

**2007 Influenza Vaccination Module for Children (IVMC)
Analytic and reporting guidelines for data users**

This table summarizes key information that data users need to know prior to data analysis. A detailed design and operations report is forthcoming and will be released as soon as possible.

Who sponsored the 2007 IVMC?	United States (US) Department of Health and Human Services (DHHS), Assistant Secretary for Planning and Evaluation (ASPE)
Who conducted the 2007 IVMC?	DHHS's Centers for Disease Control and Prevention (CDC), National Center for Health Statistics (NCHS), State and Local Area Integrated Telephone Survey (SLAITS) program with contractor assistance
What was this survey designed to do?	<ul style="list-style-type: none"> • Collect data on flu vaccination in children (flu shot and FluMist nasal spray) • Assess selected risk factors for influenza among adults who live in households with children • Examine implementation of the Advisory Committee on Immunization Practices (ACIP) guidelines for the 2006-2007 flu season • Estimate influenza immunization for the US, each of the 50 states, and the District of Columbia (DC)
What is the sample design?	<ul style="list-style-type: none"> • Cross-sectional observational study • Complex survey design (strata, primary sampling unit, clustering) • Random-Digit-Dial (RDD) landline telephone survey of US households with at least one resident child aged 0 to 17 years at the time of the interview
What households were eligible?	<ul style="list-style-type: none"> • Those with at least one resident child under the age of 18 years at the time of the screening telephone call
When were data collected?	April 5, 2007 to September 24, 2007
What sampling frame was used?	All sampled telephone lines to be initially dialed between April and June 2007 for the National Survey of Children's Health (NSCH), which was based on the CDC's National Immunization Survey (NIS) sampling frame http://www.cdc.gov/nis/Default.htm
How many children were selected as the target of the interview per household?	<ul style="list-style-type: none"> • In households with multiple age-eligible children, one child was randomly selected to be the subject of both the NSCH and IVMC interviews • In households with one age-eligible child, that child was selected to be the subject of both interviews
Who was the respondent?	A parent or guardian with knowledge of the health and health care of the selected child
What was the target number of completed interviews per state?	<ul style="list-style-type: none"> • Targeted number of completed IVMC interviews: 21,000 nationally • Actual number of completed IVMC interviews: 21,311 • State-specific targets for number of completed interviews were not established
What does the survey ask about?	<ul style="list-style-type: none"> • Whether the child had one or more selected chronic health conditions during the last 6 months prior to the interview • Receipt of flu shot or FluMist nasal spray in the 12 months prior to the interview • Presence of selected health conditions and risk factors for influenza among adults who live in the child's household • Number of adults in the household who were over 65 years old
Why is the IVMC unique?	<ul style="list-style-type: none"> • IVMC cases can be linked to cases in the 2007 NSCH public use file to examine a broad array of child and family health and well-being variables, and how these might influence influenza immunization uptake • Can determine representative vaccination estimates for the nation, every state, and

	<p>DC</p> <ul style="list-style-type: none"> Data were collected in a standardized manner in all states and DC by one contractor Assessed selected risk factor for influenza among adults who lived in the child's household
Who does this sample represent?	<ul style="list-style-type: none"> All noninstitutionalized US children ages 0 to 17 years at the time of the interview This sample <u>does not</u> generalize to the population of parents, mothers, or pediatric health care providers
Do I have to use a special program to analyze these data?	<p>Yes. Your program must accommodate a complex sample design structure to analyze sample survey data. Examples include SUDAAN, Stata, SPSS, WesVar, and the SAS procedures SURVEYFREQ, SURVEYMEANS, SURVEYREG, & SURVEYLOGISTIC. The sample was stratified by state, and the probability of selection of a child within a household depended on the number of children in the household.</p>
Does the weighting strategy account for the complex sample design? How were these data weighted?	<p>Yes. The final sampling weight incorporated a base weight (i.e., the inverse of the probability of selection of each telephone number within each state). The base weight was then adjusted to account for:</p> <ul style="list-style-type: none"> released telephone lines that could not be determined to belong to a household; nonresponse to the age-eligibility screener; subsampling of children within households; nonresponse to IVMC interviews; households with multiple telephone lines; and children who lived in households without landline telephones. <p>The final weight was also adjusted to match known population control totals with post-stratification. Source of control totals: annual population estimates published by Census; Current Population Survey (CPS)</p>
What is the final sampling weight variable called?	ASPEWT
What was the overall response rate?	<ul style="list-style-type: none"> Calculated using guidelines of the Council of American Survey Research Organizations (CASRO) and the American Association of Public Opinion Research (AAPOR) standards for Response Rate #4 Unweighted overall national response rate: 48.8% (product of the resolution, screener completion, and interview completion rates)
What if I want to look at a particular subgroup of children?	<p>To examine specific population subgroups (such as children living in poverty), you must use the SUBPOPN option in SUDAAN to include the complete design structure. Users should <u>not</u> subset the data, with one exception: subsetting the survey data to a particular state does not compromise the design structure.</p>
What variables do I use to estimate variance?	<ul style="list-style-type: none"> Stratum variable: STATE Household variable (or primary sampling unit, PSU): IDNUMR

If you have additional questions on the IVMC survey after you read this document, please send an email to Kathleen S. O'Connor at koconnor1@cdc.gov or call 301.458.4181.

If you have questions about the SLAITS mechanism, please send an email to slaits@cdc.gov and a staff member will reply as soon as possible.