

HBCD

PROTOCOL SUMMARY

VISIT 1: PRENATAL



HEALthy Brain and Child Development
Babies · Brains · Bright Futures

HBCDStudy.org

Prenatal

HBCD Measure	What it Measures	Time (min)
Maternal Health		
American Psychiatric Association (APA) DSM-5 Level 1	Current mental health symptoms, including depression, anxiety, sleep problems, memory, psychosis, personality functioning, etc.	2.5
APA Patient-Reported Outcome Measurement Information System (PROMIS) Level 2	More detailed current mental health symptoms, including anxiety, depression, anger, sleep disturbances, mania, obsessive-compulsive behaviors, and personality functioning	2.5
DSM-5 Severity Scales - Acute Stress or Post-Traumatic Stress Disorder (PTSD)	Severity of acute stress and PTSD symptoms	5
Edinburgh Postnatal Depression Scale (EPDS)	Symptoms of postnatal depression	3
Family History Assessment Module (FHAM)	Family alcohol and substance use, psychiatric history	3
Health History	Parental and current pregnancy health history, medication and other substance exposures	30
Medical Record Extraction	Child's diagnoses, vaccinations, developmental screens, medications, hospitalizations, surgeries, laboratory results	10
Substance Use		
Alcohol, Smoking and Substance Involvement Screening Test (ASSIST)	Lifetime and prenatal substance use	10
Timeline Followback (TLFB)	Quantitative estimates of prenatal alcohol and substance use	30
Biospecimens		
Maternal Blood (whole, serum, plasma)	Metals, nutrition, toxins, proteins	9
Maternal Nails	Substance and environmental exposures	15
Maternal Saliva	Genome-wide association studies (GWAS), Epigenome-wide association studies (EWAS), transcriptomes	10
Maternal Urine	Substance and environmental exposures	10

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HBCD Measure	What it Measures	Time (min)
Social and Environmental Determinants		
Baby's First Years (BFY) Services/Support	Use of benefit programs and services during the past 12 months	2
Baby's First Years (BFY) Economic Stress	Experiences with economic stress during the past 12 months	2
Demographics	Race, ethnicity, marital status, sexual orientation, education, income, jobs during pregnancy and work-related environmental exposures (see below), active-duty military	10
Intimate Partner Violence (E-HITS)	Physical or emotional intimate partner violence during the past month	2
Patient-Reported Outcome Measurement Information System (PROMIS) Social Support/ Perceived Stress	Availability of social support and perceptions of stress during the past month	4
Protective and Compensatory Experiences (PACES)	Experiences that protect against risk and increase resilience during the past 12 months	5
PhenX Discrimination	Experiences with unfair and discriminatory treatment during the past 12 months	3
PhenX Neighborhood Safety	Perceptions about safety and crime in the neighborhood	1
Residential History for Geocoded Data Linkage	Home, work, or other frequented addresses for linking to external datasets	5
Work-related Environmental Exposures	Environmental exposures related to employment during pregnancy (temperature, physical activity, noise levels, use of safety and protective equipment, chemicals)	5
Total Visit Time (min)		179

All measures in the prenatal visit apply to the birthing mom only. A proportion of participants (no more than 10%) will be recruited shortly after birth and will complete these assessments postnatally.



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