Head Start? Parent-home visitor relationships	Parent-home visitor relationships Relationship building with family, responsiveness to family strengths, facilitation of caregiver-child interaction, collaboration with caregiver Parent-home visitor collaboration Support, Goal setting, Tasking, Bonding Trust, Clarity of communication Empowerment, Cultural Competency, Sensitivity—Knowledge, Relationship—Supportive	Parent-home visitor relationships Home Visit Rating Scales—3 (HOVRS-3) Cocaring relationship questionnaire (CRQ; parents only) Working Alliance Inventory (WAI) Strengths-Based Practices Inventory (SBPI)	Parent-home visitor relationships Home visit observation Parent survey, staff child report – home visitors
	Parent-home visitor communication  Communication between visits (how often and mode)  Language of communication  Ability to understand one another	Parent-home visitor communication  Adapted Baby FACES 2018 parent survey and home visitor child report survey items  Mother and Infant Home Visiting Program Evaluation (MIHOPE) weekly log (adapted)	Parent-home visitor communication Parent survey, staff child report – home visitors
2a. How are relationship-based approaches to supporting infant/toddler development embedded in home visit practices, such as interactions, activities and content, and use of curricula? How are parenthome visitor relationships and parentchild relationships supported in home visits?	Curriculum use and home visit plans  Curriculum and assessment use and home visit plans  Use of data for planning and individualization	Curriculum use and home visit plans  Adapted Baby FACES 2018 home visitor survey and program director survey items	Curriculum use and home visit plans Staff survey – home visitor, program director survey
	Home visit alignment     How well did the home visit align with visitor's lesson plan for the visit? If not aligned, why not?	<ul><li>Home visit alignment</li><li>Content and Characteristics Form (adapted)</li></ul>	Home visit alignment Staff child report – home visitors
	Home visit length, content, and language     Topics and activities addressed with family, referrals made for family     Who participated in home visit, parent engagement, and parents' follow-through from previous visit     Language of home visit, if interpreter used	<ul> <li>Home visit length, content, and language</li> <li>MIHOPE weekly log (adapted)</li> <li>Content and Characteristics Form (revised)</li> </ul>	Home visit length, content, and language Staff child report – home visitors, staff survey – home visitor
	Home visit dosage	<ul><li>Home visit dosage</li><li>Adapted Baby FACES 2018 parent survey item</li></ul>	Home visit dosage Parent survey

Research questions	Constructs	Measures	Source of data
	Continuity of care Time home visitor has been working with the family	Continuity of care     Baby FACES 2018 home visitor child report survey item	Continuity of care Staff child report – home visitors
2b. What do parent engagement practices and activities look like?	Parent engagement practices Family's level of engagement in program Involvement in program activities	Parent engagement practices  Survey items  Adapted Baby FACES 2018 program director survey items	Parent engagement practices Parent survey, staff child report – home visitors, program director survey
3a. How do home visit practices and quality relate to parent-home visitor relationships and parent-child relationships?	Parent-home visitor relationship see above	Parent-home visitor relationship see above	Parent-home visitor relationship see above
retuionsinps:	Parent-child relationships Parental sensitivity, parental positive regard, parental stimulation of cognitive development, parental intrusiveness, parental detachment, quality of the relationship Parents' perception of closeness and conflict Parent-child interactions	<ul> <li>Parent-child relationships</li> <li>Parent-Child Interaction Rating Scales (PCIRS)</li> <li>Child-Parent Relationship Scale, Short Form</li> <li>Healthy Families Parenting Inventory (HFPI)</li> </ul>	Parent-child relationships Observation of parent-child interaction Parent child report
	<ul> <li>Home environment</li> <li>Bookreading/storytelling, home learning activities</li> <li>Household chaos</li> <li>Family routines, screen time</li> </ul>	<ul> <li>Home environment</li> <li>Adapted Baby FACES 2018 parent interview survey items</li> <li>CHAOS</li> </ul>	Home environment Parent survey
3b. How do parent engagement practices and activities relate to parent-home visitor relationships, parent-child relationships, and family well-being?	Parent-home visitor relationship see above	Parent-home visitor relationship see above	Parent-home visitor relationship see above
	Parent-child relationships see above Parent well-being • Health, depressive symptoms, substance abuse • Parenting stress, economic stress, social support • Self-sufficiency	Parent-child relationships see above Parent well-being Center for Epidemiological Studies-Depression (CES-D) Parenting Stress Index (PSI-SF) Economic Strain Questionnaire Healthy Families Parenting Inventory Baby FACES 2009 parent interview survey items Adapted National Survey for Drug Use and Health	Parent-child relationships see above Parent well-being Parent survey, parent-child report

Research questions	Constructs	Measures	Source of data
4. How do parent-home visitor relations	nips relate to parent-child relationships?		see above for same constructs, measures, and data source
5. Do parent-child relationships mediate the associations between home visit practice quality and infants' and toddlers' well-being?	Infant/toddler outcomes     Expressive and receptive vocabulary, gestures, combining words, grammatical complexity Behavior problems and emotional competence	<ul> <li>Infant/toddler outcomes</li> <li>Child Development Inventory (CDI) age specific forms</li> <li>Brief Infant Toddler Social Emotional Assessment (BITSEA)</li> </ul>	Infant/toddler outcomes Parent child report, staff child report – home visitors
6. Are program goals aimed at supporting parent-home visitor relationships and parent-child relationships?	Program goals related to supporting responsive relationships and how they are developed and met  Plan to achieve goals related to responsive relationships  Evaluating progress toward goals	Program goals related to supporting responsive relationships and how they are developed and met  • Survey items	Program goals related to supporting responsive relationships and how they are developed and met Program director survey
7. Do program plans and decision- making processes reflect support for relationship-based home visit practices and activities?	Program processes supporting responsive relationships  • Program policy about home visitor continuity	Program processes supporting responsive relationships  Baby FACES 2018 program director survey item	Program processes supporting responsive relationships Program director survey
8. How do staff training, technical assistance, and professional development activities target practices that support the development of nurturing, responsive relationships between parents and home visitors and between parents and infants and toddlers?	Program processes supporting responsive relationships  Supervision  Mentoring/coaching, including methods and topics covered in, frequency and usefulness of mentoring/coaching  Training, including topics covered in, and usefulness of training  Observation of home visits	Program processes supporting responsive relationships  Adapted Baby FACES 2009 program director interview survey items  Adapted FACES 2014 staff survey items  Adapted Baby FACES 2018 home visitor survey items	Program processes supporting responsive relationships Program director survey, staff survey – home visitor
associated with quality of practice in hor relationships? Do home visit practices a	ports (for example, goals, plans, training and technic me visits, parent engagement practices and activities and quality mediate the associations of program processips? Do parent engagement practices and activities and parent-child relationships?	s, parent-home visitor relationships, and parent-child esses and supports with parent-home visitor	see above for same constructs, measures, and data source
10. What are the features of program functioning (such as organizational climate and staff retention) in homebased Early Head Start programs?	Program functioning Organizational climate Leadership, communication, supportiveness and collaboration Staff stress, staff satisfaction	Program functioning Organizational climate  TCU - Survey of Organizational Functioning (Cohesion, Communication, Stress, and Satisfaction subscales)  Organizational Climate Description Questionnaire for Elementary Schools [OCDQ-RE] (supportive behavior)	Program functioning Staff survey – home visitor

Research questions	Constructs	Measures	Source of data
	Data-supported decision making     Availability of data     Uses of data for program planning     Barriers and supports for data use	<ul> <li>Data-supported decision making</li> <li>Survey items</li> <li>Adapted Baby FACES 2018 program director survey items</li> </ul>	Data-supported decision making Program director survey
10. What are the features of program functioning (such as organizational climate and staff retention) in homebased Early Head Start programs? (continued)	Staff retention     Turnover     Positions unfilled     Hiring practices	<ul> <li>Staff retention</li> <li>Adapted Baby FACES 2009 program director survey items</li> <li>Adapted Migrant Seasonal Head Start 2017 center director survey items</li> </ul>	Staff retention Program director survey
11. How do features of program functioning mediate the associations between program processes and home visit processes and quality and associations between program processes and parent engagement practices?	see above	see above	see above
12. How are Early Head Start infants and toddlers faring in key domains of development and learning (for example, language and socialemotional development)?	see above	see above	see above
13. How are Early Head Start families functioning (for example, social and economic well-being, family resources, and competencies)?	see above	see above	see above
14. What do parent-child relationships and home environment look like among Early Head Start families?	see above	see above	see above
15. How are parent-child relationships associated with infants' and toddlers' outcomes?	see above	see above	see above
16. How is family well-being associated with parent-child relationships and infants' and toddlers' outcomes?	see above	see above	see above
17. What can we learn by conducting two home visit observations per home visitor rather than one? That is, how much of the variance in home visit quality is between families within home visitors and between home visitors?	see above	see above	see above