



## **2019 NYC KIDS Survey Methods Summary**

### **METHODS SUMMARY**

The New York City (NYC) Department of Health and Mental Hygiene conducted the 2019 NYC KIDS Survey, interviewing 8,289 households with one or more children 1-13 years of age via telephone. Respondents were parents, guardians, or other family members who were sufficiently knowledgeable about a randomly-selected child's health, doctor visits, and general activities, as well as family and neighborhood characteristics. The adult respondent was asked to respond about only one child per household. The survey was conducted from May to November 2019. Interviews were conducted in English, Spanish, and Chinese.

### **TARGET POPULATION**

The survey provides estimates that are representative of NYC children 1-4 years, 5-13 years, and 1-13 years of age overall, as well as borough and Neighborhood Health Action Center estimates for children 1-13 years of age overall.

### **CONTENT**

Questions were drawn from national surveys on children's health, such as the National Health Interview Survey and the National Survey of Children's Health, as well as prior NYC surveys, such as the 2009 NYC Child Community Health Survey, the 2015 NYC Child Health, Emotional Wellness and Development Survey, and the 2017 NYC KIDS survey. Additional items were created to address specific health needs of NYC children. Topics included health care access; general health status; mental health; school and childcare enrollment; and infancy and development, including language, learning, delays and disabilities. Questions were also asked about the adult respondent, the child's other parent, the child's home and family composition, as well as the neighborhood environment. Some topics, such as childcare and developmental delays, were asked only about children 1-4 years of age, while other topics were asked about children in other age ranges.

### **SAMPLING METHODOLOGY**

The sample was selected from three partially overlapping sample frames: 1) eligible households interviewed for the 2019 Community Health Survey (CHS); 2) a Birth Certificate (BC) sample, and 3) an Automated School Health Record (ASHR) sample. The study was stratified by nine geographic areas defined by borough and ZIP code: the Neighborhood Health Action Centers in the Bronx, Brooklyn, and

Manhattan; a supplemental sample in the Sunset Park neighborhood of Brooklyn; the remaining areas in each of the Bronx, Brooklyn, and Manhattan; and Queens and Staten Island.

A total of 8,289 respondents completed the 2019 NYC KIDS survey: 738 were recruited from the CHS (111 landline completes and 627 cell phone completes), 5,453 from the BC sample and 2,098 from the ASHR sample.

#### Community Health Survey Sample Overview

The CHS consists of a random digit dial (RDD) landline sample and a cell phone sample. Households that reported having children ages 1-13 were eligible and invited to participate in the KIDS survey. For households with children in both the 1-4 and 5-13 age range, on average the focal child from the 1-4 range was selected 70% of the time and the focal child from the 5-13 age range was selected 30% of the time.

#### Birth Certificate Sample Overview

A sample of unique mothers who gave birth to children in New York City between April 1, 2013 and October 1, 2018 was obtained from the Department of Health and Mental Hygiene's Office of Vital Statistics (OVS). A supplemental sample from the BC frame was selected independently among mothers who resided in the Sunset Park neighborhood at the time of their last birth. The BC sample was selected to over-represent children ages 1-4. For households with children in both the 1-4 and 5-13 age range, the focal child from the 1-4 range was selected on average 70% of the time and from the 5-13 age range 30% of the time.

#### Automated School Health Record Sample Overview

The New York City Department of Education's Automated Student Health Records contains a list of children who attend or attended NYC public schools. A random sample was drawn by the DOHMH Office of School Health from all students born between January 1, 2005 and April 1, 2015 who were currently enrolled, or were ever enrolled, in the NYC public schools. Children ages 6-13 were over-represented in the ASHR sample. For households with children in both the 1-4 and 5-13 age range, the focal child from the 1-4 range was selected on average 70% of the time and from the 5-13 age range 30% of the time.

### **LIMITATIONS**

The data are from proxy reports made by a knowledgeable adult, not from clinical measures or administrative records.

### **WEIGHTING**

Sample weights are needed in any analysis of data from this study so that inferences can be correctly made about the entire NYC child population ages 1-13. The first step was to calculate a base-weight for each interview in each sample to adjust for the probability of selection of a household from the CHS sample, BC or ASHR files, and the selection of one of the two children's age groups of interest, if both

age groups were represented in the household. Because the CHS sample is a representative sample of NYC households with children ages 1 through 13, and the BC and ASHR samples do not provide complete coverage of the NYC child population, the completed KIDS interviews coming from the CHS were used to create control totals to adjust the BC and ASHR samples. The three samples were then pooled with an adjustment factor to account for the overlap between the samples. As a last step, post-stratification weighting was conducted. The goal of post-stratification weighting is to reduce bias in estimates due to differential nonresponse and frame coverage errors. Calculation of variance should incorporate adjustments for the survey's complex design and weighting. In the 2019 NYC KIDS survey, the combined sample was raked to population control totals coming from the 5-year (2014-2018) ACS ZIP code level data for geographic area, child's age group, sex, race/ethnicity (White non-Latino, Black non-Latino, Latino, Asian/Pacific Islander non-Latino, and other race non-Latino), highest level of education in the household, and the percent of children living below poverty

### **SURVEY PARTICIPATION RATES**

The 2016 American Association for Public Opinion Research (AAPOR) Standard Definitions: Final Dispositions of Case Codes and Outcome Rates for Surveys <sup>1</sup> was used to calculate survey participation rates (Response rate #3, Cooperation rate #3). Weighting each frame's response and cooperation rates by the number of completed and partial interviews, the overall response rate for NYC KIDS was 18.3% and the overall cooperation rate was 68.5%.

	CHS Landline sample	CHS Cell phone sample	Birth Certificate sample	Automated School Health Record sample	<b>NYC KIDS Survey Overall</b>
Response rate #3	59.4%	53.7%	15.3%	13.8%	<b>18.3%</b>
Cooperation rate #3	85.4%	85.5%	68.3%	63.5%	<b>68.5%</b>

### **DATA ANALYSIS**

The 2019 NYC KIDS survey provides prevalence estimates of children 1-4 and 5-13 years of age, as well as children 1-13 years of age in New York City overall, by borough and Neighborhood Health Action Centers. There are no immediate plans to create separate weights to provide household-level estimates.

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<sup>1</sup> [https://www.aapor.org/AAPOR\\_Main/media/publications/Standard-Definitions20169theditionfinal.pdf](https://www.aapor.org/AAPOR_Main/media/publications/Standard-Definitions20169theditionfinal.pdf)