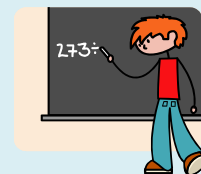


2007 National Survey of Children's Health

SAS CODE FOR DATA USERS:

CHILD HEALTH INDICATORS AND SUBGROUPS
Version 1.2: November 2010



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We further recognize the National Center for Health Statistics (NCHS) SLAITS team who led the data collection and development of the initial code for many DRC indicators. The indicators outlined here represent the intellectual leadership of many DRC advisors and experts nationally and in states.

We also thank the many researchers who continue to seek assistance from CAHMI in understanding and replicating DRC indicators for their own analyses. Their experiences and observations have been very helpful to us in formulating indicator development methods and supplemental content of this codebook.

-- November 2010



INTRODUCTION

Purpose of the 2007 NSCH SAS Codebook

This codebook contains documentation and SAS program statements used in development of variables for the Child Health Indicators and subgroup variables featured in the Data Resource Center for Child and Adolescent Health (DRC) data query for the 2007 National Survey of Children's Health (NSCH). Its purpose is to serve as a resource for researchers and analysts interested in understanding how these measures are conceptualized, constructed and interpreted.

This codebook complements the DRC 2007 NSCH Indicator Data Set, which includes all of the indicator measures and subgroup variables listed herein. The dataset is available free of charge, using the "Request a Dataset" feature on the DRC website, www.childhealthdata.org.

The Data Resource Center for Child and Adolescent Health

The Data Resource Center for Child and Adolescent Health (DRC) is an easy-to-use public Web site that eliminates barriers and reduces time and resources needed to obtain key findings on the health and health care of children, youth and families in the United States. The DRC is funded through a cooperative agreement with the Maternal and Child Health Bureau and is led by The Child and Adolescent Health Measurement Initiative (CAHMI) based at the Oregon Health and Science University in Portland, Oregon. It is located online at www.childhealthdata.org.

A central feature of the DRC is an interactive data search tool that includes over 100 standardized indicators from the four extensive national- and state-based surveys on the health and health care of children, youth and families: the National Survey of Children with Special Health Care Needs (NS-CSHCN), conducted in 2001 and in 2005-2006, and the National Survey of Children's Health (NSCH), conducted in 2003 and in 2007. Survey results can be stratified by the age, race/ethnicity, income and other pertinent characteristics of children and youth nationwide or for any state. The survey questionnaires, sampling diagrams, methods reports, articles and presentations based on the surveys, and other resources may also be accessed on the DRC web site.

Overview of the 2007 NSCH

The 2007 National Survey of Children's Health is a national telephone interview conducted during 2007–2008 by the Centers for Disease Control and Prevention (CDC), National Center for Health Statistics. It is sponsored by the U.S. Department of Health and Human Services Administration, Maternal and Child Health Bureau. The survey is designed to:

- (1) estimate national and state-level prevalence for a variety of child health indicators,
- (2) generate information about children, families, and neighborhoods to help guide policymakers, advocates, and researchers,
- (3) provide baseline estimates for federal and state performance measures, Healthy People 2010 objectives and states' needs assessments, and
- (4) complement the National Survey of Children with Special Health Care Needs (NS-CSHCN).

The NSCH provides a broad range of information about children's health and well-being collected in a manner that allows comparisons among states as well as nationally. For the 2007 survey, a total of 91,642 NSCH interviews were completed nationally by parents/caregivers of children and youth, ranging between 1,725 and 1,932 in each state and the District of Columbia. Survey results are adjusted and weighted to reflect the demographic composition of non-institutionalized children and youth age 0–17 in each state. Questionnaire topics include demographics, physical and mental health status, health insurance, access to and use of health care services, medical home and quality of health care, early childhood (0–5 years) issues, issues specific to middle childhood and adolescence (6–17 years), family health and activities, parental health status and neighborhood characteristics.

The public use data file for the 2007 NSCH, along with relevant background information and documentation is located on the SLAITS NSCH web page, <http://www.cdc.gov/nchs/slaitnsch.htm>. Additional information and results from the NSCH are available in the DRC at www.childhealthdata.org.

Important information about the 2007 NSCH Dataset

Weighting

Each record in the 2007 NSCH public release data set is assigned a single sampling weight, NSCHWT. Sample weighting begins with a base weight which accounts for the probability of selection of each telephone number from among others in its bank of numbers. The base weights are then adjusted for non-resolution of telephone lines, non-response, sub-sampling by age-eligibility, multiple telephone lines, and non-coverage of children in households with no land line. Finally, a raking adjustment is used to match each state's weighted survey responses to selected demographic characteristics of the state's population of non-institutionalized children age 17 and younger. State population counts were obtained from the 2006 and 2007 American Community

Survey (ACS). Counts of children by Metropolitan Statistical Area or non-MSA, age, gender, race, and ethnicity were used in the raking adjustment.

Variance Estimation

Use of statistical software with the capacity to take into account the complex sampling design of the survey is necessary to appropriately calculate the variances and associated standard errors and confidence intervals required for accurate statistical hypothesis testing. Computer programs capable of variance estimation for complex sample designs include SUDAAN, SAS V 9.0+, STATA, WesVar, and SPSS Complex Samples.

The NSCH is designed to provide independent data sets for each of the 50 states and the District of Columbia. Sub setting the survey data to a particular state does not compromise the design structure of the survey. However, sub setting to any other population subgroup (e.g., age group, race/ethnicity, or income) within or across states will lead to incorrect standard error estimation, even if complex samples statistical software is used. To avoid this problem, use a subpopulation procedure that allows for the targeting of specific subpopulations for analysis while retaining the full sample design information, such as SUDAAN's SUBPOPN option.

The only sub-state geographic information included in the NSCH public use data set is a variable for Metropolitan Statistical Area (MSA) status. The MSA status information is available for the 35 states in which the population is at least 500,000 in both categories (MSA and non-MSA). Zip code data is collected with the NSCH; however, this information is not released in the public use data set due to confidentiality restrictions. Confidential data from the survey are managed by the Research Data Center of the NSCH; information on how to access these data may be found on the RDC web page, <http://www.cdc.gov/rdc/>.

Interpretation of Results

Units of analysis. Although respondents to the NSCH survey are parents, the subjects of this survey are children. Cases are weighted to reflect the population of children and youth ages 0–17, not parents, families, or households. Indicators about maternal health and health behaviors are reported as percentage or estimated number of children whose mothers are in excellent health, rather than percentage of mothers who are in excellent health. More examples of indicators subject to this issue are fathers' health and health behaviors, household income, family structure and size, and neighborhood characteristics.

Parent report. All information about children's health and health conditions is derived solely from parents' recollection during the course of a telephone interview. This is especially important with regard to prevalence of children's health conditions and BMI-for-age, which are independently verified in other surveys conducted by the National Center for Health Statistics. The NCHS does not verify information provided by parent respondents in the NSCH.

Prevalence of chronic health conditions. When assessing prevalence, note that a response of "Yes" to having "ever been told" that a child has a specific health condition (e.g., K2Q31A = Yes) DOES NOT indicate whether the child currently has that particular condition and therefore should

not be interpreted as current prevalence. In the 2007 NSCH, respondents whose children who were ever told they have a specific condition were also asked whether the child currently has that condition.

Denominator, denominator, denominator. Analysts are reminded to note the valid denominator of respondents to specific questions when interpreting results for this survey. Although most of the questions were asked for all children ages 0–17, two sections of the survey targeted specific age groups: early childhood (ages 0–5) and middle childhood and adolescence (ages 6–17). In several parts of the survey, follow-up questions are asked only if parents gave a specific response to an earlier question. An Indicator variable may or may not include a category for respondents who were not asked the question. Each indicator page identifies qualifying characteristics of children included in the denominator and in each numerator.

Precision and Reliability. The Data Resource Center follows NCHS guidelines for reliability and precision of statistical results. A percent or prevalence estimate is considered reliable if it is based on a raw count of 25 cases or more and its relative standard error (RSE, also referred to as covariance) is less than 30%. These guidelines are considered together with factors such as number of response options, evidence from other research, study design and purpose, to determine whether and how to report results.

Treatment of unknown/missing values. The variables in this codebook exclude cases with responses of “Don’t know” or “Refused” and those with no response value. For most variables, these unknown values occur in less than one percent of all cases. However, a few questions have higher proportions of unknown values, most notably household income, BMI-for-age, and race/ethnicity. For these and other variables for which the number of missing cases is relevant, the weighted percent missing is shown in “Notes for Data Users.”

Imputed values for household income. The 2007 NSCH public data file provided by the National Center for Health Statistics includes the household income variable POVERTY_LEVELR, which is missing values for 7,817 cases. The NCHS also offers imputed income data files which can be used to estimate household income for children with missing values. Results tables available in the online Data Resource Center use income values obtained by single imputation from one of these NCHS datasets. Appendix C describes single imputation of missing values for income in the DRC Indicator Dataset for the 2007 NSCH.

Verifying measures constructed using Codebook syntax

Unweighted frequency distributions for all of the variables in this codebook are located in Appendix A as a resource for cross checking results. Results may also be compared with results from the DRC online data query: <http://nschdata.org/Dataquery/SurveyAreas.aspx?yid=2>.

Note for SAS users – Codes for missing values in public use data files

The 2007 NSCH public use data file provided by the National Center for Health Statistics includes special codes to differentiate several types of missing values. Since these values are referred to in

code for some of the indicator variables, their definitions are shown in the accompanying table. Further details are presented in the methodology report as cited below.

Code	Category	Description
.N	Not in universe	Respondents skipped an entire section of questions based on eligibility criteria. For the NSCH, sampled children ages 0–5 years were not eligible for Section 7 of the survey, and children ages 6–17 years were not eligible for Section 6 of the survey.
.L	Legitimate skip	Variable is missing due to valid questionnaire paths based on a previous answer to a root question.
.P	Partially completed interview	Variable is missing because the respondent ended the interview after completing Section 6 or Section 7 but before completing the full interview.
.M	Missing in error	Variable is missing due to interviewer or system errors. In cases of interviewer error, the interviewer may have deleted the data by accident or simply may have not entered the response. In cases of system error, the response may not have been collected or saved properly after it was entered by the interviewer in the CATI system.
.A	Added question	Variable is missing because this question was added after the start of data collection and the interview was conducted before the question was added.
.D	Deleted question	Variable is missing because this question was removed after the start of data collection and the interview was conducted after the question was deleted.

Source: Blumberg SJ, Foster EB, Frasier AM, et al. Design and Operation of the National Survey of Children’s Health, 2007. National Center for Health Statistics. *Vital Health Stat 1: Program and Collection Procedures*. 2009, pp. 21-22, <http://www.cdc.gov/nchs/slaits/nsch.htm>

Additional information on survey design and methodology

The National Center for Health Statistics has posted a methodology report for the 2007 NSCH. In this report the reader will find detailed documentation of questionnaire development, sample selection, survey administration, response rates, data cleaning and adjustments, respondent confidentiality, case weighting procedures, analytical requirements, and more. A pre-publication draft of the 2007 NSCH report “Design and Operation of the National Survey of Children’s Health, 2007” may be accessed from the Data Resource Center, www.nschdata.org/content/LearnAboutTheSurvey.aspx, or from the National Center for Health Statistics web page for the NSCH, <http://www.cdc.gov/nchs/slaits/nsch.htm>.

References

1. Bethell CD, Read D, Stein R, Blumberg S, Newacheck P. Identifying Children with Special Health Care Needs: Development and Evaluation of a Short Screening Tool. *Ambulatory Pediatrics*. 2002
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3. U.S. Department of Health and Human Services, Health Resources and Services Administration, Maternal and Child Health Bureau. The National Survey of Children's Health 2007. Rockville, Maryland: U.S. Department of Health and Human Services, 2009.

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2007 National Survey of Children's Health
Child Health Indicators and Subgroup Variables



Physical and Dental Health

Indicator 1.1: Child health status

In general, how would you describe [child name]'s health?

Description	Parent-reported rating of child's overall health
Survey Items	K2Q01
Denominator	Children age 0 through 17 years
Numerator	Children's current overall health status is: excellent or very good; good; fair or poor

Notes for Data Users

Groups the five original response categories (excellent, very good, good, fair, poor) into three.

Revisions

No change; same as 2003

SAS Code and Annotation

```

/*Indicator 1.1: Child Health Status*/

value ch_hlth /*ind1_1_07*/
1 = "Excellent or very good"
2 = "Good"
3 = "Fair or poor";

ind1_1_07 = K2Q01; /*Child Health Status*/
if K2Q01 in (1,2) then ind1_1_07 = 1; /*Excellent or Very Good*/
if K2Q01 in (3) then ind1_1_07 = 2; /*Good*/
if K2Q01 in (4,5) then ind1_1_07 = 3; /*Fair or Poor*/
if K2Q01 > 5 then ind1_1_07 = .; /*Don't know and Refused set to Missing*/
label ind1_1_07 = "Indicator 1.1: Children's overall health status";

```


Indicator 1.2: Overall Oral Health**How would you describe the condition of [child name]'s teeth?**

Description	Parent-reported rating of overall condition of child's teeth
Survey Items	K2Q01_D; AGEYR_CHILD
Denominator	Children age 1 through 17 years who have natural teeth
Numerator	Condition of children's teeth: excellent or very good; good; fair or poor

Notes for Data Users

Groups five response categories (excellent, very good, good, fair, poor) into three.
Excludes 27 children age 1-17 who have no natural teeth (weighted estimate: 0.1% of all children age 1-17).

Revisions

Same question wording in 2003 and 2007; placement of question changed in 2007. In 2003, all dental health questions were asked together at the end of the Section 2. In 2007 K2Q01_D was placed after K2Q01 (general health status) at the beginning of the section. Take these changes into consideration when comparing results across survey years.

SAS Code and Annotation

/*Indicator 1.2: Overall Oral Health*/

value child_hlth /*ind1_2_07*/

1 = "Excellent or very good"

2 = "Good"

3 = "Fair or poor";

ind1_2_07 = K2Q01_D; /*Overall Oral Health*/

if K2Q01_D in (1,2) then ind1_2_07 = 1; /*Excellent or Very Good*/

if K2Q01_D in (3) then ind1_2_07 = 2; /*Good*/

if K2Q01_D in (4,5) then ind1_2_07 = 3; /*Fair or Poor*/

if K2Q01_D in (6) then ind1_2_07 = .; /*Has no Natural Teeth*/

if K2Q01_D in (96,97,.M) then ind1_2_07 = .; /*Don't Know and Refused*/

if AGEYR_CHILD < 1 then ind1_2_07 = .; /*Children less than 1 yr old*/

label ind1_2_07 = "Indicator 1.2: Condition of children's teeth, age 1-17";

Indicator 1.2a: Oral health problems**How many children had 2 or more oral health problems in the past six months?**

Description	Number of oral health conditions endorsed, from a series of four questions: toothache, tooth decay, broken teeth, and bleeding gums
Survey Items	K2Q52; K2Q53; K2Q54; K2Q55; AGEYR_CHILD
Denominator	Children age 1 through 17 years
Numerator	Number of oral health problems from a list of four asked about: none; 1 only; 2 or more (maximum of 4)

Notes for Data Users

Responses to four questions about specific oral health conditions are used to construct Indicator 1.2a. Parents of children 12 months old or older were asked if in the previous 6 months their child has had: toothache (K2Q52), decayed teeth or cavities (K2Q53), broken teeth (K2Q54), or bleeding gums (K2Q55). A count variable is used to group children according to the number of oral health problems they experienced. Children with no natural teeth are included in this indicator.

Revisions

These four questions were added in 2007

SAS Code and Annotation

```
/*Indicator 1.2a: Oral health problems*/
```

```
value ohealth /*ind1_2a_07*/
```

```
0 = "No oral health problems reported"
```

```
1 = "1 oral health problem"
```

```
2 = "2 or more oral health problems";
```

```
ache = K2Q52; /*toothache*/
```

```
decay = K2Q53; /*tooth decay or cavities*/
```

```
broken = K2Q54; /*broken teeth*/
```

```
bleed = K2Q55; /*bleeding gums*/
```

```
array miscode {*} ache decay broken bleed;
```

```
do i=1 to dim(miscode);
```

```
if miscode(i) = 0 then miscode(i)=2;
```

```
if miscode(i) in (6,7,.M) then miscode(i)=.;
```

```
if AGEYR_CHILD < 1 then miscode(i) = .;
```

```
end; drop I;
```

```
label ache = "Percent of children who had any toothaches within the past 6 months (K2Q52)";
```

```
label decay = "Percent of children who had any decayed teeth or cavities within the past 6 months (K2Q53)";
```

```
label broken = "Percent of children who had any broken teeth within the past 6 months (K2Q54)";
```

```
label bleed = "Percent of children who had any bleeding gums within the past 6 months (K2Q55)";
```

```
anydent_prob = 0;
```

```
if ache = 1 then anydent_prob + 1; /*toothache (ages 1-17)*/
```

```
if decay = 1 then anydent_prob + 1; /*Decayed teeth or cavities (ages 1-17)*/
```

```
if broken = 1 then anydent_prob + 1; /*Broken teeth (ages 1-17)*/
```

```
if bleed = 1 then anydent_prob + 1; /*Bleeding gums (ages 1-17)*/
```

```
if ache = . And decay = . And broken = . And bleed = . Then anydent_prob = .;
```

```
label anydent_prob = "# of oral health problems across all items";
```

```
ind1_2a_07 = .; /*Oral health problems*/
```

Physical and Dental Health

```
if anydent_prob > 1 then ind1_2a_07 = 2;/*Has 2 or more oral health problems*/  
if anydent_prob = 1 then ind1_2a_07 = 1;/*Has 1 oral health problem*/  
if anydent_prob = 0 then ind1_2a_07 = 0;/*Has no oral health problems*/  
if anydent_prob = . Then ind1_2a_07 = .;  
label ind1_2a_07 = "Indicator 1.2a: Two or more oral health problems, past 6 months, age 1-17";
```

Physical and Dental Health

Indicator 1.3: Breastfed ever	
Was [child name] ever breastfed or fed breast milk?	
Description	History of breastfeeding among children ages 0-5 years
Survey Items	K6Q40; AGEYR_CHILD
Denominator	Children age 0 through 5 years
Numerator	Children less than 6 years old who were: never breastfed or fed breastmilk; breastfed or fed breast milk during infancy
Notes for Data Users	
Section 6 questions were asked only for children less than 6 years old.	
Revisions	
No change; same as 2003	
SAS Code and Annotation	
<pre> /*Indicator 1.3: Breastfed ever*/ value brstfd_yn /*ind1_3_07*/ 1 = "Yes" 2 = "No"; ind1_3_07 = K6Q40; /*Breastfed ever*/ if ind1_3_07 in (6,7,.N) then ind1_3_07 = .; if ind1_3_07 = 0 then ind1_3_07 = 2; /* RECODES from 0,1 to 1,2 */ label ind1_3_07 = "Indicator 1.3: Ever breastfed or fed breast milk, age 0-5"; </pre>	

Indicator 1.3a: Exclusive breastfeeding**How many children between the ages of 6 months and 5 years old were exclusively breastfed or given breast milk for their first six months?**

Description	Prevalence of exclusive breastfeeding for at least 6 months, children age 6 months to 5 years
Survey Items	K6Q40; K6Q41R; K6Q42R; K6Q43R; AGEYR_CHILD; FLG_06_MNTH
Denominator	Children age 6 months through 5 years
Numerator	Not breastfed; breastfed but given formula or other food before 6 months of age; breastfed exclusively until at least six months of age; breastfed but exclusivity is unknown

Notes for Data Users

Four questions are used to construct this indicator: whether the child was ever breastfed or fed breast milk (K6Q40), age at which breastfeeding stopped (K6Q41), age at which formula was introduced (K6Q42), and age at which anything other than breast milk was introduced (K6Q43). To qualify as having been exclusively breastfed for six months, children must meet all of the following: be at least six months old, did not stop breastfeeding before six months of age, and not introduced to formula or anything other than breast milk (including juice, cow's milk, sugar water, baby food, or anything else, even water) until at least six months old.

Section 6 questions were asked only for children less than 6 years old.

Revisions

This content was new in 2007.

SAS Code and Annotation

```
/*Indicator 1.3a: Exclusive breastfeeding*/
```

```
value ex_brstfd /*ind1_3a_07*/
```

```
1 = "Never breastfed or given breast milk"
```

```
2 = "Exclusively breastfed for first 6 months"
```

```
3 = "Breastfed, NOT exclusively for first 6 months"
```

```
4 = "Breastfed, exclusivity not known";
```

```
mnth_brstfd = K6Q41R;
```

```
if K6Q41R ge 0 then mnth_brstfd = K6Q41R/30;
```

```
if K6Q41R = 9995 then mnth_brstfd = 995;/*Still breastfeeding*/
```

```
if K6Q41R in (9996,9997) then mnth_brstfd = .;
```

```
label mnth_brstfd = "Month child stopped breastfeeding";
```

```
if mnth_brstfd < 6 then mnth_brstfd2 = 1;/*Stoped brstfd < 6mos*/
```

```
if mnth_brstfd >= 6 then mnth_brstfd2 = 2;/*Stoped brstfd >= 6mos*/
```

```
if mnth_brstfd in (.,L,N) then mnth_brstfd2 = .;
```

```
mnth_form= K6Q42R;
```

```
if K6Q42R gt 0 then mnth_form= K6Q42R/30;
```

```
if K6Q42R = 0 then mnth_form= 0;/*Fed formula at birth*/
```

```
if K6Q42R = 9994 then mnth_form= 994;/*Never been fed formula*/
```

```
if K6Q42R in (9996,9997) then mnth_form= .;
```

```
label mnth_form= "Month child first fed formula";
```

```
if mnth_form < 6 then mnth_form2 = 1;/*start form < 6mos*/
```

```
if mnth_form >= 6 then mnth_form2 = 2;/*start form >= 6mos*/
```

```
if mnth_form in (.,L,N) then mnth_form2 = .;
```

```
mnth_food= K6Q43R;
```

Physical and Dental Health

```
if K6Q43R gt 0 then mnth_food= K6Q43R/30;
if K6Q43R = 0 then mnth_food= 0; /*Fed juice/food/cows milk at birth*/
if K6Q43R = 9994 then mnth_food= 994; /*Never been fed juice/food/cows milk */
if K6Q43R in (9996,9997) then mnth_food= .;
label mnth_food= "Month child first fed juice/food/cows milk";

if mnth_food < 6 then mnth_food2 = 1; /*start food >= 6mos*/
if mnth_food >= 6 then mnth_food2 = 2; /*start food >= 6mos*/
if mnth_food in (.,.L,.N) then mnth_food2 = .;

ind1_3a_07 = .;
if K6Q40 = 0 then ind1_3a_07 = 1; /*Never breastfed */
if mnth_brstfd2 = 2 and mnth_form2 = 2 and mnth_food2 = 2 then ind1_3a_07 = 2; /*Exclusive breastfed for at
least 6 months*/
if mnth_brstfd2 = 1 or mnth_form2 = 1 or mnth_food2 = 1 then ind1_3a_07 = 3; /*Not exclusive breastfed for at
least 6 months*/
if K6Q40 = 1 and ind1_3a_07 not in (1,2,3) then ind1_3a_07 = 4; /*Breastfed - Exclusivity Unknown*/
if flg_06_mnth = 1 or AGEYR_CHILD > 5 then ind1_3a_07 = .;
if K6Q40 in (6,7) then ind1_3a_07 = .;
label ind1_3a_07 = "Indicator 1.3a: Exclusively breastfed or fed breast milk for first 6 months, age 6 months-5
years";

/*NOTE: For a list of SAS codes for missing data, see "Note for SAS users – Codes for missing values in public use
data files" in the Introduction, page5.*/
```

Indicator 1.4: BMI for age**What is the weight status of children based on Body Mass Index for age (BMI-for-age)?**

Description	BMI-for-age body weight status of children age 10 - 17, based on parent-reported height and weight
Survey Items	BMICLASS
Denominator	Children age 10 through 17 years
Numerator	Underweight (less than 5th percentile); Healthy weight (5th to 84th percentile); Overweight (85th to 94th percentile); Obese (95th percentile or above)

Notes for Data Users

Indicator 1.4 is derived directly from the variable BMICLASS in the 2007 NSCH public use data file provided by the National Center for Health Statistics.

Assessment of body fat in children and teenagers is approached differently than for adults. Children's body fat composition changes as they grow, and growth patterns are different for boys and girls. Consequently, measurement of body mass for children, known as BMI-for-age, is age and gender specific.

BMI-for-age categories are: Underweight - Less than the 5th percentile; Healthy weight - 5th percentile to less than the 85th percentile; Overweight - 85th to less than the 95th percentile; Obese - Equal to or greater than the 95th percentile. Additional information about BMI-for-age is available from the CDC online at: http://www.cdc.gov/healthyweight/assessing/bmi/childrens_bmi/about_childrens_bmi.html/.

Age in months is used to calculate BMI-for-age. However, since the NSCH reports age only in years, all children were assumed to be at the midpoint of their age-year for this calculation.

BMI for children under 10 years of age is not reported in Indicator 1.4. In the NSCH BMI-for-age is based on parents' recollection of the selected child's height and weight. Responses to questions K2Q02 (child's height) and K2Q03 (child's weight) were not independently verified (e.g., measurement, health records, etc.). A study comparing parent-reported height and weight estimates from the 2003 NSCH with results of physical measurement from the National Health and Nutrition Examination Survey (NHANES) revealed that parents typically overestimate height and underestimate weight of children younger than 10 years of age. (Lara J. Akinbami, Cynthia L. Ogden. (2009) Childhood Overweight Prevalence in the United States: The Impact of Parent-reported Height and Weight. Obesity 17:1574-1580)

Weight and/or height information is missing for 1,796 children age 10-17 years (weighted estimate: 5.3% of all children age 10-17).

Revisions

Items K2Q02 and K2Q03 and calculation of BMI-for-age were not changed since 2003. However, changes in CDC's labeling of the 2 highest BMI-for-age categories are reflected in DRC label changes on for the 2007 NSCH. The 85th to 94th percentile range was changed from "At risk of overweight" to "Overweight." The 95th and higher percentile range was changed from "Overweight" to "Obese."

SAS Code and Annotation

```
/*Indicator 1.4: BMI for age*/
```

```
value bmi /*ind1_4_07*/
```

```
1 = "Underweight (less than 5th percentile)"
```

```
2 = "Healthy weight (5th to 84th percentile)"
```

```
3 = "Overweight (85th to 94th percentile)"
```

```
4 = "Obese (95th percentile or above)";
```

```
ind1_4_07 = BMICLASS; /*BMI for age*/
```

Physical and Dental Health

```
if AGEYR_CHILD < 10 then ind1_4_07 = .;  
if BMICLASS = .M then ind1_4_07 = .;  
label ind1_4_07 = "Indicator 1.4: Weight status - BMI-for-age, 4 categories, age 10-17";
```


Indicator 1.5: Physical activity

During the past week, on how many days did [child name] exercise, play a sport, or participate in physical activity for at least 20 minutes that made [him/her] sweat and breathe hard?

Description	Frequency of vigorous physical activity among school-age children
Survey Items	K7Q41; AGEYR_CHILD
Denominator	Children age 6 through 17 years
Numerator	Number of days during the previous week: 0 days; 1 to 3 days; 4 to 6 days; every day

Notes for Data Users

Responses to K7Q41(number of days during the past week) are grouped into four categories.

Section 7 questions were asked only for children 6 through 17 years of age.

Revisions

Wording of question K7Q41 was revised for 2007. In 2003, item S7Q21 read: "During the past week, on how many days did [child] exercise or participate in a physical activity for at least 20 minutes that made [him/her] sweat and breathe hard, such as basketball, soccer, running, swimming laps, fast bicycling, fast dancing, or similar aerobic activities?" In 2007 the wording was simplified and shortened to: "During the past week, on how many days did [child] exercise, play a sport, or participate in a physical activity for at least 20 minutes that made [him/her] sweat and breathe hard?" Examples of active sports from the 2003 version were moved to a help screen used only when respondents needed assistance. Take these changes into consideration when comparing results across survey years.

SAS Code and Annotation

```
/* Indicator 1.5: Physical Activity*/
```

```
value exercise /*ind1_5_07*/
```

```
1 = "0 days"
```

```
2 = "1-3 days"
```

```
3 = "4-6 days"
```

```
4 = "Everyday";
```

```
ind1_5_07 = .; /*Physical Activity*/
```

```
if K7Q41 = 0 then ind1_5_07 = 1; /* 0 days */
```

```
if 1 <= K7Q41 <= 3 then ind1_5_07 = 2; /* 1-3 days */
```

```
if 4 <= K7Q41 <= 6 then ind1_5_07 = 3; /* 4-6 days */
```

```
if K7Q41 = 7 then ind1_5_07 = 4; /* Everyday */
```

```
if K7Q41 in (96,97) then ind1_5_07 = .;
```

```
if AGEYR_CHILD < 6 then ind1_5_07 = .;
```

```
label ind1_5_07 = "Indicator 1.5: Physical activity, number of days in past week, age 6-17";
```

Indicator 1.6: Missed school days

During the past 12 months, about how many days did [child name] miss school because of illness or injury?

Description	School days missed due to illness or injury
Survey Items	K7Q02R; AGEYR_CHILD
Denominator	Children age 6 through 17 years
Numerator	Number of school days missed in the previous year: 0 days; 1 to 5 days; 6 to 10 days; 11 or more days

Notes for Data Users

Responses to K7Q02R (number of school days missed during the past year) are combined into four categories. Excludes 251 children age 6-17 who were home schooled or not in school (weighted estimate: 0.3% of all children age 6-17).

Section 7 questions were asked only for children between 6 and 17 years of age.

Revisions

No change; same as 2003

SAS Code and Annotation

```
/*Indicator 1.6: Missed School Days*/
```

```
value miss_sch /*ind1_6_07*/
```

```
1 = "0 days"
```

```
2 = "1-5 days"
```

```
3 = "6-10 days"
```

```
4 = "11 or more days";
```

```
ind1_6_07 = .; /*Missed School Days*/
```

```
if K7Q02R in (994,995,996,997) then ind1_6_07 = .;
```

```
if K7Q02R = 0 then ind1_6_07 = 1; /* Did not miss any school days */
```

```
if 1 <= K7Q02R <= 5 then ind1_6_07 = 2; /* Missed 1-5 days */
```

```
if 6 <= K7Q02R <= 10 then ind1_6_07 = 3; /* Missed 6-10 days */
```

```
if 11 <= K7Q02R <= 240 then ind1_6_07 = 4; /*Missed 11 or more days*/
```

```
label ind1_6_07 = "Indicator 1.6: Number of school days missed, past 12 months, age 6-17";
```

Physical and Dental Health

Indicator 1.7: Childhood injuries

During the past 12 months, has [child name] been injured and required medical attention?

Description	Prevalence of injury requiring medical attention during the previous year, among infants and young children
Survey Items	K6Q30, AGEYR_CHILD
Denominator	Children age 0 through 5 years
Numerator	Any injury during the previous year: no; yes

Notes for Data Users

Indicator 1.7 is derived directly from K6Q30. An optional help screen for this question explains that in addition to emergency room or doctor visits, situations in which parents provide medical attention themselves or as directed by a health professional by phone are also included.

Section 6 questions were asked only for children less than 6 years old.

Revisions

No change; same as 2003

SAS Code and Annotation

*/*Indicator 1.7: Childhood injuries*/*

value inj_yn */*ind1_7_07*/*

1 = "Yes"

2 = "No";

ind1_7_07 = K6Q30; */*Childhood Injury*/*

if K6Q30 in (6,7,.N) then ind1_7_07 = .;

if K6Q30 eq 0 then ind1_7_07 = 2; */*RECODES from 0,1 to 1,2 */*

label ind1_7_07 = "Indicator 1.7: Injuries requiring medical care, past 12 months, age 0-5";

Indicator 1.9: Severity of current chronic conditions**How many children have one or more current chronic conditions that their parents rate as moderate or severe?**

Description	Parent-reported prevalence of moderate or severe health conditions among children, from a list of 16 acute or chronic health conditions
Survey Items	K2Q30A-C; K2Q31A-C; K2Q32A-C; K2Q33A-C; K2Q34A-C; K2Q35A-C; K2Q36A-C; K2Q37A-C; K2Q38A-C; K2Q40A-C; K2Q41A-C; K2Q42A-C; K2Q43A-C; K2Q44A-C; K2Q45A-C; K2Q46A-C; AGEYR_CHILD
Denominator	Children age 0 through 17 years
Numerator	Of 16 health conditions asked about: currently have none of these health conditions; currently have mild health conditions only; currently have at least one moderate or severe health condition

Notes for Data Users

Parents were asked to respond to a series of three questions about each of 16 acute or chronic health conditions: learning disability (K2Q30A-C), ADD or ADHD (K2Q31A-C), depression (K2Q32A-C), anxiety problems (K2Q33A-C), behavioral or conduct problems (K2Q34A-C), autism or other autism spectrum disorder (K2Q35A-C), developmental delay (K2Q36A-C), speech problems (K2Q37A-C), asthma (K2Q40A-C), diabetes (K2Q41A-C), Tourette Syndrome (K2Q38A-C), epilepsy or seizure disorder (K2Q42A-C), hearing problems (K2Q43A-C), vision problems (K2Q44A-C), bone or joint problems (K2Q45A-C), and brain injury or concussion (K2Q46A-C). For each condition, respondents were asked whether they have ever been told by a health care professional that the child has the condition and whether the child currently has the condition. For children who currently have each specified condition, parents were asked to rate it as mild, moderate, or severe.

Indicator 1.9 groups children according the most serious condition(s) they currently have.

Please note that in the NSCH all information about children's health conditions is based on parent recollection and is not independently verified. Further, a response of "Yes" to having "ever been told" that a child has a specific health condition (e.g., K2Q31A = Yes) DOES NOT indicate whether the child currently has that particular condition and therefore should not be interpreted as current prevalence.

Revisions

Although root questions K2Q30-K2Q46 were not changed in 2007, parent-rated severity of current health conditions is new. In both surveys 16 conditions were named and parents were asked for each condition whether they have ever been told by a health professional that their child has that condition. The 2007 survey added two follow-up questions not asked in 2003: parents who responded "yes" to the first question were asked if the child currently has that condition and, if so, whether they would describe it as mild, moderate or severe in their child

SAS Code and Annotation

```
/* Indicator 1.9: Severity of current chronic conditions */

value mod_sev /*learning_severity to brain_severity*/
0 = "Does not have condition"
1 = "Mild"
2 = "Moderate/severe";

value currcond_sev /*ind1_9_07*/
1 = "Has no chronic conditions from list"
2 = "Has mild chronic conditions only"
3 = "Has one or more moderate or severe chronic conditions";

learning_07 = .; /*Learning disabilities*/
if K2Q30A = 0 then learning_07 = 1;
if K2Q30A = 1 and K2Q30B = 0 then learning_07 = 2;
if K2Q30A = 1 and K2Q30B = 1 then learning_07 = 3;
label learning_07 = "Current learning disability - age 3-17";
learning_severity = .;
```

Physical and Dental Health

```
if K2Q30A = 0 or (K2Q30A = 1 and K2Q30B = 0) then learning_severity = 0;
if K2Q30C = 1 then learning_severity = 1;
if K2Q30C in (2,3) then learning_severity = 2;
label learning_severity = "Severity of current learning disability - age 3-17";
```

```
ADHD_07 = .; /*ADD/ADHD*/
if K2Q31A = 0 then ADHD_07 = 1;
if K2Q31A = 1 and K2Q31B = 0 then ADHD_07 = 2;
if K2Q31A = 1 and K2Q31B = 1 then ADHD_07 = 3;
label ADHD_07 = "Does [child] have ADD or ADHD (age 2-17)?"
ADHD_severity = .;
if K2Q31A = 0 or (K2Q31A = 1 and K2Q31B = 0) then ADHD_severity = 0;
if K2Q31C = 1 then ADHD_severity = 1;
if K2Q31C in (2,3) then ADHD_severity = 2;
label ADHD_severity = "Severity of current ADD or ADHD - age 2-17";
```

```
depress_07 = .; /*Depression*/
if K2Q32A = 0 then depress_07 = 1;
if K2Q32A = 1 and K2Q32B = 0 then depress_07 = 2;
if K2Q32A = 1 and K2Q32B = 1 then depress_07 = 3;
label depress_07 = "Current depression - age 2-17";
depress_severity = .;
if K2Q32A = 0 or (K2Q32A = 1 and K2Q32B = 0) then depress_severity = 0;
if K2Q32C = 1 then depress_severity = 1;
if K2Q32C in (2,3) then depress_severity = 2;
label depress_severity = "Severity of current depression - age 2-17";
```

```
anxiety_07 = .; /*Anxiety problems*/
if K2Q33A = 0 then anxiety_07 = 1;
if K2Q33A = 1 and K2Q33B = 0 then anxiety_07 = 2;
if K2Q33A = 1 and K2Q33B = 1 then anxiety_07 = 3;
label anxiety_07 = "Current anxiety problems - age 2-17";
anxiety_severity = .;
if K2Q33A = 0 or (K2Q33A = 1 and K2Q33B = 0) then anxiety_severity = 0;
if K2Q33C = 1 then anxiety_severity = 1;
if K2Q33C in (2,3) then anxiety_severity = 2;
label anxiety_severity = "Severity of current anxiety problems - age 2-17";
```

```
conduct_07 = .; /*ODD or conduct disorder*/
if K2Q34A = 0 then conduct_07 = 1;
if K2Q34A = 1 and K2Q34B = 0 then conduct_07 = 2;
if K2Q34A = 1 and K2Q34B = 1 then conduct_07 = 3;
label conduct_07 = "Current behavioral or conduct problems - age 2-17";
conduct_severity = .;
if K2Q34A = 0 or (K2Q34A = 1 and K2Q34B = 0) then conduct_severity = 0;
if K2Q34C = 1 then conduct_severity = 1;
if K2Q34C in (2,3) then conduct_severity = 2;
label conduct_severity = "Severity of current behavioral or conduct problems - age 2-17";
```

```
autism_07 = .; /*Autism*/
if K2Q35A = 0 then autism_07 = 1;
if K2Q35A = 1 and K2Q35B = 0 then autism_07 = 2;
if K2Q35A = 1 and K2Q35B = 1 then autism_07 = 3;
label autism_07 = "Does [child] have autism, Asperger's Disorder, pervasive developmental disorder, or other autism spectrum disorder (age 2-17)?"
autism_severity = .;
```

Physical and Dental Health

```
if K2Q35A = 0 or (K2Q35A = 1 and K2Q35B = 0) then autism_severity = 0;
if K2Q35C = 1 then autism_severity = 1;
if K2Q35C in (2,3) then autism_severity = 2;
label autism_severity = "Severity of current autism/ASD - age 2-17";
```

```
devdelay_07 = .; /*Developmental Delay*/
if K2Q36A = 0 then devdelay_07 = 1;
if K2Q36A = 1 and K2Q36B = 0 then devdelay_07 = 2;
if K2Q36A = 1 and K2Q36B = 1 then devdelay_07 = 3;
label devdelay_07 = "Current developmental delay- age 2-17";
devdelay_severity = K2Q36C;
if K2Q36A = 0 or (K2Q36A = 1 and K2Q36B = 0) then devdelay_severity = 0;
if K2Q36C = 1 then devdelay_severity = 1;
if K2Q36C in (2,3) then devdelay_severity = 2;
label devdelay_severity = "Severity of current developmental - age 2-17";
```

```
speech_07 = .; /*Speech Problems*/
if K2Q37A = 0 then speech_07 = 1;
if K2Q37A = 1 and K2Q37B = 0 then speech_07 = 2;
if K2Q37A = 1 and K2Q37B = 1 then speech_07 = 3;
label speech_07 = "Current speech problems - age 2-17";
speech_severity = .;
if K2Q37A = 0 or (K2Q37A = 1 and K2Q37B = 0) then speech_severity = 0;
if K2Q37C = 1 then speech_severity = 1;
if K2Q37C in (2,3) then speech_severity = 2;
label speech_severity = "Severity of current speech problems - age 2-17";
```

```
tourette_07 = .; /*Tourette Syndrom*/
if K2Q38A = 0 then tourette_07 = 1;
if K2Q38A = 1 and K2Q38B = 0 then tourette_07 = 2;
if K2Q38A = 1 and K2Q38B = 1 then tourette_07 = 3;
label tourette_07 = "Current Tourette Syndrome - age 0-17";
tourette_severity = .;
if K2Q38A = 0 or (K2Q38A = 1 and K2Q38B = 0) then tourette_severity = 0;
if K2Q38C = 1 then tourette_severity = 1;
if K2Q38C in (2,3) then tourette_severity = 2;
label tourette_severity = "Severity of current Tourette Syndrome - age 0-17";
```

```
asthma_07 = .; /*Asthma*/
if K2Q40A = 0 then asthma_07 = 1;
if K2Q40A = 1 and K2Q40B = 0 then asthma_07 = 2;
if K2Q40A = 1 and K2Q40B = 1 then asthma_07 = 3;
label asthma_07 = "Current asthma - age 0-17";
asthma_severity = .;
if K2Q40A = 0 or (K2Q40A = 1 and K2Q40B = 0) then asthma_severity = 0;
if K2Q40C = 1 then asthma_severity = 1;
if K2Q40C in (2,3) then asthma_severity = 2;
label asthma_severity = "Severity of current asthma - age 0-17";
```

```
diabetes_07 = .; /*Diabetes*/
if K2Q41A = 0 then diabetes_07 = 1;
if K2Q41A = 1 and K2Q41B = 0 then diabetes_07 = 2;
if K2Q41A = 1 and K2Q41B = 1 then diabetes_07 = 3;
label diabetes_07 = "Current diabetes - age 0-17";
diabetes_severity = .;
if K2Q41A = 0 or (K2Q41A = 1 and K2Q41B = 0) then diabetes_severity = 0;
```

Physical and Dental Health

```
if K2Q41C = 1 then diabetes_severity = 1;
if K2Q41C in (2,3) then diabetes_severity = 2;
label diabetes_severity = "Severity of current diabetes - age 0-17";
```

```
seizure_07 = .; /*Epilepsy or seizure disorder*/
if K2Q42A = 0 then seizure_07 = 1;
if K2Q42A = 1 and K2Q42B = 0 then seizure_07 = 2;
if K2Q42A = 1 and K2Q42B = 1 then seizure_07 = 3;
label seizure_07 = "Current seizure disorder - age 0-17";
seizure_severity = .;
if K2Q42A = 0 or (K2Q42A = 1 and K2Q42B = 0) then seizure_severity = 0;
if K2Q42C = 1 then seizure_severity = 1;
if K2Q42C in (2,3) then seizure_severity = 2;
label seizure_severity = "Severity of current seizure disorder - age 0-17";
```

```
hearing_07 = .; /*Hearing problems*/
if K2Q43A = 0 then hearing_07 = 1;
if K2Q43A = 1 and K2Q43B = 0 then hearing_07 = 2;
if K2Q43A = 1 and K2Q43B = 1 then hearing_07 = 3;
label hearing_07 = "Current hearing problems - age 0-17";
hearing_severity = .;
if K2Q43A = 0 or (K2Q43A = 1 and K2Q43B = 0) then hearing_severity = 0;
if K2Q43C = 1 then hearing_severity = 1;
if K2Q43C in (2,3) then hearing_severity = 2;
label hearing_severity = "Severity of current hearing problems - age 0-17";
```

```
vision_07 = .; /*Vision problems not corrected with glasses/contact lenses*/
if K2Q44A = 0 then vision_07 = 1;
if K2Q44A = 1 and K2Q44B = 0 then vision_07 = 2;
if K2Q44A = 1 and K2Q44B = 1 then vision_07 = 3;
label vision_07 = "Current vision problems - age 0-17";
vision_severity = .;
if K2Q44A = 0 or (K2Q44A = 1 and K2Q44B = 0) then vision_severity = 0;
if K2Q44C = 1 then vision_severity = 1;
if K2Q44C in (2,3) then vision_severity = 2;
label vision_severity = "Severity of current vision problems - age 0-17";
```

```
joints_07 = .; /*Bone, joint, or muscle problems*/
if K2Q45A = 0 then joints_07 = 1;
if K2Q45A = 1 and K2Q45B = 0 then joints_07 = 2;
if K2Q45A = 1 and K2Q45B = 1 then joints_07 = 3;
label joints_07 = "Current bone, joint, or muscle problems - age 0-17";
joints_severity = .;
if K2Q45A = 0 or (K2Q45A = 1 and K2Q45B = 0) then joints_severity = 0;
if K2Q45C = 1 then joints_severity = 1;
if K2Q45C in (2,3) then joints_severity = 2;
label joints_severity = "Severity of current bone, joint, or muscle problems - age 0-17";
```

```
brain_07 = .; /*brain injury or concussion*/
if K2Q46A = 0 then brain_07 = 1;
if K2Q46A = 1 and K2Q46B = 0 then brain_07 = 2;
if K2Q46A = 1 and K2Q46B = 1 then brain_07 = 3;
label brain_07 = "Current brain injury or concussion - age 0-17";
brain_severity = .;
if K2Q46A = 0 or (K2Q46A = 1 and K2Q46B = 0) then brain_severity = 0;
if K2Q46C = 1 then brain_severity = 1;
```

Physical and Dental Health

```
if K2Q46C in (2,3) then brain_severity = 2;
label brain_severity = "Severity of current brain injury or concussion - age 0-17";

anycond = 0;
if learning_07 in (3) then anycond + 1;
if ADHD_07 in (3) then anycond + 1;
if depress_07 in (3) then anycond + 1;
if anxiety_07 in (3) then anycond + 1;
if conduct_07 in (3) then anycond + 1;
if autism_07 in (3) then anycond + 1;
if devdelay_07 in (3) then anycond + 1;
if speech_07 in (3) then anycond + 1;
if tourette_07 in (3) then anycond + 1;
if asthma_07 in (3) then anycond + 1;
if diabetes_07 in (3) then anycond + 1;
if seizure_07 in (3) then anycond + 1;
if hearing_07 in (3) then anycond + 1;
if vision_07 in (3) then anycond + 1;
if joints_07 in (3) then anycond + 1;
if brain_07 in (3) then anycond + 1;
label anycond = "# of current conditions across all 16 items";

array miss_a {*} learning_07 ADHD_07 depress_07 anxiety_07 conduct_07 autism_07 devdelay_07 speech_07
tourette_07 asthma_07 diabetes_07 seizure_07 hearing_07 vision_07 joints_07 brain_07;
missa = 0;
nonea = 0;
valida = 0;
do I = 1 to dim(miss_a);
  if miss_a(i) in (1,2,3) then valida = valida + 1;
  if miss_a(i) in (1,2) then nonea = nonea + 1;
  if miss_a(i) in (6,7) then miss_a(i) = .;
end; drop I;

anysev = 0;
if learning_severity in (2) then anysev + 1;
if ADHD_severity in (2) then anysev + 1;
if depress_severity in (2) then anysev + 1;
if anxiety_severity in (2) then anysev + 1;
if conduct_severity in (2) then anysev + 1;
if autism_severity in (2) then anysev + 1;
if devdelay_severity in (2) then anysev + 1;
if speech_severity in (2) then anysev + 1;
if tourette_severity in (2) then anysev + 1;
if asthma_severity in (2) then anysev + 1;
if diabetes_severity in (2) then anysev + 1;
if seizure_severity in (2) then anysev + 1;
if hearing_severity in (2) then anysev + 1;
if vision_severity in (2) then anysev + 1;
if joints_severity in (2) then anysev + 1;
if brain_severity in (2) then anysev + 1;
label anysev = "# of severe conditions across all 16 items";

array miss_b {*} learning_severity ADHD_severity depress_severity anxiety_severity conduct_severity
autism_severity devdelay_severity speech_severity tourette_severity asthma_severity diabetes_severity
seizure_severity hearing_severity vision_severity joints_severity brain_severity;
missb = 0;
```


Physical and Dental Health

```
noneb = 0;
validb = 0;
do I = 1 to dim(miss_b);
  if miss_b(i) in (1,2) then validb = validb + 1;
  if miss_b(i) in (1) then noneb = noneb + 1;
  if miss_b(i) in (6,7) then miss_b(i) = .;
end; drop I;

ind1_9_07 = .; /*Severity of chronic conditions*/
if noneb = validb then ind1_9_07 = 2;
if nonea = valida then ind1_9_07 = 1;
if anysev ge 1 then ind1_9_07 = 3;
if ind1_9_07 = 2 and validb = 0 then ind1_9_07 = .;
if valida = 0 then ind1_9_07 = .;
label ind1_9_07 = "Indicator 1.9: One or more current chronic conditions rated moderate/severe, from 16 conditions listed";
```

Indicator 1.9a: Prevalence of chronic health conditions**How many children currently have one or more chronic health conditions from a list of 16 conditions?**

Description	Parent-reported current prevalence of one or more from a list of 16 types of health conditions
Survey Items	K2Q30A-B; K2Q31A-B; K2Q32A-B; K2Q33A-B; K2Q34A-B; K2Q35A-B; K2Q36A-B; K2Q37A-B; K2Q38A-B; K2Q40A-B; K2Q41A-B; K2Q42A-B; K2Q43A-B; K2Q44A-B; K2Q45A-B; K2Q46A-B; AGEYR_CHILD
Denominator	Children age 0 through 17 years
Numerator	No current health conditions; one current health condition; two or more current health conditions

Notes for Data Users

Indicator 1.9a is derived from responses to two questions about each of 16 acute or chronic health conditions: learning disability (K2Q30A-B), ADD or ADHD (K2Q31A-B), depression (K2Q32A-B), anxiety problems (K2Q33A-B), behavioral or conduct problems (K2Q34A-B), autism or other autism spectrum disorder (K2Q35A-B), developmental delay (K2Q36A-B), speech problems (K2Q37A-B), asthma (K2Q40A-B), diabetes (K2Q41A-B), Tourette Syndrome (K2Q38A-B), epilepsy or seizure disorder (K2Q42A-B), hearing problems (K2Q43A-B), vision problems (K2Q44A-B), bone or joint problems (K2Q45A-B), and brain injury or concussion (K2Q46A-B). For each condition, respondents were asked whether they have ever been told by a health care professional that the child has the condition, and whether the child currently has the condition. Children were then grouped according to the number of conditions they currently have: none, one, or two or more.

Please note that in the NSCH all information about children's health conditions is based on parent recollection and is not independently verified. Further, a response of "Yes" to having "ever been told" that a child has a specific health condition (e.g., K2Q31A = Yes) DOES NOT indicate whether the child currently has that particular condition and therefore should not be interpreted as current prevalence.

Revisions

Although root questions K2Q30-K2Q46 were not changed in 2007, current prevalence is new. In both surveys 16 conditions were named and parents were asked for each condition whether they have ever been told by a health professional that their child has that condition. The 2007 survey added two follow-up questions not asked in 2003: parents who responded "yes" to the first question were asked if the child currently has that condition and, if so, whether they would describe it as mild, moderate or severe in their child

SAS Code and Annotation

```
/*Indicator 1.9a: Prevalence of chronic health conditions*/
```

```
value cond_prev /*learning_07 to brain_07*/
```

```
1 = "Does not have condition"
```

```
2 = "Ever told, but does not currently have condition"
```

```
3 = "Currently has condition";
```

```
value currcond /*ind1_9a_07*/
```

```
1 = "No current chronic conditions from list"
```

```
2 = "1 current chronic condition"
```

```
3 = "2 or more chronic conditions";
```

```
learning_07 = .; /*Learning disabilities*/
```

```
if K2Q30A = 0 then learning_07 = 1;
```

```
if K2Q30A = 1 and K2Q30B = 0 then learning_07 = 2;
```

```
if K2Q30A = 1 and K2Q30B = 1 then learning_07 = 3;
```

```
label learning_07 = "Current learning disability - age 3-17";
```

```
ADHD_07 = .; /*ADD/ADHD*/
```

```
if K2Q31A = 0 then ADHD_07 = 1;
```

Physical and Dental Health

```
if K2Q31A = 1 and K2Q31B = 0 then ADHD_07 = 2;  
if K2Q31A = 1 and K2Q31B = 1 then ADHD_07 = 3;  
label ADHD_07 = "Does [child] have ADD or ADHD (age 2-17)?";
```

```
depress_07 = .; /*Depression*/  
if K2Q32A = 0 then depress_07 = 1;  
if K2Q32A = 1 and K2Q32B = 0 then depress_07 = 2;  
if K2Q32A = 1 and K2Q32B = 1 then depress_07 = 3;  
label depress_07 = "Current depression - age 2-17";
```

```
anxiety_07 = .; /*Anxiety problems*/  
if K2Q33A = 0 then anxiety_07 = 1;  
if K2Q33A = 1 and K2Q33B = 0 then anxiety_07 = 2;  
if K2Q33A = 1 and K2Q33B = 1 then anxiety_07 = 3;  
label anxiety_07 = "Current anxiety problems - age 2-17";
```

```
conduct_07 = .; /*ODD or conduct disorder*/  
if K2Q34A = 0 then conduct_07 = 1;  
if K2Q34A = 1 and K2Q34B = 0 then conduct_07 = 2;  
if K2Q34A = 1 and K2Q34B = 1 then conduct_07 = 3;  
label conduct_07 = "Current behavioral or conduct problems - age 2-17";
```

```
autism_07 = .; /*Autism*/  
if K2Q35A = 0 then autism_07 = 1;  
if K2Q35A = 1 and K2Q35B = 0 then autism_07 = 2;  
if K2Q35A = 1 and K2Q35B = 1 then autism_07 = 3;  
label autism_07 = "Does [child] have autism, Asperger's Disorder, pervasive developmental disorder, or other autism spectrum disorder (age 2-17)?";
```

```
label autism_severity = "Severity of current autism/ASD - age 2-17";  
devdelay_07 = .; /*Developmental Delay*/  
if K2Q36A = 0 then devdelay_07 = 1;  
if K2Q36A = 1 and K2Q36B = 0 then devdelay_07 = 2;  
if K2Q36A = 1 and K2Q36B = 1 then devdelay_07 = 3;  
label devdelay_07 = "Current developmental delay- age 2-17";
```

```
speech_07 = .; /*Speech Problems*/  
if K2Q37A = 0 then speech_07 = 1;  
if K2Q37A = 1 and K2Q37B = 0 then speech_07 = 2;  
if K2Q37A = 1 and K2Q37B = 1 then speech_07 = 3;  
label speech_07 = "Current speech problems - age 2-17";
```

```
tourette_07 = .; /*Tourette Syndrom*/  
if K2Q38A = 0 then tourette_07 = 1;  
if K2Q38A = 1 and K2Q38B = 0 then tourette_07 = 2;  
if K2Q38A = 1 and K2Q38B = 1 then tourette_07 = 3;  
label tourette_07 = "Current Tourette Syndrome - age 0-17";
```

```
asthma_07 = .; /*Asthma*/  
if K2Q40A = 0 then asthma_07 = 1;  
if K2Q40A = 1 and K2Q40B = 0 then asthma_07 = 2;  
if K2Q40A = 1 and K2Q40B = 1 then asthma_07 = 3;  
label asthma_07 = "Current asthma - age 0-17";
```

```
diabetes_07 = .; /*Diabetes*/  
if K2Q41A = 0 then diabetes_07 = 1;
```

Physical and Dental Health

```
if K2Q41A = 1 and K2Q41B = 0 then diabetes_07 = 2;  
if K2Q41A = 1 and K2Q41B = 1 then diabetes_07 = 3;  
label diabetes_07 = "Current diabetes - age 0-17";
```

```
seizure_07 = .; /*Epilepsy or seizure disorder*/  
if K2Q42A = 0 then seizure_07 = 1;  
if K2Q42A = 1 and K2Q42B = 0 then seizure_07 = 2;  
if K2Q42A = 1 and K2Q42B = 1 then seizure_07 = 3;  
label seizure_07 = "Current seizure disorder - age 0-17";
```

```
hearing_07 = .; /*Hearing problems*/  
if K2Q43A = 0 then hearing_07 = 1;  
if K2Q43A = 1 and K2Q43B = 0 then hearing_07 = 2;  
if K2Q43A = 1 and K2Q43B = 1 then hearing_07 = 3;  
label hearing_07 = "Current hearing problems - age 0-17";
```

```
vision_07 = .; /*Vision problems not corrected with glasses/contact lenses*/  
if K2Q44A = 0 then vision_07 = 1;  
if K2Q44A = 1 and K2Q44B = 0 then vision_07 = 2;  
if K2Q44A = 1 and K2Q44B = 1 then vision_07 = 3;  
label vision_07 = "Current vision problems - age 0-17";
```

```
joints_07 = .; /*Bone, joint, or muscle problems*/  
if K2Q45A = 0 then joints_07 = 1;  
if K2Q45A = 1 and K2Q45B = 0 then joints_07 = 2;  
if K2Q45A = 1 and K2Q45B = 1 then joints_07 = 3;  
label joints_07 = "Current bone, joint, or muscle problems - age 0-17";
```

```
brain_07 = .; /*brain injury or concussion*/  
if K2Q46A = 0 then brain_07 = 1;  
if K2Q46A = 1 and K2Q46B = 0 then brain_07 = 2;  
if K2Q46A = 1 and K2Q46B = 1 then brain_07 = 3;  
label brain_07 = "Current brain injury or concussion - age 0-17";
```

```
anycond = 0;  
if learning_07 in (3) then anycond + 1;  
if ADHD_07 in (3) then anycond + 1;  
if depress_07 in (3) then anycond + 1;  
if anxiety_07 in (3) then anycond + 1;  
if conduct_07 in (3) then anycond + 1;  
if autism_07 in (3) then anycond + 1;  
if devdelay_07 in (3) then anycond + 1;  
if speech_07 in (3) then anycond + 1;  
if tourette_07 in (3) then anycond + 1;  
if asthma_07 in (3) then anycond + 1;  
if diabetes_07 in (3) then anycond + 1;  
if seizure_07 in (3) then anycond + 1;  
if hearing_07 in (3) then anycond + 1;  
if vision_07 in (3) then anycond + 1;  
if joints_07 in (3) then anycond + 1;  
if brain_07 in (3) then anycond + 1;  
label anycond = "# of current conditions across all 16 items";
```

```
array miss_a {*} learning_07 ADHD_07 depress_07 anxiety_07 conduct_07 autism_07 devdelay_07 speech_07  
tourette_07 asthma_07 diabetes_07 seizure_07 hearing_07 vision_07 joints_07 brain_07;  
missa = 0;
```

Physical and Dental Health

```
nonea = 0;
valida = 0;
do I = 1 to dim(miss_a);
  if miss_a(i) in (1,2,3) then valida = valida + 1;
  if miss_a(i) in (1,2) then nonea = nonea + 1;
  if miss_a(i) in (6,7) then miss_a(i) = .;
end; drop I;

ind1_9a_07 = .; /*Current health conditions*/
if nonea = valida then ind1_9a_07 = 1; /*Has none of listed chron cond*/
if anycond eq 1 then ind1_9a_07 = 2; /*Has 1 chronic cond*/
if anycond ge 2 then ind1_9a_07 = 3; /*Has 2 or more chronic cond*/
if valida = 0 then ind1_9a_07 = .; /*Missing*/
label ind1_9a_07 = "Indicator 1.9a: One or more current chronic health conditions from list of 16";
```

Indicator 1.13: CSHCN limits on participation

How many children have medical, behavioral or other health conditions which interfere with their ability to attend school regularly, participate in sports or other activities, or make friends?

Description	Activity and social participation limits associated with chronic health conditions experienced by school age Children with Special Health Care Needs (CSHCN)
Survey Items	K2Q61A; K2Q61B; K2Q61C; AGEYR_CHILD; CSHCN
Denominator	CSHCN age 6 through 17 years
Numerator	Of three categories, CSHCN limited in: none of the 3 categories; one category only; two or all three categories

Notes for Data Users

Indicator 1.13 is a composite of three questions. Parents of school age CSHCN were asked whether medical, behavioral or other health conditions interfere with their child's ability to: attend school regularly (K2Q61A), participate in organized sports or clubs (K2Q61B), or make friends (K6Q61C).

These questions were asked only for children who were 6-17 years of age (AGEYR_CHILD) AND who have special health care needs as determined by the CSHCN Screener questions (K2Q10-K2Q23). Scoring of the CSHCN Screener is described elsewhere in this document.

Revisions

This content is new in 2007.

SAS Code and Annotation

```
/*Indicator 1.13: CSHCN limits on participation*/
```

```
value interfere_act /*ind1_13_07*/
```

```
0 = "None"
```

```
1 = "Limited in one area"
```

```
2 = "Limited in two or all three areas";
```

```
limits6to17 = 0;
```

```
array counter {3} K2Q61A K2Q61B K2Q61C;
```

```
do i=1 to 3;
```

```
if counter (i) = 1 then limits6to17 = limits6to17 + 1;
```

```
end; drop i;
```

```
label limits6to17 = "Number of functional limitations";
```

```
ind1_13_07 = .; /*Activity and social participation, CSHCN age 6-17*/
```

```
if limits6to17 = 0 then ind1_13_07 = 0;
```

```
If limits6to17 = 1 then ind1_13_07 = 1;
```

```
if limits6to17 ge 2 then ind1_13_07 = 2;
```

```
else if AGEYR_CHILD ge 6 and CSHCN = 0 then ind1_13_07 = .;
```

```
else if AGEYR_CHILD < 6 then ind1_13_07 = .;
```

```
else if AGEYR_CHILD ge 6 and CSHCN = 1 and K2Q61A = . then ind1_13_07 = .;
```

```
label ind1_13_07 = "Indicator 1.13: Health conditions limit participation in school, organized activities, or friendships, CSHCN age 6-17";
```

Indicator 2.1: Parent-reported concerns

How many children have parents with one or more concerns about child's physical, behavioral or social development?

Description	Prevalence among young children of parent-reported concerns about learning, development
Survey Items	K6Q01; K6Q02; K6Q03; K6Q04; K6Q05; K6Q06; K6Q07; K6Q08; K6Q09; AGEYR_CHILD
Denominator	Children age 4 months through 5 years
Numerator	Children whose parents reported: no concerns; one or more concerns

Notes for Data Users

Questions and scoring methods for Indicators 2.1 and 2.2 are adapted from the Parents' Evaluation of Developmental Status (PEDS), © 2005 Frances Page Glascoe, Parents' Evaluation of Developmental Status—Survey Version. Forepath.org, PO Box 23186, Washington, DC 20026. The PEDS is a standardized child development screening tool designed to identify young children who are at risk for developmental, behavioral or social delay. The NSCH uses a non-clinical version of the PEDS. The PEDS is copyright protected and may be used only with permission of the publisher. Researchers interested in analyzing the PEDS data should consult the PEDS documentation for scoring instructions. (Health care providers wishing to use PEDS in practice to assess risk status or to make decisions about developmental status for individual children must use the clinical version of the test, which can be obtained from Ellsworth & Vandermeer Press, LLC. The clinical version was not used for the NSCH.) For further information visit the PEDS website at: <http://www.pedstest.com>.

Indicator 2.1 is derived from a count of responses to age-appropriate subsets of the nine PEDS© questions (K6Q01-K6Q09).

Section 6 questions were asked only for children less than 6 years old.

Revisions

No changes; same as 2003

SAS Code and Annotation

/*Indicator 2.1: Parent-reported concerns*/

value concern /*ind2_1_07*/

1 = "None reported"

2 = "One or more concerns";

anyconc = 0;

if AGEYR_CHILD < 6 and K6Q01 in (1) then anyconc = 1;

if AGEYR_CHILD < 6 and K6Q02 in (1,2) then anyconc + 1;

if AGEYR_CHILD < 6 and K6Q03 in (1,2) then anyconc + 1;

if AGEYR_CHILD < 6 and K6Q04 in (1,2) then anyconc + 1;

if AGEYR_CHILD < 6 and K6Q05 in (1,2) then anyconc + 1;

if AGEYR_CHILD < 6 and K6Q06 in (1,2) then anyconc + 1;

if AGEYR_CHILD < 6 and K6Q07 in (1,2) then anyconc + 1;

if AGEYR_CHILD < 6 and K6Q08 in (1,2) then anyconc + 1;

if AGEYR_CHILD < 6 and K6Q09 in (1,2) then anyconc + 1;

if K6Q02 = .L and flg_06_mnth = 1 then anyconc = .; /*setting infants < 4 months old to missing*/

if AGEYR_CHILD ge 6 then anyconc = .;

label anyconc = "# of concerns across all items";

ind2_1_07 = .; /*Parent Concern*/

if anyconc eq 0 then ind2_1_07 = 1;

if anyconc > 0 then ind2_1_07 = 2;

Emotional and Mental Health

```
else if AGEYR_CHILD < 6 and K6Q01 = 6 then ind2_1_07 = .;
```

```
label ind2_1_07 = "Indicator 2.1: Parent has concerns about child's learning, development, or behavior, age 4 months-5 years";
```

```
/*NOTE: For a list of SAS codes for missing data, see "Note for SAS users – Codes for missing values in public use data files" in the Introduction, page5.*/
```


Indicator 2.2: At risk for delay

How many children are at risk for developmental, behavioral or social delays?

Description	Level of risk for developmental, behavioral, or social delay, in young children
Survey Items	K6Q01; K6Q02; K6Q03; K6Q04; K6Q05; K6Q06; K6Q07; K6Q08; K6Q09; AGEYR_CHILD; FLG_18_MNTH
Denominator	Children age 4 months through 5 years
Numerator	Children whose risk for delay in learning, development or behavior is: low or no risk; moderate risk; high risk

Notes for Data Users

Questions and scoring methods for Indicators 2.1 and 2.2 are adapted from the Parents' Evaluation of Developmental Status (PEDS), © 2005 Frances Page Glascoe, Parents' Evaluation of Developmental Status—Survey Version. Forepath.org, PO Box 23186, Washington, DC 20026. The PEDS is a standardized child development screening tool designed to identify young children who are at risk for developmental, behavioral or social delay. The NSCH uses a non-clinical version of the PEDS. The PEDS is copyright protected and may be used only with permission of the publisher. Researchers interested in analyzing the PEDS data should consult the PEDS documentation for scoring instructions. (Health care providers wishing to use PEDS in practice to assess risk status or to make decisions about developmental status for individual children must use the clinical version of the test, which can be obtained from Ellsworth & Vandermeer Press, LLC. The clinical version was not used for the NSCH.) For further information visit the PEDS website at: <http://www.pedstest.com>.

Indicator 2.2 uses responses to items K6Q01-K6Q09. Parents of all children age 4 months through 5 years, were asked if they have concerns about their child's development (K6Q01). The remaining questions were asked as appropriate for the child's age: 4 - 17 months, 18 months - 2 years, 3 - 4 years, and 5 years. Level of risk (low or none, moderate, or high) is based on which items for which parents expressed "a little" or "a lot" of concern. A description of the PEDS© scoring algorithms used in the NSCH may be viewed at: <http://nschdata.org/Viewdocument.aspx?item=316>.

Section 6 questions were asked only for children less than 6 years old.

Revisions

No changes; same as 2003.

SAS Code and Annotation

```
/*Indicator 2.2: At risk for delay*/

value devrisk /*risk*/
1 = "no risk"
2 = "low risk"
3 = "moderate risk"
4 = "high risk";

value devriskII /*ind2_2_07*/
0 = "Low or no risk"
1 = "Moderate risk"
2 = "High risk";

r_K6Q01 = K6Q01;
label r_K6Q01 = "Any concerns about learning, development, or behavior";
r_K6Q02 = K6Q02;
label r_K6Q02 = "K6Q02 Talks and makes speech sounds";
r_K6Q03 = K6Q03;
label r_K6Q03 = "K6Q03 Understands what you say";
```

Emotional and Mental Health

```
r_K6Q04 = K6Q04;
label r_K6Q04 = "K6Q04 Uses hands and ";
r_K6Q05 = K6Q05;
label r_K6Q05 = "K6Q05 Uses arms and legs";
r_K6Q06 = K6Q06;
label r_K6Q06 = "K6Q06 Behaves";
r_K6Q07 = K6Q07;
label r_K6Q07 = "K6Q07 Gets along with others";
r_K6Q08 = K6Q08;
label r_K6Q08 = "K6Q08 Learning to do things for self";
r_K6Q09 = K6Q09;
label r_K6Q09 = "K6Q09 Learning pre-school or school skills";
r_K6Q10 = K6Q10;
label r_K6Q10 = "Doctor or health professionals ask concerns about learning, development, or behavior";

array recode1 {*} r_K6Q01--r_K6Q10;
do m=1 to dim(recode1);
  if recode1(m) in (7,.L,.M,.N) then recode1(m)=.;
  if recode1(m) in (1,2) then recode1(m) = 1;
  if recode1(m) in (0,3,6) then recode1(m) = 0;
end;
drop m;

if flg_18_mnth = 1 and K6Q02 ne .L then do; /* 4mos to 17mos old*/
  if sum(r_K6Q02,r_K6Q07) = 2 then risk = 4;
  else if sum(r_K6Q02,r_K6Q07) = 1 then risk = 3;
  else if r_K6Q01=1 or r_K6Q03=1 or r_K6Q04=1 or r_K6Q05=1 or r_K6Q06=1 or r_K6Q08=1 then risk = 2;
  else risk = 1;
  if nmiss(r_K6Q01,r_K6Q02,r_K6Q03,r_K6Q04,r_K6Q05,r_K6Q06,r_K6Q07,r_K6Q08) ge 5 then risk = .;
end;

else if AGEYR_CHILD lt 3 and flg_18_mnth = 0 then do; /* 18mos to 2yrs old*/
  if sum(r_K6Q02,r_K6Q03) = 2 then risk = 4;
  else if sum(r_K6Q02,r_K6Q03) = 1 then risk = 3;
  else if r_K6Q01=1 or r_K6Q04=1 or r_K6Q05=1 or r_K6Q06=1 or r_K6Q07=1 or r_K6Q08=1
  or r_K6Q09=1 then risk = 2;
  else risk = 1;
  if nmiss(r_K6Q01,r_K6Q02,r_K6Q03,r_K6Q04,r_K6Q05,r_K6Q06,r_K6Q07,r_K6Q08,r_K6Q09) ge 5 then risk = .;
end;

else if AGEYR_CHILD lt 5 and AGEYR_CHILD ge 3 then do; /* 3yr to 4yr old*/
  if sum(r_K6Q02,r_K6Q03,r_K6Q05) ge 2 then risk = 4;
  else if sum(r_K6Q02,r_K6Q03,r_K6Q05) = 1 then risk = 3;
  else if r_K6Q01=1 or r_K6Q04=1 or r_K6Q06=1 or r_K6Q07=1 or r_K6Q08=1 or r_K6Q09=1 then risk = 2;
  else risk = 1;
  if nmiss(r_K6Q01,r_K6Q02,r_K6Q03,r_K6Q04,r_K6Q05,r_K6Q06,r_K6Q07,r_K6Q08,r_K6Q09) ge 5 then risk = .;
end;

else if AGEYR_CHILD lt 6 and AGEYR_CHILD ge 5 then do; /* 5yr old*/
  if sum(r_K6Q02,r_K6Q03,r_K6Q04,r_K6Q05,r_K6Q09) ge 2 then risk = 4;
  else if sum(r_K6Q02,r_K6Q03,r_K6Q04,r_K6Q05,r_K6Q09) = 1 then risk = 3;
  else if r_K6Q01=1 or r_K6Q06=1 or r_K6Q07=1 or r_K6Q08=1 then risk = 2;
  else risk = 1;
  if nmiss(R_K6Q01,r_K6Q02,r_K6Q03,r_K6Q04,r_K6Q05,r_K6Q06,r_K6Q07,r_K6Q08,r_K6Q09) ge 5 then risk = .;
end;
else risk = .;
```

Emotional and Mental Health

```
label risk = "How many children (ages 4mos-5yrs) are at risk for developmental delay?";
```

```
ind2_2_07 = risk; /*Risk for Developmental Delay*/
```

```
if risk in (1,2) then ind2_2_07 = 0; /*low to no risk*/
```

```
if risk = 3 then ind2_2_07 = 1; /*mod risk*/
```

```
if risk = 4 then ind2_2_07 = 2; /*high risk*/
```

```
if risk = . Then ind2_2_07 = .;
```

```
label ind2_2_07 = "Indicator 2.2: At risk for developmental, behavioral, or social delays, age 4 months-5 years";
```

```
/*NOTE: For a list of SAS codes for missing data, see "Note for SAS users – Codes for missing values in public use data files" in the Introduction, page5.*/
```

Indicator 2.2a: Play with same age children

During the past week, how many days did [child name] play with other children [his/her] age?

Description	Days in the past week in which the child played with other children his/her age
Survey Items	K6Q63; AGEYR_CHILD
Denominator	Children age 1 through 5 years
Numerator	Number of days in previous week: none; 1 - 3 days; 4 - 6 days; 7 days

Notes for Data Users

Responses to K6Q63 for children 1-5 years of age are grouped into four categories. Responses are expressed as number of days rather than number of occasions or number of children.

Section 6 questions were asked only for children less than 6 years old.

Revisions

This content is new in 2007

SAS Code and Annotation

/*Indicator 2.2a: Play with same age children*/

value play /*ind2_2a_07*/

1 = "Did not play with other children"

2 = "Played on 1-3 days"

3 = "Played on 4-6 days"

4 = "Played every day";

ind2_2a_07 = .; /*Play with age mates*/

if K6Q63 eq 0 then ind2_2a_07 = 1; /*Never plays with other children*/

if K6Q63 in (1,2,3) then ind2_2a_07 = 2; /*plays 1-3 days*/

if K6Q63 in (4,5,6) then ind2_2a_07 = 3; /*plays 4-6 days*/

if K6Q63 eq 7 then ind2_2a_07 = 4; /* Play every day with other children*/

if K6Q63 in (96,97) then ind2_2a_07 = . /*Don't know or Refused*/;

if AGEYR_CHILD < 1 then ind2_2a_07 = .;

label ind2_2a_07 = "Indicator 2.2a: Play with children same age, number of days in past week, age 1-5";

Indicator 2.5: Positive social skills

How many children consistently exhibit positive social skills?

Description	School age children who consistently exhibit two or more of four positive social skills: respect for teachers and neighbors, getting along well with other children, trying to understand other people's feelings, or trying to resolve conflicts
Survey Items	K7Q72; K2Q73; K7Q76; K7Q77; AGEYR_CHILD
Denominator	Children age 6 through 17 years
Numerator	Of four positive social skills asked about, children who consistently exhibit: none or one; two or more

Notes for Data Users

Indicator 2.5 is a composite of four questions about social skills employed by school age children: respect for teachers and neighbors (K7Q72); getting along well with other children (K7Q73); trying to understand other people's feelings (K7Q76); and trying to resolve conflicts with classmates, family, or friends (K7Q77). "Consistently" is defined as a response of "usually" or "always" to at least two of the four questions.

Section 7 questions were asked only for children between 6 and 17 years of age.

Revisions

Although the wording of these four questions is identical in the 2003 and 2007 NSCH, the response options are different. In 2003, there were four response options: never; sometimes; usually; or always. In 2007 the number of response options was increased to five with the addition of "rarely". The distribution of "usually" or "always" responses is similar for both survey years. However, distribution of "never" and "sometimes" responses does differ between the surveys, as would be expected with the addition of a new category. Take these changes into consideration when comparing results across survey years.

SAS Code and Annotation

/*Indicator 2.5: Positive social skills*/

value optbeh /*respect along undrstnd resolve*/

1 = "Never/Rarely"

2 = "Sometimes"

3 = "Usually"

4 = "Always";

value opt_beh /*ind2_5_07*/

1 = "Yes"

2 = "No";

respect = K7Q72;

label respect = "Shows respect for teachers and neighbors";

along = K7Q73;

label along = "Gets along well with other children";

undrstnd = K7Q76;

label undrstnd = "Tries to understand other people's feelings";

resolve = K7Q77;

label resolve = "Tries to resolve conflicts with classmates, family, or friends";

array recode2 {*} respect along undrstnd resolve;

do i=1 to dim(recode2);

if recode2(i) in (1,2) then recode2(i)=1;

if recode2(i) = 3 then recode2(i)=2;

if recode2(i) = 4 then recode2(i)=3;

if recode2(i) = 5 then recode2(i)=4;

Emotional and Mental Health

```
if recode2(i) in (6,7,.N) then recode2(i)=.;  
end; drop I;
```

```
posbeh = 0;  
if K7Q72 in (4,5) then posbeh + 1; /*Respect*/  
if K7Q73 in (4,5) then posbeh + 1; /*Gets along w/ children*/  
if K7Q76 in (4,5) then posbeh + 1; /*Understands feelings*/  
if K7Q77 in (4,5) then posbeh + 1; /*Resolves conflicts*/  
if AGEYR_CHILD < 6 then posbeh = .;  
label posbeh = "# of positive social skills";
```

```
validss = 0;  
if K7Q72 in (1,2,3,4,5) then validss = 1;  
if K7Q73 in (1,2,3,4,5) then validss + 1;  
if K7Q76 in (1,2,3,4,5) then validss + 1;  
if K7Q77 in (1,2,3,4,5) then validss + 1;  
if AGEYR_CHILD < 6 then validss = .;
```

```
ind2_5_07 = .; /*Positive Social Skills*/  
if posbeh in (2,3,4) then ind2_5_07 = 1; /*Usually/Always on 2/more items*/  
if posbeh in (0,1) then ind2_5_07 = 2; /*Usually/Always on 0/1 items*/  
if validss in (0,1,2) then ind2_5_07 = .;  
label ind2_5_07 = "Indicator 2.5: Usually or always exhibits at least 2 of 4 positive social skills listed, age 6-17";
```

Indicator 2.6: Problematic behaviors

How many children consistently exhibit problematic social behaviors?

Description	School age children who consistently exhibit two or more of four problematic social behaviors: arguing too much, bullying or cruelty, disobedience, or being stubborn, sullen or irritable
Survey Items	K7Q70; K7Q71; K7Q74; K7Q75; AGEYR_CHILD
Denominator	Children age 6 through 17 years
Numerator	Children who consistently display problematic behaviors; Children who do not consistently display problematic behaviors

Notes for Data Users

Indicator 2.6 is a composite of four questions about problematic behaviors exhibited by school age children: arguing too much (K7Q70); bullying or cruelty (K7Q71); disobedience (K7Q74); and being stubborn, sullen, or irritable (K7Q75). "Consistently" is defined as a response of "usually" or "always" to at least two of the four questions.

Section 7 questions were asked only for children between 6 and 17 years of age.

Revisions

Although the wording of these four questions is identical in the 2003 and 2007 NSCH, the response options are different. In 2003, there were four response options: never; sometimes; usually; or always. In 2007 the number of response options was increased to five with the addition of "rarely". The distribution of "usually" or "always" responses is similar for both survey years. However, distribution of "never" and "sometimes" responses does differ between the surveys, as would be expected with the addition of a new category. Take these changes into consideration when comparing results across survey years.

SAS Code and Annotation

/* Indicator 2.6: Problematic behaviors*/

value prob_beh /*argue bully obey stbrn*/

1 = "Never"

2 = "Rarely"

3 = "Sometimes"

4 = "Usually/Always";

value probbeh /*ind2_6_07*/

1 = "Yes"

2 = "No";

argue = K7Q70;

label argue = "Argues too much";

bully = K7Q71;

label bully = "Bullies or is cruel or mean to others";

obey = K7Q74;

label obey = "Disobedient";

stbrn = K7Q75;

label stbrn = "Stubborn, sullen, or irritable";

array recode5 {*} argue bully obey stbrn;

do i=1 to dim(recode5);

if recode5(i) = 1 then recode5(i)=1;

if recode5(i) = 2 then recode5(i)=2;

if recode5(i) = 3 then recode5(i)=3;

if recode5(i) in (4,5) then recode5(i)=4;

if recode5(i) in (6,7,.N) then recode5(i)=.;

Emotional and Mental Health

```
end; drop I;

probbeh = 0;
if K7Q70 in (4,5) then probbeh + 1; /*Argues*/
if K7Q71 in (4,5) then probbeh + 1; /*Bullies/Cruel/Mean*/
if K7Q74 in (4,5) then probbeh + 1; /*Disobedient*/
if K7Q75 in (4,5) then probbeh + 1; /*Stubborn/Sullen/Irritable*/
if AGEYR_CHILD < 6 then probbeh = .;
label probbeh = "# of problem behaviors";

validpb = 0;
if K7Q70 in (1,2,3,4,5) then validpb = 1;
if K7Q71 in (1,2,3,4,5) then validpb + 1;
if K7Q74 in (1,2,3,4,5) then validpb + 1;
if K7Q75 in (1,2,3,4,5) then validpb + 1;
if AGEYR_CHILD < 6 then validpb = .;

ind2_6_07 = .; /*Problematic behaviors*/
if probbeh in (2,3,4) then ind2_6_07 = 1; /*Usually/Always 2 or more Items*/
if probbeh in (0,1) then ind2_6_07 = 2; /*Usually/Always on 1 or no Items*/
if validpb in (0,1,2) then ind2_6_07 = .;
label ind2_6_07 = "Indicator 2.6: Usually or always exhibits 2 or more of 4 problematic behaviors listed, age 6-17";
```


Indicator 2.7: Medication for ADD/ADHD

How many children currently have ADD/ADHD and take medication for this condition?

Description	Parent-reported prevalence and use of medication for attention deficit disorders (ADD or ADHD) among children age 2-17 years
Survey Items	K2Q31A; K2Q31B; K2Q31D; AGEYR_CHILD
Denominator	Children age 2 through 17 years
Numerator	Currently have ADD/ADHD and are taking medication; currently have ADD/ADHD but are not taking medication; do not currently have ADD/ADHD

Notes for Data Users

Indicator 2.7 is based on three questions asked for children between two and 17 years of age: whether parents were ever told by a health care provider that the child has ADD or ADHD (K2Q31A); whether the child currently has ADD or ADHD (K2Q31B); and whether the child is currently taking medication for ADD or ADHD (K2Q31D). The second and third questions were asked only if the response to the previous question was "Yes".

Please note that in the NSCH all information about children's health conditions is based on parent recollection and is not independently verified. Further, a response of "Yes" to having "ever been told" that a child has a specific health condition (e.g., K2Q31A = Yes) DOES NOT indicate whether the child currently has that particular condition and therefore should not be interpreted as current prevalence.

Revisions

Current prevalence of health conditions is new in 2007. In both surveys 16 conditions were named and parents were asked for each condition whether they have ever been told by a health professional that their child has that condition. The 2007 survey added two follow-up questions not asked in 2003: parents who responded "yes" to the first question were asked if the child currently has that condition and, if so, whether they would describe it as mild, moderate or severe in their child.

In addition, placement of one question used to construct Indicator 2.7 changed significantly in 2007 survey. In 2003 the medication follow-up question for ADD/ADHD (K2Q31D) was placed separately at the end of the Health and Functional Status section. In 2007 it was moved to a position immediately after the other questions on ADD/ADHD (K2Q31A, K2Q31B, K2Q31C). Take these changes into consideration when comparing results across survey years.

SAS Code and Annotation

/*Indicator 2.7: Medication for ADD/ADHD*/

value adhdmed /*ind2_7_07*/

1 = "Has ADD or ADHD and using medication"

2 = "Has ADD or ADHD, no medication"

3 = "Does not currently have ADD or ADHD";

ind2_7_07 = .; /*Medication for ADD-ADHD*/

if K2Q31D = 1 then ind2_7_07 =1;

if K2Q31D = 0 then ind2_7_07 =2;

if K2Q31B = 0 then ind2_7_07 =3;

if K2Q31A = 0 then ind2_7_07 =3;

if (K2Q31A or K2Q31B or K2Q31D) in (6,7) then ind2_7_07 = .;

if AGEYR_CHILD <= 1 then ind2_7_07 = .;

label ind2_7_07 = "Indicator 2.7: Current use of medication for ADD or ADHD, age 2-17";

Indicator 2.7a: Severity of ADD/ADHD

Would you describe [child name]'s ADD or ADHD as mild, moderate or severe?

Description	Prevalence of current ADD or ADHD and severity rated as mild, moderate, or severe, by parent, age 2-17
Survey Items	K2Q31A; K2Q31B; K2Q31C
Denominator	Children age 2 through 17 years
Numerator	Do not currently have ADD/ADHD; currently have ADD/ADHD rated by parents as mild; currently have ADD/ADHD rated by parents as moderate or severe

Notes for Data Users

Indicator 2.7a is based on three questions asked for children between two and 17 years of age: whether parents were ever told by a health care provider that the child has ADD or ADHD (K2Q31A); whether the child currently has ADD or ADHD (K2Q31B); and whether the parent would describe it as mild, moderate, or severe (K2Q31C). The second and third questions were asked only if parents responded "Yes" to the preceding question. ADD/ADHD is among the 16 health conditions parents are asked about in the NSCH.

Please note that in the NSCH all information about children's health conditions is based on parent recollection and is not independently verified. Further, a response of "Yes" to having "ever been told" that a child has a specific health condition (e.g., K2Q31A = Yes) DOES NOT indicate whether the child currently has that particular condition and therefore should not be interpreted as current prevalence.

Revisions

Parent-rated severity of current health conditions is new in 2007. In both surveys 16 conditions were named and parents were asked to respond for each condition whether they have ever been told by a health professional that their child has that condition. The 2007 survey added two follow-up questions that were not asked in 2003. In the 2007 NSCH parents who responded "yes" to the first question were asked if the child currently has that condition. Parents of children who currently have each condition were asked if they would describe it as mild, moderate or severe.

SAS Code and Annotation

/*Indicator 2.7a: Severity of ADD/ADHD*/

value condsev_adhd /*ind2_7a_07*/

1 = "Does not currently have ADD or ADHD"

2 = "Mild"

3 = "Moderate or severe";

ind2_7a_07 = .; /*Severity of ADD-ADHD*/

if K2Q31A = 0 or K2Q31B = 0 then ind2_7a_07 = 1; /*Does not have the condition*/

if K2Q31C = 1 then ind2_7a_07 = 2;

if K2Q31C = 2 then ind2_7a_07 = 3;

if K2Q31C = 3 then ind2_7a_07 = 3;

if K2Q31A in (6,7) or K2Q31B in (6,7) or K2Q31C in (6,7) then ind2_7a_07 = .; /*Don't know or Refused*/

label ind2_7a_07 = "Indicator 2.7a: Current ADD/ADHD rated by parents as mild, moderate, or severe, age 2-17";

Indicator 2.8: Autism spectrum disorders

How many children currently have autism, Asperger's Disorder, pervasive development disorder, or other autism spectrum disorder?

Description	Parent-reported prevalence of current autism, Asperger's Disorder, pervasive development disorder, or other autism spectrum disorder, age 2-17
Survey Items	K2Q35A; K2Q35B; AGEYR_CHILD
Denominator	Children age 2 through 17 years
Numerator	Do not currently have autism/ASD; previously had autism/ASD, but not currently; currently have autism/ASD

Notes for Data Users

Indicator 2.8 is derived from on responses to two questions: whether parents were ever told by a health care provider that the child has autism or another autism spectrum disorder (K2Q35A); and, if the response to the previous question is "Yes", whether the child currently has the condition (K2Q35B). Respondents are grouped according to whether they have never had, ever had, or currently have autism or another autism spectrum disorder.

Please note that in the NSCH all information about children's health conditions is based on parent recollection and is not independently verified. Further, a response of "Yes" to having "ever been told" that a child has a specific health condition (e.g., K2Q31A = Yes) DOES NOT indicate whether the child currently has that particular condition and therefore should not be interpreted as current prevalence.

Revisions

Current prevalence of health conditions is new in 2007. In both surveys 16 conditions were named and parents were asked for each condition whether they have ever been told by a health professional that their child has that condition. The 2007 survey added two follow-up questions not asked in 2003: parents who responded "yes" to the first question were asked if the child currently has that condition and, if so, whether they would describe it as mild, moderate or severe in their child.

Also, an important change was made in the terminology used in reference to autism. In the 2003 NSCH only "autism" was named; in 2007 the term was expanded to include "autism, Asperger's Disorder, pervasive developmental disorder or other autism spectrum disorder".

Please take these changes into consideration when comparing across survey years.

SAS Code and Annotation

```
/* Indicator 2.8: Autism spectrum disorders*/

value autism /*ind2_8_07*/
1 = "Never had an autism spectrum disorder"
2 = "Previously told, not currently"
3 = "Current autism or other autism spectrum disorder";

ind2_8_07 = .; /*Current Autism Spectrum Disorder*/
if K2Q35A = 0 then ind2_8_07 = 1; /*Does not have condition*/
if K2Q35A = 1 and K2Q35B = 0 then ind2_8_07 = 2; /*Ever told, but does not current*/
if K2Q35A = 1 and K2Q35B = 1 then ind2_8_07 = 3; /*Currently has condition*/
if K2Q35A in (6,7) or K2Q35B in (6,7) then ind2_8_07 = .; /*Don't know or Refused*/
if AGEYR_CHILD <=1 then ind2_8_07 = .;
label ind2_8_07 = "Indicator 2.8: Parent-reported prevalence of current autism or other autism spectrum disorder, age 2-17";
```

Indicator 2.8a: Severity of autism spectrum disorder

Would you describe [child name]'s autism or ASD as mild, moderate or severe?

Description	Parent-reported prevalence and severity of current autism, Asperger's Disorder, pervasive development disorder, or other autism spectrum disorder, age 2-17
Survey Items	K2Q35A; K2Q35B; K2Q35C
Denominator	Children age 2 through 17 years
Numerator	Does not have autism/ASD; current autism/ASD parent-rated as mild; current autism/ASD parent-rated as moderate; current autism/ASD parent-rated as severe

Notes for Data Users

Indicator 2.8a uses parent responses to three questions asked for children between two and 17 years of age: whether parents were ever told by a health care provider that the child has autism, Asperger's disorder, pervasive developmental disorder, or other autism spectrum disorder (K2Q35A); whether the child currently has this condition (K2Q35B); and whether the parent would describe it as mild, moderate, or severe (K2Q35C). The second and third questions were asked only if parents responded "Yes" to the preceding question. Autism/ASD is among the 16 health conditions parents are asked about in the NSCH.

Please note that in the NSCH all information about children's health conditions is based on parent recollection and is not independently verified. Further, a response of "Yes" to having "ever been told" that a child has a specific health condition (e.g., K2Q31A = Yes) DOES NOT indicate whether the child currently has that particular condition and therefore should not be interpreted as current prevalence.

Revisions

Parent-rated severity of current health conditions is new in 2007. In both surveys 16 conditions were named and parents were asked for each condition whether they have ever been told by a health professional that their child has that condition. The 2007 survey added two follow-up questions not asked in 2003: parents who responded "yes" to the first question were asked if the child currently has that condition and, if so, whether they would describe it as mild, moderate or severe in their child.

Also, an important change was made in the terminology used in reference to autism. In the 2003 NSCH only "autism" was named; in 2007 the term was expanded to include "autism, Asperger's Disorder, pervasive developmental disorder or other autism spectrum disorder".

Please take these changes into consideration when comparing across survey years.

SAS Code and Annotation

/* Indicator 2.8a: Severity of autism spectrum disorder*/

```
value condsev_aut /*ind2_8a_07*/
1 = "Does not currently have autism spectrum disorder"
2 = "Mild"
3 = "Moderate"
4 = "Severe";
```

```
ind2_8a_07 = .; /*Severity of current Autism Spectrum Disorder*/
if K2Q35A = 0 or K2Q35B = 0 then ind2_8a_07 = 1;
if K2Q35C = 1 then ind2_8a_07 = 2;
if K2Q35C = 2 then ind2_8a_07 = 3;
if K2Q35C = 3 then ind2_8a_07 = 4;
if K2Q35A in (6,7) or K2Q35B in (6,7) or K2Q35C in (6,7) then ind2_8a_07 = .; /*Don't know or Refused*/
label ind2_8a_07 = "Indicator 2.8a: Current autism or other autism spectrum disorder rated by parents as mild, moderate, or severe, age 2-17";
```

Indicator 2.9: Medication for mental or emotional problems

How many children are taking medication for ADHD, emotions, concentration or behavioral issues?

Description	Use of medication for any emotional, behavioral, or concentration difficulties during the past 12 months, including current use of medication for ADD/ADHD, age 2-17
Survey Items	K2Q31D; K4Q23; AGEYR_CHILD
Denominator	Children age 2 through 17 years
Numerator	Not taking medication for emotions/concentration/behavior; currently taking medication for emotions/concentration/behavior (including ADD/ADHD)

Notes for Data Users

In order to include 2 to 17 year old children using medication for any emotional-behavioral condition, Indicator 2.9 combines responses to two questions: whether children with current ADD/ADHD are using medication (K2Q31D) and whether children not currently on medication for ADD/ADHD have taken medication for other emotional, behavioral, or concentration difficulties within the previous 12 months (K4Q23). A "Yes" to either of these questions qualifies.

Please note that in the NSCH all information about children's health conditions is based on parent recollection and is not independently verified.

Revisions

This content is new in 2007.

SAS Code and Annotation

```

/*Indicator 2.9: Medication for mental or emotional problems*/

value ADD_ADHD /*ind2_9_07*/
0 = "No"
1 = "Yes";

ind2_9_07 = .; /*Medication for emotions etc.*/
if K4Q23 in (6,7) then ind2_9_07 = . /*Don't know or Refused*/;
if K4Q23 eq 0 then ind2_9_07 = 0; /*No, not meds for emotion etc.*/
if K4Q23 eq 1 then ind2_9_07 = 1; /*Yes, on meds for emotion etc.*/
if K2Q31D eq 1 then ind2_9_07 = 1; /*Yes, on meds for emotion etc.*/
if AGEYR_CHILD < 2 then ind2_9_07 = .;
label ind2_9_07 = "Indicator 2.9: Use of medication for ADD/ADHD or for difficulty with emotions, concentration or
behavior, past 12 months, age 2-17";

```

Health Insurance Coverage

Indicator 3.1: Currently Insured

Does [child name] have any kind of health care coverage, including health insurance, prepaid plans such as HMOs, or government plans such as Medicaid?

Description	Number of children who were covered by comprehensive health care insurance at the time or the survey
Survey Items	K3Q01
Denominator	Children age 0 through 17 years
Numerator	Currently uninsured; Currently have health insurance coverage of some type

Notes for Data Users

Question K3Q01 defines health coverage as including "health insurance, prepaid plans such as HMOs, or government plans such as Medicaid." To qualify as insured, child's coverage must include both outpatient and hospitalization benefits.

Revisions

No changes; same as 2003

SAS Code and Annotation

```
/*Indicator 3.1: Currently Insured*/

value insur /*ind3_1_07*/
1 = "Insured"
2 = "Not insured";

ind3_1_07 = K3Q01; /*Current Health Insurance*/
if ind3_1_07 in (6,7) then ind3_1_07 = /*Don't know or Refused*/;
if ind3_1_07 eq 0 then ind3_1_07 = 2; /* RECODES from 0,1 to 1,2 */
label ind3_1_07 = "Indicator 3.1: Current health insurance status";
```

Health Insurance Coverage

Indicator 3.2: Consistent health insurance coverage

How many children had consistent health insurance coverage during the past 12 months?

Description	Prevalence of gaps in children's health insurance coverage over past 12 months and currently
Survey Items	K3Q01; K3Q03
Denominator	Children age 0 through 17 years
Numerator	Have had continuous health insurance coverage for at least one year; Currently uninsured or periods with no health insurance

Notes for Data Users

Indicator 3.2 combines responses to whether the child currently has health insurance coverage (K3Q01) and whether currently insured children have had periods with no insurance (K3Q03), to determine how many children have had continuous coverage for at least one year and how many were uninsured at the time of the survey or at some time within the previous 12 months.

Revisions

No changes; same as 2003

SAS Code and Annotation

```

/*Indicator 3.2: Consistent health insurance coverage*/

value cons_ins /*ind3_2_07*/
1 = "Uninsured at any time or currently uninsured"
2 = "Insured continuously AND currently insured";

ind3_2_07 = .; /*Consistent Health Insurance Coverage*/
if K3Q01 = 0 or K3Q03= 1 then ind3_2_07 = 1;
if K3Q03 = 0 then ind3_2_07 = 2;
label ind3_2_07 = "Indicator 3.2: Consistency of children's health insurance coverage over previous 12 months";

```

Health Insurance Coverage

Indicator 3.3: Insurance Type

What type of health insurance coverage, if any, did [child name] have at the time of the survey?

Description	Current health insurance coverage and type: public (Medicaid, SCHIP) or private (self-insured, employer)
Survey Items	K3Q01; K3Q02
Denominator	Children age 0 through 17 years
Numerator	Public insurance; Private insurance; Currently uninsured

Notes for Data Users

Indicator 3.3 is derived from two questions: whether the child is currently insured (K3Q01); and whether currently insured children have public or private coverage (K3Q02). Question K3Q01 defines health insurance as including "health insurance, prepaid plans such as HMOs, or government plans such as Medicaid." In K3Q02 public insurance is defined as "Medicaid or the State Children's Health Insurance Program, S-CHIP" and names the Medicaid and/or SCHIP programs for the state the child resides in. Children who are insured but do not have public insurance are coded as having private insurance coverage.

Revisions

No changes; same as 2003

SAS Code and Annotation

```

/*Indicator 3.3: Insurance Type*/

value type /*ind3_3_07*/
1 = "Public insurance such as Medicaid or SCHIP"
2 = "Private insurance such as employer or self-insured"
3 = "Currently uninsured";

ind3_3_07 = .; /*Type of Health Insurance Coverage*/
if K3Q01 in (1,6,7) and K3Q02 = 1 then ind3_3_07 = 1; /*Public*/
if K3Q01 = 1 and K3Q02 = 0 then ind3_3_07 = 2; /*Private*/
if K3Q01 = 0 then ind3_3_07 = 3; /*Not Insured*/
else if ind3_3_07 not in (1,2,3) then ind3_3_07 = .;
label ind3_3_07 = "Indicator 3.3: Current health insurance status and type of insurance";

```


Health Insurance Coverage

Indicator 3.4: Adequacy of Insurance

Is [child name]'s current insurance coverage adequate to meet [child name]'s needs?

Description	Among children who are currently insured, adequacy of current health plan to (1) meet children's health needs, (2) allow children to see needed providers, and (3) have reasonable or no out-of-pocket expenses paid by families
Survey Items	K3Q01; K3Q20; K3Q21a; K3Q21b; K3Q22
Denominator	Children age 0 through 17 years with current insurance
Numerator	Current insurance is adequate for child's needs; Current insurance NOT adequate for child's needs

Notes for Data Users

Five questions were used to create Indicator 3.4: current health insurance coverage (K3Q01); whether coverage is sufficient to meet the child's needs (K3Q20); whether the family pays some health care costs out of pocket (K3Q21A) and how often are these costs reasonable (K3Q21B); and whether insurance allows the child to see needed health care providers (K3Q22).

Adequate insurance is defined by these criteria: child currently has health insurance coverage AND benefits usually or always meet child's needs AND usually or always allow child to see needed providers AND either no out-of-pocket expenses or out-of-pocket expenses are usually or always reasonable.

Excludes 6,808 children who were uninsured at the time of the survey (weighted estimate: 9.1% of all children age 0-17).

Revisions

Questions about adequacy of insurance (K3Q20; K3Q21a; K3Q21b; K3Q22) were newly added in 2007; not asked in 2003

SAS Code and Annotation

```

/*Indicator 3.4: Adequacy of Insurance*/

value nsua /*benefits_07, allows_07*/
1 = "Never"
2 = "Sometimes"
3 = "Usually"
4 = "Always";

value nsuao /*expense_07*/
1 = "Never"
2 = "Sometimes"
3 = "Usually"
4 = "Always"
5 = "No Out of Pocket Costs";

value adequate /*ind3_4_07*/
1 = "YES, coverage is adequate"
2 = "No, not adequate";

ind3_4_07 = .; /*Adequacy of current health insurance*/
benefits_07 = K3Q20;
allows_07 = K3Q22;
expense_07 = K3Q21B;

if K3Q21A = 0 then expense_07 = 5;
if benefits_07 > 4 or benefits_07 < 0 then benefits_07 = .;

```

Health Insurance Coverage

```
if allows_07 > 4 or allows_07 < 0 then allows_07 = .;
if expense_07 > 5 or expense_07 < 0 then expense_07 = .;
label benefits_07 = "Does child's health insurance offer benefits or cover services that meet his/her needs?";
label allows_07 = "Does child's health insurance allow him/her to see the health care providers he/she needs?";
label expense_07 = "Are the out of pocket costs for child's health care reasonable?";

if benefits_07 in (3,4,.) and allows_07 in (3,4,.) and expense_07 in (3,4,5,.) then ind3_4_07 = 1;
if benefits_07 in (1,2) or allows_07 in (1,2) or expense_07 in (1,2) then ind3_4_07 = 2;
if benefits_07 = . and allows_07 = . and expense_07 = . then ind3_4_07 = .;
label ind3_4_07 = "Indicator 3.4: Insurance plan usually or always meets all of three criteria, children who are currently insured";
```

Indicator 4.1: Preventive health care

During the past 12 months/since [his/her] birth, how many times did [child name] see a doctor, nurse, or other health care provider for preventive medical care such as a physical exam or well-child checkup?

Description	Number of children who saw a doctor, nurse, or other health care provider for preventive health care during the previous 12 months
Survey Items	K4Q20R
Denominator	Children age 0 through 17 years
Numerator	No preventive medical visits during past 12 months; one or more preventive medical visits

Notes for Data Users

Indicator 4.1 groups responses to K4Q20 by whether or not the child had any visits for preventive medical care during the past 12 months.

Revisions

In 2003 Indicator 4.1 was constructed from two questions: did the child have a preventive medical visit, and how many times did they see a doctor. In 2007 these questions were combined into one question: how many times did the child see a health care professional for preventive medical care (K2Q20). Please take these changes into consideration when comparing results across survey years.

SAS Code and Annotation

```

/* Indicator 4.1: Preventive health care */

value prev_med /*ind4_1_07*/
1 = "Yes, one or more visits"
2 = "NO visits";

ind4_1_07 = K4Q20R; /*Preventive Medical Care*/
if K4Q20R ge 1 then ind4_1_07 = 1; /*Yes, one or more visits*/
if K4Q20R eq 0 then ind4_1_07 = 0; /*NO visits*/
if ind4_1_07 eq 0 then ind4_1_07 = 2; /*RECODE from 0,1 to 1,2*/
if K4Q20R in (996, 997) then ind4_1_07 = .; /*Don't know or Refused*/
label ind4_1_07 = "Indicator 4.1: Visited a health care professional for preventive services, past 12 months";
    
```

Indicator 4.2: Preventive dental care

During the past 12 months/since [his/her] birth, how many times did [child name] see a dentist for preventive dental care such as check-ups and dental cleanings?

Description	Number of children age 1-17 who saw a dentist for preventive dental care during the previous 12 months
Survey Items	K4Q21R; AGEYR_CHILD
Denominator	Children age 1 through 17 years
Numerator	No preventive dental visits during the past 12 months; one or more preventive dental visits

Notes for Data Users

Indicator 4.2 groups responses to K4Q21R by whether or not the child had any visits for preventive dental care during the past 12 months. Children younger than one year of age are not included in this measure.

Revisions

In 2003 Indicator 4.2 was based on two questions: whether preventive dental care was needed, and whether it was received. In the 2007 survey parents were instead asked one question: how many times did the child see a dentist for preventive dental care (K2Q21).

SAS Code and Annotation

```

/*Indicator 4.2: Preventive dental care*/

value prev_dent /*ind4_2_07*/
1 = "Yes, one or more visits"
2 = "NO visits";

ind4_2_07 = K4Q21R; /*Preventive Dental Care*/
if K4Q21R ge 1 then ind4_2_07 = 1; /*Yes, one or more visits*/
if K4Q21R = 0 then ind4_2_07 = 2; /*NO visits*/
if K4Q21R in (996, 997) then ind4_2_07 = .; /*Don't Know or Refused*/
if AGEYR_CHILD <1 then ind4_2_07 = .;
label ind4_2_07 = "Indicator 4.2: Visited a dentist for preventive services, past 12 months, age 1-17";
    
```

Indicator 4.3: Preventive medical and dental care

During the past 12 months, did [child name] receive BOTH routine preventive medical and dental care visits?	
Description	Number of children who visited both medical and dental health professionals for routine preventive care during the previous 12 months
Survey Items	K4Q20R; K4Q21R; AGEYR_CHILD
Denominator	Children age 0 through 17 years
Numerator	Did not receive both medical and dental preventive care visits; Received both medical and dental preventive care visits

Notes for Data Users
 Indicator 4.3 is a composite of the previous two indicators. Children age 1-17 must meet criteria for both medical and dental preventive care. Children under one, who were not asked the questions about dental care, qualified based only on preventive medical care.

Revisions
 Wording and construction of the questions used for Indicator 4.3 were changed in the 2007 survey.
 In 2003 Indicator 4.1 was constructed from two questions: did the child have a preventive visit, and how many times did they see a doctor. In 2007 these questions were combined into one question: how many times did the child see a health care professional for preventive medical care (K2Q20).
 In 2003 Indicator 4.2 was based on two questions: whether preventive dental care was needed, and whether it was received. In the 2007 survey parents were instead asked one question: how many times did the child see a dentist for preventive dental care (K2Q21).
 Please take these changes into consideration when comparing results across survey years.

SAS Code and Annotation

```

/* Indicator 4.3: Preventive medical and dental care*/

value med_dent /*ind4_3_07*/
0 = "Did not receive one or both"
1 = "Received BOTH medical and dental";

ind4_3_07 = .; /*Preventive medical and dental care*/
if 0 < K4Q20R < 366 and 0 < K4Q21R < 301 then ind4_3_07 = 1; /*Yes*/
else if 0 < K4Q20R < 366 and AGEYR_CHILD < 1 then ind4_3_07 = 1; /*Yes*/
else if 0 < K4Q20R < 366 and K4Q21R = 0 then ind4_3_07 = 0; /*No*/
else if K4Q20R = 0 and K4Q21R = 0 then ind4_3_07 = 0; /*No*/
else if K4Q20R = 0 and 0 < K4Q21R < 301 then ind4_3_07 = 0; /*No*/
else if K4Q20R = 0 and AGEYR_CHILD < 1 then ind4_3_07 = 0; /*No*/
else if K4Q20R in (996,997) and K4Q21R in (996,997) then ind4_3_07 = .; /*Don't know or Refused to both*/
label ind4_3_07 = "Indicator 4.3: Received preventive health care and, if 1 year or older, dental care, past 12 months";
  
```

Indicator 4.5: Mental health services

During the past 12 months has [child name] received any treatment or counseling from a mental health professional?

Description	Of children age 2-17 who have emotional, developmental, or behavioral problems, how many received treatment or counseling from a psychiatrist, psychologist, psychiatric nurse practitioner, or other mental health professional during the previous 12 months
Survey Items	K2Q22; K4Q22
Denominator	Children age 2 through 17 years who need mental health services
Numerator	Did not get mental health treatment or counseling; saw a mental health professional for treatment or counseling

Notes for Data Users

Indicator 4.5 is based on two questions. The denominator is composed of all children age 2-17 who have emotional, developmental, or behavioral problems for which they need treatment or counseling (K2Q22). These children are grouped according to whether or not they received treatment from a mental health professional during the past 12 months (K4Q22). Excludes 75,762 children age 2-17 who did not have emotional, behavioral or developmental issues requiring mental health services (weighted estimate: 92.3% of all children age 2-17).

Revisions

Significant changes were made to the denominator, question, and introduction for indicator 4.5 in the 2007 survey. In 2007 the age range was restricted to children age 2-17 years. Also in 2007, examples of mental health professionals and services were added to wording of the question introduction and text. Take these changes into consideration when comparing results across survey years.

SAS Code and Annotation

```
/* Indicator 4.5: Mental health services*/

value mentcare /*ind4_5_07*/
1 = "Yes"
2 = "No";

ind4_5_07 = .; /*Mental Health Care*/
if K2Q22 = 1 and K4Q22 = 1 then ind4_5_07 = 1; /*Yes*/
if K2Q22 = 1 and K4Q22 = 0 then ind4_5_07 = 2; /*No*/
label ind4_5_07 = "Indicator 4.5: Received services from a mental health professional for emotional, behavioral or developmental problems, past 12 months, age 2-17";
```

Indicator 4.6a: Unmet health needs

During the past 12 months, was there any time when [child name] needed health care but it was delayed or not received? Was it medical care, dental care, mental health services, or something else?

Description	How many children had medical, dental, mental health, or other health care needs that were delayed or not met during the previous 12 months
Survey Items	K4Q27; K4Q28X01; K4Q28X02; K4Q28X03; K4Q28X04
Denominator	Children age 0 through 17 years
Numerator	No unmet needs; unmet needs for one or more types of health care

Notes for Data Users

The 2007 NSCH approaches the question of health care needs that have been delayed or not met during the previous year (K4Q27) by grouping unmet needs according to type of health care: medical (K4Q28X01), dental (K4Q28X02), mental health (K4Q28X03), or other (K4Q28X04). Indicator 4.6a counts the number of children who had unmet needs for one or more of these four types.

Revisions

This content was significantly modified in 2007. In the 2003 NSCH only children who either saw a doctor/nurse or needed medical care in the previous year were asked if they had delays in receiving care. In 2007 the question about delayed or unreceived health care services was asked the question for all children. Take these changes into consideration when comparing results across survey years.

SAS Code and Annotation

```
/* Indicator 4.6a: Unmet health needs */

value unmet /*ind4_6a_07*/
0 = "No unmet health needs"
1 = "Unmet need for one or more type";

med_unmet = K4Q28X01;
if K4Q28X01 in (6,7) then med_unmet = .;
label med_unmet = "Medical care unmet need";

dent_unmet = K4Q28X02;
if K4Q28X02 in (6,7) then dent_unmet = .;
label dent_unmet = "Medical care unmet need";

ment_unmet = K4Q28X03;
if K4Q28X03 in (6,7) then ment_unmet = .;
label ment_unmet = "Mental care unmet need";

other_unmet = K4Q28X04;
if K4Q28X04 in (6,7) then other_unmet = .;
label other_unmet = "Other service unmet need";

unmet_needs = 1;
if med_unmet = 1 then unmet_needs + 1; /*Medical care unmet need*/
if dent_unmet = 1 then unmet_needs + 1; /*Dental care unmet need*/
if ment_unmet = 1 then unmet_needs + 1; /*Mental care unmet need*/
if other_unmet = 1 then unmet_needs + 1; /*Other service unmet need*/
label unmet_needs = "Number of unmet needs";

ind4_6a_07 = .; /*Unmet health care needs*/
if unmet_needs ge 1 then ind4_6a_07 = 1; /*Has 1 or more unmet need*/
```

Health Care Access and Quality

```
if K4Q27 = 0 then ind4_6a_07 = 0; /*No unmet health needs*/  
if K4Q27 in (6,7) then ind4_6a_07 = .; /*Don't know or Refused*/  
if med_unmet = . and dent_unmet = . and ment_unmet = . and other_unmet = . then ind4_6a_07 = .; /*Don't know  
or Refused*/  
label ind4_6a_07 = "Indicator 4.6a: Medical, dental, mental health, or other type of health care delayed or not  
received, past 12 months";
```


Indicator 4.8: Medical home

How many children receive health care that meets the AAP definition of medical home?

Description	How many children receive health care that meets AAP Medical Home criteria as operationalized in the NSCH: personal doctor or nurse, usual source of care, family centered care, getting referrals when needed, and effective care coordination when needed
Survey Items	K4Q01; K4Q02R; K4Q04; K4Q22; K4Q24; K5Q10; K5Q11; K5Q20; K5Q21; K5Q22; K5Q30; K5Q31; K5Q32; K5Q40; K5Q41; K5Q42; K5Q43; K5Q44; K5Q46
Denominator	Children age 0 through 17 years
Numerator	Children whose health care does not qualify; Children whose health care meets Medical Home criteria

Notes for Data Users

The American Academy of Pediatrics specifies seven qualities essential to medical home care: accessible, family-centered, continuous, comprehensive, coordinated, compassionate and culturally effective. Ideally, medical home care is delivered within the context of a trusting and collaborative relationship between the child's family and a competent health professional who is familiar with the child and family and the child's health history.

For the 2007 NSCH, presence of a medical home is measured by a composite based on five component variables constructed from a total of 19 survey items. These component indicators are:

- Indicator 4.9: Personal doctor or nurse - pdn
- Indicator 4.9a: Usual source for care - usual
- Indicator 4.9b: Family-centered care - famcent
- Indicator 4.9c: Getting needed referrals - norefprob
- Indicator 4.9d: Effective Care Coordination when needed - carecoor.

To qualify as having a Medical Home children must meet the criteria for adequate care on the first three components: personal doctor or nurse, usual source for care, and family-centered care. Any children who needed referrals or care coordination must also meet criteria for those components in order to qualify as having a medical home.

Further information about Medical Home concept and measurement is available on the Data Resource Center Medical Home portal, www.medicalhomedata.org, and on the AAP Medical Home web page, www.aap.org/healthtopics/medicalhome.cfm.

Excludes 3,580 children who did not have valid responses to all required component items (weighted estimate: 4.3% of all children age 0-17).

Revisions

Medical Home items and criteria in the 2007 NSCH differ substantially from the 2003 survey. The goal of these changes was to align measurement of Medical Home in the NSCH more closely with the Medical Home measure used in the 2005-2006 National Survey of Children with Special Health Care Needs. Please take this into consideration when comparing across survey years.

SAS Code and Annotation

```
/*Indicator 4.8: Medical Home*/

value medhome /*ind4_8_07*/
0 = "One or more criteria not met"
1 = "Met all Medical Home criteria";

value pdn_yn /*pdn*/
0 = "Do not have personal dr or nurse"
1 = "Yes, has personal dr or nurse";
```

```

value norerefpb /*norefprb*/
0 = "Big or small problem"
1 = "No problem"
2 = "No referral needed";

value usual /*usuals*/
0 = "No usual source"
1 = "Yes, has usual source";

value medhome_yn /*K4Q22R K5Q31R K5Q20R K5Q21R*/
0 = "No"
1 = "Yes";

value need_drcom /*doccommneed*/
0 = "No specialist or mental health"
1 = "Used 1 or both ";

value drsatis /*drcomm_sat*/
0 = "Less than very satisfied"
1 = "Very satisfied"
2 = "Not needed or did not use services";

value othcom
0 = "Less than very satisfied"
1 = "Very satisfied"
2 = "Not needed or did not use services";

value carehlp /*carehelp*/
0 = "Needed but did not get extra help"
1 = "Got help with and/or extra help needed"
2 = "Less than 2 service types or help not needed";

value care_coor /*carecoor*/
0 = "Did NOT receive all care coordination needed"
1 = "Received all needed components of care coordination"
2 = "Did not need coordination or less than 2 service types";

value fcc /*time listen sensitiv info partner interpret*/
0 = "Sometimes/never"
1 = "Always/usually"
2 = "Did not see doctor";

value famcent_care /*famcent*/
0 = "Does not have FCC"
1 = "Yes, has FCC"
2 = "Did not see doctor";

/*****Personal doctor or nurse (PDN) Component *****/

/*PERSONAL DOCTOR or NURSE sub-component of MEDICAL HOME composite measure*/
pdn=.;
if K4Q04 in (1,2) then pdn = 1;
else if K4Q04 = 3 then pdn = 0;
else if K4Q04 in (6,7,.M) then pdn = .;
label pdn = "Personal Doctor or Nurse sub-component of MEDICAL HOME composite measure";

```

Health Care Access and Quality

```
/******Comprehensive Care Component *****/
```

```
/*GETTING NEEDED REFERRALS sub-component of MEDICAL HOME composite measure*/
```

```
norefprb = .;  
if K5Q10 = 0 then norefprb = 2;  
else if K5Q10 in (6,7,.M) then norefprb = .;  
else if K5Q11 in (1,2) then norefprb = 0;  
else if K5Q11 = 3 then norefprb = 1;  
else if K5Q11 in (6,7,.M) then norefprb = .;  
label norefprb = "Getting Needed Referrals sub-component of MEDICAL HOME composite measure";
```

```
/*USUAL SOURCES FOR SICK AND WELL CARE sub-component of MEDICAL HOME composite measure*/
```

```
usuals = .;  
if K4Q01 in (1,3) and K4Q02R in (1,3,4,5,6,8,10) then usuals = 1;  
else if K4Q01 = 2 or K4Q02R in (2,7,9) then usuals = 0;  
else if K4Q01 in (6,7) or K4Q02R in (.M,96,97) then usuals = .;  
label usuals = "Usual Sources for Sick and Well Care sub-component of MEDICAL HOME composite measure";
```

```
/******Coordinated Care Component *****/
```

```
/*EFFECTIVE CARE COORDINATION sub-component of MEDICAL HOME composite measure*/
```

```
K4Q22R = K4Q22;  
if K4Q22 in (6,7) then K4Q22R = .;  
label K4Q22R = "Received counseling or tx from mental hlth professional, last 12 mos";
```

```
if K4Q22 = 1 or K4Q24 = 1 then doccommneed = 1;  
else if K4Q22 = 0 or K4Q24 = 0 then doccommneed = 0;  
else doccommneed = .;  
label doccommneed = "Doctor communication needed if specialist, MH, PT/OT/ST, sub abuse, or home hlth care used";
```

```
drcomm_sat = .;  
if doccommneed = 0 then drcomm_sat = 2;  
else if doccommneed = . then drcomm_sat = .;  
else if K5Q30 = 1 then drcomm_sat = 1;  
else if K5Q30 in (2,3,4) then drcomm_sat = 0;  
else if K5Q30 = 5 then drcomm_sat = 2;  
else if K5Q30 in (6,7,.M) then drcomm_sat = .;  
else if K5Q30 = .L then drcomm_sat = 2;  
label drcomm_sat = "Level of satisfaction with doctor to doctor communication";
```

```
K5Q31R = K5Q31;  
if K5Q31 in (6,7) then K5Q31R = .;  
label K5Q31R = "Needed doctor communication w/ school or other services"
```

```
othcomm = .;  
if K5Q31 = 0 then othcomm = 2;  
else if K5Q31 in (6,7) then othcomm = .;  
else if K5Q32 = 1 then othcomm = 1;  
else if K5Q32 in (2,3,4) then othcomm = 0;  
else if K5Q32 = 5 then othcomm = 2;  
else if K5Q32 in (6,7,.M) then othcomm = .;  
else if K5Q32 = .L then othcomm = 2;  
label othcomm = "Level of satisfaction with dr communication w/ school or other services";
```

```
K5Q20R = K5Q20;
```

Health Care Access and Quality

```
if K5Q20 in (6,7) then K5Q20R = .;
label K5Q20R = "Does anyone help to arrange or coordinate child's health care";

K5Q21R = K5Q21;
if K5Q21 in (6,7) then K5Q21R = .;
label K5Q21R = "Could use extra help to arrange/coordinate child's health care"

carehelp = .;
if K5Q20 = .L then carehelp = 2;
else if K5Q20 = .M then carehelp = .;
else if K5Q20 = 0 and K5Q21 = 0 then carehelp = 2;
else if K5Q20 in (6,7) and K5Q21 = 0 then carehelp = .;
else if K5Q21 in (6,7) then carehelp = .;
else if K5Q22 in (6,7) then carehelp = .;
else if K5Q20 = 1 and K5Q21 = 0 then carehelp = 1;
else if K5Q22 = 3 then carehelp = 1;
else if K5Q22 in (1,2) then carehelp = 0;
label carehelp = "Gets help with care coordination when needed";

carecoor = .;
if carehelp = . or drcomm_sat = . or othcomm = . then carecoor = .;
else if carehelp = 2 and drcomm_sat = 2 and othcomm = 2 then carecoor = 2;
else if carehelp in (1,2) and drcomm_sat in (1,2) and othcomm in (1,2) then carecoor = 1;
else if carehelp = 0 or drcomm_sat = 0 or othcomm = 0 then carecoor = 0;
label carecoor = "Effective Care Coordination sub-component of MEDICAL HOME composite measure";

/***** Family Centered Care Component *****/

/*FAMILY-CENTERED CARE sub-component of MEDICAL HOME composite measure*/

time=. ;
if K5Q40 in (6,7) then time = .;
else if K5Q40 = .L then time = 2;
else if K5Q40 = 1 or K5Q40 = 2 then time = 0;
else if K5Q40 = 3 or K5Q40 = 4 then time = 1;
label time = "How often doctor spends enough time";

listen=. ;
if K5Q41 in (6,7) then listen = .;
else if K5Q41 = .L then listen = 2;
else if K5Q41 = 1 or K5Q41 = 2 then listen = 0;
else if K5Q41 = 3 or K5Q41 = 4 then listen = 1;
label listen = "How often doctor listens carefully";

sensitiv=. ;
if K5Q42 in (6,7) then sensitiv = .;
else if K5Q42 = .L then sensitiv = 2;
else if K5Q42 = 1 or K5Q42 = 2 then sensitiv = 0;
else if K5Q42 = 3 or K5Q42 = 4 then sensitiv = 1;
label sensitiv = "How often doctor sensitive to family values and customs";

info=. ;
if K5Q43 in (6,7) then info = .;
else if K5Q43 = .L then info = 2;
else if K5Q43 = 1 or K5Q43 = 2 then info = 0;
```

Health Care Access and Quality

```
else if K5Q43 = 3 or K5Q43 = 4 then info = 1;
label info = "How often doctor provides needed information";

partner=.;
if K5Q44 in (6,7) then partner = .;
else if K5Q44 = .L then partner = 2;
else if K5Q44 = 1 or K5Q44 = 2 then partner = 0;
else if K5Q44 = 3 or K5Q44 = 4 then partner = 1;
label partner = "How often doctor makes parent feel like partner in child's care ";

interpret=.;
if K5Q46 in (6,7) then interpret = .;
else if K5Q46 = .L then interpret = 2;
else if K5Q46 = 1 or K5Q46 = 2 then interpret = 0;
else if K5Q46 = 3 or K5Q46 = 4 then interpret = 1;
label interpret = "How often able to access interpreter help, if needed (non-Eng PHL only)";

famcent = .;
if time = . or listen = . or sensitiv = . or info = . or partner = . or interpret = . then famcent = .;
else if time = 2 then famcent = 2;
else if time in (1,2) and listen in (1,2) and sensitiv in (1,2) and info in (1,2) and
    partner in (1,2) and interpret in (1,2) then famcent = 1;
else if time = 0 or listen = 0 or sensitiv = 0 or info = 0 or partner = 0 or interpret = 0 then famcent = 0;
label famcent = "Family-centered care sub-component of MEDICAL HOME measure";

/***** MEDICAL HOME COMPOSITE MEASURE*****/

ind4_8_07 = .;
if pdn = . Or usuals = . Or famcent = . Or norefprb = . Or carecoor = . Then ind4_8_07 = .;
else if pdn = 2 and usuals = 2 and famcent = 2 and norefprb = 2 and carecoor = 2 then ind4_8_07 = .;
else if pdn = 1 and usuals = 1 and norefprb in (1,2) and famcent in (1,2) and carecoor in (1,2) then ind4_8_07 = 1;
else if pdn = 0 or usuals = 0 or norefprb = 0 or famcent = 0 or carecoor = 0 then ind4_8_07 = 0;
label ind4_8_07 = "Indicator 4.8: Children whose health care meets criteria for all 5 components of medical home:
personal doctor or nurse, family centered care, getting needed referrals, usual source of care, and effective care
coordination";

/*NOTE: For a list of SAS codes for missing data, see "Note for SAS users – Codes for missing values in public use
data files" in the Introduction, page5.*/
```

Indicator 4.9: Personal doctor or nurse

A personal doctor or nurse is a health professional who knows your child well and is familiar with your child's health history. Do you have one or more person(s) you think of as [child name]'s personal doctor or nurse (PDN)?

Description	Prevalence of children whose health care is delivered by health care professionals who are familiar with the child and the child's health (sub-component #1 of Medical Home measure)
Survey Items	K4Q04
Denominator	Children age 0 through 17 years
Numerator	Children without a PDN; children who have a PDN

Notes for Data Users

Indicator 4.9 is derived directly from K4Q04. A child's "personal doctor or nurse" (PDN) could be one or more health care professionals. A health care professional is defined as a general doctor, pediatrician, specialist doctor, nurse practitioner, or physician's assistant.

"Personal doctor or nurse" is one of the five core components of the composite Medical Home measure and must be met in order for a child's health care to meet the Medical Home standard.

Revisions

Wording of item K4Q04 is identical to the 2003 NSCH. However, placement was changed from Section 5 in the 2003 questionnaire to Section 4 in 2007. Take this change into consideration when comparing results across survey years.

SAS Code and Annotation

/* Indicator 4.9: Personal doctor or nurse*/

value persdoc_yn /* ind4_9_07*/

1 = "Yes, one or more PDN"

2 = "No personal doctor or nurse";

ind4_9_07=.;

if K4Q04 in (1,2) then ind4_9_07 = 1;

else if K4Q04 = 3 then ind4_9_07 = 2;

else if K4Q04 in (6,7,.M) then ind4_9_07 = .;

label ind4_9_07 = "Indicator 4.9: Children who have at least one personal doctor or nurse (PDN)";

/*NOTE: For a list of SAS codes for missing data, see "Note for SAS users – Codes for missing values in public use data files" in the Introduction, page5.*/

Indicator 4.9a: Usual source of care

How many children have a usual place for health care and advice?

Description	Number of children who have an office, clinic, health center or other place they usually go when they are sick or need health advice (sub-component #2 of Medical Home measure)
Survey Items	K4Q01; K4Q02R
Denominator	Children age 0 through 17 years
Numerator	Children with no usual source for health care; Children who usually go to a certain provider or clinic for health care services

Notes for Data Users

Indicator 4.9a is derived from two questionnaire items: whether child has a usual place for sick care or advice (K4Q01) and what type of place they go to most often for medical care (K4Q02R).

Criteria for meeting this component of the Medical Home measure are: having a usual place of care (K4Q01) that is categorized in K4Q02R as a doctor's office, hospital outpatient department, clinic or health center, school, friend or relative, some other place, or a telephone advice line. Responses indicating that the child does not have a usual source of care (K4Q01) or that the place of care is a hospital emergency room, is located outside the U.S., or the child does not go to one place most often (K4Q02R), are defined as not having a usual source of care.

"Usual source for care" is one of the five core components of the composite Medical Home measure and must be met in order for a child's health care to meet the Medical Home standard.

Revisions

This content is new in 2007.

SAS Code and Annotation

/*Indicator 4.9a: Usual source of care*/

value source_yn /*ind4_9a_07*/

0 = "No, criteria not met"

1 = "Yes, has usual place";

ind4_9a_07 = .; /*Usual source of care*/

if K4Q01 in (1,3) and K4Q02R in (1,3,4,5,6,8,10) then ind4_9a_07 = 1;

else if K4Q01 = 2 or K4Q02R in (2,7,9) then ind4_9a_07 = 0;

else if K4Q01 in (6,7) or K4Q02R in (.M,96,97) then ind4_9a_07 = .;

label ind4_9a_07 = "Indicator 4.9a: Children who have a usual place for care when sick or need health advice";

/*NOTE: For a list of SAS codes for missing data, see "Note for SAS users – Codes for missing values in public use data files" in the Introduction, page5.*/*

Indicator 4.9b: Family-centered care

For those receiving care during the past 12 months, how many children received family-centered care?	
Description	Prevalence of family-centered health care: providers spend enough time, listen carefully, respect family's values and customs, provide information when needed, treat parents as partners, and provide interpreters when needed (sub-component #3 of Medical Home measure)
Survey Items	K5Q40; K5Q41; K5Q42; K5Q43; K5Q44; K5Q46
Denominator	Children age 0 through 17 years, who received care during the past 12 months
Numerator	Did not receive family-centered care; received family-centered care services

Notes for Data Users

Indicator 4.9b is derived from responses to six experience-of-care items: doctor or other health care professional spends enough time with child (K5Q40), listens carefully to parents (K5Q41), is sensitive to family values/customs (K5Q42), gives needed information (K5Q43), treats parents as partners in child's health care (K5Q44), and, if needed, provides an interpreter (K5Q46). To qualify as having family-centered care responses to all questions must be either "Usually" or "Always". Excludes 2,472 children who had no health care visits during the past twelve months (weighted estimate: 3.3% of all children age 0-17). Also, 2,181 eligible children were missing valid responses to one or more of the required component items (weighted estimate: 2.3% of all children age 0-17).

"Family-centered care" is one of the five core components of the composite Medical Home measure and must be met in order for a child's health care to meet the Medical Home standard.

Revisions

The questions which comprise this measure changed significantly from 2003 to 2007. Also, new questions were added in 2007 to obtain more detail about family-centered care. Please take these changes into consideration when comparing across survey years.

SAS Code and Annotation

```

/* Indicator 4.9b: Family-centered care */

value fcc_yn /*ind4_9b_07*/
0 = "No, criteria not met"
1 = "Yes, met FCC criteria";

value fcc /*time listen sensitiv info partner interpret*/
0 = "Sometimes/never"
1 = "Always/usually"
2 = "Did not see doctor";

time=.;
if K5Q40 in (6,7) then time = .;
else if K5Q40 = .L then time = 2;
else if K5Q40 = 1 or K5Q40 = 2 then time = 0;
else if K5Q40 = 3 or K5Q40 = 4 then time = 1;
label time = "Doctors usually or always spend enough time, past 12 months";

listen=.;
if K5Q41 in (6,7) then listen = .;
else if K5Q41 = .L then listen = 2;
else if K5Q41 = 1 or K5Q41 = 2 then listen = 0;
else if K5Q41 = 3 or K5Q41 = 4 then listen = 1;
label listen = "Doctors usually or always listen carefully, past 12 months";

sensitiv=.;

```


Health Care Access and Quality

```
if K5Q42 in (6,7) then sensitiv = .;
else if K5Q42 = .L then sensitiv = 2;
else if K5Q42 = 1 or K5Q42 = 2 then sensitiv = 0;
else if K5Q42 = 3 or K5Q42 = 4 then sensitiv = 1;
label sensitiv = "Doctors are usually or always sensitive to values and customs";

info=.;
if K5Q43 in (6,7) then info = .;
else if K5Q43 = .L then info = 2;
else if K5Q43 = 1 or K5Q43 = 2 then info = 0;
else if K5Q43 = 3 or K5Q43 = 4 then info = 1;
label info = "Doctors usually or always provide needed information, past 12 months";

partner=.;
if K5Q44 in (6,7) then partner = .;
else if K5Q44 = .L then partner = 2;
else if K5Q44 = 1 or K5Q44 = 2 then partner = 0;
else if K5Q44 = 3 or K5Q44 = 4 then partner = 1;
label partner = "Doctors usually or always make the family feel like a partner, past 12 months";

interpret=.;
if K5Q46 in (6,7) then interpret = .;
else if K5Q46 = .L then interpret = 2;
else if K5Q46 = 1 or K5Q46 = 2 then interpret = 0;
else if K5Q46 = 3 or K5Q46 = 4 then interpret = 1;
label interpret = "An interpreter is usually or always available when needed, past 12 months";

ind4_9b_07 = .;
if time = . or listen = . or sensitiv = . or info = . or partner = . or interpret = . then ind4_9b_07 = .;
else if time = 2 then ind4_9b_07 = .;
else if time in (1,2) and listen in (1,2) and sensitiv in (1,2) and info in (1,2) and partner in (1,2) and interpret in
(1,2)then ind4_9b_07 = 1;
else if time = 0 or listen = 0 or sensitiv = 0 or info = 0 or partner = 0 or interpret = 0 then ind4_9b_07 = 0;
label ind4_9b_07 = "Indicator 4.9b: Children whose health care providers meet all criteria for family-centered care
(FCC), past 12 months, if had health care visits";

/*NOTE: For a list of SAS codes for missing data, see "Note for SAS users – Codes for missing values in public use
data files" in the Introduction, page5.*/
```

Indicator 4.9c: Getting needed referrals

How many children had problems getting referrals?

Description	Number of children who had big problems, small problems, or no problem getting needed referrals to see doctors or receive services during the past 12 months (sub-component #4 of Medical Home measure)
Survey Items	K5Q10; K5Q11
Denominator	Children age 0 through 17 years
Numerator	Did not need referrals; needed referrals and did not have a problem getting them; needed referrals and had problems getting them

Notes for Data Users

Indicator 4.9c, problems getting needed referrals, is a Medical Home component measure based on K5Q10 - needed or received referral to doctors or health services during the past 12 months. Those who needed referrals (K5Q10=Yes) are coded according to whether they had problems getting them (response of "Small problem" or "Big problem") or not - K5Q11. Children whose response on K5Q10 is "No" are coded as not needing referrals.

Indicator 4.9c includes a category for children who did not need referrals. Setting this category to missing results in a variable with the same numerator values, but includes in the denominator only children who needed referrals during the past 12 months.

"Getting needed referrals" is one of the five core components of the composite Medical Home measure. For children who needed referrals in the past 12 months, this component must be met in order for the child's health care to meet the Medical Home standard.

Revisions

This content is new in 2007.

SAS Code and Annotation

/*Indicator 4.9c: Getting needed referrals*/

value ref_need /*ind4_9c_07*/

0 = "No referrals needed"

1 = "No problems"

2 = "Small or big problems";

ind4_9c_07 = .;

if K5Q10 = 0 then ind4_9c_07 = 0;

else if K5Q10 in (6,7,.M) then ind4_9c_07 = .;

else if K5Q11 in (1,2) then ind4_9c_07 = 2;

else if K5Q11 = 3 then ind4_9c_07 = 1;

else if K5Q11 in (6,7,.M) then ind4_9c_07 = .;

label ind4_9c_07 = "Indicator 4.9c: Problems getting referrals needed to see doctors or receive services, past 12 months";

/*NOTE: For a list of SAS codes for missing data, see "Note for SAS users – Codes for missing values in public use data files" in the Introduction, page5.*/

Indicator 4.9d: Effective care coordination**How many children received effective care coordination?**

Description	Among children using multiple services, number who receive effective care coordination: parents very satisfied with health communication among health and other providers, and getting needed help with care coordination (sub-component #5 of Medical Home measure)
Survey Items	K4Q22; K4Q24; K5Q20; K5Q21; K5Q30; K5Q31; K5Q32
Denominator	Children age 0 through 17 years
Numerator	Did not need care coordination during the past 12 months; received effective care coordination; did not receive effective care coordination

Notes for Data Users

Indicator 4.9d is derived from items assessing: communication between doctors (K5Q30) when needed (K4Q22, K4Q24); communication between doctors and schools (K5Q32) when needed (K5Q31); and getting needed help coordinating care (K5Q20, K5Q21). For 1,063 children, one or more of the required component items was missing a valid response (weighted estimate: 1.5% of all children age 0-17).

Indicator 4.9d includes a category for children who did not need care coordination. Setting this category to missing results in a variable that includes only children who needed care coordination during the past 12 months.

"Effective Care Coordination" is one of the five core components of the composite Medical Home measure. For children who needed or received care coordination in the past 12 months, this component must be met in order for the child's health care to meet the Medical Home standard.

Revisions

This content is new in 2007.

SAS Code and Annotation

```
/*Indicator 4.9d: Effective care coordination*/
```

```
value care_coor /*ind4_9d_07*/
```

```
0 = "No, needed but did not receive"
```

```
1 = "Yes, received effective coordination"
```

```
2 = "No need or less than 2 service types";
```

```
/*EFFECTIVE CARE COORDINATION sub-component of MEDICAL HOME composite measure*/
```

```
K4Q22R = K4Q22;
```

```
if K4Q22 in (6,7) then K4Q22R = .;
```

```
label K4Q22R = "Received counseling or tx from mental hlth professional, last 12 mos";
```

```
if K4Q22 = 1 or K4Q24 = 1 then doccommneed = 1;
```

```
else if K4Q22 = 0 or K4Q24 = 0 then doccommneed = 0;
```

```
else doccommneed = .;
```

```
label doccommneed = "Doctor communication needed if specialist, MH, PT/OT/ST, sub abuse, or home hlth care used";
```

```
drcomm_sat = .;
```

```
if doccommneed = 0 then drcomm_sat = 2;
```

```
else if doccommneed = . then drcomm_sat = .;
```

```
else if K5Q30 = 1 then drcomm_sat = 1;
```

```
else if K5Q30 in (2,3,4) then drcomm_sat = 0;
```

```
else if K5Q30 = 5 then drcomm_sat = 2;
```

```
else if K5Q30 in (6,7,.M) then drcomm_sat = .;
```

```
else if K5Q30 = .L then drcomm_sat = 2;
```

```
label drcomm_sat = "Level of satisfaction with doctor to doctor communication";
```

```
K5Q31R = K5Q31;  
if K5Q31 in (6,7) then K5Q31R = .;  
label K5Q31R = "Needed doctor communication with school or other services"
```

```
othcomm = .;  
if K5Q31 = 0 then othcomm = 2;  
else if K5Q31 in (6,7) then othcomm = .;  
else if K5Q32 = 1 then othcomm = 1;  
else if K5Q32 in (2,3,4) then othcomm = 0;  
else if K5Q32 = 5 then othcomm = 2;  
else if K5Q32 in (6,7,.M) then othcomm = .;  
else if K5Q32 = .L then othcomm = 2;  
label othcomm = "Level of satisfaction with dr communication with school or other services";
```

```
K5Q20R = K5Q20;  
if K5Q20 in (6,7) then K5Q20R = .;  
label K5Q20R = "Does anyone help to arrange or coordinate child's health care";
```

```
K5Q21R = K5Q21;  
if K5Q21 in (6,7) then K5Q21R = .;  
label K5Q21R = "Did parent feel could use extra help to arrange/coordinate child's health care"
```

```
carehelp = .;  
if K5Q20 = .L then carehelp = 2;  
else if K5Q20 = .M then carehelp = .;  
else if K5Q20 = 0 and K5Q21 = 0 then carehelp = 2;  
else if K5Q20 in (6,7) and K5Q21 = 0 then carehelp = .;  
else if K5Q21 in (6,7) then carehelp = .;  
else if K5Q22 in (6,7) then carehelp = .;  
else if K5Q20 = 1 and K5Q21 = 0 then carehelp = 1;  
else if K5Q22 = 3 then carehelp = 1;  
else if K5Q22 in (1,2) then carehelp = 0;  
label carehelp = "Gets help with care coordination when needed";
```

```
ind4_9d_07 = .; /*Effective care coordination*/  
if carehelp = . or drcomm_sat = . or othcomm = . then ind4_9d_07 = .;  
else if carehelp = 2 and drcomm_sat = 2 and othcomm = 2 then ind4_9d_07 = 2;  
else if carehelp in (1,2) and drcomm_sat in (1,2) and othcomm in (1,2) then ind4_9d_07 = 1;  
else if carehelp = 0 or drcomm_sat = 0 or othcomm = 0 then ind4_9d_07 = 0;  
label ind4_9d_07 = "Indicator 4.9d: Received effective care coordination help when needed";
```

```
/*NOTE: For a list of SAS codes for missing data, see "Note for SAS users – Codes for missing values in public use data files" in the Introduction, page5.*/
```

Indicator 4.12: Access to specialist care

How many children had problems accessing specialist care when needed?

Description	Number of children who needed or used specialist services in the past 12 months, and how many did or did not have problems getting these services
Survey Items	K4Q24; K4Q25; K4Q26
Denominator	Children age 0 through 17 years
Numerator	Did not need or receive specialist care in the previous 12 months; needed/got specialist care and had no problems getting it; needed/got specialist care but had problems getting it

Notes for Data Users

For Indicator 4.12 parents of children who saw a specialist doctor (K4Q24) or who needed to see a specialist (K4Q25) during the past 12 months were asked how much of a problem it was to get specialist care (K4Q26). Although K4Q24 is not used in the syntax, it is included in "Survey Items Used" because it is a filter for K4Q25 and K4Q26.

These questions are introduced with the text "Specialists are doctors like surgeons, heart doctors, allergy doctors, skin doctors, and others who specialize in one area of health care." For children who have used mental health care services, a statement excluding mental health professionals was added.

Indicator 4.12 includes a category for children who did not need or receive specialist services. Setting this category to missing results in a measure that includes only children who needed or received specialist care during the past 12 months.

Revisions

In 2003 only children who had a personal doctor or nurse, or who needed specialist care, were asked questions about receiving specialist care. In 2007 everyone was asked the questions about specialist care. Therefore, in 2003, the denominator is only children who needed specialist care. In 2007 the denominator includes all children, even those who did not need or receive specialist care. Please take these changes into consideration when comparing across survey years.

SAS Code and Annotation

```
/*Indicator 4.12: Access to specialist care*/

value care_prob /*ind4_12_07*/
0 = "Not needed"
1 = "No problem"
2 = "Small or big problem";

ind4_12_07 = .; /*Problems getting specialist care*/
if K4Q25 = 0 then ind4_12_07 = 0;
if K4Q26 = 3 then ind4_12_07 = 1;
if K4Q26 = 2 then ind4_12_07 = 2;
if K4Q26 = 1 then ind4_12_07 = 2;
if K4Q25 in (6,7) then ind4_12_07 = .;
if K4Q26 in (6,7) then ind4_12_07 = .;
label ind4_12_07 = "Indicator 4.12: Needed or received specialist care and problems getting it, past 12 months";
```

Indicator 4.12a: Received specialist care

During the past 12 months, did [child name] see a specialist other than a mental health professional?

Description	Number of children who received care from one or more specialist doctors in the past 12 months
Survey Items	K4Q24
Denominator	Children age 0 through 17 years
Numerator	Did not receive care from a specialist during the past 12 months; Received care from a specialist during the past 12 months

Notes for Data Users

Indicator 4.12a is derived directly from K4Q24, whether the child received care from a specialist other than a mental health professional. Mental health services are addressed in item K4Q22 and Indicator 4.5.

Revisions

In 2007 all parents were asked if their child saw a specialist during the past 12 months. In 2003 parents were asked only if children needed to see a specialist, not whether they received services from a specialist.

SAS Code and Annotation

/*Indicator 4.12a: Received specialist care*/

value sp_care /*ind4_12a_07*/

0 = "No"

1 = "Yes";

ind4_12a_07 = K4Q24; /*Got specialist care*/

if K4Q24 in (6,7) then ind4_12a_07 = .; /*Don't know or Refused*/

label ind4_12a_07 = "Indicator 4.12a: Saw a specialist other than a mental health professional, past 12 months";

Indicator 4.14: Developmental surveillance

During the past 12 months/since [child name]'s birth, did [child name]'s doctors or other health care providers ask if you have concerns about [his/her] learning, development, or behavior?

Description	Number of children age 0-5 who saw a health care provider in past 12 months and parents were asked if they have concerns about child's learning, development, or behavior
Survey Items	K6Q10
Denominator	Children age 0 through 5 years who used health services in the previous 12 months
Numerator	Had doctor visit but parents were not asked about concerns; had doctor visit during which parents were asked about concerns

Notes for Data Users

Indicator 4.14 measures prevalence of developmental surveillance of young children. Item K6Q10 asks parents whether they were asked by a health professional about their concerns regarding their child's learning, development, or behavior. This question was asked only for children age 0-5 who received preventive medical visits (K4Q20R), preventive dental visits (K4Q21R), saw a mental health professional (K4Q22), saw a specialist for care (K4Q24), or needed to see a specialist (K4Q25) in the past 12 months. Excludes 779 children who received none of these types of services (weighted estimate: 2.9% of children age 0-5). Also, 325 eligible children are missing valid responses to item K9Q10 (weighted estimate: 1.2% of children age 0-5).

Revisions

In 2003 parents were also only asked the question about whether doctors inquired of their concerns if the child had actually visited a health professional in the previous 12 months. However, in 2003 this was determined with a single question S4Q01. In 2007 five questions (see above) were used to determine whether a child had visited a health professional in the previous 12 months. Please take these changes into consideration when comparing across survey years.

SAS Code and Annotation

```
/* Indicator 4.14: Developmental surveillance*/

value conc /*ind4_14_07*/
1 = "No"
2 = "Yes";

ind4_14_07 = K6Q10; /*Doctors ask parents about concerns*/
if K6Q10 = 0 then ind4_14_07 = 2;
if K6Q10 in (6,7,.L,.M) then ind4_14_07 = .; /*Missings*/
label ind4_14_07 = "Indicator 4.14: Screened for parent concerns by a health provider, past 12 months, age 0-5 and had health services";
```

Indicator 4.16: Developmental screening

During the past 12 months, did [child's name] receive all of the content to qualify on the standardized developmental and behavioral screener (SDBS)?

Description	Number of children age 10 months through 5 years who had key components of standardized developmental and behavioral screening in past 12 months
Survey Items	K6Q12; K6Q13A; K6Q13B; K6Q14A; K6Q14B
Denominator	Children age 10 months through 5 years
Numerator	Parent did not complete Standardized Developmental and Behavioral Screening tool; Parent completed Standardized Developmental and Behavioral Screening tool

Notes for Data Users

Indicator 4.16 uses age-appropriate questions to verify whether young children received standardized developmental and behavioral screening (SDBS) during a well child or other health care visit in the previous 12 months.

Parent respondents for all children between 10 months and 5 years old were asked whether they completed a questionnaire about their child's development, communication or social behaviors during the previous 12 months (K6Q12). If the response to K6Q12 was "Yes", parents were asked if the questionnaire covered language or social development (K6Q13 and K6Q13A, respectively, for ages 10-23 months, and K6Q14A and K6Q14B for ages 2-5 years).

This 3-item measure to assess whether screening occurs was developed by the Child and Adolescent Health Measurement Initiative (CAHMI), with funding from the Commonwealth Fund and in conjunction with the Maternal and Child Health Bureau. Further information may be viewed on the CAHMI website - www.cahmi.org – or by contacting CAHMI at cahmi@ohsu.edu.

Revisions

Questions K6Q12, K6Q13A, K6Q13B, K6Q14A, and K6Q14B were newly added in 2007; not included in 2003

SAS Code and Annotation

```

/*Indicator 4.16: Developmental screening*/

value dev_sc /*ind4_16_07*/
1 = "Yes"
2 = "No";

value ds_yn /*both_10to23 both_24to71*/
1 = "Yes"
2 = "No";

both_10to23= K6Q13A;
if K6Q12 = 0 and AGEYR_CHILD < 2 then both_10to23 = 2;
if K6Q13A in (0,6,7) or K6Q13B in (0,6,7) then both_10to23= 2;/*No - screening*/
if K6Q13A = 1 and K6Q13B = 1 then both_10to23 = 1;/*Yes - screening*/
if K6Q13A in (6,7) and K6Q13B in (6,7) then both_10to23= .;/*Missing*/
label both_10to23 = "Yes/No - screening occurred (ages 10-23months)";

both_24to71= K6Q14A;
if K6Q12 = 0 and AGEYR_CHILD ge 2 and AGEYR_CHILD lt 6 then both_24to71 = 2;
if K6Q14A in (0,6,7) or K6Q14B in (0,6,7) then both_24to71= 2;/*No - screening*/
if K6Q14A = 1 and K6Q14B = 1 then both_24to71= 1;/*Yes - screening*/
if K6Q14A in (6,7) and K6Q14B in (6,7) then both_24to71= .;/*Missing*/
label both_24to71 = "Yes/No - screening occurred (ages 24-71months)";

ind4_16_07 = .;/*Developmental Screening*/

```


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```
if both_10to23 = 1 then ind4_16_07 = 1;  
if both_24to71 = 1 then ind4_16_07 = 1;  
if both_10to23= 2 then ind4_16_07 = 2;  
if both_24to71= 2 then ind4_16_07 = 2;  
if both_10to23= . or both_24to71= . then ind4_16_07 = .;  
label ind4_16_07 = "Indicator 4.16: Received complete standardized developmental and behavioral screening during  
a health care visit, age 10 months-5 years";
```

Indicator 5.1a: IFSP or EIP for developmental problems

Does [child name] have any developmental problems for which [he/she] has a written intervention plan called an Individualized Family Services Plan/IFSP or an Individualized Education Program/IEP?

Description	Number of children age 1 through 5 with developmental problems for which an Individualized Family Services Plan (IFSP) or Early Intervention Plan (EIP) has been prepared
Survey Items	K6Q15; AGEYR_CHILD
Denominator	Children age 1 through 5 years
Numerator	No written plan and/or no no qualifying developmental problems; have an IFSP or IEP for no qualifying developmental problems

Notes for Data Users

Some young children have developmental delays or other problems for which they receive services from Early Intervention Services, Special Education, or similar program. Children receiving these services have a written intervention plan called an IFSP (Individualized Family Services Plan) if the child is 3 or younger, or an IEP (Individualized Education Program) if older than about 3 years. Services on an IFSP or an IEP might include special instruction; speech language therapy; vision and hearing services; psychological services; health services; social work services; family counseling and support; transportation; service coordination or other services needed to support the child's development.

Section 6 questions were asked only for children less than 6 years old.

Revisions

Question K6Q15 was added in 2007; not asked in 2003

SAS Code and Annotation

```
/*Indicator 5.1a: IFSP or EIP for developmental problems*/

value ei_se /*ind5_1a_07*/
1 = "No"
2 = "Yes";

ind5_1a_07 = K6Q15; /*Prevalence IFSP or IEP services - 1-5 yrs*/
if K6Q15 = 1 then ind5_1a_07 = 2; /*Have intervention plan*/
if K6Q15 = 0 then ind5_1a_07 = 1; /*Do not have intervention plan*/
if K6Q15 in (6,7) then ind5_1a_07 = .; /*Don't know or Refused*/
if AGEYR_CHILD < 1 then ind5_1a_07 = .;
label ind5_1a_07 = "Indicator 5.1a: Individualized Family Services Plan (IFSP) or Individualized Education Program (IEP) for developmental problems, age 1-5";
```

Indicator 5.1b: IEP for health condition or disability

Does [child name] have a health problem, condition, or disability for which [he/she] has a written intervention plan called an Individualized Education Program or IEP?

Description	Number of children ages 6 through 17 who have health, behavioral or learning problems for which an Individualized Education Plan has been prepared
Survey Items	K7Q11; AGEYR_CHILD
Denominator	Children age 6 through 17 years
Numerator	No written plan and/or no qualifying health condition or disability; have an IEP for qualifying health condition or disability

Notes for Data Users

Some children have difficulty in school because of a health problem, condition, or disability. These children may receive services from a Special Education program and have a written intervention plan called an Individualized Education Program or IEP. Services on an IEP might include special instruction; speech language therapy; vision and hearing services; psychological services; health services; social work services; family counseling and support; transportation; or other services needed to support the child's educational performance.

Section 7 questions were asked only for children between 6 and 17 years of age.

Revisions

Question K7Q11 was added in 2007; not asked in 2003

SAS Code and Annotation

/*Indicator 5.1b: IEP for health condition or disability*/

value eip /*ind5_1b_07*/

1 = "No"

2 = "Yes";

ind5_1b_07 = K7Q11; /*Prevalence EI or SE services - ages 6-17 yrs*/

if K7Q11 = 1 then ind5_1b_07 = 2; /*have intervention plan*/

if K7Q11 = 0 then ind5_1b_07 = 1; /*do not have intervention plan*/

if K7Q11 in (6,7) then ind5_1b_07 = .; /*Don't know or Refused*/

if AGEYR_CHILD < 6 then ind5_1b_07 = .;

label ind5_1b_07 = "Indicator 5.1b: Individualized Education Program (IEP) for health, behavioral, or learning problems, age 6-17";

Community and School Activities

Indicator 5.2: Repeated grades in school	
Since starting kindergarten, has [child name] repeated any grades?	
Description	Number of school age children who have repeated any grades since starting kindergarten
Survey Items	K7Q05; AGEYR_CHILD
Denominator	Children age 6 through 17 years
Numerator	Since starting kindergarten: no grades repeated; repeated one or more grades
Notes for Data Users	
For Indicator 5.2, the denominator is all children age 6-17, including those who were not currently enrolled in school or were home-schooled.	
Section 7 questions were asked only for children between 6 and 17 years of age.	
Revisions	
No changes; same as 2003	
SAS Code and Annotation	
<pre> /*Indicator 5.2: Repeated grades in school*/ value grade /*ind5_2_07*/ 1 = "Yes" 2 = "No"; ind5_2_07 = K7Q05; /*Repeating Grades*/ if K7Q05 eq 1 then ind5_2_07 = 1; if K7Q05 eq 0 then ind5_2_07 = 2; if K7Q05 in (6,7) then ind5_2_07 = .; /*Don't Know and Refused*/ label ind5_2_07 = "Indicator 5.2: Repeated any grades in school since starting kindergarten, age 6-17"; </pre>	

Indicator 5.2a: School engagement**During the past month, how many children were engaged in school?**

Description	During the past month, how many children age 6-17 were engaged in school: usually or always cared about doing well and usually or always did all required homework
Survey Items	K7Q82; K7Q83; AGEYR_CHILD
Denominator	Children age 6 through 17 years
Numerator	Usually or always engaged; not engaged on one or both dimensions

Notes for Data Users

Indicator 5.2a defines school engagement as: usually or always cares about doing well in school (K7Q82) AND usually or always does all required homework (K7Q83) during the previous month. The one-month time frame was used for all school age respondents, regardless of whether the interview occurred during a school vacation or while the child was not attending school.

Section 7 questions were asked only for children between 6 and 17 years of age.

Revisions

Questions K7Q82 and K7Q83 were added in 2007; not asked in 2003

SAS Code and Annotation

```
/*Indicator 5.2a: School engagement*/
```

```
value sch_eng /*care_school homework*/
```

```
1 = "Never"
```

```
2 = "Rarely"
```

```
3 = "Sometimes"
```

```
4 = "Usually"
```

```
5 = "Always";
```

```
value engage /*ind5_2ar_07*/
```

```
1 = "Never, rarely, sometimes on one or both"
```

```
2 = "Usually on one or both"
```

```
3 = "Always on both";
```

```
care_school = K7Q82;
```

```
if care_school in (6,7,.M,.N,.L) then care_school = .;
```

```
label care_school = "Cares about doing well in school";
```

```
homework = K7Q83;
```

```
if homework in (6,7,.M,.N,.L) then homework = .;
```

```
label homework = "Does all required homework";
```

```
ind5_2ar_07 = 2; /*Usually engaged in school*/
```

```
if K7Q82 = 5 and K7Q83 = 5 then ind5_2ar_07 = 3; /*Always engaged in school*/
```

```
if K7Q82 in (1,2,3) or K7Q83 in (1,2,3) then ind5_2ar_07 = 1; /*Never, rarely, sometimes*/
```

```
if K7Q82 in (6,7) and K7Q83 in (6,7) then ind5_2ar_07 = .; /*Don't know or Refused*/
```

```
if AGEYR_CHILD le 5 then ind5_2ar_07 = . /*Legitimate skip*/;
```

```
label ind5_2ar_07 = "Indicator 5.2a: Engaged in school - cares about doing well and does homework, past month, age 6-17";
```

```
/*NOTE: For a list of SAS codes for missing data, see "Note for SAS users – Codes for missing values in public use data files" in the Introduction, page5.*/*
```

Community and School Activities

Indicator 5.3: Activities outside school

How many children participate in one or more organized activities outside of school, such as sports teams or lessons, clubs, or organizations?

Description	Number of children age 6 through 17 who participate in sports teams or lessons, clubs, organizations, or other activities outside of school
Survey Items	K7Q30; K7Q31; K7Q32; AGEYR_CHILD
Denominator	Children age 6 through 17 years
Numerator	Children participating in 1 or more organized activities outside of school; Children who do NOT participate in organized activities outside of school

Notes for Data Users

For Indicator 5.3, activities outside of school are defined as: sports teams or lessons (K7Q30), clubs or organizations (K7Q31) or any other organized event or activity (K7Q32) that takes place after school or on weekends.

Section 7 questions were asked only for children between 6 and 17 years of age.

Revisions

In 2003, question S7Q11 read: "During the past 12 months, did [he/she] participate in any clubs or organizations after school or on weekends, such as Scouts, a religious group, or [Boy/Girl]'s club?" In 2007, the wording of question K7Q31 was revised to ask "During the past 12 months, did [he/she] participate in any clubs or organizations after school or on weekends?" Examples of clubs (Scouts, arts, religious groups, and Boys/Girls clubs) were moved to a help screen and asked only if participants needed assistance. Similarly, help screens were added to K7Q30 for examples of sports teams ("Include any teams run by your child's school or community groups") and to K7Q32 for examples of other organized events ("This question can include organized lessons in music, dance, foreign languages, performing arts, computers, etc").

Take these changes into consideration when comparing results across survey years.

SAS Code and Annotation

```
/* Indicator 5.3: Activities outside school*/

value out_sch /*ind5_3_07*/
1 = "Yes"
2 = "No";

ind5_3_07 = .; /*Activities Outside of School*/
if K7Q30 = 1 or K7Q31 = 1 or K7Q32 = 1 then ind5_3_07 = 1; /*Participated in 1 or more organized activities*/
if K7Q30 in (6,7) and K7Q31 in (6,7) and K7Q32 in (6,7) then ind5_3_07 = .; /*Don't know or Refused*/
if K7Q30 = 0 and K7Q31 = 0 and K7Q32 = 0 then ind5_3_07 = 2; /*Did not participate in organized activities*/
label ind5_3_07 = "Indicator 5.3: Participation in organized activities outside of school, age 6-17";
```

Community and School Activities

Indicator 5.4: Volunteer activities

During the past 12 months, how often has [child name] been involved in any type of community service or volunteer work at school, church, or in the community?

Description	Involvement of youth age 12-17 in community service or volunteer activities during the past 12 months
Survey Items	K7Q37; AGEYR_CHILD
Denominator	Youth age 12 through 17 years
Numerator	Never; A few times a year; A few times a month; Once a week or more

Notes for Data Users

Indicator 5.4 groups responses for item K7Q37, which asks about participation of youth in community activities and volunteer work.

Section 7 questions were asked only for children between 6 and 17 years of age.

Revisions

In 2007 significant changes were made to the wording and response options for question K7Q37: "During the past 12 months, how often has [child name] been involved in any type of community service or volunteer work at school, church, or in the community? Would you say once a week or more, a few times a month, a few times a year, or never?". In 2003, the response options were "no/yes" to whether or not the child has "been involved in any type of community service or volunteer work at school, church, or in the community" in the past 12 months. This change from a yes/no question in 2003 to a frequency of participation in 2007 changed the distribution of responses. Take these changes into consideration when comparing results across survey years.

SAS Code and Annotation

```

/* Indicator 5.4: Volunteer activities*/

value volunt /*ind5_4_07*/
1 = "Never "
2 = "A few times a year"
3 = "A few times a month"
4 = "Once a week or more";

ind5_4_07 = .; /*Community service or volunteer activities*/
if K7Q37 = 4 then ind5_4_07 = 1; /*Never*/
if K7Q37 = 3 then ind5_4_07 = 2; /*A few times a year*/
if K7Q37 = 2 then ind5_4_07 = 3; /*A few times a month*/
if K7Q37 = 1 then ind5_4_07 = 4; /*Once a week or more*/
if K7Q37 in (6,7) then ind5_4_07 = .; /*Don't know or Refused*/
label ind5_4_07 = "Indicator 5.4: Participation in volunteer work or community service, past 12 months, age 12-17";

```

Indicator 5.5: Work for pay**During the past week, how many hours did [child name] work for pay?**

Description	Hours spent working for pay during the past week, youth age 12-17
Survey Items	K7Q38; K7Q39; AGEYR_CHILD
Denominator	Youth age 12 through 17 years
Numerator	Did not work for pay; worked less than 1 hour up to 9 hours; worked 10 hours or more

Notes for Data Users

Indicator 5.5 is based on responses to K7Q38 and K7Q39. The CATI defines "Working for pay" as earning money from any work done outside of home, including regular jobs as well as babysitting, cutting grass, and other occasional work. K7Q39 asks how many hours the youth worked in the previous week.

Section 7 questions were asked only for children between 6 and 17 years of age.

Revisions

Changes were made to the question in the 2007 survey. In 2003, indicator 5.5 was asked as one question (S7Q19), and in 2007 it was split up into two questions: 1.) Did child work (K7Q38) and 2.) If so, for how many hours (K7Q39). Take these changes into consideration when comparing results across survey years.

SAS Code and Annotation

```
/*Indicator 5.5: Work for pay*/
```

```
value workpay /*ind5_5_07*/
```

```
1 = "No work for pay"
```

```
2 = "Up to 9 hours"
```

```
3 = "10 hours or more";
```

```
ind5_5_07 = .; /*Work for pay*/
```

```
if 10 <= K7Q39 <= 168 then ind5_5_07 = 3; /*10 hours or more*/
```

```
if 1 <= K7Q39 <= 9 or K7Q39 eq 995 then ind5_5_07 = 2; /*less than 1 hour-9 hours*/
```

```
if K7Q38 = 0 or K7Q39 = 0 then ind5_5_07 = 1; /*Does not work for pay*/
```

```
if K7Q38 in (6,7) or K7Q39 in (996,997) then ind5_5_07 = .; /*Don't know or Refused */
```

```
label ind5_5_07 = "Indicator 5.5: Hours spent working for pay, past week, age 12-17";
```


Indicator 5.6: Reading for pleasure**On an average weekday, about how much time does [child name] usually spend reading for pleasure?**

Description	Amount of time children age 6-17 spend reading for pleasure on an average weekday
Survey Items	K7Q50; K7Q50A; AGEYR_CHILD
Denominator	Children age 6 through 17 years
Numerator	None; 30 minutes or less; 31 minutes to 1 hour; more than 1 hour

Notes for Data Users

Indicator 5.6 is derived from two items. Reading for pleasure (K7Q50) is defined as time when child reads to him/herself or is read to by another person. It does not include listening to books read by or with the assistance of an audiobook, record, CD, or computer. Excludes 285 children age 6-17 who are unable to read (weighted estimate: 0.6% of all children age 6-17) and also 784 eligible children who did not have valid responses to both component questions (weighted estimate: 1.3% of children age 6-17).

The amount of time spent reading is given as a number (K7Q50A) and a period (hours or minutes) to allow parents to specify either in their response. Answers to both questions are used to derive the time in hours spent reading.

Section 7 questions were asked only for children between 6 and 17 years of age.

Revisions

The 2007 NSCH contains two changes worth noting.

In 2003, question S7Q26 read: "On an average school day, about how much time does [he/she] usually spend reading for pleasure?" In 2007, the wording of question K7Q50 was revised to ask "On an average weekday, about how much time does [he/she] usually spend reading for pleasure?" Note in particular that "school day" and "week day" may not be equivalent to some families.

Also, children age 6-17 years who were not enrolled in school or who were home schooled were not asked this question in 2003 but were included in the 2007 interview. These groups comprise 2.6% of children age 6-17 in the 2007 sample.

Take these changes into consideration when comparing results across survey years.

SAS Code and Annotation

```
/*Indicator 5.6: Reading for pleasure*/
```

```
value read_p /*ind5_6_07*/
```

```
1 = "None"
```

```
2 = "30 minutes or less"
```

```
3 = "31-60 minutes"
```

```
4 = "More than 1 hour";
```

```
ind5_6_07= .; /*Reading for pleasure*/
```

```
time_read = K7Q50;
```

```
if K7Q50A = 1 then time_read = K7Q50*60; /*converted to minutes*/
```

```
if K7Q50 in (996,997,.M,.N) then time_read = ./*Missing*/;
```

```
label time_read = "Hours spent on average weekday reading for pleasure - ages 6-17";
```

```
if time_read = 0 then ind5_6_07= 1; /*Does not Read for pleasure*/
```

```
if time_read GE .5 and time_read LE 30 then ind5_6_07= 2; /*Avg 30min/less per week*/
```

```
if time_read GE 31 and time_read LE 60 then ind5_6_07= 3; /*Avg 31 - 60min per week*/
```

Community and School Activities

```
if time_read GT 60 then ind5_6_07= 4; /*Avg over 60min per week*/  
if time_read = 995 then ind5_6_07= .; /*Child can't read*/  
if time_read = . Then ind5_6_07= .; /*Missing*/  
label ind5_6_07= "Indicator 5.6: Time spent reading for pleasure, average weekday, age 6-17";
```

```
/*NOTE: For a list of SAS codes for missing data, see "Note for SAS users – Codes for missing values in public use  
data files" in the Introduction, page5.*/
```

Community and School Activities

Indicator 5.7: Religious services attendance

About how often does [child name] attend a religious service?

Description	How often do children attend religious services
Survey Items	K8Q12R
Denominator	Children age 0 through 17 years
Numerator	Never attend religious services; attend at least once a year; attend at least once a month; attend once a week or more often

Notes for Data Users

A small number of children who attend religious services "more than daily" were included the category of "attend once per week or more often".

Revisions

No changes; same as 2003.

SAS Code and Annotation

```

/*Indicator 5.7: Religious services attendance*/

value religion /*ind5_7_07*/
1 = "Never"
2 = "More than once a year but less than once a month"
3 = "At least once a month but less than once a week"
4 = "Once a week or more";

ind5_7_07 = .; /*Religious Service Attendance*/
if K8Q12r = 0 then ind5_7_07 = 1; /*None*/
if K8Q12r = 1 then ind5_7_07 = 2; /*At least once per year, but less than once per month*/
if K8Q12r = 2 then ind5_7_07 = 3; /*At least once per month, but less than once per week*/
if K8Q12r in (3,4) then ind5_7_07 = 4; /*Once per week or more*/
if K8Q12r in (6,7) then ind5_7_07 = .; /*Don't know or Refused*/
label ind5_7_07 = "Indicator 5.7: How often do children attend religious services";
    
```

Indicator 6.1: Mother's physical health status

Of children living with mothers in the household (HH), in general, what is the mother's physical health status?

Description	Among children who live with their biological, step, adopted, or foster mother, number whose mother's physical health is excellent, very good, good, fair, or poor
Survey Items	K9Q20
Denominator	Children age 0 through 17 years, in household with mother present
Numerator	Children whose mother's physical health status is: excellent or very good; good; fair or poor

Notes for Data Users

Indicator 6.1 summarizes the general health status of children's mothers (K9Q20).

If the survey respondent was the selected child's mother (biological, step, foster, adoptive), she rated her own physical health. Respondents who were not the child's mother (e.g. father or other relative) gave a rating of the mother's physical health if the mother was living in the household. All responses were combined regardless of whether the person answering was the mother herself or another respondent.

Excludes 5,285 children who were not living with a mother at the time of the survey (weighted estimate: 5.4% of all children age 0-17).

Reminder: All results are expressed only in terms of the number of children (e.g., "Percent of children whose mothers are in excellent health..."), not parents, families, or households (e.g., "Percent of mothers who are in excellent health...").

Revisions

No changes; same as 2003

SAS Code and Annotation

/*Indicator 6.1: Mother's physical health status*/

value health_m /*ind6_1_07*/

1 = "Excellent/very good "

2 = "Good "

3 = "Fair/poor";

ind6_1_07 = K9Q20; /*Mother's Physical Health Status*/

if K9Q20 in (1,2) then ind6_1_07 = 1;

if K9Q20 = 3 then ind6_1_07 = 2;

if K9Q20 in (4, 5) then ind6_1_07 = 3;

if K9Q20 in (.M,.L,.P,6,7) then ind6_1_07 = .; /*Missing*/

label ind6_1_07 = "Indicator 6.1: Physical health status of mother, children living with biological, step, adopted or foster mother";

/*NOTE: For a list of SAS codes for missing data, see "Note for SAS users – Codes for missing values in public use data files" in the Introduction, page5.*/

Indicator 6.1a: Mother's physical activity

During the past week, on how many days did [you/child's mother] exercise, play sports, or participate in physical activity for at least 20 minutes that made [you/her] sweat and breathe hard?

Description	Among children who live with their biological, step, adopted, or foster mother, on how many days during the past week did their mother exercise, play sports, or participate in other vigorous physical activity for 20 minutes or more
Survey Items	K9Q30
Denominator	Children age 0 through 17 years, in household with mother present
Numerator	No days; 1-2 days; 3-5 days; 6 or more days in the past week

Notes for Data Users

When the respondent to K9Q30 was the target child's mother (biological, step, foster, adoptive), she rated her own physical activity. Respondents who were not the target child's mother (e.g. father or other relative) gave a rating of the mother's physical activity. All responses were combined regardless of whether the person answering was the mother herself or another respondent.

Excludes 5,285 children who were not living with a mother at the time of the survey (weighted estimate: 5.4% of all children age 0-17).

Please note: results are expressed in terms of children (e.g., "Percent of children whose mothers are in excellent health..."), not parents, families, or households (e.g., "Percent of mothers who are in excellent health...").

Revisions

In 2003 question was worded to ask if during the past month child's mother exercised regularly, yes or no.

SAS Code and Annotation

```
/*Indicator 6.1a: Mother's physical activity*/

value physical_m /*ind6_1a_07*/
0 = "None"
1 = "1-2 days"
2 = "3-5 days"
3 = "6-7 days";

ind6_1a_07 = K9Q30; /*Maternal Physical Activity*/
if K9Q30 = 0 then ind6_1a_07 = 0;
if K9Q30 in (1, 2) then ind6_1a_07 = 1;
if K9Q30 in (3, 4, 5) then ind6_1a_07 = 2;
if K9Q30 in (6, 7) then ind6_1a_07 = 3;
if K9Q30 in (.M,.L,.P,96,97) then ind6_1a_07 = .; /*Don't know or Refused*/
label ind6_1a_07 = "Indicator 6.1a: Among children living with mother, days in past week when mother engaged in vigorous physical activity for at least 20 minutes";
```

Indicator 6.1b: Father's physical health status

Of children living with fathers in the household (HH), in general, what is the father's physical health status?

Description	Among children who live with their biological, step, adopted, or foster father, number whose father's physical health is excellent, very good, good, fair, or poor
Survey Items	K9Q21
Denominator	Children age 0 through 17 years, in household with father present
Numerator	Children whose father's physical health status is: excellent or very good; good; fair or poor

Notes for Data Users

When the respondent to K9Q21 was the target child's father (biological, step, foster, adoptive), he rated his own physical health. Respondents who were not the target child's father (e.g. mother or other relative) gave a rating of the father's physical health. All responses were combined regardless of whether the person answering was the father himself or another respondent.

Excludes 17,728 children who were not living with a father at the time of the survey (weighted estimate: 21.8% of all children age 0-17).

Please note: results are expressed in terms of children (e.g., "Percent of children whose mothers are in excellent health..."), not parents, families, or households (e.g., "Percent of mothers who are in excellent health...").

Revisions

No changes; same as 2003

SAS Code and Annotation

/*Indicator 6.1b: Father's physical health status*/

value health_f /*ind6_1b_07*/

1 = "Excellent/very good "

2 = "Good "

3 = "Fair/poor";

ind6_1b_07 = K9Q21; /*Father's Physical Health Status*/

if K9Q21 in (1, 2) then ind6_1b_07 = 1;

if K9Q21 = 3 then ind6_1b_07 = 2;

if K9Q21 in (4, 5) then ind6_1b_07 = 3;

if K9Q21 in (.M, .L, .P, 6, 7) then ind6_1b_07 = .; /*Missing*/

label ind6_1b_07 = "Indicator 6.1b: Physical health status of father, children living with biological, step, adopted or foster father";

/*NOTE: For a list of SAS codes for missing data, see "Note for SAS users – Codes for missing values in public use data files" in the Introduction, page5.*/

Indicator 6.1c: Father's physical activity

During the past week, on how many days did [you/child's father] exercise, play sports, or participate in physical activity for at least 20 minutes that made [you/him] sweat and breathe hard?

Description	Among children who live with their biological, step, adopted, or foster father, on how many days during the past week did their father exercise, play sports, or participate in other vigorous physical activity for 20 minutes or more
Survey Items	K9Q31
Denominator	Children age 0 through 17 years, in household with father present
Numerator	No days; 1-2 days; 3-5 days; 6 or more days during the past week

Notes for Data Users

When the respondent to K9Q31 was the target child's father (biological, step, foster, adoptive), he rated his own of physical activity. Respondents who were not the target child's father (e.g. mother or other relative) gave a rating of the father's physical activity. All responses were combined regardless of whether the person answering was the father himself or another respondent.

Excludes 17,716 children who were not living with a father at the time of the survey (weighted estimate: 21.8% of all children age 0-17).

Please note: results are expressed in terms of children (e.g., "Percent of children whose mothers are in excellent health..."), not parents, families, or households (e.g., "Percent of mothers who are in excellent health...").

Revisions

In 2003 question was worded to ask if during the past month child's father exercised regularly, yes or no.

SAS Code and Annotation

```
/*Indicator 6.1c: Father's physical activity*/
```

```
value physical_f /*ind6_1c_07*/
```

```
0 = "None"
```

```
1 = "1-2 days"
```

```
2 = "3-5 days"
```

```
3 = "6-7 days";
```

```
ind6_1c_07 = K9Q31; /*Father's Physical Activity*/
```

```
if K9Q31 = 0 then ind6_1c_07 = 0;
```

```
if K9Q31 in (1, 2) then ind6_1c_07 = 1;
```

```
if K9Q31 in (3, 4, 5) then ind6_1c_07 = 2;
```

```
if K9Q31 in (6, 7) then ind6_1c_07 = 3;
```

```
if K9Q31 in (96, 97) then ind6_1c_07 = .; /*Don't know or Refused*/
```

```
label ind6_1c_07 = "Indicator 6.1c: Among children living with father, days in past week when father engaged in vigorous physical activity for at least 20 minutes";
```

Indicator 6.2: Mother's mental-emotional health status

Of children living with mothers in the household (HH), in general, what is the status of mother's mental and emotional health?

Description	Among children who live with their biological, step, adopted, or foster mother, number whose mother's mental and emotional health is excellent, very good, good, fair, or poor
Survey Items	K9Q23
Denominator	Children age 0 through 17 years, in household with mother present
Numerator	Children whose mother's mental/emotional health status is: excellent or very good; good; fair or poor

Notes for Data Users

When the respondent to K9Q23 was the target child's mother (biological, step, foster, adoptive), she rated her own mental and emotional health. Respondents who were not the target child's mother (e.g. father or other relative) gave a rating of the mother's mental and emotional health. All responses were combined regardless of whether the person answering was the mother herself or another respondent.

Excludes 5,285 children who were not living with a mother at the time of the survey (weighted percentage = 5.4% of all children age 0-17).

Please note: results are expressed in terms of children (e.g., "Percent of children whose mothers are in excellent health..."), not parents, families, or households (e.g., "Percent of mothers who are in excellent health...").

Revisions

No changes; same as 2003

SAS Code and Annotation

```

/*Indicator 6.2: Mother's mental-emotional health status*/

value health_mm /*ind6_2_07*/
1 = "Excellent/very good "
2 = "Good "
3 = "Fair/poor";

ind6_2_07 = .; /*Maternal Mental Health Status*/
if K9Q23 in (1,2) then ind6_2_07 = 1;
if K9Q23 = (3) then ind6_2_07 = 2;
if K9Q23 in (4,5) then ind6_2_07 = 3;
if K9Q23 in (6,7) then ind6_2_07 = .; /*Don't know or Refused*/
label ind6_2_07 = "Indicator 6.2: Mental and emotional health status of mother, children living with mother";

```


Indicator 6.2a: Father's mental-emotional health status

Of children living with fathers in the household (HH), in general, what is the status of father's mental and emotional health?

Description	Among children who live with their biological, step, adopted, or foster father, number whose father's mental and emotional health is excellent, very good, good, fair, or poor
Survey Items	K9Q24
Denominator	Children age 0 through 17 years, in household with father present
Numerator	Children whose father's mental/emotional health status is: excellent or very good; good; fair or poor

Notes for Data Users

When the respondent to K9Q24 was the target child's father (biological, step, foster, adoptive), he rated his own mental and emotional health. Respondents who were not the target child's father (e.g. mother or other relative) gave a rating of the father's mental and emotional health. All responses were combined regardless of whether the person answering was the father himself or another respondent.

Excludes 17,720 children who were not living with a father at the time of the survey (weighted estimate: 21.8% of all children age 0-17).

Please note: results are expressed in terms of children (e.g., "Percent of children whose mothers are in excellent health..."), not parents, families, or households (e.g., "Percent of mothers who are in excellent health...").

Revisions

No changes; same as 2003

SAS Code and Annotation

```
/*Indicator 6.2a: Father's mental-emotional health status*/

value health_mf /*ind6_2a_07*/
1 = "Excellent/very good "
2 = "Good "
3 = "Fair/poor";

ind6_2a_07= .; /*Father's Mental Health Status*/
if K9Q24 in (1,2) then ind6_2a_07 = 1;
if K9Q24 = 3 then ind6_2a_07 = 2;
if K9Q24 in (4,5) then ind6_2a_07 = 3;
if K9Q24 in (6,7) then ind6_2a_07= .; /*Don't know or Refused*/
label ind6_2a_07= "Indicator 6.2a: Mental and emotional health status of father, children living with father";
```

Indicator 6.3: Mother's overall health status

Of children living with mothers in the household (HH), how many children have mothers whose physical and mental health are BOTH excellent or very good?

Description	Among children who live with their biological, step, adopted, or foster mother, number whose mother's physical health and mental/emotional health are both excellent or very good
Survey Items	K9Q20; K9Q23
Denominator	Children age 0 through 17 years, in household with mother present
Numerator	Children with mothers whose overall physical and mental health status is: BOTH excellent or very good; one or both NOT excellent or very good

Notes for Data Users

Indicator 6.3 is a composite of Indicators 6.1 and 6.2 - Mother's physical and mental/emotional health status. To qualify, responses for the child's mother on both indicators must be either "Excellent" or "Very Good".

Excludes 5,285 children who were not living with a mother at the time of the survey (weighted percentage = 5.4% of all children age 0-17).

Please note: results are expressed in terms of children (e.g., "Percent of children whose mothers are in excellent health..."), not parents, families, or households (e.g., "Percent of mothers who are in excellent health...").

Revisions

No changes; same as 2003

SAS Code and Annotation

```

/*Indicator 6.3: Mother's overall health status*/

value overall_m /*ind6_3_07*/
1 = "One or both NOT excellent/very good"
2 = "BOTH are excellent/very good";

ind6_3_07 = .; /*Overall Maternal Health Status*/
if K9Q20 in (1,2) and K9Q23 in (1,2) then ind6_3_07 = 2; /*Phys & ment both excellent/very good*/
if K9Q20 in (1,2) and K9Q23 in (3,4,5) then ind6_3_07 = 1; /*Phys is E,VG & Ment is G,F,P*/
if K9Q20 in (3,4,5) and K9Q23 in (1,2) then ind6_3_07 = 1; /*Phys is G,F,P & Ment is E,VG*/
if K9Q20 in (3,4,5) and K9Q23 in (3,4,5) then ind6_3_07 = 1; /*Phys & ment both not excellent/very good*/
if K9Q20 in (.M,.L,.P,6,7) or K9Q23 in (.M,.L,.P,6,7) then ind6_3_07 = .; /*Missing*/
label ind6_3_07 = "Indicator 6.3: Mother's overall physical AND mental-emotional health status, children living with biological, step, adopted or foster mother";

/*NOTE: For a list of SAS codes for missing data, see "Note for SAS users – Codes for missing values in public use data files" in the Introduction, page5.*/

```

Family Health and Activities

Indicator 6.3a: Father's overall health status

Of children living with fathers in the household (HH), how many children have fathers whose physical and mental health are BOTH excellent or very good?

Description	Among children who live with their biological, step, adopted, or foster father, number whose father's physical health and mental/emotional health are both excellent or very good
Survey Items	K9Q21; K9Q24
Denominator	Children age 0 through 17 years, in household with father present
Numerator	Of children who live with a father, those whose fathers overall physical and mental health status is: BOTH excellent or very good; one or both NOT excellent or very good

Notes for Data Users

Indicator 6.3a is a composite of Indicators 6.1b and 6.2a - Father's physical and mental/emotional health status. To qualify, responses for the child's father on both indicators must be either "Excellent" or "Very Good".

Excludes 17,720 children who were not living with a father at the time of the survey (weighted estimate: 21.8% of all children age 0-17).

Please note: results are expressed in terms of children (e.g., "Percent of children whose mothers are in excellent health..."), not parents, families, or households (e.g., "Percent of mothers who are in excellent health...").

Revisions

No changes; same as 2003

SAS Code and Annotation

```
/*Indicator 6.3a: Father's overall health status*/
```

```
value overall_f /*ind6_3a_07*/
```

```
1 = "One or both NOT excellent/very good"
```

```
2 = "BOTH are excellent/very good";
```

```
ind6_3a_07 = .; /*Paternal Physical and Mental Health*/
```

```
if K9Q21 in (1,2) and K9Q24 in (1,2) then ind6_3a_07 = 2;
```

```
if K9Q21 in (1,2) and K9Q24 in (3,4,5) then ind6_3a_07 = 1; /*Phys is E,VG & Ment is G,F,P*/
```

```
if K9Q21 in (3,4,5) and K9Q24 in (1,2) then ind6_3a_07 = 1; /*Phys is G,F,P & Ment is E,VG*/
```

```
if K9Q21 in (3,4,5) and K9Q24 in (3,4,5) then ind6_3a_07 = 1;
```

```
if K9Q21 in (.M,.L,.P,6,7) or K9Q24 in (.M,.L,.P,6,7) then ind6_3a_07 = .; /*Missing*/
```

```
label ind6_3a_07 = "Indicator 6.3a: Father's overall physical AND mental-emotional health status, children living with biological, step, adopted or foster father";
```

```
/*NOTE: For a list of SAS codes for missing data, see "Note for SAS users – Codes for missing values in public use data files" in the Introduction, page5.*/
```

Family Health and Activities

Indicator 6.4: Tobacco smoker in household

Does anyone in the household use cigarettes, cigars, or pipe tobacco?

Description	Number of children living in a household in which someone uses cigarettes, cigars, or pipe tobacco
Survey Items	K9Q40
Denominator	Children age 0 through 17 years
Numerator	No smokers live in child's household; child's household includes someone who smokes tobacco

Notes for Data Users

Uses K9Q40 in NSCH public use data file for the 2007 NSCH.

Please note: results are expressed in terms of children (e.g., "Percent of children whose mothers are in excellent health..."), not parents, families, or households (e.g., "Percent of mothers who are in excellent health...").

Revisions

No changes; same as 2003

SAS Code and Annotation

```
/*Indicator 6.4: Tobacco smoker in household*/
```

```
value smoke /*ind6_4_07*/
```

```
0 = "No"
```

```
1 = "Yes";
```

```
ind6_4_07 = K9Q40; /*Household Smoking*/
```

```
if ind6_4_07 eq 0 then ind6_4_07 = 0;
```

```
if ind6_4_07 in (6,7) then ind6_4_07 = .; /*Don't know or Refused*/
```

```
label ind6_4_07 = "Indicator 6.4: Living in household in which someone uses cigarettes, cigars, or pipe tobacco";
```

Indicator 6.4a: Secondhand smoke exposure

Among children living with tobacco smokers, how many are exposed to secondhand smoke inside their homes?

Description Number of children living with tobacco smokers and number of children living in households with smokers in which smoking occurs inside the home

Survey Items K9Q40; K9Q41

Denominator Children age 0 through 17 years

Numerator No smokers in child's household; smoker in household but no smoking inside home; smoker in household and smoking occurs inside home

Notes for Data Users

Question K9Q41 "Does anyone smoke inside [child name]'s home" was only asked of respondents who said "Yes" to question K9Q40, "Does anyone living in your household use cigarettes, cigars, or pipe tobacco?". Indicator 6.4a shows overall prevalence of both outcomes.

Please note: results are expressed in terms of children (e.g., "Percent of children whose mothers are in excellent health..."), not parents, families, or households (e.g., "Percent of mothers who are in excellent health...").

Revisions

Question K9Q41 was newly added in 2007; not asked in 2003

SAS Code and Annotation

```
/*Indicator 6.4a: Secondhand smoke exposure*/
```

```
value sec_smoke /*ind6_4a_07*/
```

```
1 = "Non-smoking household"
```

```
2 = "Smoker present but no smoking inside house"
```

```
3 = "Smoker present and smoking occurs inside house";
```

```
ind6_4a_07 = .; /*Exposure to secondhand smoke at home*/
```

```
if K9Q40 = 0 then ind6_4a_07 = 1;
```

```
if K9q40 = 1 and K9Q41 = 0 then ind6_4a_07 = 2;
```

```
if K9Q40 = 1 and K9Q41 = 1 then ind6_4a_07 = 3;
```

```
if K9Q40 = 1 and K9Q41 in (6,7) then ind6_4a_07 = .;
```

```
if K9Q40 in (6,7) or K9Q41 in (6,7) then ind6_4a_07 = .; /*Don't know or Refused*/
```

```
label ind6_4a_07 = "Indicator 6.4a: Whether tobacco smoker lives in household and, if so, exposure to secondhand smoke inside home";
```

Indicator 6.5: Children in "working poor" households

How many children live in "working poor" households (HH) -- parents employed full-time with incomes less than 100% of the federal poverty level?

Description	Number of children living in households with income less than 100% of the federal poverty level and someone was employed 50 of the previous 52 weeks
Survey Items	K11Q50, povlev4_07
Denominator	Children age 0 through 17 years
Numerator	Children who do not live in a household defined as "working poor"; Children who live in a household that is classified as "working poor"

Notes for Data Users

Indicator 6.5 is derived from two questions. K11Q50, which defines the employment status of household members; and povlev4_07, which expresses total annual household income as a proportion of Federal Poverty Level (FPL) income guidelines for the total number of people living in the child's household. Children are living in "working poor" households if anyone in the household was employed for 50 of the previous 52 weeks (K11Q50) and total household income is below 100% of FPL (povlev4_07).

Missing income level is imputed for 6,869 of the 90,560 children with valid responses to K11Q50 (weighted estimate: 8.1% of children age 0-17).

If this measure is constructed using the variable POVERTY_LEVELR, as shown below, the results will differ from those shown on the DRC website because POVERTY_LEVELR does not include imputed values for missing income data. To match DRC results, replace missing values with imputed values; see Appendix XII of the 2007 NSCH methodology report -- ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/slats/nsch07/2_Methodology_Report/NSCH_Design_and_Operations_052109.pdf.

Please note that income level estimates and confidence intervals based on single imputation differ slightly from those obtained using multiple imputation methods.

Please note: results are expressed in terms of children (e.g., "Percent of children whose mothers are in excellent health..."), not parents, families, or households (e.g., "Percent of mothers who are in excellent health...").

Revisions

No changes; same as 2003.

SAS Code and Annotation

```
/*Indicator 6.5: Children in "working poor" households*/

value work_poor /*ind6_5_07*/
1 = "No"
2 = "Yes";

povlev4_07 = .;
if POVERTY_LEVELR in (1) then povlev4_07 =1;
if POVERTY_LEVELR in (2,3,4,5) then povlev4_07 =2;
if POVERTY_LEVELR in (6,7) then povlev4_07 =3;
if POVERTY_LEVELR in (8) then povlev4_07 =4;
label povlev4_07 = "How many children live in households with incomes above/below the federal poverty level (FPL)?"

ind6_5_07 = .; /* Working poor*/
if 0 < povlev4_07 <=4 and ((K11Q50 = 0) or (K11Q50 = 1)) then ind6_5_07 = 1;
if povlev4_07 = 1 and K11Q50 = 1 then ind6_5_07 = 2;
```

Family Health and Activities

```
if povlev4_07 = . then ind6_5_07 = .;  
if K11Q50 in (6,7) then ind6_5_07 = .;  
label ind6_5_07 = "Indicator 6.5: Living in 'working poor' household - income below poverty level and someone  
employed all year";
```

```
/*NOTE: Results for this variable differ from those shown on the DRC website, because it is based on  
POVERTY_LEVELR, which does not include imputed values for missing income. To match DRC results, replace  
missing values with imputed values as described in "Notes for Data Users" above.*/
```

Family Health and Activities

Indicator 6.6: Family outings

During the past week, how many days did you or any family member take [child name] on any kind of outing, such as to the park, library, zoo, shopping, church, restaurants, or family gatherings?

Description	Frequency of outings with family members, children age 0 - 5 years
Survey Items	K6Q64; AGEYR_CHILD
Denominator	Children age 0 through 5 years
Numerator	Days during the previous week on which family members took young children for outings: none; 1-3 days; 4-6 days; every day

Notes for Data Users

Examples of family outings were "to the park, library, zoo, shopping, church, restaurants, or family gatherings".

Section 6 questions were asked only for children less than 6 years old.

Revisions

Changes were made in the 2007 survey to the wording and placement of the questions regarding family outings (K6Q64). In 2003 these questions were included in Section 8, however, in 2007 they were moved to Section 6: Early Childhood. In addition, 2003 respondents were first asked to report on how many "times" in the past week they took their child on an outing. In 2007, they were instead asked how many "days" in the past week they went for an outing. Take these changes into consideration when comparing results across survey years.

SAS Code and Annotation

```

/* Indicator 6.6: Family outings*/

value outing /*ind6_6_07*/
0 = "No days"
1 = "1-3 days"
2 = "4-6 days"
3 = "Every day";

ind6_6_07 = .; /*Family outing*/
if K6Q64 = 0 then ind6_6_07 = 0; /*no days*/
if K6Q64 in (1,2,3) then ind6_6_07 = 1; /*1-3 days*/
if K6Q64 in (4,5,6) then ind6_6_07 = 2; /*4-6 days*/
if K6Q64 = 7 then ind6_6_07 = 3; /*Every day*/
if ind6_6_07 in (96,97, .) then ind6_6_07 = .; /*Missing*/
label ind6_6_07 = "Indicator 6.6: Number of days children went on outings with family members, past week, age 0-5";

```


Family Health and Activities

Indicator 6.7: Family reads to children

During the past week, how many days did you or other family members read stories to [child name]?

Description	How many times in a week are young children read stories by family members
Survey Items	K6Q60; AGEYR_CHILD
Denominator	Children age 0 through 5 years
Numerator	Days during the previous week on which family members read stories to young children: none; 1-3 days; 4-6 days; every day

Notes for Data Users

Response categories for K6Q60 are collapsed for Indicator 6.7; answer choices were open-ended and survey respondents could indicate up to 7 days.

Section 6 questions were asked only for children less than 6 years old.

Revisions

No changes; same as 2003

SAS Code and Annotation

/*Indicator 6.7: Family reads to children*/

value read /*ind6_7_07*/

0 = "No days"

1 = "1 or 2 days"

2 = "3 or 4 days"

3 = "5 or 6 days"

4 = "Every day";

ind6_7_07 = K6Q60; /*Reading to Young Children*/

if K6Q60 eq 0 then ind6_7_07 = 0; /*Don't read to Child*/

else if K6Q60 in (1,2) then ind6_7_07 = 1; /* Read 1 or 2 Days*/

else if K6Q60 in (3,4) then ind6_7_07 = 2; /* Read 3 or 4 Days*/

else if K6Q60 in (5,6) then ind6_7_07 = 3; /* Read 5 or 6 Days*/

else if K6Q60 eq 7 then ind6_7_07 = 4; /* Read every days to child*/

else if ind6_7_07 in (., 96,97) then ind6_7_07= .; /*Missing*/

label ind6_7_07 = "Indicator 6.7: Number of days family members read stories to children, past week, age 0-5";

Indicator 6.7a: Family sings or tells stories

During the past week, how many days did you or other family members sing or tell stories to [child name]?

Description	How many times in a week are young children sung to or told stories by family members
Survey Items	K6Q61; AGEYR_CHILD
Denominator	Children age 0 through 5 years
Numerator	Days during the previous week on which family members sang or told stories to young children: none; 1-3 days; 4-6 days; every day

Notes for Data Users

Response categories for K6Q61 are collapsed for Indicator 6.7a; answer choices were open-ended and survey respondents could indicate up to 7 days.

Section 6 questions were asked only for children less than 6 years old.

Revisions

Question K6Q61 was added in 2007; not asked in 2003

SAS Code and Annotation

```

/*Indicator 6.7a: Family sings or tells stories*/

value sing /*ind6_7a_07*/
0 = "No days"
1 = "1 or 2 days"
2 = "3 or 4 days"
3 = "5 or 6 days"
4 = "Every day";

ind6_7a_07 = .; /*Singing/telling stories to young children*/
if K6Q61 eq 0 then ind6_7a_07 = 0; /*Don't sing/tell stories to Child*/
if K6Q61 in (1,2) then ind6_7a_07 = 1; /* sing/tell stories 1 or 2 Days*/
if K6Q61 in (3,4) then ind6_7a_07 = 2; /* sing/tell stories 3 or 4 Days*/
if K6Q61 in (5,6) then ind6_7a_07 = 3; /* sing/tell stories 5 or 6 Days*/
if K6Q61 eq 7 then ind6_7a_07 = 4; /* sing/tell stories every days to child*/
if K6Q61 in (.,96,97) then ind6_7a_07 = .; /*Missing*/
label ind6_7a_07 = "Indicator 6.7a: Number of days family members sang or told stories to children, past week, age 0-5";

/*NOTE: For a list of SAS codes for missing data, see "Note for SAS users – Codes for missing values in public use data files" in the Introduction, page5.*/

```

Family Health and Activities

Indicator 6.8: Family meals

During the past week, on how many days did all the family members who live in the household eat a meal together?

Description	How many times in a week do all household family members share a meal
Survey Items	K8Q11
Denominator	Children age 0 through 17 years
Numerator	Days during the previous week on which family ate a meal together: none; 1-3 days; 4-6 days; every day

Notes for Data Users

Response categories for K8Q11 are collapsed for Indicator 6.8; answer choices were open-ended and survey respondents could indicate up to 7 days.

Please note: results are expressed in terms of children (e.g., "Percent of children whose mothers are in excellent health..."), not parents, families, or households (e.g., "Percent of mothers who are in excellent health...").

Revisions

No changes; same as 2003

SAS Code and Annotation

*/*Indicator 6.8: Family meals*/*

value meal */*ind6_8_07*/*

0 = "No days"

1 = "1-3 days"

2 = "4-6 days"

3 = "Every day";

ind6_8_07 = K8Q11; */*Sharing Meals*/*

if K8Q11 = 0 then ind6_8_07 = 0; */*Does not share meals everyday*/*

if K8Q11 ge 1 and K8Q11 le 3 then ind6_8_07 = 1; */*Family shares meals 1-3 days*/*

if K8Q11 ge 4 and K8Q11 le 6 then ind6_8_07 = 2; */*Family shares meals 4-6 days*/*

if K8Q11 = 7 then ind6_8_07 = 3; */*Family shares meals every day*/*

if ind6_8_07 in (.M,.,P,96,97) then ind6_8_07 = .; */*Don't know or Refused*/*

label ind6_8_07 = "Indicator 6.8: Number of days all household family members shared a meal, past week";

*/*NOTE: For a list of SAS codes for missing data, see "Note for SAS users – Codes for missing values in public use data files" in the Introduction, page5.*/*

Family Health and Activities

Indicator 6.9: Adequate sleep

During the past week, on how many nights did [child name] get enough sleep for a child [his/her] age?

Description	How often do school age children got enough sleep for their age
Survey Items	K7Q40; AGEYR_CHILD
Denominator	Children age 6 through 17 years
Numerator	Nights in the previous week on which children had adequate sleep for their age: none; 1-3 nights; 4-6 nights; every night

Notes for Data Users
 Response categories for K7Q40 are collapsed for Indicator 6.9; answer choices were open-ended and survey respondents could indicate up to 7 nights.

 Section 7 questions were asked only for children between 6 and 17 years of age.

Revisions
 No changes; same as 2003

SAS Code and Annotation
 /*Indicator 6.9: Adequate sleep*/

 value sleep /*ind6_9_07*/
 0 = "No nights"
 1 = "1-3 nights"
 2 = "4-6 nights"
 3 = "Every night";

 ind6_9_07 = .; /*Adequate sleep*/
 if K7Q40 = 0 then ind6_9_07 = 0; /*No night*/
 if K7Q40 in (1,2,3) then ind6_9_07 = 1; /*1-3 days*/
 if K7Q40 in (4,5,6) then ind6_9_07 = 2; /*4-6 days*/
 if K7Q40 = 7 then ind6_9_07 = 3; /*Every night*/
 if ind6_9_07 in (.,96,97) then ind6_9_07 = .; /*Missing*/
 label ind6_9_07 = "Indicator 6.9: Number of nights children had enough sleep, past week, age 6-17";

Indicator 6.10: TV and video, age 6-17

On an average weekday, about how much time does [child name] usually watch TV, watch videos, or play video games?

Description	Number of hours school age children spend watching TV or videos or playing video games on an average weekday
Survey Items	K7Q60; K7Q60A; AGEYR_CHILD
Denominator	Children age 6 through 17 years
Numerator	Amount of time on an average weekday: none; 1 hour or less; more than 1 hour but less than 4 hours; 4 hours or more

Notes for Data Users

Indicator 6.10 is derived from two questions: amount of time spent watching TV, watching videos, or playing video games on a typical weekday (K7Q60); and K7Q60A, which indicates whether answer to K7Q60 is given in hours or minutes. Includes 156 children age 6-17 who do not have a TV, video player or video games in their homes (weighted estimate: 0.2% of all children age 6-17), coded as having no screen time on a typical weekday.

Section 7 questions were asked only for children between 6 and 17 years of age.

Revisions

In 2003, question S7Q28 read: "On an average school day, about how many hours does [child] usually watch TV, watch videos, or play video games?". In 2007, the wording of question K7Q60 was revised to ask: "On an average weekday, about how many hours does [child name] usually watch TV, watch videos, or play video games?". Note in particular that "school day" and "week day" may not be equivalent to some families.

In 2007 changes were also made to the response options for question K7Q60. Parents were asked to give an average number in either minutes or hours. In 2003, parents only had the option of reporting number of hours, otherwise all responses of more than 0 but less than 1 hour were coded in the same category.

SAS Code and Annotation

```

/* Indicator 6.10: TV and video, age 6-17*/

value youth_tv /*ind6_10_07*/
0 = "None"
1 = "1 hour or less"
2 = "Between 1 and 4 hours "
3 = "4 hours or more";

ind6_10_07 = .; /*TV-video 6-17 years*/
tv_vid_6to17 = K7Q60;
if K7Q60 > 0 and K7Q60A = 2 then tv_vid_6to17 = K7Q60/60;
if K7Q60 > 0 and K7Q60A = 1 then tv_vid_6to17 = K7Q60*1;
if K7Q60 = 995 then tv_vid_6to17 = 0; /*Do not own TV ~ Watches no TV or Videos*/
if ageyr_child < 6 then tv_vid_6to17 = .;
if K7Q60 in (996,997) then tv_vid_6to17 = .;
label tv_vid_6to17 = "Hours of TV, videos or video games per weekday, age 6-17";

ind6_10_07 = tv_vid_6to17;
if tv_vid_6to17 = 0 then ind6_10_07 = 0; /*Watches no TV or Videos*/
if tv_vid_6to17 GT 0 and tv_vid_6to17 LE 1 then ind6_10_07 = 1; /*Watches 1 hour or less per weekday*/
if tv_vid_6to17 GT 1 and tv_vid_6to17 LT 4 then ind6_10_07 = 2; /*Watches more than 1 and less than 4 hours*/
if tv_vid_6to17 GE 4 and tv_vid_6to17 LE 12 then ind6_10_07 = 3; /*Watches 4 or more hours on weekdays*/
label ind6_10_07 = "Indicator 6.10: Hours spent watching TV or videos or playing video games, average weekday, age 6-17";

```

Indicator 6.10a: TV and video, age 1-5

On an average weekday, about how much time does [child name] usually watch TV or videos?

Description	Number of hours preschool age children spend watching TV or videos on an average weekday
Survey Items	K6Q65; K6Q65A; AGEYR_CHILD
Denominator	Children age 1 through 5 years
Numerator	Amount of time on an average weekday: none; 1 hour or less; more than 1 hour but less than 4 hours; 4 hours or more

Notes for Data Users

Indicator 6.10a is derived from two questions: amount of time spent watching TV or videos on a typical weekday (K6Q65); and K6Q65A, which indicates whether answer to K6Q65 is given in hours or minutes. Includes 38 children age 1-5 who do not have a TV or video player in their homes (weighted estimate: 0.1% of all children age 1-5), coded as having no screen time on a typical weekday.

Section 6 questions were asked only for children less than 6 years old.

Revisions

Questions K6Q65 and K6Q65A were added in 2007; not asked in 2003

SAS Code and Annotation

/*Indicator 6.10a: TV and video, age 1-5*/

value vid /*ind6_10a_07*/

0 = "None"

1 = "1 hour or less"

2 = "Between 1 and 4 hours "

3 = "4 hours or more";

ind6_10a_07 = .; /*TV-video, age 1-5*/

tv_vid = K6Q65;

if K6Q65 > 0 and K6Q65a = 2 then tv_vid = K6Q65/60;

if K6Q65 > 0 and K6Q65a = 1 then tv_vid = K6Q65*1;

if K6Q65 = 0 then tv_vid = 0; /*Watches no TV or Videos*/

if K6Q65 = 995 then tv_vid = 0; /*Do not own TV ~ Watches no TV or Videos*/

if K6Q65 in (996,997) then tv_vid = .; /*Don't know or Refused*/

label tv_vid = "Hours of TV or videos per weekday, age 1-5";

ind6_10a_07 = tv_vid;

if tv_vid = 0 then ind6_10a_07 = 0; /*Watches no TV or Videos*/

if tv_vid GT 0 and tv_vid LE 1 then ind6_10a_07 = 1; /*Watches 1 hour or less per weekday*/

if tv_vid GT 1 and tv_vid LT 4 then ind6_10a_07 = 2; /*Watches more than 1 and less than 4 hours*/

if tv_vid GE 4 then ind6_10a_07 = 3; /*Watches 4 or more hours on weekdays*/

if AGEYR_CHILD < 1 then ind6_10a_07 = .;

label ind6_10a_07 = "Indicator 6.10a: Hours spent watching TV or videos, average weekday, age 1-5";

Family Health and Activities

Indicator 6.10b: TV in bedroom

Is there a television in [child name]'s bedroom?

Description	Number of school age children who have a television set in their bedroom
Survey Items	K7Q62; AGEYR_CHILD
Denominator	Children age 6 through 17 years
Numerator	Television set in child's bedroom: yes; no.

Notes for Data Users

Section 7 questions were asked only for children between 6 and 17 years of age.

Revisions

Question K7Q62 was added in 2007; not asked in 2003

SAS Code and Annotation

```

/* Indicator 6.10b: TV in bedroom */

value tv_bed /*ind6_10b_07*/
1 = "Yes"
2 = "No";

ind6_10b_07 = K7Q62; /*TV in Bedroom*/
if K7Q62 = 1 then ind6_10b_07 = 1; /*Has a tv in bedroom*/
if K7Q62 = 0 then ind6_10b_07 = 2; /*No tv in bedroom*/
if K7Q60 = 995 then ind6_10b_07 = 2; /*Do not own TV ~ No tv in bedroom*/
if K7Q62 in (6,7) then ind6_10b_07 = .; /*Don't know or Refused*/
label ind6_10b_07 = "Indicator 6.10b: Television set in child's bedroom, age 6-17";

```

Indicator 6.11: Child stays home alone

Sometimes it is difficult to make arrangements to look after children all the time. During the past week, did [child name] take care of [himself/herself] or stay alone without an adult or teenager, even for a small amount of time?

Description	Number of children age 6-11 who spent any time at home without an adult or teenager present during the past week
Survey Items	K7Q35; K7Q36; AGEYR_CHILD
Denominator	Children age 6 through 11 years
Numerator	Spent any time at home during the previous week: no; yes

Notes for Data Users

Questions used to derive Indicator 6.11 are: K7Q35 - whether during the previous week children age 6-11 stayed at home without an adult or teenager, even for a short time - and, if so, K7Q36 - for how many hours during that week. Children are grouped according to whether they spent any time or no time at home alone.

Revisions

In 2007 the introduction and phrasing of the question changed slightly. Please take this into consideration when comparing results with 2003.

SAS Code and Annotation

```
/*Indicator 6.11: Child stays home alone*/

value alone /*ind6_11_07*/
0 = "No"
1 = "Yes";

ind6_11_07 = .; /*Home Alone*/
if K7Q36 ge 1 then ind6_11_07 = 1; /*Yes*/
if K7Q35 eq 0 then ind6_11_07 = 0; /*No*/
if K7Q35 in (6,7,.M) then ind6_11_07 = .; /*Missing*/
if K7Q36 in (996,997) then ind6_11_07 = .; /*Missing*/
label ind6_11_07 = "Indicator 6.11: Spent any time at home without an adult or teenager present, past week, age 6-11";

/*NOTE: For a list of SAS codes for missing data, see "Note for SAS users – Codes for missing values in public use data files" in the Introduction, page5.*/
```


Indicator 6.12: Parental aggravation

How many children have parents who were often aggravated with them during the past month?

Description	Number of children whose parents usually or always felt one or more of three types of parenting stress during the past month
Survey Items	K8Q31; K8Q32; K8Q34
Denominator	Children age 0 through 17 years
Numerator	Children whose parents seldom felt stress from parenting; Children whose parents often felt stress from parenting

Notes for Data Users

For Indicator 6.12, children qualify if their parents responded "Usually" or "Always" to one or more of three questions about how they felt during the past month: K8Q31 - child was much harder to care for than other children; K8Q32 - often bothered a lot by their child's behavior; and/or K8Q34 - angry with child.

Please note: results are expressed in terms of children (e.g., "Percent of children whose mothers are in excellent health..."), not parents, families, or households (e.g., "Percent of mothers who are in excellent health...").

Revisions

A category of "rarely" was added to the response choice options in 2007. This measure is scored using responses of usually or always to each of the three questions. The addition of the category rarely did not change the distribution of usually and always very significantly, but it did change the frequency of responses to never and sometimes. Please take these changes into consideration when comparing results across survey years.

SAS Code and Annotation

```

/*Indicator 6.12: Parental aggravation*/

value aggr /*ind6_12_07*/
1 = "None"
2 = "One or more";

stcare = K8Q31;
label stcare = "K8Q31 Much harder to care for than most children";
bother = K8Q32;
label bother = "K8Q32 Does things that really bother parent a lot";
angry = K8Q34;
label angry = "K8Q34 Felt angry with child";

array recode7 {*} stcare bother angry;
do i=1 to dim(recode7);
  if recode7(i) in (6,7) then recode7(i)=.;
end; drop I;

agg_ct = 0;
if stcare in (4,5) then agg_ct + 1;
if bother in (4,5) then agg_ct + 1;
if angry in (4,5) then agg_ct + 1;
if stcare in (.,.P) and bother in (.,.P) and angry in (.,.P) then agg_ct = .;
label agg_ct = "# of Usually or Always responses to three forms of stress reported by parents during the past month";

ind6_12_07 = .; /*Parental Aggravation*/
if agg_ct GE 1 then ind6_12_07 = 2; /*YES-often felt at least 1 form of stress*/
if agg_ct LT 1 then ind6_12_07 = 1; /*NO-did not often feel stressed*/

```

Family Health and Activities

```
if agg_ct = . then ind6_12_07 = .; /*Missing*/
```

```
label ind6_12_07 = "Indicator 6.12: Parents usually or always felt child is much harder to care for than other children, bothered by child's behavior, or angry with child, past month";
```

```
/*NOTE: For a list of SAS codes for missing data, see "Note for SAS users – Codes for missing values in public use data files" in the Introduction, page5.*/
```

Indicator 6.13: Dependable child care

During the past month, how many times have you had to make different arrangements for child care at the last minute due to circumstances beyond your control?

Description	Number of young children whose parents had to make last-minute changes in child care arrangements during the past month
Survey Items	K6Q25A; K6Q26; AGEYR_CHILD
Denominator	Children age 0 through 5 years
Numerator	During the previous month, children age 0-5 who: did not need/use childcare; had no childcare problems; had 1-2 childcare problems; had 3 or more childcare problems

Notes for Data Users

For Indicator 6.13 child care need is defined as "Yes" responses to one or more of three questions: K6Q20 - in child care with non-family caregivers for 10+ hours/week, K6Q21 - in child care provided by relatives for 10+ hours/week, or K6Q25A - needed more than occasional child care during past month. Only qualifying children were asked how many times parents had to make unexpected last minute changes in child care arrangements (K6Q26). A help screen for K6Q26 gives as examples "a child becoming ill or a child care provider changing plans or schedule suddenly".

Indicator 6.13 includes a category for children who did not need child care during the previous month. Setting this category to missing results in a variable that includes only children who needed child care.

Section 6 questions were asked only for children less than 6 years old.

Please note: results are expressed in terms of children (e.g., "Percent of children whose mothers are in excellent health..."), not parents, families, or households (e.g., "Percent of mothers who are in excellent health...").

Revisions

Significant changes were made to this indicator in 2007. In 2003 parents were not first asked whether the child actually needed child care during the past month. Given that "did not need care during past month" is such a large percentage of the responses, please take this into consideration when comparing results from 2003.

SAS Code and Annotation

/* Indicator 6.13: Dependable child care*/

value a_care /*ind6_13_07*/

0 = "Did not need/use child care"

1 = "None"

2 = "1-2 times"

3 = "3 or more times";

ind6_13_07 = .; /*Dependable child care*/

if K6Q26 = 0 then ind6_13_07 = 1; /*Didn't make any last minute arrangement*/

if K6Q26 in (1,2) then ind6_13_07 = 2; /*Made 1-2 times last minute arrangement*/

if K6Q26 GE 3 and K6Q26 LT 995 then ind6_13_07 = 3; /*Made 3 or more last minute arrangements*/

if K6Q26 in (996,997,.,N,.,L) then ind6_13_07 = .; /*Missing*/

if K6Q25A = 0 then ind6_13_07 = 0; /*Did not need care*/

label ind6_13_07 = "Indicator 6.13: Number of times parents had to make last-minute changes in child care arrangements, past month, age 0-5";

/*NOTE: For a list of SAS codes for missing data, see "Note for SAS users – Codes for missing values in public use data files" in the Introduction, page5.*/

Indicator 6.14: Employment affected by child care issues

During the past 12 months, did you or anyone in the family have to quit a job, not take a job, or greatly change your job because of problems with child care?

Description	Number of young children with family members who had to quit or not take a job, or change their job because of child care problems during the past 12 months
Survey Items	K6Q27; AGEYR_CHILD
Denominator	Children age 0 through 5 years
Numerator	Childcare problems interfere with employment of children's family members: no; yes

Notes for Data Users

Item K6Q27 was asked for all children age 0-5, regardless of child care need expressed in Indicator 6.13.

Section 6 questions were asked only for children less than 6 years old.

Please note: results are expressed in terms of children (e.g., "Percent of children whose mothers are in excellent health..."), not parents, families, or households (e.g., "Percent of mothers who are in excellent health...").

Revisions

No changes; same as 2003

SAS Code and Annotation

```

/*Indicator 6.14: Employment affected by child care issues*/

value worklife /*ind6_14_07*/
0 = "No"
1 = "Yes";

ind6_14_07 = .; /*Child care affected employment*/
if K6Q27 = 1 then ind6_14_07 = 1; /*Yes*/
if K6Q27 = 0 then ind6_14_07 = 0; /*No*/
if K6Q27 in (6,7,.N) then ind6_14_07 = .; /*Missing*/
label ind6_14_07 = "Indicator 6.14: Child care problems affected employment of family members, past 12 months, age 0-5;

/*NOTE: For a list of SAS codes for missing data, see - Note for SAS users – Codes for missing values in public use data files" in the Introduction, page5.*/

```

Indicator 6.15: Child care problems

How many children have parents who either had to 1) make different child care arrangements in the past month or 2) make employment-related changes due to child care reasons in the past year, or BOTH?

Description	Number of young children whose family members had problems with child care arrangements during the past month, or whose employment was affected by child care problems during the past year
Survey Items	K6Q25A; K6Q26; K6Q27; AGEYR_CHILD
Denominator	Children age 0 through 5 years
Numerator	Children whose parents: did not need care and whose work was not affected; did not have childcare issues; had one or both childcare issues

Notes for Data Users

Indicator 6.15 is a composite of Indicators 6.13 - dependability of child care arrangements - and 6.14 - child care issues impact on employment of family members. Note that the reference time period for these indicators differs: K6Q25 covers the past month while K6Q27 applies to the past 12 months.

Section 6 questions were asked only for children less than 6 years old.

Please note: results are expressed in terms of children (e.g., "Percent of children whose mothers are in excellent health..."), not parents, families, or households (e.g., "Percent of mothers who are in excellent health...").

Revisions

The content for this indicator changed from 2003. The main change is that in 2003 parents were only asked if they used various forms of care but not whether they needed care and whether that need went unmet. Please take these changes into consideration when comparing results across the two survey years.

SAS Code and Annotation

```
/* Indicator 6.15: Child care problems*/

value care_iss /*ind6_15_07*/
  1 = "Did not need/use child care"
  2 = "Neither type"
  3 = "One or both";

ind6_15_07 = .; /*Child care problems*/
if K6Q25A = 0 then ind6_15_07 = 1;
if K6Q26 = 0 and K6Q27 = 0 then ind6_15_07 = 2;
if 0 < K6Q26 < 101 or K6Q27 = 1 then ind6_15_07 = 3;
if (K6Q26 = 0 or K6Q26 in (996, 997)) and K6Q27 in (996, 997) then ind6_15_07 = .;
if K6Q26 in (996,997) and (K6Q27 = 0 or K6Q27 in (996, 997)) then ind6_15_07 = .;
if AGEYR_CHILD > 5 then ind6_15_07 = .;
label ind6_15_07 = "Indicator 6.15: Family members had problems with child care arrangements during the past month OR employment affected by child care issues during the past 12 months, age 0-5";
```

Indicator 6.16a: Family or non-family child care

How many children receive 10 or more hours per week of child care from someone not related to [him/her] such as a day care center, preschool, Head Start program, nanny, au pair, or from a relative other than [his/her] parents or guardians?

Description	Number of young children who spend 10 or more hours per week in child care provided by non-relatives or relatives other than parents
Survey Items	K6Q20; K6Q21; AGEYR_CHILD
Denominator	Children age 0 through 5 years
Numerator	Not in childcare; childcare provided by non-relatives; childcare provided by relatives; both relatives and non-relatives

Notes for Data Users

Indicator 6.16a is derived from two items: K6Q20 - 10 or more hours per week of childcare provided by a day care center, preschool, Headstart, nanny, au pair or other non-relatives - and K6Q21 - 10 or more hours per week of childcare provided by relatives other than the child's parents or guardians. Children are not counted as being in child care at all unless they receive spend 10 or more hours per week in at least one type of care (relatives or non-relatives). Children counted as having both relative and non-relative care must have at least 10 hours of each type, totaling 20 or more child care hours per week.

Section 6 questions were asked only for children less than 6 years old.

Revisions

These questions were completely revised from 2003. In 2003 parents were asked if child during the past month regularly attended preschool, day care center etc. In 2007 the questions were re-worded to ask about receiving care 10 hours a week or more from two sources: non-relatives and relatives.

SAS Code and Annotation

```
/* Indicator 6.16a: Family or non-family child care*/

value care_source /*ind6_16a_07*/
0 = "Neither"
1 = "Non-relatives"
2 = "Relatives"
3 = "BOTH types of child care";

ind6_16a_07 = .; /*Type of child care*/
if K6Q20 = 0 and K6Q21 = 0 then ind6_16a_07 = 0;
if K6Q20 ge 6 and K6Q21 = 0 then ind6_16a_07 = 0;
if K6Q20 = 6 and K6Q21 = 1 then ind6_16a_07 = 2;
if K6Q20 = 0 and K6Q21 = 6 then ind6_16a_07 = 0;
if K6Q20 = 1 and K6Q21 ge 6 then ind6_16a_07 = 1;
if K6Q20 = 0 and K6Q21 = 1 then ind6_16a_07 = 2;
if K6Q20 = 1 and K6Q21 = 0 then ind6_16a_07 = 1;
if K6Q20 = 1 and K6Q21 = 1 then ind6_16a_07 = 3;
if AGEYR_CHILD > 5 then ind6_16a_07 = .;
label ind6_16a_07 = "Indicator 6.16a: Ten or more hours of child care per week provided by non-relatives (e.g., day care center, preschool, nanny) or relatives other than parents, age 0-5";
```

Indicator 6.16b: Child care 10+ hours per week

How many children receive 10 or more hours per week of child care from someone not related to [him/her] such as a day care center, preschool, Head Start program, nanny, au pair, or from a relative other than [his/her] parents or guardians?

Description	Child care of either type for 10 or more hours per week
Survey Items	K6Q20; K6Q21
Denominator	Children age 0 through 5 years
Numerator	Children who do not receive 10+ hours/week of childcare; Children who receive 10+ hours/week of childcare from a relative and/or a non-relative

Notes for Data Users

Indicator 6.16b is calculated using the same two questions as Indicator 6.16a: K6Q20 - 10 or more hours per week of childcare provided by a day care center, preschool, Headstart, nanny, au pair or other non-relatives - and K6Q21 - 10 or more hours per week of childcare provided by relatives other than the child's parents or guardians. Children are counted as being in child care if their response to one or both questions is "Yes".

Section 6 questions were asked only for children less than 6 years old.

Revisions

These questions were completely revised from 2003. In 2003 parents were asked if child during the past month regularly attended preschool, day care center etc. In 2007 the questions were re-worded to ask about receiving care 10 hours a week or more from two sources: non-relatives and relatives.

SAS Code and Annotation

```

/* Indicator 6.16b: Child care 10+ hours per week*/

value care_ten /*ind6_16b_07*/
0 = "No"
1 = "Yes";

ind6_16b_07 = .; /*Child care of either type*/
if K6Q20 = 0 and K6Q21 = 0 then ind6_16b_07 = 0;
if K6Q20 ge 6 and K6Q21 = 0 then ind6_16b_07 = 0;
if K6Q20 = 6 and K6Q21 = 1 then ind6_16b_07 = 1;
if K6Q20 = 0 and K6Q21 = 6 then ind6_16b_07 = 0;
if K6Q20 = 1 and K6Q21 ge 6 then ind6_16b_07 = 1;
if K6Q20 = 0 and K6Q21 = 1 then ind6_16b_07 = 1;
if K6Q20 = 1 and K6Q21 = 0 then ind6_16b_07 = 1;
if K6Q20 = 1 and K6Q21 = 1 then ind6_16b_07 = 1;
if AGEYR_CHILD > 5 then ind6_16b_07 = .;
label ind6_16b_07 = "Indicator 6.16b: Spends 10 or more hours per week in child care with relatives or non-
relatives, age 0-5";

```

Neighborhood Safety and Support

Indicator 7.1: Supportive neighborhoods

How many children live in supportive neighborhoods?

Description	Number of children who live in neighborhoods in which people help each other out, neighbors look out for each others' children, parents feel they can count on neighbors, and parents trust neighbors to help if their child is hurt or upset
Survey Items	K10Q30; K10Q31; K10Q32; K10Q34
Denominator	Children age 0 through 17 years
Numerator	Living in supportive neighborhoods; living in neighborhoods that are not supportive in two or more ways

Notes for Data Users

Indicator 7.1, referred to in various contexts as neighborhood support, neighborhood cohesion, and social capital, is derived from responses to four statements: K10Q30 - People in my neighborhood help each other out; K10Q31 - We watch out for each other's children in this neighborhood; K10Q32 - There are people I can count on in this neighborhood; and K10Q34 - If my child were outside playing and got hurt or scared, there are adults nearby who I trust to help my child. Respondents were asked whether they strongly agree, somewhat agree, somewhat disagree, or strongly disagree with each statement. Excludes 1,660 children who did not have valid responses to at least three of the four component items (weighted estimate: 2.4% of all children age 0-17).

To score this indicator, item responses are assigned values (1-4) and an average is calculated for eligible cases. The threshold for living in a supportive neighborhood is a mean score of 2.25 or higher, indicating that no more than one item responses was one of the "disagree" options.

Revisions

No changes; same as 2003

SAS Code and Annotation

/*Indicator 7.1: Supportive neighborhoods*/

value supp_nhbd /*ind7_1_07*/

1 = "No"
2 = "Yes";

ind7_1_07 = .; /*Neighborhood Support*/

if K10Q30 in (6,7) then K10Q30 = .;
if K10Q31 in (6,7) then K10Q31 = .;
if K10Q32 in (6,7) then K10Q32 = .;
if K10Q34 in (6,7) then K10Q34 = .;
if K10Q30 ge 1 then K10Q30c = 1;
if K10Q31 ge 1 then K10Q31c = 1;
if K10Q32 ge 1 then K10Q32c = 1;
if K10Q34 ge 1 then K10Q34c = 1;

tot_supp = sum(K10Q30c,K10Q31c,K10Q32c,K10Q34c);

if tot_supp ge 3 then do;
supp_nhbd = mean(K10Q30,K10Q31,K10Q32,K10Q34);
end;

label supp_nhbd = "Supportive neighborhood mean score on 3 or 4 component variables";

if supp_nhbd ge 0 and supp_nhbd le 2.20 then ind7_1_07 = 0;
if supp_nhbd ge 2.25 and supp_nhbd le 4.00 then ind7_1_07 = 1;
if ind7_1_07 eq 0 then ind7_1_07 = 2; /*RECODES 0,1 into 1,2*/

label ind7_1_07 = "Indicator 7.1: Neighborhood is supportive in at least 3 of 4 ways: neighbors help each other out, look out for each others' children, can be counted on by parents, and can be trusted to help if child is hurt or upset";

Neighborhood Safety and Support

Indicator 7.2: Safe neighborhoods

How often do you feel [child name] is safe in your community or neighborhood?

Description	Number of children whose parents feel they are usually or always safe in their communities or neighborhoods
Survey Items	K10Q40
Denominator	Children age 0 through 17 years
Numerator	Children whose parents report their neighborhood or community is never safe; sometimes safe; usually/always safe

Notes for Data Users

For Indicator 7.2, responses of "Usually" and "Always" are combined.

Revisions

No changes; same as 2003

SAS Code and Annotation

/* Indicator 7.2: Safe neighborhoods*/

value safe /*ind7_2_07*/

1 = "Never"

2 = "Sometimes"

3 = "Usually or always";

ind7_2_07 = .; /*Safe Neighborhoods*/

if K10Q40 in (1) then ind7_2_07 = 1; /*Never safe*/

if K10Q40 in (2) then ind7_2_07 = 2; /*Sometimes safe*/

if K10Q40 in (3,4) then ind7_2_07 = 3; /*Usually, or always safe*/

label ind7_2_07 = "Indicator 7.2: Parents feel children are safe in their community or neighborhood";

Neighborhood Safety and Support

Indicator 7.3: Safe schools

How often do you feel [child name] is safe at school?

Description	Number of children whose parents feel that they are safe at school,
Survey Items	K10Q41; AGEYR_CHILD
Denominator	Children age 6 through 17 years enrolled in school outside home
Numerator	Children whose parents report that their school is never safe; sometimes safe; usually/always safe

Notes for Data Users

For Indicator 7.3, responses of "Usually" and "Always" are combined. The denominator for this measure does not include children under 6 years of age or 6-17 year old children who are either home-schooled or were not enrolled in school during the previous 12 months.

Revisions

No changes; same as 2003

SAS Code and Annotation

```

/*Indicator 7.3: Safe schools*/

value safeschl /*ind7_3_07*/
1 = "Never"
2 = "Sometimes"
3 = "Usually or always";

ind7_3_07 = .; /*Safe Schools*/
if K10Q41 in (1) then ind7_3_07 = 1; /*Never safe*/
if K10Q41 in (2) then ind7_3_07 = 2; /*Sometimes safe*/
if K10Q41 in (3,4) then ind7_3_07 = 3; /*Usually or always safe*/
label ind7_3_07 = "Indicator 7.3: Parents feel children are safe at school, age 6-17";
    
```

Indicator 7.4: Neighborhood amenities

How many children live in neighborhoods that contain certain amenities -- parks, recreation centers, sidewalks or libraries?

Description	Number of children who live in neighborhoods which have sidewalks, parks, recreation centers, or libraries
Survey Items	K10Q11; K10Q12; K10Q13; K10Q14
Denominator	Children age 0 through 17 years
Numerator	Number of neighborhood amenities: none; one of four; two of four; three of four; all four

Notes for Data Users

Indicator 7.4 counts how many of four amenities - sidewalks (K10Q11), parks (K10Q12), recreation centers (K10Q13), or libraries (K10Q14) - are present in children's neighborhoods. Excludes 2,736 children who did not have valid responses to all four of the component items (weighted estimate: 3.9% of all children age 0-17).

Revisions

This content was newly added to the 2007 NSCH survey.

SAS Code and Annotation

/*Indicator 7.4: Neighborhood amenities*/

value sidewalk /*walk_amen*/

1 = "Neighborhood contains sidewalks or walking paths"

2 = "Neighborhood does not contain sidewalks or walking paths";

value park /*park_amen*/

1 = "Neighborhood does contain a park or playground area"

2 = "Neighborhood does not contain a park or playground area";

value rec /*rec_amen*/

1 = "Neighborhood contains a recreation center, community center or Boys'/Girls' Club"

2 = "Neighborhood does not contain a recreation center, community center or Boys'/Girls' Club";

value library /*lib_amen*/

1 = "Neighborhood does contain a library or bookmobile"

2 = "Neighborhood does not contain a library or bookmobile";

value amen /*ind7_4_07*/

0 = "None"

1 = "One of 4 types"

2 = "Two of 4 types"

3 = "Three of 4 types"

4 = "All 4 amenities";

walk_amen = K10Q11;

label walk_amen = "Do sidewalks or walking paths exist in your neighborhood?";

park_amen = K10Q12;

label park_amen = "Does a park or playground area exist in your neighborhood?";

rec_amen = K10Q13;

label rec_amen = "Does a recreation center, community center, or boys' or girls' club exist in your community?";

lib_amen = K10Q14;

label lib_amen = "Does a library or bookmobile exist in your community?";

array recode8 {*} walk_amen park_amen rec_amen lib_amen;

Neighborhood Safety and Support

```
do i=1 to dim(recode8);
  if recode8(i) = 0 then recode8(i)=2;
  if recode8(i) in (6,7) then recode8(i)=.;
end; drop I;

ind7_4_07 = .; /*Neighborhood amenities*/
validamen = 0;
if K10Q11 in (0,1) then validamen + 1;
if K10Q12 in (0,1) then validamen + 1;
if K10Q13 in (0,1) then validamen + 1;
if K10Q14 in (0,1) then validamen + 1;
/*if validamen < 4 then validamen = .;*/

amenities = 0;
if K10Q11 = 1 then amenities + 1;
if K10Q12 = 1 then amenities + 1;
if K10Q13 = 1 then amenities + 1;
if K10Q14 = 1 then amenities + 1;

if amenities = 4 then ind7_4_07 = 4; /*Neighborhood has all amenities*/
if amenities = 3 then ind7_4_07 = 3; /*Neighborhood has 3 amenities*/
if amenities = 2 then ind7_4_07 = 2; /*Neighborhood has 2 amenities*/
if amenities = 1 then ind7_4_07 = 1; /*Neighborhood has 1 amenities*/
if amenities = 0 then ind7_4_07 = 0; /*Neighborhood has No amenities*/
if validamen < 4 then ind7_4_07 = .;
label ind7_4_07 = "Indicator 7.4: Of four types of amenities (sidewalks or walking paths, park or playground,
recreation or community center, library or bookmobile), number present in neighborhood";
```

Indicator 7.5: Detracting neighborhood elements

How many children live in neighborhoods with detracting elements -- graffiti, dilapidated housing or litter?

Description	Number of children who live in neighborhoods which have litter or garbage on sidewalks or streets, poorly kept or dilapidated housing, or vandalism such as broken windows or graffiti
Survey Items	K10Q20; K10Q22; K10Q23
Denominator	Children age 0 through 17 years
Numerator	Number of neighborhood detracting elements: none; one of three; two of three; all three

Notes for Data Users

Indicator 7.5 counts how many of three detracting elements - litter (K10Q20), dilapidated housing (K10Q22) or vandalism (K10Q23) - are present in children's neighborhoods. Excludes 1,189 children who did not have valid responses to all three of the component items (weighted estimate: 1.5% of all children age 0-17). Presence of graffiti (K10Q21) was not included in this measure.

Revisions

This content was newly added to the 2007 NSCH.

SAS Code and Annotation

```

/*Indicator 7.5: Detracting neighborhood elements*/

value litter /*litter_07*/
1 = "Neighborhood does contain litter or garbage on sidewalks and streets"
2 = "Neighborhood does not contain litter or garbage on sidewalks and streets";

value house /*housing_07*/
1 = "Neighborhood does contain poorly kept or dilapidated housing"
2 = "Neighborhood does not contain poorly kept or dilapidated housing";

value vandal /*vandal_07*/
1 = "Neighborhood does contain broken windows or graffiti"
2 = "Neighborhood does not contain broken windows or graffiti";

value phys_comm /*ind7_5_07*/
0 = "None"
1 = "One of 3 types"
2 = "Two of 3 types"
3 = "All 3 detractors";

litter_07 = K10Q20;
label litter_07 = "In your neighborhood, is there litter or garbage on the street or sidewalk?";
housing_07 = K10Q22;
label housing_07 = "In your neighborhood, is there poorly kept or dilapidated housing?";
vandal_07 = K10Q23;
label vandal_07 = "In your neighborhood is there vandalism such as broken windows or graffiti?";

array recode9 {*} litter_07 housing_07 vandal_07;
do i=1 to dim(recode9);
  if recode9(i) = 0 then recode9(i)=2;
  if recode9(i) in (6,7) then recode9(i)=..;
End; drop I;

ind7_5_07 = .; /*Physical condition of child's community*/

```

Neighborhood Safety and Support

```
validcomm = 0;
if K10Q20 in (0,1) then validcomm + 1;
if K10Q22 in (0,1) then validcomm + 1;
if K10Q23 in (0,1) then validcomm + 1;

comm_cond = 0;
if K10Q20 = 1 then comm_cond + 1;/*litter*/
if K10Q22 = 1 then comm_cond + 1;/*dilapidated housing*/
if K10Q23 = 1 then comm_cond + 1;/*vandalism*/
/*if validcomm lt 3 then comm_cond = .; new way*/
label comm_cond = "# Neighborhood condition Items";

if comm_cond = 3 then ind7_5_07 = 3; /*3 detracting elements*/
if comm_cond = 2 then ind7_5_07 = 2; /*2 detracting elements */
if comm_cond = 1 then ind7_5_07 = 1; /*1 detracting elements */
if comm_cond = 0 then ind7_5_07 = 0; /*No detracting elements */
if validcomm < 3 then ind7_5_07 = .;
label ind7_5_07 = "Indicator 7.5: Of three types of detracting elements (litter or garbage, poorly kept housing,
vandalism), number present in neighborhood";
```

Subgroup Variables

Age of child - 3 groups

How many children/youth of different ages are in the 0-17 year old population?

Description	Child's age (three categories)
Survey Items	AGEYR_CHILD
Denominator	Children age 0 through 17 years
Numerator	Age 0-5 years; age 6-11 years; age 12-17 years

Notes for Data Users

Uses variable AGEYR_CHILD in the 2007 NSCH public use file provided by the National Center for Health Statistics; aggregates into three groups. Age categories were created from initial sampling questions asked in the survey. For more information visit: <http://nschdata.org/Content/Guide2007.aspx>.

Revisions

Age categories and groupings are the same as 2003

SAS Code and Annotation

```
/*Age of child - 3 groups*/

value age /*age3_07*/
1 = "0-5 yrs old"
2 = "6-11 yrs old"
3 = "12-17 yrs old";

age3_07 = .; /*Age - 3 groups*/
if 0 <= AGEYR_CHILD <= 5 then age3_07 = 1;
if 6 <= AGEYR_CHILD <=11 then age3_07 = 2;
if 12<= AGEYR_CHILD <=17 then age3_07 = 3;
label age3_07 = "Age of child - 3 groups";
```

Subgroup Variables

Age of child - 5 groups

How many children of different ages are in the 0-17 year old population?

Description	Child's age (five categories)
Survey Items	AGEYR_CHILD
Denominator	Children age 0 through 17 years
Numerator	Age 0-3 years; age 4-7 years; age 8-11 years; age 12-14 years; age 15-17 years

Notes for Data Users

Uses variable AGEYR_CHILD in the 2007 NSCH public use file provided by the National Center for Health Statistics; aggregates into five groups. Age categories were created from initial sampling questions asked in the survey. For more information visit: <http://nschdata.org/Content/Guide2007.aspx>.

Revisions

Age categories and groupings are the same as 2003

SAS Code and Annotation

```

/*Age of child - 5 groups*/

value agefive /*age5_07*/
1 = "0-3 yrs old"
2 = "4-7 yrs old"
3 = "8-11 yrs old"
4 = "12-14 yrs old"
5 = "15-17 yrs old";

Age5_07 = .; /*Age - 5 groups*/
if 0 <= AGEYR_CHILD <= 3 then age5_07 = 1; /*0-3 yrs old*/
if 4 <= AGEYR_CHILD <= 7 then age5_07 = 2; /*4-7 yrs old*/
if 8 <= AGEYR_CHILD <= 11 then age5_07 = 3; /*8-11 yrs old*/
if 12 <= AGEYR_CHILD <= 14 then age5_07 = 4; /*12-14 yrs old*/
if 15 <= AGEYR_CHILD <= 17 then age5_07 = 5; /*15-17 yrs old*/
label age5_07 = "Age of child - 5 groups";

```


Subgroup Variables

Sex of child

How many males and females are in the 0-17 year old population?

Description	Child's sex
Survey Items	SEX
Denominator	Children age 0 through 17 years
Numerator	Male; female

Notes for Data Users

Uses variable SEX in the 2007 NSCH public use file provided by the National Center for Health Statistics.

Revisions

Sex categories and groupings are the same as 2003

SAS Code and Annotation

```
/*Sex of child*/  
  
value sex  
1="Male"  
2="Female";  
  
sex_07 = SEX; /*Sex of child*/  
if sex_07 > 2 then sex_07 = .; /*Don't know or Refused*/  
label sex_07 = "Sex of child";
```

Subgroup Variables

Race and ethnicity of child

How many children of different races or Hispanic ethnicity are in the 0-17 year old U.S. population?

Description	Child's race and ethnicity
Survey Items	HISPANIC, RACER
Denominator	Children age 0 through 17 years
Numerator	Hispanic; White, non-Hispanic; Black, non-Hispanic; Multi-racial, non-Hispanic; Other, non-Hispanic

Notes for Data Users

In the 2007 NSCH public use file provided by the National Center for Health Statistics responses to K11Q02X01-K11Q02X08 are combined into RACER and an edited version of K11Q01 is included as HISPANIC.

For race5_07, children reporting Hispanic or Latino ethnicity (HISPANIC=1) are counted as Hispanic regardless of reported race in RACER. Non-Hispanic children (HISPANIC=0) are grouped by race based on RACER. Children whose Hispanic/Latino ethnicity is unknown are coded as missing in race5_07. Non-Hispanic children reporting only one race category of Asian, American Indian, Alaska Native, Native Hawaiian, or Pacific Islander are grouped as "Other, non-Hispanic" because of small sample sizes in many states; for specific information about these race categories, see the 2007 NSCH methodology report - ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/slait/nsch07/2_Methodology_Report/NSCH_Design_and_Operations_052109.pdf. Non-Hispanic children who reported more than one race are categorized as "Multi-racial".

Excludes 1,546 children whose race and/or ethnicity is unknown (weighted estimate: 1.9% of all children age 0-17).

Revisions

In the 2003 NSCH, children whose Hispanic/Latino ethnicity was unknown but who responded to the questions about race were counted as non-Hispanic. In 2007 these cases were treated as missing, regardless of whether there was a valid response to the questions about race.

SAS Code and Annotation

*/*Race and ethnicity of child*/*

value hisprace */*race5_07*/*

1 = "Hispanic, any race"

2 = "White, non-Hispanic"

3 = "Black, non-Hispanic"

4 = "Multiracial, non-Hispanic"

5 = "Other, non-Hispanic";

if HISPANIC = 0 then HISPANIC = 2;

race5_07 = .; */*Race and ethnicity*/*

if HISPANIC = 2 and RACER = 1 then race5_07 = 2; */*White, non-Hisp*/*

if HISPANIC = 2 and RACER = 2 then race5_07 = 3; */*Black, non-Hisp*/*

if HISPANIC = 1 then race5_07 = 1; */*Hispanic*/*

if HISPANIC = 2 and RACER = 3 then race5_07 = 4; */* Multiracial, non-Hisp*/*

if HISPANIC = 2 and RACER = 4 then race5_07 = 5; */*Other, non-Hisp*/*

if race5_07 = . then race5_07 = .; */*DK/REF/SYSMISS to HISPANIC or RACER or both*/*

label race5_07 = "Race and ethnicity of child";

Subgroup Variables

Primary household language	
What is the primary language spoken in home?	
Description	Number of children whose ethnicity is Hispanic or Latino and whether living in English or non-English-speaking households
Survey Items	HISPANIC, RACER, PLANGUAGE
Denominator	Children age 0 through 17 years
Numerator	Hispanic Children from a primarily spanish speaking home; Hispanic Children from a primarily English speaking home; Non-Hispanic child
Notes for Data Users	
<p>This measure is based on the assumption that Spanish is the household language for Hispanic or Latino children living in non-English language households. This may not be true in every case, results from the 2007 NSCH indicate that it is a viable proxy. According to survey respondents, 52% of Hispanic children ages 0-17 years in the U.S lived in households where the primary language was not English. Hispanic children living in non-English language households represent 10.6% of the U.S. child population overall. About 2.5% of the U.S. child population are non-Hispanic and live in households where English in not the primary language.</p> <p>Excludes 1,593 children whose race, ethnicity, and/or primary household language is unknown (weighted estimate: 1.9% of all children age 0-17).</p>	
Revisions	
Question K1Q03 was newly added in 2007; not asked about in 2003	
SAS Code and Annotation	
<pre> /*Primary household language*/ value hisplang /*hisplang_07*/ 1 = "Hispanic, non-English HH" 2 = "Hispanic, English HH" 3 = "Non-Hispanic child"; if HISPANIC = 0 then HISPANIC = 2; race5_07 = .; /*Race and ethnicity*/ if HISPANIC = 2 and RACER = 1 then race5_07 = 2; /*White, non-Hisp*/ if HISPANIC = 2 and RACER = 2 then race5_07 = 3; /*Black, non-Hisp*/ if HISPANIC = 1 then race5_07 = 1; /*Hispanic*/ if HISPANIC = 2 and RACER = 3 then race5_07 = 4; /* Multiracial, non-Hisp*/ if HISPANIC = 2 and RACER = 4 then race5_07 = 5; /*Other, non-Hisp*/ label race5_07 = "How many children of different races or Hispanic ethnicity are in the 0-17 year old U.S. population?"; hisplang_07 = .; if race5_07 = 1 and PLANGUAGE = 2 then hisplang_07 =1 /*Hispanic child Spanish PHL*/; if race5_07 = 1 and PLANGUAGE = 1 then hisplang_07 =2 /*Hispanic child English PHL*/; if race5_07 > 1 then hisplang_07 =3 /*Non-Hispanic child*/; if PLANGUAGE >= 6 then hisplang_07 = .; if race5_07 = . then hisplang_07 = .; label hisplang_07 = "Primary household language"; </pre>	

Subgroup Variables

Family structure

What are the family structure characteristics of the child's household at the time of the survey?

Description	Number of children living with both biological and/or adopted parents, two-parent step families, families with a mother but no father present, or other types of family structure
Survey Items	FAMSTRUCT
Denominator	Children age 0 through 17 years
Numerator	Two parent-biological or adopted; two parent-step family; single mother, no father present; other family type

Notes for Data Users

Family type is characterized by number of parents or parent figures present in the household (one, two or other family type) and the relationships of parents or other adults in the household (biological/adoptive parents, step-parents, or other family structure)

A composite measure of family structure, FAMSTRUCT, was created by the National Center for Health Statistics (NCHS) for the 2007 NSCH public use data file. "Family structure" refers to parents living in the household. Any of the four family structure categories may include other people who act as parents, such as grandparents, aunts, uncles, or unmarried partners of the parents. Legal guardians were not considered to be mothers or fathers. Households identified as having two mothers of the same type (biological, step, foster, or adoptive) were classified as "other family structure." However, because of this ambiguity about whether the respondent was also counted as another parent in the household, these households may actually be "single mother" households. Other households with ambiguous structure (e.g., where a father refused to indicate whether he was the biological father) were also coded as "other family structure."

Excludes 547 children whose family structure was not determined (weighted estimate: 0.7% of all children age 0-17).

Revisions

Family structure categories and groupings are the same as 2003

SAS Code and Annotation

```
/*Family structure*/

value famstruct /*famstruct_07*/
  1 = "Two parent, biological or adopted"
  2 = "Two parent, step family"
  3 = "Single mother, no father present"
  4 = "Other family type";

famstruct_07 = FAMSTRUCT; /*Family structure*/
label famstruct_07 = "Type of family structure in household";
```

Subgroup Variables

Income level of household

How many children live in households with incomes above/below the federal poverty level (FPL)?

Description	Children's household income level expressed as percentage of Federal Poverty Level (FPL) guidelines for income and size of household
Survey Items	POVERTY_LEVELR (see below for information on single imputation of missing values in this variable)
Denominator	Children age 0 through 17 years
Numerator	0-99% FPL; 100-199% FPL; 200-399% FPL; 400% FPL or more

Notes for Data Users

The 2007 NSCH public data file provided by the National Center for Health Statistics (NSCH) includes a derived income variable, POVERTY_LEVELR which is used in the code shown below. 7,817 children are missing values in POVERTY_LEVELR (weighted estimate: 9.3% of all children age 0-17).

When this measure is constructed using the variable POVERTY_LEVELR, as shown below, the results will differ from those shown on the DRC website because POVERTY_LEVELR does not include imputed values for missing income data. To match DRC results, replace missing values with imputed values; see Appendix XII of the 2007 NSCH methodology report --

ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/slait/nsch07/2_Methodology_Report/NSCH_Design_and_Operations_052109.pdf.

Please note that income level estimates and confidence intervals based on single imputation differ slightly from those obtained using multiple imputation methods.

Federal Poverty Level guidelines used in the 2007 NSCH are shown in the survey methodology report (URL above), Appendix

Revisions

Income categories and groupings are the same as 2003.

SAS Code and Annotation

```
/*Income level of household*/
```

```
value pov /*povlev4_07*/
```

```
1 = "< 100% FPL"
```

```
2 = "100-199% FPL"
```

```
3 = "200-399% FPL"
```

```
4 = "400% or more FPL";
```

```
povlev4_07 = .; /*Household income - no imputation*/
```

```
if POVERTY_LEVELR in (1) then povlev4_07 =1;
```

```
if POVERTY_LEVELR in (2,3,4,5) then povlev4_07 =2;
```

```
if POVERTY_LEVELR in (6,7) then povlev4_07 =3;
```

```
if POVERTY_LEVELR in (8) then povlev4_07 =4;
```

```
label povlev4_07 = "Household income level expressed as percentage of Federal Poverty Level (FPL)";
```

```
/*NOTE: Results for this variable differ from those shown on the DRC website, because it is based on POVERTY_LEVELR, which does not include imputed values for missing income. To match DRC results, replace missing values with imputed values as described in "Notes for Data Users" above.*/
```

Subgroup Variables

Household income level - SCHIP categories

How many children live in households with incomes above/below the federal poverty level (FPL) based on the State Children's Health Insurance Program (SCHIP) income groups?

Description	Children's household income level expressed as percentage of Federal Poverty Level (FPL) guidelines for income and size of household, categories compatible with income eligibility requirements for State Children's Health Insurance Program (SCHIP)
Survey Items	POVERT_LEVELR or POVLEVEL_I from NCHS imputation data file version 3
Denominator	Children age 0 through 17 years
Numerator	0-199% FPL; 200-299% FPL; 300-399% FPL; 400% FPL or more

Notes for Data Users

PovSCHIP_07 is constructed in the same manner as povlev4_07, but with slightly different income categories; please refer to notes for povlev4_07 (previous page).

Revisions

Income categories and groupings are the same as 2003, but groupings using the SCHIP guidelines were newly added to our analysis in 2007

SAS Code and Annotation

*/*Household income level - SCHIP categories*/*

value pov_schip */*povSCHIP_07*/*

1 = "< 199% FPL"

2 = "200-299% FPL"

3 = "300-399% FPL"

4 = "400% or more FPL";

povSCHIP_07 = .; */*SCHIP Household income*/*

if POVERTY_LEVELR in (1,2,3,4,5) then povSCHIP_07 =1;

if POVERTY_LEVELR in (6) then povSCHIP_07 =2;

if POVERTY_LEVELR in (7) then povSCHIP_07 =3;

if POVERTY_LEVELR in (8) then povSCHIP_07 =4;

label povSCHIP_07 = "Household income level grouped by SCHIP income criteria";

*/*NOTE: Results for this variable differ from those shown on the DRC website, because it is based on POVERTY_LEVELR, which does not include imputed values for missing income. To match DRC results, replace missing values with imputed values as described in "Notes for Data Users" under the previous measure, povlev4_07.*/*

Subgroup Variables

Children with Special Health Care Needs

How many children have special health care needs?

Description	Children with special health care needs (CSHCN), as determined by CSHCN Screener
Survey Items	CSHCN; K2Q10; K2Q11; K2Q12; K2Q13; K2Q14; K2Q15; K2Q16; K2Q17; K2Q18; K2Q19; K2Q20; K2Q21; K2Q22; K2Q23
Denominator	Children age 0 through 17 years
Numerator	Children who do not have special health care needs; Children with qualifying responses on one or more of the five CSHCN Screener items

Notes for Data Users

Although the CSHCN Screener result (CSHCN) is provided in the 2007 NSCH public data file, we have included scoring syntax in order to illustrate how the CSHCN items are used to create component variables for each of the 5 domains and the final screener result. Nationwide, 1,200 children who did not qualify as CSHCN on the CSHCN Screener had invalid responses (don't know or refused) to one or more of the five screener items (weighted estimate: 1.4% of all children age 0-17).

The NSCH uses the CSHCN Screener© to identify children with special health care needs. The Screener is a five item, parent-reported tool designed to reflect the federal Maternal and Child Health Bureau's consequences-based definition of children with special health care needs. It identifies children across the range and diversity of childhood chronic conditions and special needs, allowing a more comprehensive and robust assessment of children's needs and health care system performance than is attainable by focusing on a single diagnosis or type of special need. This instrument has been used in several national surveys including the Promoting Healthy Development Survey, the CAHPS-CCC, the NSCH, the NS-CSHCN, and MEPS. The CSHCN Screener was developed by the Child and Adolescent Health Measurement Initiative (CAHMI). For more information, please visit the CAHMI website: www.cahmi.org; or contact us by e-mail: cahmi@ohsu.edu.

Revisions

CSHCN categories, calculations and groupings are the same as 2003

SAS Code and Annotation

```

/*Children with Special Health Care Needs*/

value ny /*rxmeds serve func therapy mhealth*/
0 = "No"
1 = "Yes";

value cshcn /*metlwi_07*/
1 = "CSHCN"
2 = "Non-CSHCN";

rxmeds = 0; /*Rx meds*/
if K2Q10 = 1 and K2Q11 = 1 and K2Q12 = 1 then rxmeds = rxmeds + 1;
label rxmeds = "Qualified on rx med use?";

serve = 0; /*Service use*/
if K2Q13 = 1 and K2Q14 = 1 and K2Q15 = 1 then serve = serve + 1;
label serve = "Qualified on service use?";

func = 0; /*functional limitations*/
if K2Q16 = 1 and K2Q17 = 1 and K2Q18 = 1 then func = func + 1;
label func = "Qualified on functional limits?";

therapy = 0; /*special therapies*/

```

Subgroup Variables

```
if K2Q19 = 1 and K2Q20 = 1 and K2Q21 = 1 then therapy = therapy + 1;  
label therapy = "Qualified on use of special therapies?";
```

```
mhealth = 0; /*mental health*/  
if K2Q22 = 1 and K2Q23 = 1 then mhealth = mhealth + 1;  
label mhealth = "Qualified on use of mental health services?";
```

```
metlwi_07 = 0; /*Children qualifying as CSHCN*/  
if rxmeds = 1 or serve = 1 or func = 1 or therapy = 1 or mhealth = 1 then metlwi_07 = 1;  
if metlwi_07 = 0 then metlwi_07 = 2;  
if metlwi_07 in (6,7) then metlwi_07 = .; /*Don't know or Refused*/  
label metlwi_07 = "CSHCN Screener - Children with Special Health Care Needs based on ongoing health conditions  
resulting in one or more of 5 health consequences";
```


Subgroup Variables

Type of Special Health Care Needs (CSHCN)

How many children with special health care needs (CSHCN) qualified as having specific types of health consequences based on CSHCN screening criteria?

Description	CSHCN screener responses regrouped into 4 mutually exclusive categories
Survey Items	K2Q10; K2Q11; K2Q12; K2Q13; K2Q14; K2Q15; K2Q16; K2Q17; K2Q18; K2Q19; K2Q20; K2Q21; K2Q22; K2Q23
Denominator	CSHCN age 0 through 17 years
Numerator	Functional limitations (alone or with any other); Prescription medication ONLY; Services needs ONLY; Prescription medication AND service needs

Notes for Data Users

This variable stratifies CSHCN according to four mutually exclusive categories, each representing specific combinations of CSHCN Screener health consequences. This measure is based on the CSHCN Screener, developed by the Child and Adolescent Health Measurement Initiative (CAHMI).

The four CSHCN types are defined as follows:

Rx meds only - CSHCN identified by current need for or use of prescription medication to manage an ongoing medical, behavioral, or other chronic health condition criteria, and who qualified on no other CSHCN Screener criterion;

Service use only - CSHCN who did not qualify on Rx medications or functional limitation but did qualified on one or more of three service-related screener criteria: elevated need or use of medical, mental health or educational services; need or use of specialized therapies; need for treatment or counseling for chronic emotional, behavioral, or developmental condition

Rx meds AND service use - CSHCN who did not qualify on functional limitation, but did qualify based on both prescription medication use AND elevated service use (described above)

Functional limitations - CSHCN qualifying on the functional limitation criterion (limited ability to do things most other children the same age can do due to the presence of an on-going medical, behavioral or other health condition), alone or in combination with any other screening criteria

A detailed analysis of CSCHN subtypes has been published:
Bramlett, M.D., Read, D., Bethell, C. and Blumberg, S.J. Differentiating subgroups of children with special health care needs by health status and complexity of health care needs. *Maternal and Child Health Journal*. 2009; 13:151-163.

Revisions

No changes, same as 2003.

SAS Code and Annotation

```
/*Type of Special Health Care Needs (CSHCN)*/

value nydef /*rxmeds serve func therapy mhealth*/
0 = "No"
1 = "Yes";

value def /*def5_07*/
0 = "Non-CSHCN"
1 = "Func limits (only or w/ any other)"
2 = "Rx meds ONLY"
3 = "Service use ONLY"
4 = "Rx meds AND service use";
```

Subgroup Variables

```
rxmeds = 0; /*Rx meds*/
if (K2Q10 = 1 and K2Q11 = 1 and K2Q12 = 1) then rxmeds = rxmeds + 1;
label rxmeds = "Qualified on rx med use?";

serve = 0; /*Service use*/
if (K2Q13 = 1 and K2Q14 = 1 and K2Q15 = 1) then serve = serve + 1;
label serve = "Qualified on service use?";

func = 0; /*functional limitations*/
if (K2Q16 = 1 and K2Q17 = 1 and K2Q18 = 1) then func = func + 1;
label func = "Qualified on functional limits?";

therapy = 0; /*special therapies*/
if (K2Q19 = 1 and K2Q20 = 1 and K2Q21 = 1) then therapy = therapy + 1;
label therapy = "Qualified on use of special therapies?";

mhealth = 0; /*mental health*/
if (K2Q22 = 1 and K2Q23 = 1) then mhealth = mhealth + 1;
label mhealth = "Qualified on use of mental health services?";

def5_07 = 0; /*Type of SHCN*/
if func = 1 then def5_07 = 1; /*Func limits (only or w/ any other)*/
if func = 0 and rxmeds = 1 and serve = 0 and therapy = 0 and mhealth = 0 then def5_07 = 2; /*Rx meds ONLY*/
if func = 0 and rxmeds = 0 and (serve = 1 or therapy = 1 or mhealth = 1) then def5_07 = 3; /*Service use ONLY*/
if func = 0 and rxmeds = 1 and (serve = 1 or therapy = 1 or mhealth = 1) then def5_07 = 4; /*Rx meds AND
service use*/
if def5_07 = 0 then def5_07 = .;
/*if def5_07 = 0 then def5_07 = .;*/ /*OPTIONAL to exclude non-CSHCN from denominator*/
label def5_07 = "CSHCN Grouped by Type and Complexity of Special Health Care Needs";
```

Appendix A: Indicator and Subgroup Variables

Unweighted Frequency Tables



APPENDIX A: Unweighted Frequency Tables for Indicators and Subgroups

SECTION 1: Physical and Dental Health

Indicator 1.1: Children's overall health status

ind1_1_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Excellent or very good	80456	87.82	80456	87.82
Good	8976	9.80	89432	97.61
Fair or poor	2186	2.39	91618	100.00

Frequency Missing = 24

Indicator 1.2: Condition of children's teeth, age 1-17

ind1_2_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Excellent or very Good	66136	76.23	66136	76.23
Good	15644	18.03	81780	94.26
Fair or poor	4984	5.74	86764	100.00

Frequency Missing = 4878

Indicator 1.2a: Two or more oral health problems, past 6 months, age 1-17

ind1_2a_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No oral health problems reported	65716	75.67	65716	75.67
1 oral health problem	14969	17.24	80685	92.90
2 or more oral health problems	6163	7.10	86848	100.00

Frequency Missing = 4794

Indicator 1.3: Ever breastfed or fed breast milk, age 0-5

ind1_3_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	21095	77.02	21095	77.02
No	6293	22.98	27388	100.00

Frequency Missing = 64254

Indicator 1.3a: Exclusively breastfed or fed breast milk for first 6 months, age 6 mo-5 yrs

ind1_3a_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Never breastfed or given breast milk	5901	23.42	5901	23.42
Exclusively breastfed for first 6 months	3438	13.64	9339	37.06
Breastfed, NOT exclusively for first 6 months	15574	61.81	24913	98.87
Breastfed, exclusivity not known	284	1.13	25197	100.00

Frequency Missing = 66445

Indicator 1.4: Weight status - BMI-for-age, 4 categories, age 10-17

ind1_4_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Underweight (less than 5th percentile)	2186	4.96	2186	4.96
Healthy weight (5th to 84th percentile)	29121	66.03	31307	70.99
Overweight (85th to 94th percentile)	6754	15.31	38061	86.30
Obese (95th percentile or above)	6040	13.70	44101	100.00

Frequency Missing = 47541

APPENDIX A: Unweighted Frequency Tables for Indicators and Subgroups

Indicator 1.4a: Weight status - BMI-for-age, 3 categories, age 10-17

	BMI3_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Underweight - less than 5th percentile		2186	4.96	2186	4.96
Normal weight - 5th to 84th percentile		29121	66.03	31307	70.99
Overweight or obese - 85th percentile or above		12794	29.01	44101	100.00
Frequency Missing = 47541					

Indicator 1.5: Physical activity, number of days in past week, age 6-17

ind1_5_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 days	5767	9.09	5767	9.09
1-3 days	16053	25.31	21820	34.40
4-6 days	23498	37.04	45318	71.44
Everyday	18116	28.56	63434	100.00
Frequency Missing = 28208				

Indicator 1.6: Number of school days missed, past 12 months, age 6-17

ind1_6_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 days	13111	20.70	13111	20.70
1-5 days	38621	60.98	51732	81.68
6-10 days	7964	12.57	59696	94.25
11 or more days	3639	5.75	63335	100.00
Frequency Missing = 28307				

Indicator 1.7: Injuries requiring medical care, past 12 months, age 0-5

ind1_7_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	2856	10.37	2856	10.37
No	24687	89.63	27543	100.00
Frequency Missing = 64099				

Indicator 1.9: One or more current chronic conditions rated moderate/severe, from 16 listed

	ind1_9_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Has no chronic conditions from list		71064	77.62	71064	77.62
Has mild chronic conditions only		11054	12.07	82118	89.69
Has one or more moderate or severe chronic conditions		9440	10.31	91558	100.00
Frequency Missing = 84					

Indicator 1.9a: Children with 1 or more current chronic health conditions from list of 16

	ind1_9a_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No current chronic conditions from list		71064	77.55	71064	77.55
1 current chronic condition		12639	13.79	83703	91.34
2 or more chronic conditions		7937	8.66	91640	100.00
Frequency Missing = 2					

APPENDIX A: Unweighted Frequency Tables for Indicators and Subgroups

Indicator 1.13: Health conditions limit participation, CSHCN age 6-17

	ind1_13_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
None		10428	69.29	10428	69.29
Limited in one area		2563	17.03	12991	86.32
Limited in two or all three areas		2058	13.68	15049	100.00
Frequency Missing = 76593					

SECTION 2: Emotional and Mental Health

Indicator 2.1: Parent has one or more concerns about child's learning, development, or behavior, age 4 months-5 years

	ind2_1_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
None reported		16182	61.78	16182	61.78
One or more concerns		10010	38.22	26192	100.00
Frequency Missing = 65450					

Indicator 2.2: At risk for developmental, behavioral, or social delays, age 4 months-5 years

	ind2_2_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Low or no risk		19871	75.92	19871	75.92
Moderate risk		3924	14.99	23795	90.91
High risk		2379	9.09	26174	100.00
Frequency Missing = 65468					

Indicator 2.2a: Play with other children their age, number of days in past week, age 1-5

	ind2_2a_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Did not play with other children		1827	8.03	1827	8.03
Played on 1-3 days		6349	27.91	8176	35.94
Played on 4-6 days		8457	37.18	16633	73.12
Played every day		6116	26.88	22749	100.00
Frequency Missing = 68893					

Indicator 2.5: Usually or always exhibits at least 2 of 4 positive social skills listed, age 6-17

	ind2_5_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes		60545	94.59	60545	94.59
No		3465	5.41	64010	100.00
Frequency Missing = 27632					

Indicator 2.6: Usually or always exhibits 2 or more of 4 problematic behaviors listed, age 6-17

	ind2_6_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes		4604	7.19	4604	7.19
No		59438	92.81	64042	100.00
Frequency Missing = 27600					

APPENDIX A: Unweighted Frequency Tables for Indicators and Subgroups

Indicator 2.7: Current use of medication for ADD or ADHD, age 2-17

ind2_7_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Has ADD or ADHD and using medication	3756	4.60	3756	4.60
Has ADD or ADHD, no medication	1736	2.13	5492	6.72
Does not currently have ADD or ADHD	76193	93.28	81685	100.00
Frequency Missing = 9957				

Indicator 2.7a: Current ADD/ADHD rated by parents as mild, moderate, or severe, age 2-17

ind2_7a_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Does not currently have ADD or ADHD	76193	93.31	76193	93.31
Mild	2554	3.13	78747	96.44
Moderate or severe	2906	3.56	81653	100.00
Frequency Missing = 9989				

Indicator 2.8: Prevalence of parent-reported current autism or other autism spectrum disorder, age 2-17

ind2_8_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Never had an autism spectrum disorder	80496	98.31	80496	98.31
Previously told, not currently	459	0.56	80955	98.88
Current autism or other autism spectrum disorder	921	1.12	81876	100.00
Frequency Missing = 9766				

Indicator 2.8a: Current autism or other autism spectrum disorder rated by parents as mild, moderate, or severe, age 2-17

ind2_8a_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Does not currently have autism spectrum disorder	80955	98.89	80955	98.89
Mild	497	0.61	81452	99.49
Moderate	324	0.40	81776	99.89
Severe	91	0.11	81867	100.00
Frequency Missing = 9775				

Indicator 2.9: Use of medication for ADD/ADHD or for difficulty with emotions, concentration or behavior, past 12 months, age 2-17

ind2_9_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	76291	93.08	76291	93.08
Yes	5676	6.92	81967	100.00
Frequency Missing = 9675				

APPENDIX A: Unweighted Frequency Tables for Indicators and Subgroups

SECTION 3: Health Insurance Coverage

Indicator 3.1: Current health insurance status

ind3_1_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Insured	84651	92.56	84651	92.56
Not insured	6808	7.44	91459	100.00
Frequency Missing = 183				

Indicator 3.2: Consistency of children's health insurance coverage over previous 12 months

	ind3_2_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Uninsured at any time or currently uninsured		10880	11.91	10880	11.91
Insured continuously AND currently insured		80472	88.09	91352	100.00
Frequency Missing = 290					

Indicator 3.3: Current health insurance status and type of insurance

	ind3_3_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Public insurance such as Medicaid or SCHIP		19748	21.77	19748	21.77
Private insurance such as employer or self-insured		64165	70.73	83913	92.50
Currently uninsured		6808	7.50	90721	100.00
Frequency Missing = 921					

Indicator 3.4: Insurance plan usually or always meets all of three criteria, children who are currently insured

	ind3_4_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
YES, coverage is adequate		64726	76.47	64726	76.47
No, not adequate		19919	23.53	84645	100.00
Frequency Missing = 6997					

SECTION 4: Health Care Access and Quality

Indicator 4.1: Visited a health care professional for preventive services, past 12 months

	ind4_1_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes, one or more visits		79667	87.72	79667	87.72
NO visits		11149	12.28	90816	100.00
Frequency Missing = 826					

Indicator 4.2: Visited a dentist for preventive services, past 12 months, age 1-17

	ind4_2_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes, one or more visits		70488	81.46	70488	81.46
NO visits		16044	18.54	86532	100.00
Frequency Missing = 5110					

APPENDIX A: Unweighted Frequency Tables for Indicators and Subgroups

Indicator 4.3: Received preventive health and dental care in past 12 months

	ind4_3_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Did not receive one or both		24427	26.96	24427	26.96
Received BOTH medical and dental		66180	73.04	90607	100.00
Frequency Missing = 1035					

Indicator 4.5: Received services from a mental health professional for emotional, behavioral or developmental problems, past 12 months, age 2-17

	ind4_5_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes		4044	64.62	4044	64.62
No		2214	35.38	6258	100.00
Frequency Missing = 85384					

Indicator 4.6a: Health care delayed or not received, past 12 months

	ind4_6a_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No unmet health needs		86229	94.22	86229	94.22
Unmet need for one or more type		5291	5.78	91520	100.00
Frequency Missing = 122					

Indicator 4.8: Children whose health care meets criteria for all 5 components of medical home: personal doctor or nurse, usual source of care, family centered care, getting referrals when needed, and effective care coordination when needed

	ind4_8_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
One or more criteria not met		33669	38.23	33669	38.23
Met all Medical Home criteria		54393	61.77	88062	100.00
Frequency Missing = 3580					

Indicator 4.9: Children who have at least one personal doctor or nurse (PDN)

	ind4_9_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes, one or more		85177	93.21	85177	93.21
No personal doctor or nurse		6203	6.79	91380	100.00
Frequency Missing = 262					

Indicator 4.9a: Children who have a usual place for care when sick or need health advice

	ind4_9a_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No, criteria not met		4635	5.07	91444	100.00
Yes, has usual place		86809	94.93	86809	94.93
Frequency Missing = 198					

Indicator 4.9b: Children whose health care providers meet all criteria for Family-centered care (FCC), had at least one health service in past 12 months

	ind4_9b_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No, criteria not met		24461	28.12	24461	28.12
Yes, met FCC criteria		62528	71.88	86989	100.00
Frequency Missing = 4653					

APPENDIX A: Unweighted Frequency Tables for Indicators and Subgroups

Indicator 4.9c: Problems getting referrals needed to see doctors or receive services, past 12 months

ind4_9c_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No referrals needed	76297	83.51	76297	83.51
No problems	12527	13.71	88824	97.22
Small or big problems	2538	2.78	91362	100.00

Frequency Missing = 280

Indicator 4.9d: Received effective care coordination help when needed

ind4_9d_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No, needed but did not receive	11264	12.44	11264	12.44
Yes, received effective coordination	26742	29.52	38006	41.96
No need or less than 2 service types	52573	58.04	90579	100.00

Frequency Missing = 1063

Indicator 4.12: Needed or received specialist care and problems getting it, past 12 months

ind4_12_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Not needed	65880	72.05	65880	72.05
No problem	20144	22.03	86024	94.08
Small or big problem	5413	5.92	91437	100.00

Frequency Missing = 205

Indicator 4.12a: Saw a specialist other than a mental health professional, past 12 months

ind4_12a_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	69061	75.47	69061	75.47
Yes	22447	24.53	91508	100.00

Frequency Missing = 134

Indicator 4.14: Screened for parent concerns by a health provider, past 12 months, age 0-5 and had health services

ind4_14_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	13518	51.08	13518	51.08
Yes	12944	48.92	26462	100.00

Frequency Missing = 65180

Indicator 4.16: Received complete standardized developmental and behavioral screening during a health care visit, age 10 months-5 years

ind4_16_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	4310	19.35	4310	19.35
No	17960	80.65	22270	100.00

Frequency Missing = 69372

APPENDIX A: Unweighted Frequency Tables for Indicators and Subgroups

SECTION 5: Community and School Activities

Indicator 5.1a: Individualized Family Services Plan (IFSP) or Individualized Education Program (IEP) for developmental problems, age 1-5

ind5_1a_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	21616	95.22	21616	95.22
Yes	1086	4.78	22702	100.00
Frequency Missing = 68940				

Indicator 5.1b: Individualized Education Program (IEP) for health, behavioral, or learning problems, age 6-17

ind5_1b_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	56776	88.97	56776	88.97
Yes	7038	11.03	63814	100.00
Frequency Missing = 27828				

Indicator 5.2: Repeated any grades in school since starting kindergarten, age 6-17

ind5_2_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	5546	8.67	5546	8.67
No	58422	91.33	63968	100.00
Frequency Missing = 27674				

Indicator 5.2a: Engaged in school - cares about doing well and does homework, past month, age 6-17

ind5_2ar_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Never, rarely, sometimes on one or both	12037	18.80	12037	18.80
Usually on one or both	21115	32.97	33152	51.77
Always on both	30882	48.23	64034	100.00
Frequency Missing = 27608				

Indicator 5.3: Participation in organized activities outside of school, age 6-17

ind5_3_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	55005	85.94	55005	85.94
No	9001	14.06	64006	100.00
Frequency Missing = 27636				

Indicator 5.4: Frequency of participation in volunteer work or community service, past 12 months, age 12-17

ind5_4_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Never	6341	17.53	6341	17.53
A few times a year	15510	42.89	21851	60.42
A few times a month	8900	24.61	30751	85.03
Once a week or more	5412	14.97	36163	100.00
Frequency Missing = 55479				

APPENDIX A: Unweighted Frequency Tables for Indicators and Subgroups

Indicator 5.5: Hours spent working for pay, past week, age 12-17

ind5_5_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No work for pay	21306	59.11	21306	59.11
Up to 9 hours	9181	25.47	30487	84.58
10 hours or more	5557	15.42	36044	100.00

Frequency Missing = 55598

Indicator 5.6: Time spent reading for pleasure on an average weekday, age 6-17

ind5_6_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
None	9977	15.84	9977	15.84
30 minutes or less	26807	42.57	36784	58.41
31-60 minutes	15581	24.74	52365	83.15
More than 1 hour	10610	16.85	62975	100.00

Frequency Missing = 28667

Indicator 5.7: How often do children attend religious services

	ind5_7_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Never		18917	20.78	18917	20.78
More than once a year but less than once a month		9308	10.23	28225	31.01
At least once a month but less than once a week		15598	17.14	43823	48.14
Once a week or more		47207	51.86	91030	100.00

Frequency Missing = 612

SECTION 6: Family Health and Activities

Indicator 6.1: Physical health status of mother, children living with biological, step, adopted or foster mother

ind6_1_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Excellent/very good	59558	69.66	59558	69.66
Good	18381	21.50	77939	91.15
Fair/poor	7565	8.85	85504	100.00

Frequency Missing = 6138

Indicator 6.1a: Among children living with mother, days in past week when mother engaged in vigorous physical activity for at least 20 minutes

ind6_1a_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
None	19752	23.24	19752	23.24
1-2 days	20353	23.95	40105	47.18
3-5 days	34292	40.35	74397	87.53
6-7 days	10599	12.47	84996	100.00

Frequency Missing = 6646

APPENDIX A: Unweighted Frequency Tables for Indicators and Subgroups

Indicator 6.1b: Physical health status of father, children living with biological, step, adopted or foster father

ind6_1b_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Excellent/Very Good	53195	73.13	53195	73.13
Good	14987	20.60	68182	93.74
Fair/Poor	4555	6.26	72737	100.00

Frequency Missing = 18905

Indicator 6.1c: Among children living with father, days in past week when father engaged in vigorous physical activity for at least 20 minutes

ind6_1c_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
None	13377	18.58	13377	18.58
1-2 days	14961	20.78	28338	39.37
3-5 days	29376	40.81	57714	80.18
6-7 days	14266	19.82	71980	100.00

Frequency Missing = 19662

Indicator 6.2: Mental and emotional health status of mother, children living with mother

ind6_2_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Excellent/very good	64499	75.49	64499	75.49
Good	16000	18.73	80499	94.22
Fair/poor	4940	5.78	85439	100.00

Frequency Missing = 6203

Indicator 6.2a: Mental and emotional health status of father, children living with father

ind6_2a_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Excellent/very good	58409	80.39	58409	80.39
Good	11443	15.75	69852	96.14
Fair/poor	2807	3.86	72659	100.00

Frequency Missing = 18983

Indicator 6.3: Mother's overall physical AND mental-emotional health status, children living with biological, step, adopted or foster mother

ind6_3_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
One or both NOT excellent/very good	32249	37.77	32249	37.77
BOTH are excellent/very good	53138	62.23	85387	100.00

Frequency Missing = 6255

Indicator 6.3a: Father's overall physical AND mental-emotional health status, children living with biological, step, adopted or foster father

ind6_3a_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
One or both NOT excellent/very good	23924	32.94	23924	32.94
BOTH are excellent/very good	48708	67.06	72632	100.00

Frequency Missing = 19010

APPENDIX A: Unweighted Frequency Tables for Indicators and Subgroups

Indicator 6.4: Living in household in which someone uses cigarettes, cigars, or pipe tobacco

ind6_4_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	68587	75.40	68587	75.40
Yes	22383	24.60	90970	100.00
Frequency Missing = 672				

Indicator 6.4a: Whether tobacco smoker lives in household and, if so, exposure to secondhand smoke inside home

	ind6_4a_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Non-smoking household		68587	75.40	68587	75.40
Smoker present but no smoking inside house		15943	17.53	84530	92.93
Smoker present and smoking occurs inside house		6431	7.07	90961	100.00
Frequency Missing = 681					

Indicator 6.5: Living in 'working poor' household - income below poverty level and someone employed all year

ind6_5_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	77674	92.81	77674	92.81
Yes	6017	7.19	83691	100.00
Frequency Missing = 7951*				

** See Appendix C for information on imputation of missing income level values.*

Indicator 6.6: Number of days children went on outings with family members, past week, age 0-5

ind6_6_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No days	647	2.35	647	2.35
1-3 days	11905	43.26	12552	45.61
4-6 days	10779	39.17	23331	84.78
Every day	4187	15.22	27518	100.00
Frequency Missing = 64124				

Indicator 6.7: Number of days family members read stories to children, past week, age 0-5

ind6_7_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No days	1516	5.53	1516	5.53
1 or 2 days	2588	9.44	4104	14.97
3 or 4 days	4498	16.40	8602	31.37
5 or 6 days	3733	13.61	12335	44.98
Every day	15087	55.02	27422	100.00
Frequency Missing = 64220				

Indicator 6.7a: Number of days family members sang or told stories to children, past week, age 0-5

ind6_7a_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No days	778	2.84	778	2.84
1 or 2 days	1724	6.28	2502	9.12
3 or 4 days	3756	13.69	6258	22.81
5 or 6 days	3592	13.09	9850	35.90
Every day	17587	64.10	27437	100.00
Frequency Missing = 64205				

APPENDIX A: Unweighted Frequency Tables for Indicators and Subgroups

Indicator 6.8: Number of days all household family members shared a meal, past week

ind6_8_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No days	3522	3.85	3522	3.85
1-3 days	17824	19.50	21346	23.36
4-6 days	30532	33.41	51878	56.76
Every day	39514	43.24	91392	100.00

Frequency Missing = 250

Indicator 6.9: Number of nights children had enough sleep, past week, age 6-17

ind6_9_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No nights	1692	2.67	1692	2.67
1-3 nights	4049	6.38	5741	9.05
4-6 nights	19573	30.85	25314	39.90
Every night	38128	60.10	63442	100.00

Frequency Missing = 28200

Indicator 6.10: Hours spent watching TV or videos or playing video games on an average weekday, age 6-17

ind6_10_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
None	3702	5.81	3702	5.81
1 hour or less	29239	45.92	32941	51.73
Between 1 and 4 hours	24543	38.54	57484	90.27
4 hours or more	6196	9.73	63680	100.00

Frequency Missing = 27962

Indicator 6.10a: Time spent watching TV or videos, age 1-5

ind6_10a_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
None	1954	8.62	1954	8.62
1 hour or less	8929	39.40	10883	48.02
Between 1 and 4 hours	9256	40.84	20139	88.86
4 hours or more	2524	11.14	22663	100.00

Frequency Missing = 68979

Indicator 6.10b: Television set in child's bedroom, age 6-17

ind6_10b_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	30611	47.78	30611	47.78
No	33457	52.22	64068	100.00

Frequency Missing = 27574

Indicator 6.11: Spent any time at home without an adult or teenager present, past week, age 6-11

ind6_11_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	24567	88.67	24567	88.67
Yes	3138	11.33	27705	100.00

Frequency Missing = 63937

APPENDIX A: Unweighted Frequency Tables for Indicators and Subgroups

Indicator 6.12: Parents usually or always felt child is much harder to care for than other children, bothered by child's behavior, or angry with child, past month

ind6_12_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
None	83985	91.84	83985	91.84
One or more	7467	8.16	91452	100.00
Frequency Missing = 190				

Indicator 6.13: Number of times parents had to make last-minute changes in child care arrangements, past month, age 0-5

ind6_13_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Did not need/use child care	8892	32.33	8892	32.33
None	11597	42.16	20489	74.49
1-2 times	4901	17.82	25390	92.31
3 or more times	2116	7.69	27506	100.00
Frequency Missing = 64136				

Indicator 6.14: Child care problems affected employment of family members, past 12 months, age 0-5

ind6_14_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	24556	89.16	24556	89.16
Yes	2987	10.84	27543	100.00
Frequency Missing = 64099				

Indicator 6.15: Family members had problems with child care arrangements during the past month OR employment affected by child care problems during the past 12 months, age 0-5

ind6_15_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Did not need/use child care	8019	29.14	8019	29.14
Neither type	10748	39.06	18767	68.20
One or both	8751	31.80	27518	100.00
Frequency Missing = 64124				

Indicator 6.16a: Ten or more hours of child care per week provided by non-relatives (e.g., day care center, preschool, nanny) or relatives other than parents, age 0-5

ind6_16a_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Neither	11418	41.43	11418	41.43
Non-relatives	9503	34.48	20921	75.91
Relatives	3793	13.76	24714	89.67
BOTH types of child care	2847	10.33	27561	100.00
Frequency Missing = 64081				

Indicator 6.16b: Spends 10 or more hours per week in child care with relatives or non-relatives, age 0-5

ind6_16b_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	11418	41.43	11418	41.43
Yes	16143	58.57	27561	100.00
Frequency Missing = 64081				

APPENDIX A: Unweighted Frequency Tables for Indicators and Subgroups

SECTION 7: Neighborhood Safety and Support

Indicator 7.1: Neighborhood is supportive in at least 3 of 4 ways - people help each other out, neighbors look out for each others' children, parents feel they can count on neighbors, parents trust neighbors to help if their child is hurt or upset

ind7_1_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	12452	13.84	12452	13.84
Yes	77530	86.16	89982	100.00
Frequency Missing = 1660				

Indicator 7.2: Parents feel children are safe in their community or neighborhood

ind7_2_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Never	1694	1.87	1694	1.87
Sometimes	8057	8.89	9751	10.76
Usually or always	80881	89.24	90632	100.00
Frequency Missing = 1010				

Indicator 7.3: Parents feel children are safe at school, age 6-17

ind7_3_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Never	406	0.66	406	0.66
Sometimes	4425	7.16	4831	7.82
Usually or always	56933	92.18	61764	100.00
Frequency Missing = 29878				

Indicator 7.4: Of four types of amenities (sidewalks or walking paths, park or playground, recreation or community center, library or bookmobile), number present in neighborhood

ind7_4_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
None	4289	4.82	4289	4.82
One of 4 types	6850	7.70	11139	12.53
Two of 4 types	13273	14.93	24412	27.46
Three of 4 types	22933	25.79	47345	53.25
All 4 amenities	41561	46.75	88906	100.00
Frequency Missing = 2736				

Indicator 7.5: Of three types of detracting elements (litter or garbage, poorly kept housing, vandalism), number present in neighborhood

ind7_5_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
None	65751	72.69	65751	72.69
One of 3 types	16089	17.79	81840	90.48
Two of 3 types	5663	6.26	87503	96.74
All 3 detractors	2950	3.26	90453	100.00
Frequency Missing = 1189				

APPENDIX A: Unweighted Frequency Tables for Indicators and Subgroups

SUBGROUPS for Stratification

Age of child - 3 groups

age3_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0-5 yrs old	27566	30.08	27566	30.08
6-11 yrs old	27792	30.33	55358	60.41
12-17 yrs old	36284	39.59	91642	100.00

Age of child - 5 groups

Age5_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0-3 yrs old	18294	19.96	18294	19.96
4-7 yrs old	18310	19.98	36604	39.94
8-11 yrs old	18754	20.46	55358	60.41
12-14 yrs old	16524	18.03	71882	78.44
15-17 yrs old	19760	21.56	91642	100.00

Sex of child

sex_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Male	47535	51.93	47535	51.93
Female	43997	48.07	91532	100.00

Frequency Missing = 110

Race and Hispanic ethnicity

race5_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Hispanic, any race	11523	12.79	11523	12.79
White, non-Hispanic	61377	68.12	72900	80.91
Black, non-Hispanic	8873	9.85	81773	90.76
Multiracial, non-Hispanic	4329	4.80	86102	95.57
Other, non-Hispanic	3994	4.43	90096	100.00

Frequency Missing = 1546

Primary household language for Hispanic and Latino children

hisplang_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Hispanic, non-English HH	4937	5.48	4937	5.48
Hispanic, English HH	6554	7.28	11491	12.76
Non-Hispanic child	78558	87.24	90049	100.00

Frequency Missing = 1593

Type of family structure in household

famstruct_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Two parent, biological or adopted	64095	70.36	64095	70.36
Two parent, step family	6525	7.16	70620	77.52
Single mother, no father present	14726	16.17	85346	93.69
Other family type	5749	6.31	91095	100.00

Frequency Missing = 547

APPENDIX A: Unweighted Frequency Tables for Indicators and Subgroups

Household income level expressed as percentage of Federal Poverty Level (FPL)

povlev4_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
< 100% FPL	9539	11.38	9539	11.38
100-199% FPL	14105	16.83	23644	28.21
200-399% FPL	28500	34.00	52144	62.21
400% or more FPL	31681	37.79	83825	100.00
Frequency Missing = 7817*				

Household income level grouped by SCHIP income criteria

povSCHIP_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
< 199% FPL	23644	28.21	23644	28.21
200-299% FPL	15301	18.25	38945	46.46
300-399% FPL	13199	15.75	52144	62.21
400% or more FPL	31681	37.79	83825	100.00
Frequency Missing = 7817*				

** See Appendix C for information on imputation of missing income level values.*

CSHCN Screener - Children with Special Health Care Needs based on ongoing health conditions resulting in one or more of 5 health consequences

metlwi_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
CSHCN	18352	20.03	18352	20.03
Non-CSHCN	73290	79.97	91642	100.00

CSHCN Grouped by Type and Complexity of Special Health Care Needs

def_4	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Non-CSHCN	73290	79.97	73290	79.97
Func limits (only or w/ any other)	3903	4.26	77193	84.23
Rx meds ONLY	7571	8.26	84764	92.49
Service use ONLY	2609	2.85	87373	95.34
Rx meds AND service use	4269	4.66	91642	100.00

Appendix B: Medical Home Subcomponents



APPENDIX B: Unweighted Frequency Tables for Medical Home Variables

**Measuring Medical Home using Data Elements from the
2007 National Survey of Children’s Health (NSCH)**

SAS scoring program variable names for the five sub-component scores and associated interim variables used to derive the Medical Home composite measure

2007 NSCH		
	SAS Variable names	Survey items or interim variables used to construct
Meet overall criteria for having a Medical Home:	MH_COMP (ind4_8_07)	[PDN; FAMCENT; NOREFPRB; USUALS; CARECOOR]
ESTABLISHED RELATIONSHIP WITH A SPECIFIC PROVIDER		
1) <u>Child has at least one “personal doctor or nurse”</u>	PDN	K4q04
ACCESSIBLE	<i>Not assessed by the survey</i>	
FAMILY CENTERED		
2) <u>Child’s doctors and other health providers do each of the following:</u>	FAMCENT	[TIME;LISTEN;SENSITIV; INFO; PARTNER2; INTERPRET]
a) <u>Usually or always</u> spend enough time with child and parent	TIME	K5q40
b) <u>Usually or always</u> listen carefully to child and parent	LISTEN	K5q41
c) <u>Usually or always</u> sensitive to family’s values and customs	SENSITIV	K5q42
d) <u>Usually or always</u> provide needed information	INFO	K5q43
e) <u>Usually or always</u> make family feel like partner in child’s care	PARTNER	K5q44
f) <i>IF needed</i> , interpreter services are <u>usually or always</u> available	INTERPRET	K5q45; K5q46
CONTINUOUS	--	--
COMPREHENSIVE		
3) <u>IF needed, no problems obtaining referrals</u>	NOREFPRB	K5q10, K5q11
4) <u>Usual source(s) of care</u>	USUALS	K4q01; K4q02r
COORDINATED		
5) <u>Gets effective care coordination when needed</u>	CARECOOR	[DRCOMM_SAT; OTHCOMM; CAREHELP]
a) <i>Needed and usually got</i> extra help with care coordination	CAREHELP	K5q20r, K5q21r; K5q22
b) <i>IF needed, very satisfied</i> with communication btw doctors	DRCOMM_SAT	K5q30;
c) <i>IF needed, very satisfied</i> with how doctors communicate with school or other programs the child attends	OTHCOMM	K5q31; K5q32
COMPASSIONATE	<i>Assessed under the Family Centered Care component</i>	
CULTURALLY EFFECTIVE	<i>Assessed under the Family Centered Care component</i>	

APPENDIX B: Unweighted Frequency Tables for Medical Home Variables

PERSONAL DOCTOR OR NURSE

Personal Doctor or Nurse sub-component of MEDICAL HOME composite measure

pdn	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Do not have personal dr or nurse	6203	6.79	6203	6.79
Yes, has personal dr or nurse	85177	93.21	91380	100.00
Frequency Missing = 262				

FAMILY-CENTERED CARE

Doctors usually or always spend enough time, past 12 months

time	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Sometimes/never	14933	16.43	14933	16.43
Always/usually	73499	80.85	88432	97.28
Did not see doctor	2472	2.72	90904	100.00
Frequency Missing = 738				

Doctors usually or always listen carefully, past 12 months

listen	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Sometimes/never	7802	8.57	7802	8.57
Always/usually	80807	88.72	88609	97.29
Did not see doctor	2472	2.71	91081	100.00
Frequency Missing = 561				

Doctors are usually or always sensitive to values and customs

sensitiv	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Sometimes/never	7313	8.05	7313	8.05
Always/usually	81019	89.22	88332	97.28
Did not see doctor	2472	2.72	90804	100.00
Frequency Missing = 838				

Doctors usually or always provide needed information, past 12 months

info	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Sometimes/never	11591	12.73	11591	12.73
Always/usually	76955	84.55	88546	97.28
Did not see doctor	2472	2.72	91018	100.00
Frequency Missing = 624				

APPENDIX B: Unweighted Frequency Tables for Medical Home Variables

Doctors usually or always make the family feel like a partner, past 12 months

partner	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Sometimes/never	9380	10.30	9380	10.30
Always/usually	79242	86.99	88622	97.29
Did not see doctor	2472	2.71	91094	100.00
Frequency Missing = 548				

An interpreter is usually or always available when needed, past 12 months

interpret	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Sometimes/never	733	0.80	733	0.80
Always/usually	1254	1.37	1987	2.17
Did not see doctor	89647	97.83	91634	100.00
Frequency Missing = 8				

Family-centered care sub-component of MEDICAL HOME measure

famcent	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Does not have FCC	24461	27.34	24461	27.34
Yes, has FCC	62528	69.89	86989	97.24
Did not see doctor	2472	2.76	89461	100.00
Frequency Missing = 2181				

GETTING NEEDED REFERRALS

Getting Needed Referrals sub-component of MEDICAL HOME composite measure

norefprb	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Big or small problem	2538	2.78	2538	2.78
No problem	12527	13.71	15065	16.49
No referral needed	76297	83.51	91362	100.00
Frequency Missing = 280				

USUAL SOURCES OF CARE

Usual Sources for Sick and Well Care sub-component of MEDICAL HOME composite measure

usuals	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No usual source	4635	5.07	4635	5.07
Yes, has usual source	86809	94.93	91444	100.00
Frequency Missing = 198				

APPENDIX B: Unweighted Frequency Tables for Medical Home Variables

EFFECTIVE CARE COORDINATION

Received counseling or tx from mental hlth professional, last 12 mos

K4Q22R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	74669	91.19	74669	91.19
Yes	7218	8.81	81887	100.00
Frequency Missing = 9755				

Doctor communication needed if specialist, MH, PT/OT/ST, sub abuse, or home hlth care used

docommneed	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No specialist or mental health	64590	70.50	64590	70.50
Used 1 or both	27024	29.50	91614	100.00
Frequency Missing = 28				

Level of satisfaction with doctor to doctor communication

drcomm_sat	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Less than very satisfied	7343	8.02	7343	8.02
Very satisfied	19067	20.83	26410	28.85
Not needed or did not use services	65140	71.15	91550	100.00
Frequency Missing = 92				

Needed doctor communication with school or other services

K5Q31R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	78087	88.23	78087	88.23
Yes	10420	11.77	88507	100.00
Frequency Missing = 3135				

Level of satisfaction with dr communication with school or other services

othcomm	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Less than very satisfied	3931	4.32	3931	4.32
Very satisfied	6409	7.05	10340	11.37
Not needed or did not use services	80593	88.63	90933	100.00
Frequency Missing = 709				

Does anyone help to arrange or coordinate child's health care

K5Q20R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	54816	79.84	54816	79.84
Yes	13844	20.16	68660	100.00
Frequency Missing = 22982				

APPENDIX B: Unweighted Frequency Tables for Medical Home Variables

Did parent feel could use extra help to arrange/coordinate child's health care

K5Q21R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	62770	91.34	62770	91.34
Yes	5952	8.66	68722	100.00
Frequency Missing = 22920				

Gets help with care coordination when needed

	carehelp	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Needed but did not get extra help		3948	4.32	3948	4.32
Got help with and/or extra help needed		13768	15.07	17716	19.39
Less than 2 service types or help not needed		73630	80.61	91346	100.00
Frequency Missing = 296					

Effective Care Coordination sub-component of MEDICAL HOME composite measure

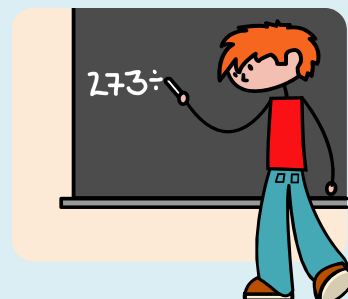
	carecoor	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No, needed but did not receive		11264	12.44	11264	12.44
Yes, received effective coordination		26742	29.52	38006	41.96
No need or less than 2 service types		52573	58.04	90579	100.00
Frequency Missing = 1063					

MEDICAL HOME Composite Measure

Indicator 4.8: Children whose health care meets criteria for all 5 components of medical home: personal doctor or nurse, usual source of care, family centered care, getting referrals when needed, and effective care coordination when needed

	ind4_8_07	Frequency	Percent	Cumulative Frequency	Cumulative Percent
One or more criteria not met		33669	38.23	33669	38.23
Met all Medical Home criteria		54393	61.77	88062	100.00
Frequency Missing = 3580					

Appendix C: Household Income Missing Values



Single Imputation for Missing Values: Household Income

Missing or Invalid Responses to Income Level Questions

The 2007 NSCH offers a rich source of data for studying the relationships between income and health and for monitoring health and health care for children at different income levels. However, as is common for household interview surveys, non-response rates tend to be high for the NSCH question on total combined household income during the previous calendar year. Answers to this question, along with answers to a question about the number of people living in the child's household, are used to create an index of income relative to the Department of Health and Human Services Federal Poverty Guidelines (FPL). If a valid response was not obtained for either of these two components, the household poverty status indicator was assigned a missing value code in the publicly released dataset. In 2007 NSCH 7,817 respondents, 8.5% of the national sample of 91,642, had missing values for Household Income.

Adjusting for Item Non-response

Imputation is one commonly used method for handling non-response data in a survey, and is typically used when missing or invalid responses exceed five percent of the total sample. In simplified terms, imputation of missing data is achieved by comparing characteristics of respondents who provided a valid response to a specified item with characteristics of the respondents who did not provide a valid response, as a basis for selection of a probable response value for each of the specified item non-respondents.

Imputation of unknown values accomplishes three things. First, it adjusts for observed differences between item non-respondents and item respondents. Second, imputed response values permit bivariate and multivariate statistical analysis without the need to exclude cases that are missing a value for the imputed variable yet have valid responses on other items. Finally, imputation offers a standardized approach to resolving non-response issues and contributes to improved consistency and comparability of analyses conducted by many researchers.

The National Center for Health Statistics offers a data file containing five sets of imputed income values for the 2007 NSCH. This file is appropriate for use with software able to accommodate multiple imputation analyses and is available free of charge (below).

The income level variables ("povlev4_07" and "povSCHIP_07") in the DRC 2007 NSCH Indicator Dataset were generated using a single imputation value from the 2007 NSCH imputed data file. Using single imputation for income tends to underestimate standard errors because it doesn't take into account the inherent uncertainty resulting from lack of knowledge about the true (unobserved) value as happens when multiple imputed values are used. On the other hand, using a single imputed income is more productive than excluding cases with missing income data from analyses. If desired, the variable POVERTY_LEVELR may be used to identify records containing imputed income values. Frequencies are shown on the next page.

Additional information about income imputation for the NSCH may be found in Appendix XII of the [2007 NSCH Methodology Report](#). A SAS data file with imputed income estimates may be downloaded from [National Survey of Children's Health](#) web page, under "View/Download" → "Dataset".

APPENDIX C: Single Imputation - Household Income

**POVERTY_LEVELR Derived - Poverty Level of this Household Based on
DHHS Poverty Guidelines - 8 Categories**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 At or below 100% of poverty	9539	10.4	11.4	11.4
	2 Above 100% to at or below 133% poverty level	4403	4.8	5.3	16.6
	3 Above 133% to at or below 150% poverty level	2718	3.0	3.2	19.9
	4 Above 150% to at or below 185% poverty level	4676	5.1	5.6	25.5
	5 Above 185% to at or below 200% poverty level	2308	2.5	2.8	28.2
	6 Above 200% to at or below 300% poverty level	15301	16.7	18.3	46.5
	7 Above 300% to at or below 400% poverty level	13199	14.4	15.7	62.2
	8 Above 400% poverty level	31681	34.6	37.8	100.0
	Total	83825	91.5	100.0	
Missing	System	7817	8.5		
Total		91642	100.0		

POVLEVEL_F Flag indicating poverty level value was imputed

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	83825	91.5	91.5	91.5
	1	7817	8.5	8.5	100.0
	Total	91642	100.0	100.0	

POVLEVEL_I Derived. Poverty level of this household based on DHHS guidelines - Imputed

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 At or below 100% of poverty	10971	12.0	12.0	12.0
	2 Above 100% to at or below 133% poverty level	4856	5.3	5.3	17.3
	3 Above 133% to at or below 150% poverty level	2991	3.3	3.3	20.5
	4 Above 150% to at or below 185% poverty level	5200	5.7	5.7	26.2
	5 Above 185% to at or below 200% poverty level	2544	2.8	2.8	29.0
	6 Above 200% to at or below 300% poverty level	16564	18.1	18.1	47.1
	7 Above 300% to at or below 400% poverty level	14228	15.5	15.5	62.6
	8 Above 400% poverty level	34288	37.4	37.4	100.0
	Total	91642	100.0	100.0	

APPENDIX C: Single Imputation - Household Income

povlev4_07 Derived. Poverty level of this household based on DHHS guidelines - Imputed; single imputation using version 3; recoded into 4 categories

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 0-99% FPL	10971	12.0	12.0	12.0
	2 100-199% FPL	15591	17.0	17.0	29.0
	3 200-399% FPL	30792	33.6	33.6	62.6
	4 400% FPL or greater	34288	37.4	37.4	100.0
	Total	91642	100.0	100.0	

povSCHIP_07 Derived. Poverty level of this household based on DHHS guidelines - Imputed; single imputation using version 3; recoded into 4 categories based on SCHIP qualification

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 0-199% FPL	26562	29.0	29.0	29.0
	2 200-299% FPL	16564	18.1	18.1	47.1
	3 300-399% FPL	14228	15.5	15.5	62.6
	4 400% FPL or greater	34288	37.4	37.4	100.0
	Total	91642	100.0	100.0	