

HBCD

PROTOCOL SUMMARY

VISIT 5: 10-17 MONTHS



HEALthy Brain and Child Development
Babies · Brains · Bright Futures

HBCDStudy.org

The HEALthy Brain and Child Development Study

The HBCD Study is the largest longitudinal study of early brain and child development in the United States. Knowledge gained from this research will have lasting impacts on future generations of children.

This ambitious project will enroll over 7,000 participating families from across the United States and follow them from pregnancy through early childhood. The HBCD Research Consortium consists of the HBCD Consortium Administrative Core (HCAC), the HBCD Data Coordinating Center (HDCC), and 27 recruitment sites across the country (see map).

Leading researchers in the fields of child development and neuroscience will work with participating families and their children to understand how the brain develops and how exposure to substances and other environmental, social, and biological factors during pregnancy and after birth impact outcomes.

HBCD Open Science Model

The data generated in the study will be made broadly available to the research community through an open science model and serve as a resource to support numerous additional studies and foster new hypotheses to be explored.

Locations of HBCD Recruitment Sites in the United States

Recruitment Sites

- Arkansas Children's Hospital Research Institute
- Boston Children's Hospital | Harvard Medical School
- Cedars-Sinai Medical Center
- Children's Hospital of Los Angeles
- Children's Hospital of Philadelphia
- Cincinnati Children's Hospital
- Emory University
- Johns Hopkins University/Kennedy Krieger Institute
- New York University School of Medicine
- Northwestern University
- Oklahoma State University Center for Health Sciences
- Oregon Health & Science University
- Pennsylvania State University-University Park
- Pennsylvania State University College of Medicine
- University of Alabama at Birmingham
- University of Alabama at Tuscaloosa
- University of Arkansas for Medical Sciences
- University of Maryland
- University of Minnesota
- University of New Mexico
- University of North Carolina Chapel Hill
- University of Vermont
- University of Wisconsin-Madison
- University of California, San Diego
- Vanderbilt University
- Virginia Tech
- Washington University

HCAC

- University of California San Diego
- Boston Children's Hospital | Harvard Medical School

HDCC

- University of California San Diego
- University of Minnesota
- Washington University

10–17 Months of Age

HBCD Measure	What it Measures	Child (min)	Adult (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
Caregiver Occupations and Employment	Occupations and employment schedules of caregivers during the past 12 months		2
Environmental Exposures	Household environmental and chemical exposures		5
	Lead exposures		2
	Second-hand smoke		5
Protective and Compensatory Experiences (PACES)	Experiences that protect against risk and increase resilience during the past 12 months		2
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 data sets		5
Vancouver Index of Acculturation	Participation in culturally relevant activities		5
Transitions in Care			
Transitions in Care Screener	Survey to assess whether there were changes in child's main caregiver since the last visit		3
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10–17 Months of Age

HBCD Measure	What it Measures	Child (min)	Adult (min)
Physical Health			
Infant Nutrition Questionnaire	Assess nutritional behavior related to breastfeeding, formula feeding and introduction of solids.		10
Neurocognition and Language			
Vineland Adaptive Behavior Scales	Communication, daily living skills, social skills and relationships, physical activity, and internalizing and externalizing behaviors		15
Sensory Processing Measure 2 (SPM-2)	Vulnerabilities in the child's sensory systems, including under- and over-reactivity, sensory seeking behaviors, and perception		15
Behavior and Caregiver-Child Interactions			
Early Child Care and Education	Early caregiving and preschool experiences, before the child enrolls in kindergarten		3
Infant Behavior Questionnaire - Revised - Very Short Form (IBQ-R-VSF) + Behavioral Inhibition: Ages 9-11 Months Only	Child temperament, including surgency, negative affect, effortful control, and behavioral inhibition/shyness		10
Multidimensional Assessment Profile Temper Loss (MAP-DB-TL)	Child temperament and temper modulation		2
Patient-Reported Outcome Measurement Information System (PROMIS) Early Childhood	Child-Caregiver Interactions		2
	Peer Relationships		2
	Self-Regulation Flexibility Scale		2
Total Visit Time (min)		98	



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