

**Preconception Visit Maternal  
In-Person Questionnaire Outline<sup>1</sup>**

Number of Items	Topic	Source
<b>HOUSEHOLD COMPOSITION AND DEMOGRAPHICS</b>		
4 items	<b>Household Composition</b> (listing of all household members)	NHIS 2000, New
7 items	<b>Age, Sex, Race, Ethnicity, Relationship</b> (all household members)	NHIS 2000, New
2 items	<b>Marital Status and Education</b> (highest level completed; maternal and resident partner)	NHIS 2000, Census
3 items	<b>Employment</b> (hours worked; maternal and resident partner)	SIPP, New
<b>ENVIRONMENT</b>		
26 items	<b>Housing Characteristics</b> (heating, ultrasonic vaporizer, electrostatic air cleaner, portable ozone generator, photocopier, proximity and usage of garage, gasoline exposure, noise, building demolition exposure)	Tucson, AHHS, AHS, ALSPAC, NHEXAS, New
13 items	<b>Pets and Pesticide Use</b> (type, application method, frequency, protective equipment worn, number and type of pets, exposure to flea/tick treatments)	AHHS, CHAMACOS, NHANES, ALSPAC
17 items	<b>Time and Activity</b> (time at home, work and in transit, typical work day and typical non-work day)	BRFSS, New
27 items	<b>Occupational/ Hobby Exposures</b> (number and type of jobs/schooling, job activities, exposure to chemicals/pesticides as part of hobby)	CHAMACOS, NESEH, NHANES
58 items	<b>Occupational Modules</b> (modules for selected occupations such as agricultural worker, barber/beautician, child care worker)	New – compilation of questions from 20 studies

<sup>1</sup> All questions collect maternal information unless otherwise specified.

Number of items	Topic	Source
<b>ENVIRONMENT (continued)</b>		
79 items	<b>Activity Modules</b> (modules related to behaviors associated with selected hobbies or activities such as wood dust exposure and personal protective equipment)	New – compilation of questions from 20 studies
30 items	<b>Product Use</b> (use of creams, lotions, cleaning products)	NHEXAS
<b>HEALTH BEHAVIORS</b>		
15 items	<b>Physical Activity</b> (frequency and duration of moderate and vigorous physical activity, walking and sitting during past week)	IPAQ
5 items	<b>Routine Health Care</b> (place where normally go when sick and when need routine care)	New
9 items	<b>Dental Health</b> (routine cleaning, bone loss, gum health, use of dental floss, use of mouthwash)	Bruce Dye (NHANES) proposed by Oral Health Epi Research Group
12-16 items	<b>Self-rated Health</b> (self-rated overall physical and mental health, ability to do normal activities, impairment and functional status)	Census
4 items	<b>Sleep</b> (amount of sleep during night and day during past week)	NHLBI's Assessing Child and Maternal Sleep in the Early Years (Hunt)
3 items	<b>Douching</b> (frequency and type)	Mark Klebanoff
5 items	<b>Implants</b> (type, age at insertion and history)	Medical Device Implant Supplement to the 1998 NHIS
4 items	<b>Eating Disorders</b> (past or current history)	Marion Balsam

Number of items	Topic	Source
<b>MEDICAL HISTORY</b>		
26 items	<b>Reproductive and Pregnancy History</b> (menarche, age at first pregnancy, pregnancy outcomes, multiple births, gender, birth weight, birth date, mode of delivery, infant death, birth defects, medical care received)	Modified CAPS, Original and modified NHIS, Ken Schoendorf, Ruth Brenner
6 items	<b>Maternal Birth History</b> (birth weight, multiple birth)	Unknown, requested by protocol review team
33 items	<b>Use of Medicines</b> (prescription, non-prescription, supplements and alternative medicine)	Original and modified NHANES 2005, New
<b>INCOME AND HEALTH INSURANCE</b>		
7 items	<b>Income</b> (sources of income, income level, members supported by family income; all household members)	SIPP
4 items	<b>Financial Stress</b> (bank account, financial problems, home ownership)	Fragile Families, ECLS-B
3 items	<b>Food Security</b> (ability to obtain food, type of food desired; all household members)	USDA Food Security Scale
3 items	<b>Health Insurance</b> (type and how obtained)	NHIS 2004
<b>TRACING INFORMATION</b>		
11 items	<b>Tracing Information</b> (moving plans, alternate contact information)	New

**Preconception Visit Maternal  
Mail Questionnaire Outline**

Number of items	Topic	Source
<b>ENVIRONMENT</b>		
201 items	<b>Diet and Toxicant Exposure through Food</b> (frequency and quantity of target foods eaten in past month)	FFQ, 3-Day Checklist

**Preconception Follow-up Maternal  
Telephone Questionnaire Outline<sup>2</sup>**

Number of items	Topic	Source
<b>TRACING INFORMATION</b>		
5 items	<b>Tracing Information</b> (address and marital status updates)	New
<b>MEDICAL HISTORY</b>		
15 items	<b>Pregnancy Update</b> (whether pregnant/trying to become pregnant, birth control methods, when learned pregnant, length trying to become pregnant, use of pregnancy diary)	P1 HH composition and demographic graphics questions, New
<b>HOUSEHOLD COMPOSITION AND DEMOGRAPHICS</b>		
3 items	<b>Employment Update</b> (changes in employment status, job title or occupation)	P1 HH composition and demographic graphics questions
<b>ENVIRONMENT</b>		
6 items	<b>Occupational Exposures<sup>3</sup></b> (changes in work or schooling, new job titles, new job industry)	New
4 items	<b>Pets and Pesticides</b> (use of insecticides or flea/tick treatments)	AHHS, CHAMACOS, NHANES
1 item	<b>Dietary Intake<sup>4</sup></b> (food consumption in past month)	FDA FIRST (plus items from contaminant checklist)

<sup>2</sup> These questions are asked at 1 month, 2 months and 4 months following the preconception visit. The number of questions asked about each topic varies depending on the follow-up contact time period. All questions collect maternal information.

<sup>3</sup> The Occupational/Hobby Exposures questions are asked only at the 2 month follow-up contact.

<sup>4</sup> The Dietary Intake question is asked only at the 2 month follow-up contact.

Number of items	Topic	Source
<b>ENVIRONMENT (continued)</b>		
5 items	<b>Housing Characteristics</b> <sup>5</sup> (use of electrostatic air cleaners, portable ozone generators, photocopiers, exposure to gasoline)	BRFSS, AHHS, CHAMACOS, NHANES, NHEXAS
20 items	<b>Time and Activity</b> <sup>6</sup> (time at home, work and in transit, typical work day and typical non-work day)	BRFSS, New
<b>INSTRUCTIONS FOR FURTHER PARTICIPATION</b>		
3 items	<b>Instructions for Further Participation in the Study</b> (access to pregnancy tests, reminder to call when pregnant)	New

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<sup>5</sup> The Housing Characteristics questions are asked only at the 4 month follow-up contact.

<sup>6</sup> The Time and Activity questions are asked only at the 4 month follow-up contact.

**First Trimester Maternal  
In-Person Questionnaire Outline<sup>7,8</sup>**

Number of items	Topic	Source
<b>ENVIRONMENTAL TRIGGERS</b>		
2 items	<b>Environmental Triggers</b> (use of tap water as main water source, insecticide use)	NHIS 2000, New
<b>HOUSEHOLD COMPOSITION AND DEMOGRAPHICS</b>		
3-4 items	<b>Household Composition</b> (listing of all household members)	NHIS 2000, New
3 items	<b>Biological Father Information</b> (name and address)	New
6 items	<b>Age, Sex, Race, Ethnicity, Relationship</b> (all household members)	NHIS 2000, New
2 items	<b>Marital Status and Education</b> (highest level of education completed; maternal and biological father/ resident partner)	NHIS 2000, Census
<b>ENVIRONMENT</b>		
35-44 items	<b>Housing Characteristics</b> (heating, air conditioning, air filtration, clothes dryer, ultrasonic vaporizer, electrostatic air cleaner, portable ozone generator, photocopier, vacuum cleaner use, proximity and usage of garage, gasoline exposure, noise, building demolition exposure)	Tucson, AHHS, AHS, ALSPAC, NHEXAS, New
11 items	<b>Pets and Pesticide Use</b> (type, application method, frequency, protective equipment worn, number and type of pets, exposure to flea/tick treatments)	AHHS, CHAMACOS, NHANES, ALSPAC

<sup>7</sup> All questions collect maternal information unless otherwise specified.

<sup>8</sup> The number of items asked in each section may vary depending on whether the study participant was interviewed prior to becoming pregnant.

Number of items	Topic	Source
<b>ENVIRONMENT (continued)</b>		
29 items	<b>Time and Activity</b> (time at home, work, and in transit for a typical weekday and a typical weekend day, age of car, seatbelt use, ventilation in car)	BRFSS, New
23 items	<b>Occupational/ Hobby Exposures</b> (number and type of jobs/schooling, job activities, work/schooling hours, hobbies, ventilation systems while doing hobbies, exposure to dust, exhaust, chemicals while doing hobbies)	CHAMACOS, NESEH, NHANES
58 items	<b>Occupational Modules</b> (modules for selected occupations such as agricultural worker, barber/beautician, child care worker)	New – compilation of questions from 20 studies
79 items	<b>Activity Modules</b> (modules related to behaviors associated with selected hobbies or activities such as wood dust exposure and personal protective equipment)	New – compilation of questions from 20 studies
30 items	<b>Product Use</b> (use of creams, lotions, cleaning products)	NHEXAS
<b>HEALTH BEHAVIORS</b>		
16 items	<b>Physical Activity</b> (frequency and duration of moderate and vigorous physical activity, walking and sitting, during past week)	IPAQ
5 items	<b>Routine Health Care</b> (place where normally go when sick and when need routine care)	New
9 items	<b>Dental Health</b> (routine cleaning, bone loss, gum health, use of dental floss, use of mouthwash)	Bruce Dye (NHANES) proposed by Oral Health Epi Research Group



Number of items	Topic	Source
<b>HEALTH BEHAVIORS (continued)</b>		
12-16 items	<b>Self-rated Health</b> (self-rated overall physical and mental health, ability to do normal activities, impairment and functional status)	Census
4 items	<b>Sleep</b> (amount of sleep during night and day, past week)	NHLBI's Assessing Child and Maternal Sleep in the Early Years (Hunt)
3 items	<b>Douching</b> (frequency and type)	Mark Klebanoff
5 items	<b>Implants</b> (type, age at insertion and history)	Medical Device Implant Supplement to the 1998 NHIS
4 items	<b>Eating Disorders</b> (past or current history)	Marion Balsam
<b>MEDICAL HISTORY</b>		
3-23 items	<b>Pregnancy History</b> (menarche, age at first pregnancy, pregnancy outcomes, multiple births, gender, birth weight, birth date, mode of delivery, infant death, birth defects)	Modified CAPS, Ken Schoendorf, Ruth Brenner
12 items	<b>Use of Fertility Services</b> (timing/desire for pregnancy, use of pregnancy services and pregnancy drugs)	NSFG Cycle 6 2003, New
31 items	<b>Reproductive History</b> (medical care received, birth plans, doctor information)	Modified CAPS, original and modified NHIS, New
1-5 items	<b>Maternal Birth History</b> (birth weight, multiple births)	Unknown, requested by protocol review team

Number of items	Topic	Source
<b>MEDICAL HISTORY (continued)</b>		
1 item	<b>Maternal Medical History</b> (asthma, allergies, hypertension, diabetes, cancer, HIV/AIDS, etc.)	Modified NHANES 2004
5 items	<b>Family Medical History</b> (health conditions of mother's mother, father, full brother, full sister)	Modified NHANES 2004
36 items	<b>Use of Medicines</b> (prescription, non-prescription, supplements and alternative medicine)	Original and modified NHANES 2005, New
<b>PERCEIVED STRESS</b>		
10 items	<b>Global Perceived Stress</b> (control over life, self-confidence, nervousness, irritation, anger, in last month)	Cohen's Perceived Stress Scale
7 items	<b>Discrimination</b> (current feelings of unfair treatment, experience of discrimination and past history)	CARDIA
<b>SOCIAL SUPPORT</b>		
13 items	<b>Social Support</b> (size and satisfaction with social support network)	SSQ
<b>MENTAL HEALTH AND COGNITION</b>		
21 items	<b>Maternal Depression</b> (concentration, sadness, fear, loneliness, crying, sleep patterns)	CES-D Scale
<b>FAMILY PROCESS</b>		
13 items	<b>Quality of Relationships</b> (philosophy of life, goals, time spent together, communication, happiness)	Dyadic Adjustment Scale-7
7 items	<b>Domestic Violence</b> (frequency of physical abuse and aggressor in household)	Abuse Assessment Screen, New

Number of items	Topic	Source
<b>TOBACCO/ ALCOHOL/SUBSTANCE ABUSE</b>		
8 items	<b>Tobacco Use/ Environmental Tobacco Smoke Exposure</b> (smoking behavior/ tobacco use before and after becoming pregnant, average environmental exposure)	Modified NSFG Cycle 6, NHANES
20 items	<b>Alcohol Use</b> (consumption of beer, wine, hard liquor and other alcoholic beverages before and after becoming pregnant)	NIOSH CVD, CARDIA, NHANES, NSFG, New
3 items	<b>Illicit Drug Use/ Abuse of Prescription Drugs</b> (use of illicit drugs and prescription drugs, currently and in past year)	CIDI drugs, Modified WHO-Assist V3.0
<b>RELIGION AND CULTURAL BACKGROUND</b>		
3 items	<b>Religious Affiliation</b> (frequency of participation)	National study of youth and religion
8 items	<b>Culture and Acculturation</b> (language, country of birth, length of stay in the United States, connection to cultures outside American culture; maternal and biological father)	2000 census, ECLS-B, New
<b>INCOME AND HEALTH INSURANCE</b>		
2-6 items	<b>Income</b> (sources of income, income level, members supported by family income; all household members)	SIPP
0-4 items	<b>Financial Stress</b> (bank account, financial problems, home ownership)	Fragile families, ECLS-B
3 items	<b>Food Security</b> (ability to obtain food, type of food desired; all household members)	USDA Food Security Scale
3 items	<b>Health Insurance</b> (type and how obtained)	NHIS 2004

Number of items	Topic	Source
<b>TRACING INFORMATION</b>		
11 items	<b>Tracing Information</b> (moving plans, alternate contact information)	New

**First Trimester Maternal  
Mail Questionnaire Outline**

Number of items	Topic	Source
<b>ENVIRONMENT</b>		
201 items	<b>Diet and Toxicant Exposure through Food</b> (frequency and quantity of target foods eaten in past month)	FFQ, 3-Day Checklist

**First Trimester Paternal  
In-Person/Self-Administered Questionnaire Outline**

Number of items	Topic	Source
<b>HOUSEHOLD COMPOSITION AND DEMOGRAPHICS</b>		
4 items	<b>Age, Sex, Race, Ethnicity, Relationship</b> (all household members)	NHIS 2000, New
2 items	<b>Marital Status and Education</b> (highest level completed)	NHIS 2000, Census
3 items	<b>Employment</b> (hours worked)	SIPP, New
<b>MEDICAL HISTORY</b>		
1 item	<b>Paternal Medical History</b> (asthma, allergies, hypertension, diabetes, cancer, HIV/AIDS, etc.)	Modified NHANES 2004
5 items	<b>Family Medical History</b> (health conditions of mother's mother, father, full brother, full sister)	Modified NHANES 2004
<b>RELIGION AND CULTURAL BACKGROUND</b>		
2 items	<b>Religious Affiliation</b> (frequency of participation)	National study of youth and religion
7 items	<b>Culture and Acculturation</b> (language, country of birth, length of stay in the United States, connection to cultures outside American culture)	2000 census, ECLS-B, New
<b>INCOME AND HEALTH INSURANCE</b>		
5 items	<b>Income</b> (sources of income, income level, members supported by family income; all household members)	SIPP
3 items	<b>Financial Stress</b> (bank account, financial problems, home ownership)	Fragile Families, ECLS-B
2 items	<b>Food Security</b> (ability to obtain food, type of food desired; all household members)	USDA Food Security Scale
2 items	<b>Health Insurance</b> (type and how obtained)	NHIS 2004

**Second Trimester Maternal  
Telephone Questionnaire Outline<sup>9</sup>**

Number of items	Topic	Source
<b>MEDICAL HISTORY</b>		
9-13 items	<b>Pregnancy Update</b> (due date, pregnancy loss, birth control, pregnancy diary)	New, Pregnancy screener
30-33 items	<b>Medical Update</b> (NCS medical provider log, doctor visits, hospitalizations, diagnosis, pregnancy symptoms, fever, vaccinations, date of any planned c-section)	New
<b>ENVIRONMENT<sup>10</sup></b>		
10 items	<b>Changes in Job or Schooling</b> (employment and schooling update)	New
6 items	<b>Pets and Pesticides</b> (insecticide use in home, methods of application, pets update)	AHHS, CHAMACOS, NHANES
19 items	<b>Housing Characteristics</b> (heating, air filtration, renovations, use of air cleaning devices update, use of photocopier/laser jet printer update, use of stove)	Tucson, AHHS, AHS, ALSPAC, NHEXAS, New
7 items	<b>Commuting Activities</b> (how normally get to work, number of miles to work, use of seatbelts, exposure to pumped gas)	
<b>MATERNAL MENTAL HEALTH AND COGNITION</b>		
4 items	<b>Depression</b> (whether or not had and length of feelings of sadness or depression)	Sarah Knox

<sup>9</sup> All questions collect maternal information unless otherwise specified.

<sup>10</sup> The questions in the Environment Section only appear in the T16/17 week telephone call; they do not appear in the T36 week telephone call.

Number of items	Topic	Source
<b>PERCEIVED STRESS</b>		
4 items	<b>Life Events</b> (separation from spouse/partner, loss of job, financial pressure, legal problems, natural disasters)	PLES
<b>TRACING INFORMATION</b>		
2 items	<b>Tracing Information</b> (address update)	Pre-conception phone call



**Third Trimester Maternal  
In-Person Questionnaire Outline<sup>11</sup>**

Number of items	Topic	Source
<b>HOUSEHOLD COMPOSITION AND DEMOGRAPHICS</b>		
5 items	<b>Household Composition Update</b> (listing of all household members)	NHIS 2000, New
7 items	<b>Age, Sex, Race, Ethnicity, Relationship</b> (all household members)	NHIS 2000, New
2 items	<b>Marital Status and Education</b> (highest level completed)	NHIS 2000, Census
3 items	<b>Employment Update</b> (hours worked; maternal and biological father/resident partner)	SIPP, New
<b>ENVIRONMENT</b>		
TBD	<b>Time and Activity</b> (time at home, work and in transit, typical weekday and typical weekend day)	New
<b>MEDICAL HISTORY</b>		
5 items	<b>Dental Health Update</b> (recent dental visits)	New
33 items	<b>Health Care Utilization and Current Pregnancy Update</b> (doctor visits, hospitalizations, diagnosis, pregnancy symptoms, fever, vaccinations, where planning to deliver baby, due date, hot tub use)	Pregnancy screener, Modified CAPS
68 items	<b>Use of Medicines</b> (prescription, non-prescription, supplements and alternative medicine)	Original and modified NHANES 2005, New
<b>PERCEIVED STRESS</b>		
11 items	<b>Global Perceived Stress</b> (control over life, self-confidence, nervousness, irritation, anger in past month)	Cohen's Perceived Stress Scale

<sup>11</sup> All questions collect maternal information unless otherwise specified.

Number of items	Topic	Source
<b>PERCEIVED STRESS (continued)</b>		
3 items	<b>Life Events</b> (difficult life events experienced by respondent and her spouse or partner since becoming pregnant)	Lobel's Revised Prenatal Life Events Scale
<b>SOCIAL SUPPORT</b>		
7 items	<b>Social Support</b> (perception of social support)	SSQ
<b>MATERNAL MENTAL HEALTH AND COGNITION</b>		
11 items	<b>Maternal Depression</b> (sadness, loneliness, sleep patterns, perception of how others like them)	CES-D Scale
<b>FAMILY PROCESS</b>		
7 items	<b>Domestic Violence</b> (frequency of physical abuse and aggressor in household)	Abuse assessment screen, New
<b>TOBACCO/ ALCOHOL/SUBSTANCE USE</b>		
4 items	<b>Tobacco Use Update</b> (current tobacco use)	Modified NHANES
12 items	<b>Alcohol Use Update</b> (consumption of beer, wine, hard liquor and other alcoholic beverages before and after becoming pregnant)	NIOSH CVD, CARDIA, NHANES
2 item	<b>Illicit Drug Use/ Abuse of Prescription Drugs Update</b> (current use of prescription drugs)	CIDI drugs, Modified WHO-Assist V3.0
<b>INCOME AND HEALTH INSURANCE</b>		
3 items	<b>Supported by Family Income Update</b>	SIPP
2 items	<b>Health Insurance Update</b> (type and how obtained)	NHIS 2004

Number of items	Topic	Source
<b>TRACING INFORMATION</b>		
11 items	<b>Tracing Information</b> (moving plans, alternate contact information)	New

**3 Month Maternal  
Telephone Questionnaire Outline<sup>12</sup>**

Number of items	Topic	Source
<b>MEDICAL HISTORY</b>		
TBD	<b>Child Medical History</b> (medical events, injuries, vaccinations, car seat usage)	
TBD	<b>Infant Feeding</b> (breast feeding)	
TBD	<b>Persistent Crying/Colic</b>	
<b>PARENTING AND CHILD CARE</b>		
TBD	<b>Child Care</b> (including location, provider information, exposures)	
<b>TRACING INFORMATION</b>		
4 items	<b>Tracing Information</b>	New

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<sup>12</sup> All questions collect maternal information unless otherwise specified.

**6 Month Maternal  
In-Person Questionnaire Outline<sup>13</sup>**

Number of items	Topic	Source
<b>HOUSEHOLD COMPOSITION AND DEMOGRAPHICS</b>		
4 items	<b>Household Composition</b> (listing of all household members)	NHIS 2000, New
4 items	<b>Age, Sex, Race, Ethnicity, Relationship</b> (all household members)	NHIS 2000, New
2 items	<b>Marital Status and Education</b> (highest level completed)	NHIS 2000, Census
3 items	<b>Employment</b> (hours worked; maternal and biological father/resident partner)	SIPP, New
2 items	<b>Supported by Family Income</b> (number of individuals supported by family income)	
3 items	<b>Financial Stress</b> (bank account, financial problems, home ownership)	Fragile families, ECLS-B
2 items	<b>Food Security</b> (all household members)	USDA Food Security Scale
3 items	<b>Health Insurance</b> (type and how obtained)	NHIS 2004
<b>PUBLIC POLICY</b>		
TBD	<b>Program Participation</b>	
<b>PERCEIVED STRESS</b>		
10 items	<b>Global Perceived Stress</b> (control over life, self-confidence, nervousness, irritation, anger)	Cohen's Perceived Stress Scale
25 items	<b>Parenting Stress</b> (attachment, restrictions of role, sense of competence subscales)	Parenting Stress Index

<sup>13</sup> All questions collect maternal information unless otherwise specified.

Number of items	Topic	Source
<b>PERCEIVED STRESS (continued)</b>		
21 items	<b>Work and Family Conflict</b> (strains and benefits associated with combining work and family)	Work and family Conflict scale
<b>SOCIAL SUPPORT</b>		
12 items	<b>Social Support</b> (size and satisfaction with social support network)	SSQ
<b>FAMILY PROCESS</b>		
38 items	<b>Quality of Relationships</b> (philosophy of life, goals, time spent together, communication, happiness)	Dyadic Adjustment Scale, Love and relationships scale
18 items	<b>Division of Labor</b> (division of child care responsibilities within the family, division of household activities such as who pays the monthly bills and who does the grocery shopping)	My time spent as a parent
<b>PARENTING AND CHILD CARE</b>		
TBD	<b>Parenting Practices/Behaviors</b> (attachment to child, activities with the baby, parenting practices having to do with decisions, looking after the child and meals, attitudes about being a parent)	
TBD	<b>Media Exposure</b>	
TBD	<b>Child Care</b> (location, provider information, exposures)	
<b>HEALTH BEHAVIORS</b>		
3 items	<b>Sleep</b> (sleep during night and day)	NHLBI's Assessing Child and Maternal Sleep in the Early Years (Hunt)

Number of items	Topic	Source
<b>ALCOHOL/SUBSTANCE USE</b>		
TBD	<b>Excessive Alcohol Use</b>	
TBD	<b>Substance Use</b>	
<b>MATERNAL MENTAL HEALTH AND COGNITION</b>		
20 items	<b>Maternal Depression</b> (concentration, sadness, fear, loneliness, crying, sleep patterns)	CES-D Scale
<b>ENVIRONMENT</b>		
TBD	<b>Environmental Tobacco Smoke Exposure to Child</b>	
45 items	<b>Housing Characteristics</b> (moved, heating, air conditioning, renovations, windows open, stove/oven use, clothes dryer, ultrasonic vaporizer, garage/carport, water source, vacuum use, allergy proofing)	Tucson, AHHS, AHS, ALSPAC, NHEXAS, New
25 items	<b>Occupational/ Hobby Exposures</b> (number and type of jobs/schooling, job activities, work/schooling hours, drinking water source, exposure to smoking, activities indoors, activities outdoors, exposure to chemicals/pesticides as part of hobby)	CHAMACOS, NESEH, NHANES
11 items	<b>Pets and Pesticide Use</b> (type, application method, frequency, protective equipment worn, number and type of pets, exposure to flea/tick treatments)	AHHS, CHAMACOS, NHANES, ALSPAC
31 items	<b>Time and Activity</b> (transportation of child, seatbelt/car seat use, teething and pacifier use, mouthing of hands and objects, swimming)	BFRSS, New
Observation	<b>Family Home Environment</b>	IT-Home

Number of items	Topic	Source
<b>MEDICAL HISTORY</b>		
62 items	<b>Use of Medicines</b> (including prescription, non-prescription, supplements and alternative medicine for child)	Original and modified NHANES 2005, New
TBD	<b>Child Medical History</b> (medical events, injuries, vaccinations, car seat usage)	
<b>CHILD TEMPERAMENT/EMOTIONAL REGULATION</b>		
15 items	<b>Activity Level</b> (movement of arms and legs, squirming, locomotor activity)	Rothbart IBQ
16 items	<b>Fearfulness</b> (startle or distress to sudden changes in stimulation, novel physical objects or social stimuli, inhibited approach to novelty)	Rothbart IBQ
12 items	<b>Positive Anticipation and Approach</b> (rapid approach, excitement, positive anticipation of pleasurable activities)	Rothbart IBQ
<b>PARENT-CHILD INTERACTION</b>		
Assessment	<b>Parent Child Interaction</b>	Three boxes task
<b>TRACING INFORMATION</b>		
11 items	<b>Tracing Information</b> (moving plans, alternate contact information)	New



**6 Month Maternal  
Mail Questionnaire Outline**

Number of items	Topic	Source
<b>FAMILY PROCESS</b>		
TBD	<b>Quality of Relationships</b>	Dyadic Adjustment Scale
<b>ENVIRONMENT</b>		
TBD	<b>Diet and Toxicant Exposures through Food</b> (frequency and quantity of target foods in past two weeks)	Child Feeding Form, Child 3-Day Checklist,
TBD	<b>Product Use</b> (use of creams, lotions, cleaning products)	

**6 Month Paternal  
In-Peron/Self-Administered Questionnaire Outline**

Number of items	Topic	Source
<b>FAMILY PROCESS</b>		
38 items	<b>Quality of Relationships</b> (philosophy of life, goals, time spent together, communication, happiness)	Dyadic Adjustment Scale
<b>PARENTING AND CHILD CARE</b>		
TBD	<b>Parenting Practices/Behaviors</b> (attachment to child, activities with the baby, parenting practices having to do with decisions, looking after the child and meals, attitudes about being a parent)	ECLS-B
<b>ENVIRONMENT</b>		
TBD	<b>Environmental Tobacco Smoke and Take Home Exposures</b>	
<b>PATERNAL MENTAL HEALTH AND COGNITION</b>		
20 items	<b>Paternal Depression</b> (concentration, sadness, fear, loneliness, crying, sleep patterns)	CES-D Scale

**9 Month Maternal  
Telephone Questionnaire Outline<sup>14</sup>**

Number of items	Topic	Source
<b>MEDICAL HISTORY</b>		
TBD	<b>Child Medical History</b> (medical events, injuries, vaccinations, car seat usage)	
TBD	<b>Infant Feeding</b> (breast feeding)	
<b>PARENTING AND CHILD CARE</b>		
TBD	<b>Child Care</b> (location, provider information, exposures)	
<b>ENVIRONMENT</b>		
TBD	<b>Housing Characteristics</b> (age of home, renovations, drinking and cooking water source, noise, dust, treatment of water for formula, allergy proofing)	Tucson, AHHS, AHS, ALSPAC, NHEXAS, New
2 items	<b>Pets and Pesticide Use</b> (application method)	AHHS, CHAMACOS, NHANES, ALSPAC
29 items	<b>Time and Activity</b> (transportation of child, seatbelt/car seat use, teething and pacifier use, mouthing of hands and objects)	
<b>TRACING INFORMATION</b>		
4 items	<b>Tracing Information</b> (contact information update)	New

<sup>14</sup> All questions collect maternal information unless otherwise specified.

**12 Month Maternal  
In-person Questionnaire Outline<sup>15</sup>**

Number of items	Topic	Source
<b>HOUSEHOLD COMPOSITION AND DEMOGRAPHICS</b>		
4 items	<b>Household Composition</b> (listing of all household members)	NHIS 2000, New
4 items	<b>Age, Sex, Race, Ethnicity, Relationship</b> (all household members)	NHIS 2000, New
2 items	<b>Marital status and Education</b> (highest level completed)	NHIS 2000, Census
3 items	<b>Employment</b> (hours worked; maternal and biological father/resident partner)	SIPP, New
2 items	<b>Supported by Family Income</b> (number of individuals supported by family income)	
3 items	<b>Health Insurance</b> (type and how obtained)	NHIS 2004
<b>PUBLIC POLICY</b>		
TBD	<b>Program Participation</b>	
<b>FAMILY PROCESS</b>		
TBD	<b>Family Process</b>	
<b>PARENTING AND CHILD CARE</b>		
TBD	<b>Parenting Practices/Behaviors</b> (attachment to child, activities with the baby, parenting practices having to do with decisions, looking after the child and meals, attitudes about being a parent)	ECLS-B
TBD	<b>Media Exposure</b>	
TBD	<b>Child Care</b> (location, provider information, exposures)	

<sup>15</sup> All questions collect maternal information unless otherwise specified.

Number of items	Topic	Source
<b>MENTAL HEALTH AND COGNITION</b>		
TBD	<b>Maternal Mental Health and Cognition</b>	
<b>ALCOHOL/SUBSTANCE USE</b>		
TBD	<b>Excessive Alcohol Use</b>	
TBD	<b>Substance Use</b>	
<b>ENVIRONMENT</b>		
TBD	<b>Environmental Tobacco Smoke Exposure to Child</b>	
43 items	<b>Housing Characteristics</b> (moved, heating, air conditioning, renovations, windows open, stove/oven use, clothes dryer, ultrasonic vaporizer, garage/carport, water source, vacuum use, allergy proofing)	Tucson, AHHS, AHS, ALSPAC, NHEXAS, New
TBD	<b>Occupational/ Hobby Exposures</b> (number and type of jobs/schooling, job activities, work/schooling hours, drinking water source, exposure to smoking, activities indoors, activities outdoors, exposure to chemicals/pesticides as part of hobby)	CHAMACOS, NESEH, NHANES
11 items	<b>Pets and Pesticide Use</b> (type, application method, frequency, protective equipment worn, number and type of pets, exposure to flea/tick treatments)	AHHS, CHAMACOS, NHANES, ALSPAC
31 items	<b>Time and Activity</b> (transportation of child, seatbelt/car seat use, teething and pacifier use, mouthing of hands and objects, swimming)	
<b>MEDICAL HISTORY</b>		
62 items	<b>Use of Medicines</b> (prescription, non-prescription, supplements and alternative medicine for child)	Original and modified NHANES 2005, New

Number of items	Topic	Source
<b>MEDICAL HISTORY (continued)</b>		
TBD	<b>Child Medical History</b> (medical events, injuries, vaccinations, car seat usage)	New
<b>CHILD DEVELOPMENT</b>		
TBD	<b>Child Language Development</b>	MacArthur-Bates CDI
TBD	<b>Social Competence</b>	BITSEA
Assessment	<b>General Cognitive Ability, Motor Development, and Language Development</b> (maternal and child)	Bayley III
<b>TRACING INFORMATION</b>		
11 items	<b>Tracing Information</b> (moving plans, alternate contact information)	New

**12 Month Maternal  
Mail Questionnaire Outline**

Number of items	Topic	Source
<b>FAMILY PROCESS</b>		
TBD	<b>Quality of Relationships</b>	Dyadic Adjustment Scale
<b>ENVIRONMENT</b>		
TBD	<b>Diet and Toxicant Exposures through Food</b> (frequency and quantity of target foods in past two weeks)	Child feeding form, Child 3-Day Checklist
TBD	<b>Product Use</b> (use of creams, lotions, cleaning products)	

**12 Month Paternal  
In-Person/Self-Administered Questionnaire Outline**

Number of items	Topic	Source
<b>FAMILY PROCESS</b>		
38 items	<b>Quality of Relationships</b> (philosophy of life, goals, time spent together, communication, happiness)	Dyadic Adjustment Scale
<b>PARENTING AND CHILD CARE</b>		
TBD	<b>Parenting Practices/Behaviors</b> (attachment to child, activities with the baby, parenting practices having to do with decisions, looking after the child and meals, attitudes about being a parent)	
<b>ENVIRONMENT</b>		
TBD	<b>Environmental Tobacco Smoke and Take Home Exposures</b>	
<b>MENTAL HEALTH AND COGNITION</b>		
TBD	<b>IQ and Literacy</b>	Kaufman Brief Intelligence Test, Woodcock-Johnson Letter-Word Identification
<b>PARENT-CHILD INTERACTION</b>		
Assessment	<b>Parent-Child Interaction</b>	Three boxes task



**18 Month Maternal  
Telephone Questionnaire Outline<sup>16</sup>**

Number of items	Topic	Source
<b>MEDICAL HISTORY</b>		
TBD	<b>Child Medical History</b> (medical events, injuries, vaccinations, car seat usage)	
TBD	<b>Infant Feeding</b> (breast feeding)	
<b>PARENTING AND CHILD CARE</b>		
TBD	<b>Child Care</b> (location, provider information, exposures)	
<b>MAJOR LIFE EVENTS</b>		
TBD	<b>Major Life Events</b>	
<b>ENVIRONMENT</b>		
7 items	<b>Housing Characteristics</b> (drinking and cooking water source, allergy proofing)	Tucson, AHHS, AHS, ALSPAC, NHEXAS, New
2 items	<b>Pets and Pesticide Use</b> (application method)	AHHS, CHAMACOS, NHANES, ALSPAC
TBD	<b>Occupational/ Hobby Exposures</b> (number and type of jobs/schooling, job activities, work/schooling hours, drinking water source, exposure to smoking, activities indoors, activities outdoors, exposure to chemicals/pesticides as part of hobby)	CHAMACOS, NESEH, NHANES
27 items	<b>Time and Activity</b> (transportation of child, seatbelt/car seat use, mouthing of hands and objects)	

<sup>16</sup> All questions collect maternal information unless otherwise specified.

Number of items	Topic	Source
<b>TRACING INFORMATION</b>		
4 items	<b>Tracing Information</b>	New

**24 Month Maternal  
Telephone Questionnaire Outline<sup>17</sup>**

Number of items	Topic	Source
<b>MEDICAL HISTORY</b>		
TBD	<b>Child Medical History</b> (medical events, injuries, vaccinations, car seat usage)	
TBD	<b>Infant Feeding</b> (breast feeding)	
<b>PARENTING AND CHILD CARE</b>		
TBD	<b>Child Care</b> (location, provider information, exposures)	
<b>MAJOR LIFE EVENTS</b>		
TBD	<b>Major Life Events</b>	
<b>ENVIRONMENT</b>		
7 items	<b>Housing Characteristics</b> (heat source, age of home, renovations, windows open, ultrasonic vaporizer, gasoline storage, pumped gas, tap water source, vacuum use, noise and dust, water damage, mildew, humidifier, dehumidifier, allergy proofing)	Tucson, AHHS, AHS, ALSPAC, NHEXAS, New
11 items	<b>Pets and Pesticide Use</b> (use of insecticides, application method, or flea/tick treatments)	AHHS, CHAMACOS, NHANES, ALSPAC
31 items	<b>Time and Activity</b> (transportation of child, seatbelt/car seat use, teething and pacifier use, mouthing of hands and objects, swimming)	
<b>TRACING INFORMATION</b>		
4 items	<b>Tracing Information</b>	New

<sup>17</sup> All questions collect maternal information unless otherwise specified.

