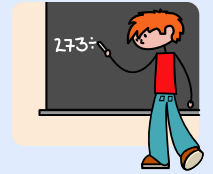# 2007 National Survey of Children's Health

SPSS CODE FOR DATA USERS:

CHILD HEALTH INDICATORS AND SUBGROUPS
Version 1.2: November 2010

Recommended Citation

Publication or presentation of any analysis involving variables constructed using code from this document should be appropriately cited. The following format is recommended:

Child and Adolescent Health Measurement Initiative (CAHMI). *2007 National Survey of Children's Health SPSS Code for Data Users,* Data Resource Center for Child and Adolescent Health, www.childhealthdata.org**.**

CONTENTS

Acknowledgements

INTRODUCTION

Purpose of the 2007 NSCH SPSS Codebook

This codebook contains documentation and SPSS 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 website 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 though 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 Sciences University in Portland, Oregon. The DRC is located online at www.childhealthdata.org.

The main 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/slaits/nsch.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. Case 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. Subsetting the survey data to a particular state does not compromise the design structure of the survey. However, subsetting 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 substate 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 <u>children whose mothers</u> 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 variables 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 interactive data query on the DRC website for the NSCH – www.nschdata.org.

Additional information on survey design and methodology

The NCHS documents each survey with a methodology report. This document includes detailed descriptions of questionnaire development, sample selection and weighting procedures, events that affected data collection, adjustments made to protect data confidentiality, 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 DRC, www.nschdata.org/content/LearnAboutTheSurvey.aspx, or the SLAITS web page for the survey, http://www.cdc.gov/nchs/slaits/nsch.htm.

Recommended Citation

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Child and Adolescent Health Measurement Initiative (CAHMI). *2007 National Survey of Children's Health SPSS Code for Data Users,* Data Resource Center for Child and Adolescent Health, www.childhealthdata.org.

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2. Blumberg SJ, Foster EB, Frasier AM, Satorius J, Skalland BJ, Nysse-Carris KL, Morrison HM, Chowdhury SR, O'Connor KS. *"Design and Operation of the National Survey of Children's Health, 2007."* National Center for Health Statistics. Vital & Health Statistics, Series 1: Program and Collection Procedures. 2009.

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2007 National Survey of Children's Health

Child Health Indicators and Subgroup Variables

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

SPSS Syntax and Annotation

```
***Indicator 1.1: Child health status***

RECODE K2Q01 (3=2) (1 thru 2=1) (4 thru 5=3) (ELSE=99) INTO ind1_1_07.
EXECUTE.

VARIABLE LABELS ind1_1_07 "Indicator 1.1: Children's overall health status".
VALUE LABELS ind1_1_07
 1 "Excellent/very good"
 2 "Good"
 3 "Fair/poor"
 99 "DK or REF" .
MISSING VALUES ind1_1_07 (99).
FORMATS ind1_1_07 (f4.0).
```

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.

SPSS Syntax and Annotation

```
***Indicator 1.2: Overall Oral Health***

COMPUTE ind1_2_07=999.
IF (K2Q01_D=1 or K2Q01_D=2) ind1_2_07=1.
IF (K2Q01_D=3) ind1_2_07=2.
IF (K2Q01_D=4 or K2Q01_D=5) ind1_2_07=3.
IF (K2Q01_D=6 or K2Q01_D=96 or K2Q01_D=97) ind1_2_07=99.
IF (AGEYR_CHILD=0)  ind1_2_07= 990.
EXECUTE .

VARIABLE LABELS ind1_2_07 "Indicator 1.2: Condition of children's teeth, age 1-17".
VALUE LABELS ind1_2_07
 1 "Excellent/very good"
 2 "Good"
 3 "Fair/poor"
 99 "DK/Ref or has no natural teeth"
 990 "Skip: age less than 1 yr"
 999 "Missing".
MISSING VALUES ind1_2_07 (99,990,999).
FORMATS ind1_2_07 (f4.0) .
```

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

SPSS Syntax and Annotation

Indicator 1.2a: Oral health problems

*STEP 1: Create variables for oral health problems
*Includes all children age 1-17, including those with no natural teeth

COMPUTE toothache_07=999.
IF (K2Q52=0) toothache_07=0.
IF (K2Q52=1) toothache_07=1.
IF (K2Q52=6) or (K2Q52=7) toothache_07=99.
IF (AGEYR_CHILD<1) toothache_07=990.
EXECUTE.
VARIABLE LABELS toothache_07 "Toothache - last 6 months - K2Q52 age 1-17".
VALUE LABELS toothache_07
  0 "No, no toothache"
  1 "Yes, had toothache"
  99 "DK/REF"
  990 "Less than 1 yr old"
  999 "Missing".
MISSING VALUES toothache_07 (99,990,999).
FORMATS toothache_07 (F4.0).

COMPUTE decay_07 = 999.
IF (K2Q53=0) decay_07=0.
IF (K2Q53=1) decay_07=1.
IF (K2Q53=6) or (K2Q53=7) decay_07=99.
IF (AGEYR_CHILD<1) decay_07=990.
EXECUTE.
VARIABLE LABELS decay_07 "Decayed teeth or cavities - last 6 months - K2Q53 age 1-17".
VALUE LABELS decay_07
  0 "No, no decay"
  1 "Yes, had decay"
  99 "DK/REF"
  990 "Less than 1 yr old"

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```
  999 "Missing".
MISSING VALUES decay_07 (99,990,999).
FORMATS decay_07 (F4.0).


COMPUTE broke_07 = 999.
IF (K2Q54=0) broke_07=0.
IF (K2Q54=1) broke_07=1.
IF (K2Q54=6) or (K2Q54=7) broke_07=99.
IF (AGEYR_CHILD<1) broke_07=990.
EXECUTE.
VARIABLE LABELS broke_07 "Broken teeth - last 6 months - K2Q54 age 1-17".
VALUE LABELS broke_07
  0 "No, no broken teeth"
  1 "Yes, had broken teeth"
  99 "DK/REF"
  990 "Less than 1 yr old"
  999 "Missing".
MISSING VALUES broke_07 (99,990,999).
FORMATS broke_07 (F4.0).


COMPUTE gums_07 = 999.
IF (K2Q55=0) gums_07=0.
IF (K2Q55=1) gums_07=1.
IF (K2Q55=6) or (K2Q55=7) gums_07=99.
IF (AGEYR_CHILD<1) gums_07=990.
EXECUTE.
VARIABLE LABELS gums_07 "Bleeding gums last 6 months - K2Q55 age 1-17".
VALUE LABELS gums_07
  0 "No, no bleeding gums"
  1 "Yes, had bleeding gums"
  99 "DK/REF"
  990 "Less than 1 yr old"
  999 "Missing".
MISSING VALUES gums_07 (99,990,999).
FORMATS gums_07 (F4.0).


*STEP 2:  Count number of oral health problems

MISSING VALUES toothache_07 decay_07 broke_07 gums_07 ().
COUNT prob_tth= toothache_07 decay_07 broke_07 gums_07 (1).
IF (toothache_07= 99) and (decay_07=99) and (broke_07=99) and (gums_07=99) prob_tth=99.
IF (toothache_07= 990) and (decay_07=990) and (broke_07=990) and (gums_07=990) prob_tth=990.
IF (toothache_07=999) or (decay_07=999) or (broke_07=999) or (gums_07=999) prob_tth=999.
EXECUTE.
VARIABLE LABELS prob_tth "Interim variable for Indicator 1.2a: 1+ health beh probs".
VALUE LABELS prob_tth
  0 "No oral health problems"
  1 "One oral health problem"
  2 "Two oral health problems"
  3 "Three oral health problems"
  4 "Four oral health problems"
  99 "DK/REF to both questions"
  990 "Less than 1 yr old"
  999 "Missing to any of 4 questions".
FORMATS prob_tth (F4.0).
```

*Indicator 1.2a: Oral health problems

```
COMPUTE ind1_2a_07 = 999.
IF (prob_tth=0) ind1_2a_07 = 0.
IF (prob_tth=1) ind1_2a_07 =1.
IF (prob_tth=2) or (prob_tth=3) or (prob_tth=4) ind1_2a_07 =2.
IF (prob_tth=99) ind1_2a_07 = 99.
IF (prob_tth=990) ind1_2a_07 = 990.
IF (prob_tth=999) ind1_2a_07 = 999.
EXECUTE.

VARIABLE LABELS ind1_2a_07 "Indicator 1.2a: Two or more oral health problems, past 6 months, age 1-17".
VALUE LABELS ind1_2a_07
  0 "No oral health problems reported"
  1 "1 oral health problem"
  2 "2 or more oral health problems"
  99 "DK/Ref to both questions"
  990 "Less than 1 yr old"
  999 "Missing any of 4 questions".
MISSING VALUES ind1_2a_07 toothache_07 decay_07 broke_07 gums_07 (99,990,999).
FORMATS ind1_2a_07 toothache_07 decay_07 broke_07 gums_07 (F4.0).
```

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

SPSS Syntax and Annotation

```
***Indicator 1.3: Breastfed ever***

COMPUTE ind1_3_07 = K6Q40.
IF (AGEYR_CHILD>5) ind1_3_07=995.
EXECUTE.

VARIABLE LABELS ind1_3_07 "Indicator 1.3: Ever breastfed or fed breast milk, age 0-5".
VALUE LABELS ind1_3_07
  0  "No"
  1  "Yes"
  6  "DK"
  7  "REF"
  995 "Skip: age 6-17 yrs".
MISSING VALUES ind1_3_07 (6,7,995).
FORMATS ind1_3_07 (f4.0) .
```

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.

SPSS Syntax and Annotation

Indicator 1.3a: Exclusive breastfeeding

*STEP 1: Construct interim variables for infant feeding

*Breastfed for 6 months?

```
COMPUTE brstfed_stop= 999.
IF (K6Q40=0) brstfed_stop = 0.
IF (K6Q41R>=0) and (K6Q41R<180) brstfed_stop = 1.
IF (K6Q41R>=180) and (K6Q41R<=9000) brstfed_stop = 2.
IF (K6Q41R = 9995) brstfed_stop = 2.
IF (K6Q41R=9996) or (K6Q41R=9997) brstfed_stop = 98.
IF (AGEYR_CHILD>5) brstfed_stop = 99.
EXECUTE.
VARIABLE LABELS brstfed_stop "Completely stopped breastfeeding before or after 6 months".
VALUE LABELS brstfed_stop
  0 "Never breastfed"
  1 "Completely stopped breastfeeding before 6 mo old"
  2 "Breastfed at least 6 mo or still breastfeeding"
  98 "DK/REF age stopped breastfeeding"
  99 "Skip: > 5yrs old"
  999 "MISSING".
FORMATS brstfed_stop (f4.2).
MISSING VALUES brstfed_stop (98,99,999).

*Formula before 6 months?

COMPUTE months_formula= 999.
IF (K6Q42R>=0) and (K6Q42R<180) months_formula = 1.
IF (K6Q42R>=180) and (K6Q42R<=9000) months_formula = 2.
```

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```
IF (K6Q42R=9994) months_formula = 2.
IF (K6Q42R = 9996 or K6Q42R = 9997) months_formula = 98.
EXECUTE.
VARIABLE LABELS months_formula "Formula introduced before or after 6 months".
VALUE LABELS months_formula
  1 "Formula introduced before 6 mo old"
  2 "Formula introduced after 6 mo or not at all"
  98 "DK/REF age formula introduced"
  99 ""Skip: > 5yrs old"
  999 "MISSING".
FORMATS months_formula (F4.0).
MISSING VALUES months_formula (98,99,999).


*Other food before 6 months?


COMPUTE months_food= 999.
IF (K6Q43R>=0) and (K6Q43R<180) months_food = 1.
IF (K6Q43R>=180) and (K6Q43R<=9000) months_food = 2.
IF (K6Q43R=9994) months_food = 2.
IF (K6Q43R = 9996 or K6Q43R = 9997) months_food = 98.
EXECUTE.
VARIABLE LABELS months_food "Food introduced before or after 6 months".
VALUE LABELS months_food
  1 "Food introduced before 6 months"
  2 "Food introduced after 6 months or not at all"
  98 "DK/REF age other food introduced"
  99 "Skip: > 5yrs old"
  999 "MISSING".
FORMATS months_food (F4.0).
MISSING VALUES months_food (98,99,999).


*Indicator 1.3a: Breastfed exclusively for 6 months or more


COMPUTE ind1_3a_07=4.
IF (K6Q40=0) ind1_3a_07=1.
IF (brstfed_stop=2) and (months_formula=2) and (months_food=2) ind1_3a_07=2.
IF (brstfed_stop=1) or (months_formula=1) or (months_food=1) ind1_3a_07=3.
IF (K6Q40=6) or (K6Q40=7) ind1_3a_07=99.
IF (FLG_06_MNTH=1) or (AGEYR_CHILD>5) ind1_3a_07=99.
EXECUTE.


VARIABLE LABELS ind1_3a_07 "Indicator 1.3a: Exclusively breastfed or fed breast milk for first 6 months, age 6
months-5 years".
VALUE LABELS 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"
  99 "DK/REF/Age out of range".
FORMATS ind1_3a_07 (F4.0).
MISSING VALUES ind1_3a_07 (99).
```

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."

SPSS Syntax and Annotation

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

RECODE BMICLASS (sysmis=999) (ELSE=COPY) INTO ind1_4_07.
IF AGEYR_CHILD<10 ind1_4_07=990.
EXECUTE .

VARIABLE LABELS ind1_4_07 "Indicator 1.4: Weight status - BMI-for-age, 4 categories, age 10-17".
VALUE LABELS 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"
  990 "Skip: less than 10 yrs old"
  999 "Missing".
 MISSING VALUES ind1_4_07 (990, 999).
 FORMATS ind1_4_07 (f4.0).
```

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.

SPSS Syntax and Annotation

```
***Indicator 1.5: Physical activity***

COMPUTE ind1_5_07=999.
IF (K7Q41=0) ind1_5_07=1.
IF (K7Q41=1 or K7Q41=2 or K7Q41=3 ) ind1_5_07=2.
IF (K7Q41=4 or K7Q41=5 or K7Q41=6) ind1_5_07=3.
IF (K7Q41=7) ind1_5_07=4.
IF (K7Q41=96 or K7Q41=97) ind1_5_07=99.
IF AGEYR_CHILD <6 ind1_5_07= 990.
EXECUTE .

VARIABLE LABELS ind1_5_07 "Indicator 1.5: Physical activity, number of days in past week, age 6-17".
VALUE LABELS ind1_5_07
  1 "0 days"
  2 "1-3 days"
  3 "4-6 days"
  4 "Every day"
  99 "DK/REF"
  990 "Skip: age less than 6 yrs"
  999 "Missing".
MISSING VALUES ind1_5_07 (99,990,999) .
FORMATS ind1_5_07 (f4.0) .
```

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

SPSS Syntax and Annotation

Indicator 1.6: Missed school days

RECODE K7Q02R (0=1) (1 thru 5=2) (6 thru 10=3) (11 thru 240=4) (994 thru 997=99) INTO ind1_6_07.
IF AGEYR_CHILD<6 ind1_6_07=990 .
EXECUTE .

VARIABLE LABELS ind1_6_07 "Indicator 1.6: Number of school days missed, past 12 months, age 6-17".
VALUE LABELS ind1_6_07
  1 "0 days"
  2 "1-5 days"
  3 "6-10 days"
  4 "11 or more days"
  99 "DK/REF/not enrolled"
  990 "Skip: age 0-5 yrs"
  999 "Missing, age 6-17".
MISSING VALUES ind1_6_07 (99,990,999) .
FORMATS ind1_6_07 (f4.0) .

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

SPSS Syntax and Annotation

Indicator 1.7: Childhood injuries

RECODE K6Q30 (0=1) (1=2) (6=99) (7=99) INTO ind1_7_07.
IF AGEYR_CHILD>5 ind1_7_07=990.
EXECUTE.

VARIABLE LABELS ind1_7_07 "Indicator 1.7: Injuries requiring medical care, past 12 months, age 0-5".
VALUE LABELS ind1_7_07
  1 "No"
  2 "Yes"
  99 "DK/REF"
  990 "Skip: Age 6 or more yrs"
  999 "Missing" .
MISSING VALUES ind1_7_07 (99,990,999) .
FORMATS ind1_7_07 (f4.0).

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

SPSS Syntax and Annotation

Indicator 1.9: Severity of current chronic conditions

*STEP 1: Create variables for current health conditions

COMPUTE learning_07=999.
IF (K2Q30A=0) learning_07=1.
IF (K2Q30A=1 and K2Q30B=0) learning_07=2.
IF (K2Q30A=1 and K2Q30B=1) learning_07=3.
IF (K2Q30A=6 or K2Q30A=7 or K2Q30B=6 or K2Q30B=7) learning_07=99.
IF (AGEYR_CHILD<=2) learning_07=99.
EXECUTE.
COMPUTE ADHD_07=999.
IF (K2Q31A=0) ADHD_07=1.
IF (K2Q31A=1 and K2Q31B=0) ADHD_07=2.
IF (K2Q31A=1 and K2Q31B=1) ADHD_07=3.
IF (K2Q31A=6 or K2Q31A=7 or K2Q31B=6 or K2Q31B=7) ADHD_07=99.
IF (AGEYR_CHILD<=1) ADHD_07=99.
EXECUTE.

```
COMPUTE depress_07=999.
IF (K2Q32A=0) depress_07=1.
IF (K2Q32A=1 and K2Q32B=0) depress_07=2.
IF (K2Q32A=1 and K2Q32B=1) depress_07=3.
IF (K2Q32A=6 or K2Q32A=7 or K2Q32B=6 or K2Q32B=7) depress_07=99.
IF (AGEYR_CHILD<=1) depress_07=99.
EXECUTE.
COMPUTE anxiety_07=999.
IF (K2Q33A=0) anxiety_07=1.
IF (K2Q33A=1 and K2Q33B=0) anxiety_07=2.
IF (K2Q33A=1 and K2Q33B=1) anxiety_07=3.
IF (K2Q33A=6 or K2Q33A=7 or K2Q33B=6 or K2Q33B=7) anxiety_07=99.
IF (AGEYR_CHILD<=1) anxiety_07=99.
EXECUTE.
COMPUTE conduct_07=999.
IF (K2Q34A=0) conduct_07=1.
IF (K2Q34A=1 and K2Q34B=0) conduct_07=2.
IF (K2Q34A=1 and K2Q34B=1) conduct_07=3.
IF (K2Q34A=6 or K2Q34A=7 or K2Q34B=6 or K2Q34B=7) conduct_07=99.
IF (AGEYR_CHILD<=1) conduct_07=99.
EXECUTE.
COMPUTE autism_07=999.
IF (K2Q35A=0) autism_07=1.
IF (K2Q35A=1 and K2Q35B=0) autism_07=2.
IF (K2Q35A=1 and K2Q35B=1) autism_07=3.
IF (K2Q35A=6 or K2Q35A=7 or K2Q35B=6 or K2Q35B=7) autism_07=99.
IF (AGEYR_CHILD<=1) autism_07=99.
EXECUTE.
COMPUTE devdelay_07=999.
IF (K2Q36A=0) devdelay_07=1.
IF (K2Q36A=1 and K2Q36B=0) devdelay_07=2.
IF (K2Q36A=1 and K2Q36B=1) devdelay_07=3.
IF (K2Q36A=6 or K2Q36A=7 or K2Q36B=6 or K2Q36B=7) devdelay_07=99.
IF (AGEYR_CHILD<=1) devdelay_07=99.
EXECUTE.
COMPUTE speech_07=999.
IF (K2Q37A=0) speech_07=1.
IF (K2Q37A=1 and K2Q37B=0) speech_07=2.
IF (K2Q37A=1 and K2Q37B=1) speech_07=3.
IF (K2Q37A=6 or K2Q37A=7 or K2Q37B=6 or K2Q37B=7) speech_07=99.
IF (AGEYR_CHILD<=1) speech_07=99.
EXECUTE.
COMPUTE tourette_07=999.
IF (K2Q38A=0) tourette_07=1.
IF (K2Q38A=1 and K2Q38B=0) tourette_07=2.
IF (K2Q38A=1 and K2Q38B=1) tourette_07=3.
IF (K2Q38A=6 or K2Q38A=7 or K2Q38B=6 or K2Q38B=7) tourette_07=99.
EXECUTE.
COMPUTE asthma_07=999.
IF (K2Q40A=0) asthma_07=1.
IF (K2Q40A=1 and K2Q40B=0) asthma_07=2.
IF (K2Q40A=1 and K2Q40B=1) asthma_07=3.
IF (K2Q40A=6 or K2Q40A=7 or K2Q40B=6 or K2Q40B=7) asthma_07=99.
EXECUTE.
COMPUTE diabetes_07=999.
IF (K2Q41A=0) diabetes_07=1.
```

IF (K2Q41A=1 and K2Q41B=0) diabetes_07=2.
IF (K2Q41A=1 and K2Q41B=1) diabetes_07=3.
IF (K2Q41A=6 or K2Q41A=7 or K2Q41B=6 or K2Q41B=7) diabetes_07=99.
EXECUTE.
COMPUTE seizure_07=999.
IF (K2Q42A=0) seizure_07=1.
IF (K2Q42A=1 and K2Q42B=0) seizure_07=2.
IF (K2Q42A=1 and K2Q42B=1) seizure_07=3.
IF (K2Q42A=6 or K2Q42A=7 or K2Q42B=6 or K2Q42B=7) seizure_07=99.
EXECUTE.
COMPUTE hearing_07=999.
IF (K2Q43A=0) hearing_07=1.
IF (K2Q43A=1 and K2Q43B=0) hearing_07=2.
IF (K2Q43A=1 and K2Q43B=1) hearing_07=3.
IF (K2Q43A=6 or K2Q43A=7 or K2Q43B=6 or K2Q43B=7) hearing_07=99.
EXECUTE.
COMPUTE vision_07=999.
IF (K2Q44A=0) vision_07=1.
IF (K2Q44A=1 and K2Q44B=0) vision_07=2.
IF (K2Q44A=1 and K2Q44B=1) vision_07=3.
IF (K2Q44A=6 or K2Q44A=7 or K2Q44B=6 or K2Q44B=7) vision_07=99.
EXECUTE.
COMPUTE joints_07=999.
IF (K2Q45A=0) joints_07=1.
IF (K2Q45A=1 and K2Q45B=0) joints_07=2.
IF (K2Q45A=1 and K2Q45B=1) joints_07=3.
IF (K2Q45A=6 or K2Q45A=7 or K2Q45B=6 or K2Q45B=7) joints_07=99.
EXECUTE.
COMPUTE brain_07=999.
IF (K2Q46A=0) brain_07=1.
IF (K2Q46A=1 and K2Q46B=0) brain_07=2.
IF (K2Q46A=1 and K2Q46B=1) brain_07=3.
IF (K2Q46A=6 or K2Q46A=7 or K2Q46B=6 or K2Q46B=7) brain_07=99.
EXECUTE.
VARIABLE LABELS
  learning_07 "Current learning disability - age 3-17"/
  ADHD_07 "Current ADD or ADHD - age 2-17"/
  depress_07 "Current depression - age 2-17"/
  anxiety_07 "Current anxiety problems - age 2-17"/
  conduct_07 "Current behavioral or conduct problems - age 2-17"/
  autism_07 "Current autism/ASD - age 2-17"/
  devdelay_07 "Current developmental - age 2-17"/
  speech_07 "Current speech problems - age 2-17"/
  tourette_07 "Current Tourette Syndrome - age 0-17"/
  asthma_07 "Current asthma - age 0-17"/
  diabetes_07 "Current diabetes - age 0-17"/
  seizure_07 "Current seizure disorder - age 0-17"/
  hearing_07 "Current hearing problems - age 0-17"/
  vision_07 "Current vision problems - age 0-17"/
  joints_07 "Current bone, joint, or muscle problems - age 0-17"/
  brain_07 "Current brain injury or concussion - age 0-17".
VALUE LABELS 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
  1 "Does not have condition"
  2 "Ever told, but does not currently have condition"
  3 "Currently has condition"

```
   99 "DK/REF to both"
   999 "Missing".
 FORMATS 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 (F3.0).
 MISSING VALUES 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 ().


*STEP 2: count of current conditions


COUNT anycondition = 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 (3).
IF (learning_07>=99 and ADHD_07>=99 and depress_07>=99 and anxiety_07>=99 and conduct_07>=99
 and autism_07>=99 and devdelay_07>=99 and speech_07>=99 and tourette_07>=99 and asthma_07>=99
 and diabetes_07>=99 and seizure_07>=99 and hearing_07>=99 and vision_07>=99 and joints_07>=99
 and brain_07>=99) anycondition=99.


VARIABLE LABELS anycondition "Number of current conditions from a list of 16".
VALUE LABELS anycondition
  0 "No current chronic health conditions"
  99 "DK/REF to all".
FORMATS anycondition (F3.0).


*STEP 3: Create variables for severity of current conditions


RECODE K2Q30C K2Q31C K2Q32C K2Q33C K2Q34C K2Q35C K2Q36C K2Q37C
 K2Q38C K2Q40C K2Q41C K2Q42C K2Q43C K2Q44C K2Q45C K2Q46C
(1=0) (2 thru 3=1) (6 thru 7=99) (SYSMISS=999) INTO 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.
EXECUTE.
VARIABLE LABELS
  learning_severity "Severity of current learning disability - age 3-17"/
  ADHD_severity "Severity of current ADD or ADHD - age 2-17"/
  depress_severity "Severity of current depression - age 2-17"/
  anxiety_severity "Severity of current anxiety problems - age 2-17"/
  conduct_severity "Severity of current behavioral or conduct problems - age 2-17"/
  autism_severity "Severity of current autism/ASD - age 2-17"/
  devdelay_severity "Severity of current developmental - age 2-17"/
  speech_severity "Severity of current speech problems - age 2-17"/
  tourette_severity "Severity of current Tourette Syndrome - age 0-17"/
  asthma_severity "Severity of current asthma - age 0-17"/
  diabetes_severity "Severity of current diabetes - age 0-17"/
  seizure_severity "Severity of current seizure disorder - age 0-17"/
  hearing_severity "Severity of current hearing problems - age 0-17"/
  vision_severity "Severity of current vision problems - age 0-17"/
  joints_severity "Severity of current bone, joint, or muscle problems - age 0-17"/
  brain_severity "Severity of current brain injury or concussion - age 0-17".
 VALUE LABELS 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
  0 "Mild"
  1 "Moderate/severe"
  99 "DK/REF"
  999 "Does not have condition".
 MISSING VALUES 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 ().
FORMATS 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 (f3.0).

*STEP 4: Count health conditions reported by parents as moderate/severe

COUNT anyseverity = 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 (1).
IF (learning_severity=99 and ADHD_severity=99 and depress_severity=99 and anxiety_severity=99
 and conduct_severity=99 and autism_severity=99 and devdelay_severity=99 and speech_severity=99
 and tourette_severity=99 and asthma_severity=99 and diabetes_severity=99 and seizure_severity=99
 and hearing_severity=99 and vision_severity=99 and joints_severity=99 and brain_severity=99) anyseverity=99.
EXECUTE.
VARIABLE LABELS anyseverity "Number of current conditions rated moderate or severe by parents (from a list of 16
conditions asked)".
FORMATS anyseverity (f3.0).

COUNT checkDKseverity = 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 (99).
EXECUTE.
VARIABLE LABELS checkDKseverity "Invalid responses to severity of current condition".
FORMATS checkDKseverity (f3.0).

COMPUTE valid_severity=1.
IF (checkDKseverity=anycondition) valid_severity=0.
IF (anycondition=99) valid_severity=99.
EXECUTE.

VARIABLE LABELS valid_severity "DK/Refused to ALL current conditions".
VALUE LABELS valid_severity
  0 "No"
  1 "Yes"
  99 "DK/Ref to all".

*Indicator 1.9: Severity of current health conditions

COMPUTE ind1_9_07=99.
IF (anyseverity=0) and (anycondition=0) ind1_9_07=1.
IF (anyseverity=0) and (anycondition >=1) and (valid_severity=1) ind1_9_07 =2.
IF (anyseverity >=1) and (anycondition >=1) and (valid_severity=1) ind1_9_07 =3.
IF (anyseverity=99) and (valid_severity=99) ind1_9_07=99.
EXECUTE.

VARIABLE LABELS ind1_9_07 "Indicator 1.9: One or more current chronic conditions rated moderate/severe, from
16 conditions listed".
VALUE LABELS 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"
  99 "DK/REF to all severity rating on conditions".
FORMATS ind1_9_07 (f3.0).
MISSING VALUES ind1_9_07 (99).

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

SPSS Syntax and Annotation

Indicator 1.9a: Prevalence of chronic health conditions

*STEP 1: Create variables for current health conditions
* Individual conditions recoded to combine the "Did child ever have..." with "Do they currently have..."

```
COMPUTE learning_07=999.
IF (K2Q30A=0) learning_07=1.
IF (K2Q30A=1 and K2Q30B=0) learning_07=2.
IF (K2Q30A=1 and K2Q30B=1) learning_07=3.
IF (K2Q30A=6 or K2Q30A=7 or K2Q30B=6 or K2Q30B=7) learning_07=99.
IF (AGEYR_CHILD<=2) learning_07=99.
EXECUTE.
COMPUTE ADHD_07=999.
IF (K2Q31A=0) ADHD_07=1.
IF (K2Q31A=1 and K2Q31B=0) ADHD_07=2.
IF (K2Q31A=1 and K2Q31B=1) ADHD_07=3.
IF (K2Q31A=6 or K2Q31A=7 or K2Q31B=6 or K2Q31B=7) ADHD_07=99.
IF (AGEYR_CHILD<=1) ADHD_07=99.
EXECUTE.
COMPUTE depress_07=999.
```

IF (K2Q32A=0) depress_07=1.
IF (K2Q32A=1 and K2Q32B=0) depress_07=2.
IF (K2Q32A=1 and K2Q32B=1) depress_07=3.
IF (K2Q32A=6 or K2Q32A=7 or K2Q32B=6 or K2Q32B=7) depress_07=99.
IF (AGEYR_CHILD<=1) depress_07=99.
EXECUTE.
COMPUTE anxiety_07=999.
IF (K2Q33A=0) anxiety_07=1.
IF (K2Q33A=1 and K2Q33B=0) anxiety_07=2.
IF (K2Q33A=1 and K2Q33B=1) anxiety_07=3.
IF (K2Q33A=6 or K2Q33A=7 or K2Q33B=6 or K2Q33B=7) anxiety_07=99.
IF (AGEYR_CHILD<=1) anxiety_07=99.
EXECUTE.
COMPUTE conduct_07=999.
IF (K2Q34A=0) conduct_07=1.
IF (K2Q34A=1 and K2Q34B=0) conduct_07=2.
IF (K2Q34A=1 and K2Q34B=1) conduct_07=3.
IF (K2Q34A=6 or K2Q34A=7 or K2Q34B=6 or K2Q34B=7) conduct_07=99.
IF (AGEYR_CHILD<=1) conduct_07=99.
EXECUTE.
COMPUTE autism_07=999.
IF (K2Q35A=0) autism_07=1.
IF (K2Q35A=1 and K2Q35B=0) autism_07=2.
IF (K2Q35A=1 and K2Q35B=1) autism_07=3.
IF (K2Q35A=6 or K2Q35A=7 or K2Q35B=6 or K2Q35B=7) autism_07=99.
IF (AGEYR_CHILD<=1) autism_07=99.
EXECUTE.
COMPUTE devdelay_07=999.
IF (K2Q36A=0) devdelay_07=1.
IF (K2Q36A=1 and K2Q36B=0) devdelay_07=2.
IF (K2Q36A=1 and K2Q36B=1) devdelay_07=3.
IF (K2Q36A=6 or K2Q36A=7 or K2Q36B=6 or K2Q36B=7) devdelay_07=99.
IF (AGEYR_CHILD<=1) devdelay_07=99.
EXECUTE.
COMPUTE speech_07=999.
IF (K2Q37A=0) speech_07=1.
IF (K2Q37A=1 and K2Q37B=0) speech_07=2.
IF (K2Q37A=1 and K2Q37B=1) speech_07=3.
IF (K2Q37A=6 or K2Q37A=7 or K2Q37B=6 or K2Q37B=7) speech_07=99.
IF (AGEYR_CHILD<=1) speech_07=99.
EXECUTE.
COMPUTE tourette_07=999.
IF (K2Q38A=0) tourette_07=1.
IF (K2Q38A=1 and K2Q38B=0) tourette_07=2.
IF (K2Q38A=1 and K2Q38B=1) tourette_07=3.
IF (K2Q38A=6 or K2Q38A=7 or K2Q38B=6 or K2Q38B=7) tourette_07=99.
EXECUTE.
COMPUTE asthma_07=999.
IF (K2Q40A=0) asthma_07=1.
IF (K2Q40A=1 and K2Q40B=0) asthma_07=2.
IF (K2Q40A=1 and K2Q40B=1) asthma_07=3.
IF (K2Q40A=6 or K2Q40A=7 or K2Q40B=6 or K2Q40B=7) asthma_07=99.
EXECUTE.
COMPUTE diabetes_07=999.
IF (K2Q41A=0) diabetes_07=1.
IF (K2Q41A=1 and K2Q41B=0) diabetes_07=2.

IF (K2Q41A=1 and K2Q41B=1) diabetes_07=3.
IF (K2Q41A=6 or K2Q41A=7 or K2Q41B=6 or K2Q41B=7) diabetes_07=99.
EXECUTE.
COMPUTE seizure_07=999.
IF (K2Q42A=0) seizure_07=1.
IF (K2Q42A=1 and K2Q42B=0) seizure_07=2.
IF (K2Q42A=1 and K2Q42B=1) seizure_07=3.
IF (K2Q42A=6 or K2Q42A=7 or K2Q42B=6 or K2Q42B=7) seizure_07=99.
EXECUTE.
COMPUTE hearing_07=999.
IF (K2Q43A=0) hearing_07=1.
IF (K2Q43A=1 and K2Q43B=0) hearing_07=2.
IF (K2Q43A=1 and K2Q43B=1) hearing_07=3.
IF (K2Q43A=6 or K2Q43A=7 or K2Q43B=6 or K2Q43B=7) hearing_07=99.
EXECUTE.
COMPUTE vision_07=999.
IF (K2Q44A=0) vision_07=1.
IF (K2Q44A=1 and K2Q44B=0) vision_07=2.
IF (K2Q44A=1 and K2Q44B=1) vision_07=3.
IF (K2Q44A=6 or K2Q44A=7 or K2Q44B=6 or K2Q44B=7) vision_07=99.
EXECUTE.
COMPUTE joints_07=999.
IF (K2Q45A=0) joints_07=1.
IF (K2Q45A=1 and K2Q45B=0) joints_07=2.
IF (K2Q45A=1 and K2Q45B=1) joints_07=3.
IF (K2Q45A=6 or K2Q45A=7 or K2Q45B=6 or K2Q45B=7) joints_07=99.
EXECUTE.
COMPUTE brain_07=999.
IF (K2Q46A=0) brain_07=1.
IF (K2Q46A=1 and K2Q46B=0) brain_07=2.
IF (K2Q46A=1 and K2Q46B=1) brain_07=3.
IF (K2Q46A=6 or K2Q46A=7 or K2Q46B=6 or K2Q46B=7) brain_07=99.
EXECUTE.
VARIABLE LABELS
  learning_07 "Current learning disability - age 3-17"/
  ADHD_07 "Current ADD or ADHD - age 2-17"/
  depress_07 "Current depression - age 2-17"/
  anxiety_07 "Current anxiety problems - age 2-17"/
  conduct_07 "Current behavioral or conduct problems - age 2-17"/
  autism_07 "Current autism/ASD - age 2-17"/
  devdelay_07 "Current developmental - age 2-17"/
  speech_07 "Current speech problems - age 2-17"/
  tourette_07 "Current Tourette Syndrome - age 0-17"/
  asthma_07 "Current asthma - age 0-17"/
  diabetes_07 "Current diabetes - age 0-17"/
  seizure_07 "Current seizure disorder - age 0-17"/
  hearing_07 "Current hearing problems - age 0-17"/
  vision_07 "Current vision problems - age 0-17"/
  joints_07 "Current bone, joint, or muscle problems - age 0-17"/
  brain_07 "Current brain injury or concussion - age 0-17".
VALUE LABELS 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
  1 "Does not have condition"
  2 "Ever told, but does not currently have condition"
  3 "Currently has condition"
  99 "DK/REF to both"

```
  999 "Missing".
FORMATS 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 (F3.0).
MISSING VALUES 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 ().


*STEP 2: count of current conditions

COUNT anycondition = 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 (3).
IF (learning_07>=99 and ADHD_07>=99 and depress_07>=99 and anxiety_07>=99 and conduct_07>=99
 and autism_07>=99 and devdelay_07>=99 and speech_07>=99 and tourette_07>=99 and asthma_07>=99
 and diabetes_07>=99 and seizure_07>=99 and hearing_07>=99 and vision_07>=99 and joints_07>=99
 and brain_07>=99) anycondition=99.
VARIABLE LABELS anycondition "Number of current conditions from a list of 16".
VALUE LABELS anycondition
  0 "No current chronic health conditions"
  99 "DK/REF to all".
FORMATS anycondition (f3.0).


*Indicator 1.9a: Current chronic health conditions

COMPUTE ind1_9a_07=99.
IF (anycondition=0) ind1_9a_07=1.
IF (anycondition=1) ind1_9a_07=2.
IF (anycondition >=2) ind1_9a_07=3.
IF (anycondition=99) ind1_9a_07=99.
EXECUTE.

VARIABLE LABELS ind1_9a_07 "Indicator 1.9a: Children with 1 or more current chronic health conditions from list of
16".
VALUE LABELS ind1_9a_07
  1 "No current chronic conditions from list"
  2 "1 current chronic condition"
  3 "2 or more chronic conditions"
  99 "DK/REF to all".
MISSING VALUES ind1_9a_07 (99).
FORMATS ind1_9a_07 (f3.0).

MISSING VALUES 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 (99,999).
```

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 intefere 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.

SPSS Syntax and Annotation

Indicator 1.13: CSHCN limits on participation

RECODE K2Q61A (SYSMISS=99) (ELSE=COPY) INTO K2Q61A_r.
COUNT limits6to17=K2Q61A K2Q61B K2Q61C (1).
IF (AGEYR_CHILD>=6) and (CSHCN=1) and (K2Q61A_r=99) limits6to17=990.
IF (AGEYR_CHILD>=6) and (CSHCN=0) limits6to17=995.
IF (AGEYR_CHILD<6) limits6to17=999.
EXECUTE.
VARIABLE LABELS
  K2Q61A_r "K2Q61A with missing=99"/
  limits6to17 "How many of 3 listed activity limitations among CSHCN age 6-17?".
VALUE LABELS limits6to17
  0 "None"
  990 "Age 6-17 CSHCN, missing on all 3"
  995 "Age 6-17 non-CSHCN"
  999 "Children 5 or younger".
FORMATS limits6to17 (F4.0).

RECODE limits6to17 (990=0) (2 thru 3=2) (ELSE=COPY) INTO ind1_13_07.

VARIABLE LABELS ind1_13_07 "Indicator 1.13: Health conditions limit participation in school, organized activities, or friendships, CSHCN age 6-17".
VALUE LABELS ind1_13_07
  0 "None of 3 listed"
  1 "One activity limited"
  2 "2 or all 3 limited"
  995 "Non-CSHCN, age 6-17"
  999 "Age 0-5 years".
FORMATS ind1_13_07 (F4.0).
MISSING VALUES ind1_13_07 (995,999).

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

SPSS Syntax and Annotation

Indicator 2.1: Parent-reported concerns

*STEP 1: Compute age < 4 mos filter

RECODE K6Q02 (SYSMIS=999) (ELSE=COPY) INTO FILTER_4mos.
EXECUTE.
VARIABLE LABELS FILTER_4mos "Response to K6Q02 with missing coded in, for < 4 months age filter".

COMPUTE age_LT4mos = 0.
IF (AGEYR_CHILD = 0) and (FILTER_4mos = 999) age_LT4mos = 1.
EXECUTE.
VARIABLE LABELS age_LT4mos "Filter to identify children less than 4 mos old".
VALUE LABELS age_LT4mos
0 "4 months or older"
1 "Less than 4 months old".
FORMATS age_LT4mos (f4.0).

*STEP 2: Create count variable for parent concerns

COUNT anyconc = K6Q01 K6Q02 K6Q03 K6Q04 K6Q05 K6Q06 K6Q07 K6Q08 K6Q09 (1,2).
IF (AGEYR_CHILD >=6) anyconc = 999.
EXECUTE.
VARIABLE LABELS anyconc "Count of parent concerns".

```
COMPUTE ind2_1_07 = 99.
IF (anyconc = 0) ind2_1_07 = 1.
IF (anyconc >=1) ind2_1_07 = 2.
IF (anyconc = 999) ind2_1_07 = 99.
IF (age_LT4mos = 1) ind2_1_07 = 99.
EXECUTE.

VARIABLE LABELS ind2_1_07 "Indicator 2.1: Parent has one or more concerns about child's learning, development,
or behavior, age 4 months-5 years".
VALUE LABELS ind2_1_07
  1 "None reported"
  2 "One or more concerns"
  99 "Skip: younger than 4 mos or 6 or more yrs old".
FORMATS ind2_1_07 (f4.0).
MISSING VALUES  ind2_1_07 (99).
```

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.

SPSS Syntax and Annotation

Indicator 2.2: At risk for delay

**NOTE: Scoring code for the age group-specific AND overall results using PEDS (Parent Evaluation of Development Screener) items included in the 2007 NSCH

*STEP 1: Recode PEDS items

RECODE K6Q02 K6Q03 K6Q04 K6Q05 K6Q06 K6Q07 K6Q08 K6Q09 (1=1) (2=1) (3=0) (6=0)
  INTO express receptive hands legs behvs social self presch.
EXECUTE.

VARIABLE LABELS
  express "K6Q02 Talks and makes speech sounds"/
  receptive "K6Q03 Understands what you say"/
  hands "K6Q04 Uses hands and fingers"/
  legs "K6Q05 Uses arms and legs"/
  behvs "K6Q06 Behaves"/
  social "K6Q07 Gets along with others"/
  self "K6Q08 Learning to do things for self"/

presch "K6Q09 Learning pre-school or school skills".
VALUE LABELS express receptive hands legs behvs social self presch
  0 "Not at all concerned or DK"
  1 "A little or a lot concerned".

*STEP 2: Score predictive and non-predictive concerns for children 4 mos - 17 mos

DO IF (FLG_18_MNTH = 1).
  COMPUTE testsum2 = SUM (express, social).
  COMPUTE peds_LT18mos = testsum2.
    IF (testsum2 = 0) and ((K6Q01 = 1) or (receptive = 1) or (hands = 1) or (legs = 1) or (behvs = 1) or (self = 1)) peds_LT18mos = 1.
    IF (testsum2 = 1) peds_LT18mos=2.
    IF (testsum2 = 2) peds_LT18mos=3.
  ELSE.
    COMPUTE peds_LT18mos = testsum2.
END IF.
EXECUTE.

VARIABLE LABELS testsum2 "SUM express and social - 4 through 17 months"/
  peds_LT18mos "PEDS results for children age 4 - 17 months".
VALUE LABELS peds_LT18mos
  0 "No risk - no concerns"
  1 "Low risk - 1 or more non-predictive concerns only"
  2 "Moderate risk - 1 predictive concern"
  3 "High risk - 2 or more predictive concerns".
FORMATS peds_LT18mos (f4.0).

*STEP 3: Score predictive and non-predictive concerns for children age 18 - 35 months

DO IF ((AGEYR_CHILD <= 2) and (FLG_18_MNTH = 0)).
  COMPUTE testsum3 = SUM (express, receptive).
  COMPUTE peds_18to35mos = testsum3.
    IF (testsum3 = 0) and ((K6Q01 = 1) or (social = 1) or (hands = 1) or (legs = 1) or (behvs = 1) or (self = 1) or (presch = 1)) peds_18to35mos = 1.
    IF (testsum3 = 1) peds_18to35mos = 2.
    IF (testsum3 = 2) peds_18to35mos = 3.
    IF (testsum3 = 3) peds_18to35mos = 3.
  ELSE.
    COMPUTE peds_18to35mos = testsum3.
END IF.
EXECUTE.

VARIABLE LABELS testsum3 "SUM express and receptive - 18 through 35 months"/
  peds_18to35mos "PEDS results for children age 18 - 35 months".
VALUE LABELS peds_18to35mos
  0 "No risk - no concerns"
  1 "Low risk - 1 or more non-predictive concerns only"
  2 "Moderate risk - 1 predictive concern"
  3 "High risk - 2 or more predictive concerns".
FORMATS peds_18to35mos (f4.0).

*STEP 4: Score predictive and non-predictive concerns for children age 3 to 4 years

DO IF ((AGEYR_CHILD = 3) or (AGEYR_CHILD = 4)).
  COMPUTE testsum4 = SUM (express, receptive, legs).

```
   COMPUTE peds_3to4yrs = testsum4.
     IF (testsum4 = 0) and ((K6Q01 = 1) or (social = 1) or (hands = 1) or (behvs = 1) or (self = 1) or (presch = 1))
peds_3to4yrs = 1.
     IF (testsum4 = 1) peds_3to4yrs = 2.
     IF (testsum4 = 2) peds_3to4yrs = 3.
     IF (testsum4 = 3) peds_3to4yrs = 3.
     IF (testsum4 = 4) peds_3to4yrs = 3.
   ELSE.
     COMPUTE peds_3to4yrs = testsum4.
END IF.
EXECUTE.

VARIABLE LABELS testsum4 "SUM express, receptive, legs - 3 through 4 years"/
  peds_3to4yrs "PEDS results for children age 3 – 4 years".
VALUE LABELS peds_3to4yrs
  0 "No risk - no concerns"
  1 "Low risk - 1 or more non-predictive concerns only"
  2 "Moderate risk - 1 predictive concern"
  3 "High risk - 2 or more predictive concerns".
FORMATS peds_3to4yrs (f4.0).

*STEP 5: Score predictive and non-predictive concerns for children age 5 years

DO IF (AGEYR_CHILD =5).
   COMPUTE testsum5 = SUM (express, receptive, legs, hands, presch).
   COMPUTE peds_5yrs = testsum5.
     IF (testsum5 = 0) and ((K6Q01 = 1) or (social = 1) or (behvs = 1) or (self = 1)) peds_5yrs = 1.
     IF (testsum5 = 1) peds_5yrs = 2.
     IF (testsum5 = 2) peds_5yrs = 3.
     IF (testsum5 = 3) peds_5yrs = 3.
     IF (testsum5 = 4) peds_5yrs = 3.
     IF (testsum5 = 5) peds_5yrs = 3.
     IF (testsum5 = 6) peds_5yrs = 3.
   ELSE.
     COMPUTE peds_5yrs = testsum5.
END IF.
EXECUTE.

VARIABLE LABELS testsum5 "SUM express, receptive, legs, hands, presch - 5 years"/
  peds_5yrs "PEDS results for children 5 yrs old".
VALUE LABELS peds_5yrs
  0 "No risk - no concerns"
  1 "Low risk - 1 or more non-predictive concerns only"
  2 "Moderate risk - 1 predictive concern"
  3 "High risk - 2 or more predictive concerns".
FORMATS peds_5yrs (f4.0).

*STEP 6: Overall PEDS results

COMPUTE peds = 99.
IF (peds_LT18mos=0) or (peds_18to35mos=0) or (peds_3to4yrs=0) or (peds_5yrs=0) peds = 0.
IF (peds_LT18mos=1) or (peds_18to35mos=1) or (peds_3to4yrs=1) or (peds_5yrs=1) peds = 1.
IF (peds_LT18mos=2) or (peds_18to35mos=2) or (peds_3to4yrs=2) or (peds_5yrs=2) peds = 2.
IF (peds_LT18mos=3) or (peds_18to35mos=3) or (peds_3to4yrs=3) or (peds_5yrs=3) peds = 3.
EXECUTE.
VARIABLE LABELS peds "PEDS scoring results for risk of delay -- ages 4mos - 5yrs".
```

```
VALUE LABELS peds
   0 "Not at risk"
   1 "Low risk"
   2 "Moderate risk"
   3 "High risk"
   99 "Age less than 4 months or more than 5 years".
MISSING VALUES peds (99).


*Indicator 2.2: Risk of developmental, behavioral or social delay

RECODE peds (0 thru 1=0) (2=1) (3=2) INTO ind2_2_07.
EXECUTE.

VARIABLE LABELS ind2_2_07 "Indicator 2.2: At risk for developmental, behavioral, or social delays, age 4 months-5
years".
VALUE LABELS ind2_2_07
   0 "Low or no risk"
   1 "Moderate risk"
   2 "High risk".
FORMATS ind2_2_07 (F4.0).
```

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

SPSS Syntax and Annotation

Indicator 2.2a: Play with same age children

**NOTE: This question was asked for 0-5, but scored here only for 1-5 year olds

```
COMPUTE ind2_2a_07=999.
IF (K6Q63=0) and (AGEYR_CHILD>0) ind2_2a_07=0.
IF (K6Q63>0) and (K6Q63<=3) and (AGEYR_CHILD>0) ind2_2a_07=1.
IF (K6Q63>3) and (K6Q63<=6) and (AGEYR_CHILD>0) ind2_2a_07=2.
IF (K6Q63=7) and (AGEYR_CHILD>0) ind2_2a_07=3.
IF (K6Q63=96) or (K6Q63=97) ind2_2a_07=99.
IF (AGEYR_CHILD<1) ind2_2a_07=990.
IF (AGEYR_CHILD>5) ind2_2a_07=995.
EXECUTE.

VARIABLE LABELS ind2_2a_07 "Indicator 2.2a: Play with other children their age, number of days in past week, age
1-5".
VALUE LABELS ind2_2a_07
  0 "Did not play with other children"
  1 "Played on 1-3 days"
  2 "Played on 4-6 days"
  3 "Played every day"
  99 "DK/REF"
  990 "Less than 1 yr old"
  995 "Age 6 or older"
  999 "SYSMISS".
FORMATS ind2_2a_07 (f4.0).
MISSING VALUES ind2_2a_07 (99,990,995).
```

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.

SPSS Syntax and Annotation

Indicator 2.5: Positive social skills

*STEP 1: Recode items to assign scoring values

RECODE K7Q72 K7Q73 K7Q76 K7Q77 (1 thru 3=0) (4 thru 5=1) (6=99) (7=99) (SYSMIS=999) INTO K7Q72_r K7Q73_r K7Q76_r K7Q77_r.
EXECUTE.
VARIABLE LABELS
  K7Q72_r "K7Q72 Shows respect for teachers and neighbors"/
  K7Q73_r "K7Q73 Gets along well with other children"/
  K7Q76_r "K7Q76 Tries to understand other people's feelings"/
  K7Q77_r "K7Q77 Tries to resolve conflicts with classmates, family, or friends".
VALUE LABELS K7Q72_r K7Q73_r K7Q76_r K7Q77_r
  0 "Never/rarely/sometimes"
  1 "Usually or always"
  99 "DK/REF"
  999 "<6 yrs old or SYSMISS".

*STEP 2: Construct variable to identify and verify starting point denominator; use this variable to verify that scores are only calculated for cases with valid responses to at least 3 of the 4 items

COUNT check_pos = K7Q72_r K7Q73_r K7Q76_r K7Q77_r (99).
IF (K7Q72_r = 999) and (K7Q73_r = 999) and (K7Q76_r = 999) and (K7Q77_r = 999) check_pos = 999.
IF (AGEYR_CHILD <=5) check_pos = 99.
EXECUTE.
VARIABLE LABELS check_pos "Cases with DK/REF (99) on any of 4 positive social behavioral items".
VALUE LABELS check_pos

 0 "Answered all 4 questions"
 1 "Answered 3 of 4 questions"
 2 "Answered 2 of 4 questions"
 3 "Answered 1 of 4 questions"
 4 "DK/REF to all 4 questions"
 99 "5 yrs old and under"
 999 "SYSMIS to any of 4 questions".

*STEP 3: Count of usually/always responses

COUNT pos_behavior_07 = K7Q72_r K7Q73_r K7Q76_r K7Q77_r (1).
EXECUTE.
VARIABLE LABELS pos_behavior_07 "COUNT positive behaviors with responses of usually or always".

*Indicator 2.5: Positive social skills

COMPUTE ind2_5_07=999.
IF (check_pos<=1) and (pos_behavior_07<=1) ind2_5_07=0.
IF (check_pos<=1) and (pos_behavior_07>1) ind2_5_07=1.
IF (AGEYR_CHILD<6) ind2_5_07=990.
EXECUTE.

VARIABLE LABELS ind2_5_07 "Indicator 2.5: Usually or always exhibits at least 2 of 4 positive social skills listed, age 6-17".
VALUE LABELS ind2_5_07
 0 "No"
 1 "Yes"
 990 "Less than 6 years old"
 999 "Missing/unknown".
FORMATS ind2_5_07 (f4.0).
MISSING VALUES ind2_5_07 (990,999).

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.

SPSS Syntax and Annotation

```
***Indicator 2.6: Problematic behaviors***

*STEP 1: Recode items to assign scoring values

RECODE K7Q70 K7Q71 K7Q74 K7Q75 (1 thru 3=0) (4 thru 5=1) (6 thru 7=99) (SYSMIS=999) INTO K7Q70_r
K7Q71_r K7Q74_r K7Q75_r.
EXECUTE.
VARIABLE LABELS
  K7Q70_r "K7Q70 Argues too much"/
  K7Q71_r "K7Q71 Bullies or is cruel or mean to others"/
  K7Q74_r "K7Q74 Is disobedient"/
  K7Q75_r "K7Q75 Is stubborn, sullen, or irritable".
VALUE LABELS K7Q70_r K7Q71_r K7Q74_r K7Q75_r
  0 "Never/rarely/sometimes"
  1 "Usually or always"
  99 "DK/REF"
  999 "<6 yrs old or SYSMISS".
FORMATS K7Q70_r K7Q71_r K7Q74_r K7Q75_r (F3.0).

*STEP 2: Construct variable to identify and verify starting point denominator; use this variable to verify that scores
are only calculated for cases with valid responses to at least 3 of the 4 items

COUNT check_prob = K7Q70_r K7Q71_r K7Q74_r K7Q75_r (99).
IF (K7Q70_r = 999) and (K7Q71_r = 999) and (K7Q74_r = 999) and (K7Q75_r = 999) check_prob = 999.
IF (AGEYR_CHILD <=5) check_prob = 99.
EXECUTE.
VARIABLE LABELS check_prob "Cases with DK/REF (99) to any of 4 problematic social behavior items".
VALUE LABELS check_prob
```

  0 "Answered all 4 questions"
  1 "Answered 3 of 4 questions"
  2 "Answered 2 of 4 questions"
  3 "Answered 1 of 4 questions"
  4 "DK/REF to all 4 questions"
  99 "5 yrs old and under"
  999 "SYSMIS to any of 4 questions".

*STEP 3: Count of usually/always responses

```
COUNT neg_behavior_07 = K7Q70_r K7Q71_r K7Q74_r K7Q75_r  (1).
IF (K7Q70_r = 999) and (K7Q71_r = 999) and (K7Q74_r = 999) and (K7Q75_r = 999) neg_behavior_07 = 999.
IF (AGEYR_CHILD <=5) neg_behavior_07 = 990.
EXECUTE.
VARIABLE LABELS neg_behavior_07 "COUNT problem behaviors with response of usually or always".
```

*Indicator 2.6: Problematic behaviors

```
COMPUTE ind2_6_07=999.
IF (check_prob<=1) and (neg_behavior_07<=1) ind2_6_07=0.
IF (check_prob<=1) and (neg_behavior_07>1) ind2_6_07=1.
IF (AGEYR_CHILD<6) ind2_6_07=990.
EXECUTE.

VARIABLE LABELS ind2_6_07 "Indicator 2.6: Usually or always exhibits 2 or more of 4 problematic behaviors listed,
age 6-17".
VALUE LABELS ind2_6_07
  0 "No"
  1 "Yes"
  990 "Less than 6 years old"
  999 "Missing/unknown".
FORMATS ind2_6_07 (f4.0).
MISSING VALUES ind2_6_07 (990,999).
```

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.

SPSS Syntax and Annotation

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

COMPUTE ind2_7_07=999.
IF (K2Q31D=1) ind2_7_07=1.
IF (K2Q31D=0) ind2_7_07=2.
IF (K2Q31B=0) ind2_7_07=3.
IF (K2Q31A=0) ind2_7_07=3.
IF AGEYR_CHILD <2 ind2_7_07=990.
EXECUTE.

VARIABLE LABELS ind2_7_07 "Indicator 2.7: Current use of medication for ADD/ADHD, age 2-17".
VALUE LABELS ind2_7_07
  1 "Has ADD/ADHD and using medication"
  2 "Has ADD/ADHD, no medication"
  3 "Does not currently have ADD/ADHD"
  990 "Skip: age less than 2 yrs"
  999 "Missing/unknown" .
MISSING VALUES ind2_7_07 (990, 999).
FORMATS ind2_7_07 (f4.0).
```

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.

SPSS Syntax and Annotation

Indicator 2.7a: Severity of ADD/ADHD

*STEP 1: Create variable for prevalence of condition

COMPUTE ADHD_07 = 999.
IF (K2Q31A=0) ADHD_07=1.
IF (K2Q31A=1 and K2Q31B=0) ADHD_07=2.
IF (K2Q31A=1 and K2Q31B=1) ADHD_07=3.
IF (K2Q31A=6 or K2Q31A=7 or K2Q31B=6 or K2Q31B=7) ADHD_07=99.
IF (AGEYR_CHILD <=1) ADHD_07=99.
EXECUTE.
VARIABLE LABELS ADHD_07 "Does [child] have ADD or ADHD (age 2-17)?".
VALUE LABELS ADHD_07
  1 "Does not have condition"
  2 "Ever told, but does not currently have condition"
  3 "Currently has condition"
  99 "DK/REF to both OR less than 2 years old"
  999 "System missing".
FORMATS ADHD_07 (f3.0).

*Indicator 2.7a

COMPUTE ind2_7a_07=999.

IF (ADHD_07=1 or ADHD_07=2) ind2_7a_07=1.
IF (K2Q31C=1) ind2_7a_07=2.
IF (K2Q31C=2) ind2_7a_07=3.
IF (K2Q31C=3) ind2_7a_07=3.
EXECUTE.

VARIABLE LABELS ind2_7a_07 "Indicator 2.7a: Current ADD/ADHD rated by parents as mild, moderate, or severe, age 2-17".
VALUE LABELS ind2_7a_07
  1 "Does not currently have ADD/ADHD"
  2 "Mild"
  3 "Moderate or severe"
  999 "DK/REF or missing or less than 2 years old".
FORMATS ind2_7a_07 (f3.0).
MISSING VALUES ind2_7a_07 (999).

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.

SPSS Syntax and Annotation

Indicator 2.8: Autism spectrum disorders

*STEP 1: Create a variable of prevalence of condition

COMPUTE autism_07 = 999.
IF (K2Q35A=0) autism_07=1.
IF (K2Q35A=1 and K2Q35B=0) autism_07=2.
IF (K2Q35A=1 and K2Q35B=1) autism_07=3.
IF (K2Q35A=6 or K2Q35A=7 or K2Q35B=6 or K2Q35B=7) autism_07=99.
IF (AGEYR_CHILD <=1) autism_07=99.
EXECUTE.

VARIABLE LABELS autism_07 "Does [child] have autism, Asperger's Disorder, pervasive developmental disorder, or other autism spectrum disorder (age 2-17)?".
VALUE LABELS autism_07
  1 "Does not have condition"
  2 "Ever told, but does not currently have condition"
  3 "Currently has condition"
  99 "DK/REF to both OR less than 2 years old"

```
  999 "System missing".
FORMATS autism_07 (F3.0).

*Indicator 2.8

RECODE autism_07 (1=1) (2=2) (3=3) (99=99) (999=999) INTO ind2_8_07.
EXECUTE.

VARIABLE LABELS ind2_8_07 "Indicator 2.8: Parent-reported prevalence of current autism or other autism spectrum
disorder, age 2-17".
VALUE LABELS ind2_8_07
  1 "Never had an autism spectrum disorder"
  2 "Previously told, not currently"
  3 "Current autism or other autism spectrum disorder"
  99 "DK"
  999 "SYSMISS".
FORMATS ind2_8_07 (f3.0).
MISSING VALUES ind2_8_07 (99,999).
```

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.

SPSS Syntax and Annotation

Indicator 2.8a: Severity of autism spectrum disorder

*STEP 1: Create a variable of prevalence of condition

COMPUTE autism_07 = 999.
IF (K2Q35A=0) autism_07=1.
IF (K2Q35A=1 and K2Q35B=0) autism_07=2.
IF (K2Q35A=1 and K2Q35B=1) autism_07=3.
IF (K2Q35A=6 or K2Q35A=7 or K2Q35B=6 or K2Q35B=7) autism_07=99.
IF (AGEYR_CHILD <=1) autism_07=99.
EXECUTE.
VARIABLE LABELS autism_07 "Does [child] have autism, Asperger's Disorder, pervasive developmental disorder, or other autism spectrum disorder (age 2-17)?".
VALUE LABELS autism_07
  1 "Does not have condition"
  2 "Ever told, but does not currently have condition"
  3 "Currently has condition"

```
  99 "DK/REF to both OR less than 2 years old"
  999 "System missing".
FORMATS autism_07 (f3.0).

*STEP 2: Indicator 2.8a

COMPUTE ind2_8a_07=999.
IF (autism_07=1 or autism_07=2) ind2_8a_07=1.
IF (K2Q35C=1) ind2_8a_07=2.
IF (K2Q35C=2) ind2_8a_07=3.
IF (K2Q35C=3) ind2_8a_07=4.
EXECUTE.

VARIABLE LABELS ind2_8a_07 "Indicator 2.8a: Current autism or other autism spectrum disorder rated by parents
as mild, moderate, or severe, age 2-17".
VALUE LABELS ind2_8a_07
  1 "Does not currently have autism spectrum disorder"
  2 "Mild"
  3 "Moderate"
  4 "Severe"
  999 "DK/REF or missing or less than 2 years old".
MISSING VALUES ind2_8a_07 (999).
FORMATS ind2_8a_07 (f3.0).
```

| **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.

SPSS Syntax and Annotation

Indicator 2.9: Medication for mental or emotional problems

**NOTE: Respondents with YES on K2Q31D (ADD/ADHD meds) were not asked K4Q23. They are included in this measure.

```
COMPUTE ind2_9_07=999.
IF (K4Q23=0) ind2_9_07=0.
IF (K4Q23=1) ind2_9_07=1.
IF (K2Q31D=1) ind2_9_07=1.
IF (AGEYR_CHILD<2) ind2_9_07=995.
IF (K4Q23=6) or (K4Q23=7) ind2_9_07=99.
EXECUTE.

VARIABLE LABELS 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".
VALUE LABELS ind2_9_07
  0 "No"
  1 "Yes"
  99 "DK/REF to K4Q23"
  995 "Children under 2 years"
  999 "Missing/unknown".
FORMATS ind2_9_07 (F4.0).
MISSING VALUES ind2_9_07 (99,995,999).
```

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

SPSS Syntax and Annotation

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

COMPUTE ind3_1_07 = 999.
IF (K3Q01=0) ind3_1_07=0.
IF (K3Q01=1) ind3_1_07=1.
IF (K3Q01=6) or (K3Q01=7) ind3_1_07=99.
EXECUTE.

VARIABLE LABELS ind3_1_07 "Indicator 3.1: Current health insurance status".
VALUE LABELS ind3_1_07
0 "Not insured"
1 "Insured"
99 "DK/REF".
MISSING VALUES ind3_1_07 (99).
FORMATS ind3_1_07 (F3.0).
```

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

SPSS Syntax and Annotation

```
***Indicator 3.2: Consistent health insurance coverage***

COMPUTE ind3_2_07=999.
IF (K3Q03=1) or (ind3_1_07=0) ind3_2_07=2.
IF (K3Q03=0) ind3_2_07=1.
IF (K3Q03=6) or (K3Q03=7) ind3_2_07=99.
EXECUTE.

VARIABLE LABELS ind3_2_07 "Indicator 3.2: Consistency of children's health insurance coverage over previous 12
months".
VALUE LABELS ind3_2_07
1 "Insured continuously AND currently insured"
2 "Uninsured at any time and/or currently uninsured"
99 "DK/REF"
999 "SYSMIS".
MISSING VALUES ind3_2_07 (99, 999).
FORMATS ind3_2_07 (F3.0).
```

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

SPSS Syntax and Annotation

```
***Indicator 3.3: Insurance Type***

COMPUTE ind3_3_07 = 99.
IF (K3Q01 = 1) and (K3Q02 = 0) ind3_3_07 = 2.
IF (K3Q01 >=6 or K3Q01 = 1) and (K3Q02 = 1) ind3_3_07 = 1.
IF (K3Q01 = 0) ind3_3_07 = 3.
EXECUTE.

VARIABLE LABELS ind3_3_07 "Indicator 3.3: Current health insurance status and type of insurance".
VALUE LABELS ind3_3_07
1 "Public insurance such as Medicaid or SCHIP"
2 "Private insurance such as employer or self-insured"
3 "Currently uninsured"
99 "DK/REF".
FORMATS ind3_3_07 (f4.0).
MISSING VALUES  ind3_3_07 (99).
```

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

SPSS Syntax and Annotation

Indicator 3.4: Adequacy of Insurance

*STEP 1: Create ind3_1_07: Currently Insured

COMPUTE ind3_1_07 = 999.
IF (K3Q01=0) ind3_1_07=0.
IF (K3Q01=1) ind3_1_07=1.
IF (K3Q01=6) or (K3Q01=7) ind3_1_07=99.
EXECUTE.

VARIABLE LABELS ind3_1_07 "Indicator 1.3: Current insurance coverage (K3Q01)".
VALUE LABELS ind3_1_07
0 "No"
1 "Yes"
99 "DK/REF".
MISSING VALUES ind3_1_07 (99).
FORMATS ind3_1_07 (F3.0).

*STEP 2: Components of adequacy of insurance

MISSING VALUES K3Q20 K3Q22 K3Q21a K3Q21b ().
COMPUTE benefits_07=999.
IF (K3Q20 = 1 or K3Q20 = 2) benefits_07=1.
IF (K3Q20 = 3) benefits_07=2.
IF (K3Q20 = 4) benefits_07=3.
IF (K3Q20=6 or K3Q20=7) benefits_07=99.

```
IF (ind3_1_07=0) benefits_07=990.
EXECUTE.


VARIABLE LABELS benefits_07 "Meets child's health needs".
VALUE LABELS benefits_07
1 "Never/Sometimes"
2 "Usually"
3 "Always"
99 "DK/REF"
990 "Uninsured"
999 "Missing".
MISSING VALUES benefits_07 (99,990,999).
FORMATS benefits_07 (f3.0).


COMPUTE allows_07=999.
IF (K3Q22 = 1 or K3Q22 = 2) allows_07=1.
IF (K3Q22 = 3) allows_07=2.
IF (K3Q22 = 4) allows_07=3.
IF (K3Q22=6 or K3Q22=7) allows_07=99.
IF (ind3_1_07=0) allows_07=990.
EXECUTE.


VARIABLE LABELS allows_07 "Allows child to see needed provider".
VALUE LABELS allows_07
1 "Never/Sometimes"
2 "Usually"
3 "Always"
99 "DK/REF or Uninsured"
990 "Uninsured"
999 "Missing".
MISSING VALUES allows_07 (99,990,999).
FORMATS allows_07 (f3.0).


COMPUTE expense_07=999.
IF (K3Q21b = 1 or K3Q21b = 2) expense_07=1.
IF (K3Q21b = 3) expense_07=2.
IF (K3Q21b = 4) expense_07=3.
IF (K3Q21b = 5) expense_07=0.
IF (K3Q21a = 0) expense_07=0.
IF (K3Q21a=6 or K3Q21a=7) expense_07=99.
IF (K3Q21b=6 or K3Q21b=7) expense_07=99.
IF (ind3_1_07=0) expense_07=990.
EXECUTE.


VARIABLE LABELS expense_07 "Reasonable out of pocket costs".
VALUE LABELS expense_07
0 "No out of pocket expenses"
1 "Never/Sometimes"
2 "Usually"
3 "Always"
99 "DK/REF to either question"
990 "Uninsured"
999 "Missing".
MISSING VALUES expense_07 (99,990,999).
FORMATS expense_07 (f3.0).
```

*Indicator 3.4: Adequacy of Insurance

MISSING VALUES benefits_07 allows_07 expense_07 ().
COMPUTE ind3_4_07=999.
IF (benefits_07>=2) and (allows_07>=2) and (expense_07>=2) ind3_4_07=1.
IF (expense_07=0) ind3_4_07=1.
IF (benefits_07=1) or (allows_07=1) or (expense_07=1) ind3_4_07=2.
IF (benefits_07 = 99) and (allows_07 = 99) and (expense_07 = 99) ind3_4_07 = 99.
IF (benefits_07 = 990) and (allows_07 = 990) and (expense_07 = 990) ind3_4_07 = 990.
IF (benefits_07 = 999) and (allows_07 = 999) and (expense_07 = 999) ind3_4_07 = 999.
EXECUTE.

VARIABLE LABELS ind3_4_07 "Indicator 3.4: Insurance plan usually or always meets all of three criteria, children who are currently insured".
VALUE LABELS ind3_4_07
1 "YES, coverage is adequate"
2 "No, not adequate"
99 "DK/REF to all questions"
990 "Uninsured"
999 "Missing".
MISSING VALUES ind3_4_07 (99,990,999).
FORMATS ind3_4_07 (F4.0).

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.

SPSS Syntax and Annotation

```
***Indicator 4.1: Preventive health care***

RECODE K4Q20R (0=1) (1 thru 365=2) (996=99) (997=99) INTO ind4_1_07.
EXECUTE.

VARIABLE LABELS ind4_1_07 "Indicator 4.1: Visited a health care professional for preventive services, past 12
months".
VALUE LABELS ind4_1_07
  1 "No visits"
  2 "Yes, one or more visits"
  99 "DK/REF".
FORMATS ind4_1_07 (F3.0).
MISSING VALUES ind4_1_07 (99).
```

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).

SPSS Syntax and Annotation

```
***Indicator 4.2: Preventive dental care***

RECODE K4Q21R (0=1) (1 thru 300=2) (996 thru 997=99) INTO ind4_2_07.
IF (AGEYR_CHILD <1) ind4_2_07 = 990.
EXECUTE.

VARIABLE LABELS ind4_2_07 "Indicator 4.2: Visited a dentist for preventive services, past 12 months, age 1-17".
VALUE LABELS ind4_2_07
  1 "No visits"
  2 "Yes, one or more visits"
  99 "DK/REF"
  990 "Less than 12 months old".
EXECUTE.
FORMATS  ind4_2_07 (f4.0).
MISSING VALUES ind4_2_07 (99, 990).
```

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.

SPSS Syntax and Annotation

Indicator 4.3: Preventive medical and dental care

*STEP 1: Create prev_med - Preventive medical care (Indicator 4.1)

RECODE K4Q20R (0=1) (1 thru 365=2) (996=99) (997=99) INTO prev_med.
EXECUTE.

VARIABLE LABELS prev_med "Preventive medical care, past 12 months (Indicator 4.1)".
VALUE LABELS prev_med
  1 "No visits"
  2 "1 or more visits"
  99 "DK/REF".
FORMATS prev_med (f4.0).

*STEP 2: Create prev_dent - Preventive dental care (Indicator 4.2)

RECODE K4Q21R (0=1) (1 thru 300=2) (996 thru 997=99) INTO prev_dent.
IF (AGEYR_CHILD <1) prev_dent = 990.
EXECUTE.

VARIABLE LABELS prev_dent "Preventive dental care, past 12 months (Indicator 4.2)".
VALUE LABELS prev_dent
  1 "No visits"
  2 "1 or more visits"

```
  99 "DK/REF"
  990 "Less than 12 months old".
FORMATS  prev_dent (f4.0).


*Indicator 4.3: Received preventive health and dental care, past 12 months"

MISSING VALUES prev_med prev_dent ().

COMPUTE ind4_3_07=99.
IF (prev_med=2) and (prev_dent=2) ind4_3_07=1.
IF (prev_med=2) and (prev_dent=990) ind4_3_07=1.
IF (prev_med=2) and (prev_dent=1) ind4_3_07=0.
IF (prev_med=2) and (prev_dent=99) ind4_3_07=99.
IF (prev_med=1) and (prev_dent=1) ind4_3_07=0.
IF (prev_med=1) and (prev_dent=2) ind4_3_07=0.
IF (prev_med=1) and (prev_dent=990) ind4_3_07=0.
IF (prev_med=1) and (prev_dent=99) ind4_3_07=99.
IF (prev_med=99) ind4_3_07=99.
EXECUTE.

VARIABLE LABELS ind4_3_07 "Indicator 4.3: Received preventive health care and, if 1 year or older, preventive
dental care in past 12 months".
VALUE LABELS ind4_3_07
  0 "Did not receive one or both"
  1 "Received BOTH medical and dental"
  99 "DK/REF".
EXECUTE.
FORMATS  ind4_3_07 (f4.0).
MISSING VALUES ind4_3_07 (99).
```

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 acccording 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.

SPSS Syntax and Annotation

Indicator 4.5: Mental health services

COMPUTE ind4_5_07 = 99.
IF (K2Q22 = 1) and (K4Q22 = 1) ind4_5_07 = 2.
IF (K2Q22 = 1) and (K4Q22 = 0) ind4_5_07 = 1.
IF (AGEYR_CHILD <2) ind4_5_07=999.
EXECUTE.

VARIABLE LABELS 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".
VALUE LABELS Ind4_5_07
  1 "Yes"
  2 "No"
  99 "DK/REF or did not need mental health services"
  999 "Age less than 2 yrs".
EXECUTE.
MISSING VALUES ind4_5_07 (99, 999).
FORMATS ind4_5_07 (f3.0).

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.

SPSS Syntax and Annotation

Indicator 4.6a: Unmet health needs

*STEP 1: Recode values for K4Q27 and K4Q28

```
RECODE K4Q27 (0=0) (1=1) (6=99) (7=99) INTO K4Q27_r.
RECODE K4Q28X01 K4Q28X02 K4Q28X03 K4Q28X04
(0=0) (1=1) (6=99) (7=99) INTO K4Q28X01_r K4Q28X02_r K4Q28X03_r K4Q28X04_r.
EXECUTE.
VARIABLE LABELS
  K4Q27_r "K4Q27 Needed health care delayed or not received"/
  K4Q28X01_r "Medical care unmet need"/
  K4Q28X02_r "Dental care unmet need"/
  K4Q28X03_r "Mental health care unmet need"/
  K4Q28X04_r "Other service unmet need".
VALUE LABELS K4Q27_r
  0 "No"
  1 "Yes"
  99 "DK/Refused".
VALUE LABELS K4Q28X01_r K4Q28X02_r K4Q28X03_r K4Q28X04_r
  0 "Did not need this type of care"
  1"Unmet need for this type of care"
  99 "DK/REF".
FORMATS K4Q28X01_r K4Q28X02_r K4Q28X03_r K4Q28X04_r (F4.0).
```

*STEP 2: Count number of unmet needs across the four types

```
COUNT unmet_needs=K4Q28X01_r K4Q28X02_r K4Q28X03_r K4Q28X04_r (1).
EXECUTE.

VARIABLE LABELS unmet_needs "Had one or more type of unmet health needs".
VALUE LABELS unmet_needs
```

    0 "Had no needs from the four"
    1 "Had one type of unmet need"
    2 "Had 2 types of unmet need"
    3 "Had 3 types of unmet need"
    4 "Had 4 types of unmet need".
FORMATS unmet_needs (F4.0).

*Indicator 4.6a: Unmet health needs by type

COMPUTE ind4_6a_07=999.
IF (K4Q27_r=0) ind4_6a_07=0.
IF (unmet_needs >0) and (unmet_needs<5) ind4_6a_07=1.
IF (K4Q28X01_r=99) and (K4Q28X02_r=99) and (K4Q28X03_r=99) and (K4Q28X04_r=99) ind4_6a_07=99.
EXECUTE.
VARIABLE LABELS ind4_6a_07 "Indicator 4.6a: Medical, dental, mental health, or other type of health care delayed or not received, past 12 months".
VALUE LABELS ind4_6a_07
    0 "No unmet health needs"
    1 "Unmet need for one or more type"
    99 "DK/REF to all"
    999 "DK/REF to K4Q27".
FORMATS ind4_6a_07 (F4.0).
MISSING VALUES ind4_6a_07 (99,999).

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.

SPSS Syntax and Annotation

Indicator 4.8: Medical home

*Construct 5 sub-component measures used to derive Medical Home composite measure

************************Personal Doctor or Nurse ***************************

Sub-component #1: PERSONAL DOCTOR OR NURSE (PDN) ************
MEETS sub-component #1 criteria if: pdn=1 ************************

COMPUTE pdn = 99.

```
IF (K4Q04 = 1) pdn = 1.
IF (K4Q04 = 2) pdn = 1.
IF (K4Q04 = 3) pdn = 0.
EXECUTE.
VARIABLE LABELS pdn "Personal Doctor or Nurse (PDN) sub-component of MEDICAL HOME composite measure".
VALUE LABELS pdn
  0 "No, does not have PDN"
  1 "YES, has Personal Doctor or Nurse"
  99 "DK/REF/MISSING".
RECODE pdn (99=SYSMIS).
EXECUTE.


****************************Family-Centered Care ******************************

*** Sub-component #2: FAMILY-CENTERED CARE (FCC) *********************
***MEETS sub-component #2 criteria if: (famcent=1 or famcent=2) *******

*STEP 1 – Construct 7 interim variables used to score Family-Centered Care measure

COMPUTE time = 99.
IF (K5Q40 = 1 or K5Q40 = 2) time = 0.
IF (K5Q40 = 3 or K5Q40 = 4) time = 1.
IF (sysmis (K5Q40)) time = 2.
EXECUTE.

COMPUTE listen = 99.
IF (K5Q41 = 1 or K5Q41 = 2) listen = 0.
IF (K5Q41 = 3 or K5Q41 = 4) listen = 1.
IF (sysmis (K5Q41)) listen = 2.
EXECUTE.

COMPUTE sensitiv = 99.
IF (K5Q42 = 1 or K5Q42 = 2) sensitiv = 0.
IF (K5Q42 = 3 or K5Q42 = 4) sensitiv = 1.
IF (sysmis (K5Q42)) sensitiv = 2.
EXECUTE.

COMPUTE info = 99.
IF (K5Q43 = 1 or K5Q43 = 2) info = 0.
IF (K5Q43 = 3 or K5Q43 = 4) info = 1.
IF (sysmis (K5Q43)) info = 2.
EXECUTE.

COMPUTE partner = 99.
IF (K5Q44 = 1 or K5Q44 = 2) partner = 0.
IF (K5Q44 = 3 or K5Q44  = 4) partner = 1.
IF (sysmis (K5Q44)) partner = 2.
EXECUTE.

VARIABLE LABELS
  time "Doctor spends enough time, past 12 months"/
  listen "Doctor listens carefully, past 12 months"/
  info "Doctor provides needed information, past 12 months"/
  sensitiv "Doctor is sensitive to family values and customs"/
  partner "Doctor makes family feel like partner, past 12 months".
 VALUE LABELS time listen sensitiv info partner
```

```
    0 "Sometimes/Never"
    1 "Usually/Always"
    2 "No qualifying services"
    99 "DK/REF".


RECODE K5Q46 (SYSMIS = 999).
EXECUTE .
COMPUTE interpret = 99.
IF (K5Q46 = 1 or K5Q46 = 2) interpret = 0.
IF (K5Q46 = 3 or K5Q46 = 4) interpret = 1.
IF (K5Q46 = 999) interpret = 2.
EXECUTE.
VARIABLE LABELS interpret "Interpreter help if needed (primary household language not English)".
VALUE LABELS interpret
    0 "Sometimes/Never"
    1 "Usually/Always"
    2 "Interpreter not needed"
    99 "DK/REF".


*STEP 2 - Family-Centered Care measure

MISSING VALUES time listen sensitiv info partner interpret ().
COMPUTE famcent = 99.
IF (time = 0) or (listen = 0) or (sensitiv = 0) or (info = 0) or (partner = 0) or (interpret = 0) famcent = 0.
IF (time = 1 or time = 2) and (listen = 1 or listen = 2) and (sensitiv = 1 or sensitiv = 2) and (info = 1 or info = 2)
and (partner = 1 or partner = 2) and ((interpret = 1) or (interpret = 1 or interpret = 2)) famcent = 1.
IF (time = 2) and (listen = 2) and (sensitiv = 2) and (info = 2) and (partner = 2) famcent = 2.
IF (time = 99 or listen = 99 or sensitiv = 99 or info = 99 or partner = 99 or interpret = 99) famcent= 99.
EXECUTE.
VARIABLE LABELS famcent "Family-Centered Care (FCC) sub-component of MEDICAL HOME measure".
VALUE LABELS famcent
    0 "No, does not have FCC"
    1 "YES, has Family-Centered Care"
    2 "No health services in past 12 months"
    99 "DK/Ref to any".
RECODE famcent (99=SYSMIS).
EXECUTE .


*********************************Comprehensive Care *************************

***Sub-component #3: GETTING NEEDED REFERRALS ************************
***MEETS sub-component #3 criteria if: (norefprb=1 or norefprb=2) ******

RECODE K5Q11 (SYSMIS=999).
EXECUTE .
COMPUTE norefprb = 99.
IF (K5Q11 = 1) or (K5Q11 = 2) norefprb = 0.
IF (K5Q11 = 3) norefprb = 1.
IF (K5Q10 = 0) norefprb = 2.
EXECUTE .
VARIABLE LABELS norefprb "Getting Needed Referrals sub-component of MEDICAL HOME measure".
VALUE LABELS norefprb
    0 "Had big or small problem"
    1 "No problem Getting Needed Referrals"
    2 "Referrals not needed"
    99 "DK/REF/MISSING".
```

```
RECODE norefprb (99=SYSMIS).
EXECUTE .


*** Sub-component #4: USUAL SOURCES OF CARE ***************************
***MEETS sub-component #4 criteria if: usual=1 ***************************

MISSING VALUES K4Q01 K4Q02R ().
COMPUTE usual = 99.
IF (K4Q01 = 1 or K4Q01 = 3) and (K4Q02R = 1 or K4Q02R = 3 or K4Q02R = 4 or K4Q02R = 5 or K4Q02R = 6 or
K4Q02R = 8 or K4Q02R = 10) usual = 1.
IF (K4Q01 = 2) or (K4Q02R = 2) or (K4Q02R = 7) or (K4Q02R = 9) usual = 0.
IF (K4Q01 >= 6) or (K4Q02R = 996 or K4Q02R = 997) usual = 99.
EXECUTE.
VARIABLE LABELS usual "Usual Sources of Care sub-component of MEDICAL HOME measure".
VALUE LABELS usual
  0 "No usual sources of care"
  1 "YES, has Usual Sources of Care"
  99 "DK/REF/MISSING to all".
RECODE usual (99=SYSMISS).
EXECUTE .


********************************Coordinated Care ********************************

*** Sub-component #5: EFFECTIVE CARE COORDINATION ********************
***MEETS sub-component #5 criteria if: (carecoor=1 or carecoor=2) *******

*STEP 1 – Construct 3 interim variables used to score Effective Care Coordination

*(1) Communication among health providers
*      NEED for communication among health providers

RECODE K4Q22 (1=1) (0=0) (SYSMISS=999) (6=99) (7=99) INTO K4Q22r.
EXECUTE.
VARIABLE LABELS K4Q22r "Received counseling or treatment from mental health professional, last 12 months, age
2-17".
VALUE LABELS K4Q22r
  0 "No"
  1 "Yes"
  99 "DK/REF"
  999 "Under 2 yrs or missing".

MISSING VALUES K4Q22r K4Q24 ().
COMPUTE need_drcomm = 999.
IF (K4Q22r = 0) or (K4Q24 = 0) need_drcomm = 0.
IF (K4Q22r = 1) or (K4Q24 = 1) need_drcomm = 1.
IF (K4Q22r = 999) and (K4Q24 = 0) need_drcomm = 0.
IF (K4Q22r = 999) and (K4Q24 = 1) need_drcomm = 1.
IF (K4Q22r = 99) and (K4Q24 = 6 or K4Q24 = 7) need_drcomm = 99.
EXECUTE.
VARIABLE LABELS need_drcomm "Received mental health and/or specialist care during past 12 months (drcomm
denominator)".
VALUE LABELS need_drcomm
  0 "No, did not receive either"
  1 "Yes, received one or both"
  99 "DK/Ref to both"
  999 "SYSMISS to both".
```

*   SATISFACTION with communication among health providers

RECODE K5Q30 (1=1) (2=2) (3=3) (4=4) (5=5) (SYSMIS=999) (6=99) (7=99) into K5Q30r.
EXECUTE.
VARIABLE LABELS K5Q30r "Satisfaction with communication among doctors, received two or more service types in past 12 months".
VALUE LABELS K5Q30r
  1 "Very satisfied"
  2 "Somewhat satisfied"
  3 "Somewhat dissatisfied"
  4 "Very dissatisfied"
  5 "Not needed or not wanted"
  99 "DK/REF"
  999 "Less than 2 service types".

MISSING VALUES K5Q30r ().
COMPUTE drcomm = 99.
IF (K5Q30r = 1) and (need_drcomm = 1) drcomm = 1.
IF (K5Q30r = 2 or K5Q30r = 3 or K5Q30r = 4) and (need_drcomm = 1) drcomm = 0.
IF (K5Q30r = 5) and (need_drcomm = 1) drcomm = 2.
IF (need_drcomm = 0) drcomm = 2.
IF (K5Q30r = 999) and (need_drcomm = 1) drcomm = 2.
EXECUTE.
VARIABLE LABELS drcomm "Very satisfied with communication among doctors".
VALUE LABELS drcomm
  0 "No, less than very satisfied"
  1 "YES, very satisfied"
  2 "Not needed"
  99 "DK/Ref/missing to any".

*(2) Communication between doctor and school or other services
*   NEED for communication between doctor and school or other services

RECODE K5Q31 (1=1) (0=0) (SYSMIS=999) (6=99) (7=99) into K5Q31r.
EXECUTE.
VARIABLE LABELS K5Q31r "Needed doctor to communicate with school or other services, past 12 months".
VALUE LABELS K5Q31r
  0 "No"
  1 "Yes"
  99 "DK/REF"
  999 "No health services".

*   SATISFACTION with communication between doctor and school or other services

MISSING VALUES K5Q31r K5Q32 ().
COMPUTE othcomm = 99.
IF (K5Q31r = 0 or K5Q31r = 999) othcomm = 2.
IF (K5Q32 = 1) othcomm = 1.
IF (K5Q32 = 2 or K5Q32 = 3 or K5Q32 = 4) othcomm = 0.
IF (K5Q32 = 5) othcomm = 2.
EXECUTE.
VARIABLE LABELS othcomm "Very satisfied with communication between doctors and school or other services".
VALUE LABELS othcomm
  0 "No, less than very satisfied"
  1 "YES, very satisfied"

2 "Not needed"
99 "DK/Ref/missing to any".

*(3) Care coordination help
*   NEED for care coordination or help with care coordination

*numb_services - counts types of services used in previous 12 months;
*used in skip pattern for care coordination items K5Q20, K5Q21, K5Q22

COMPUTE numb_services = 0.
IF (K4Q20r >0 and K4Q20r <100) numb_services = numb_services +1.
IF (K4Q21r >0 and K4Q21r <100) numb_services = numb_services +1.
IF (K4Q22 = 1) numb_services = numb_services +1.
IF (K4Q24 = 1) numb_services = numb_services +1.
IF (K4Q25 = 1) numb_services = numb_services +1.
EXECUTE.
VARIABLE LABELS numb_services "Number of types of services used in past 12 months (medical, dental, mental health, specialist)".
VALUE LABELS numb_services
  0 "Used none"
  1 "Used 1 of four"
  2 "Used 2 of four"
  3 "Used 3 of four"
  4 "Used all 4 service types".

RECODE K5Q20 K5Q21 (0=0) (1=1) (6=99) (7=99) (SYSMIS=999) into K5Q20r K5Q21r.
EXECUTE.
VARIABLE LABELS K5Q20r "Does anyone help to arrange or coordinate child's health care".
VARIABLE LABELS K5Q21r "Could use extra help to arrange/coordinate child's health care".
VALUE LABELS K5Q20r K5Q21r
  0 "No"
  1 "Yes"
  99 "DK/REF"
  999 "Less than 2 service types, past 12 months".

*   RECEIVES care coordination help

MISSING VALUES K5Q20r K5Q21r K5Q22 ().
COMPUTE carehelp = 99.
IF (K5Q20r = 0) and (K5Q21r = 0) carehelp = 2.
IF (numb_services <=1) carehelp = 2.
IF (K5Q20r = 1) and (K5Q21r = 0) carehelp = 1.
IF ((K5Q20r = 99) and (K5Q21r = 0)) or (K5Q21r = 99) or (K5Q22 >=6) carehelp = 99.
IF (K5Q22 = 3) carehelp = 1.
IF (K5Q22 = 1) or (K5Q22 = 2) carehelp = 0.
EXECUTE.
VARIABLE LABELS carehelp "Gets help or extra help with care coordination when needed, past 12 months".
VALUE LABELS carehelp
  0 "No, did not get needed help"
  1 "YES, received needed help"
  2 "Help and/or coordination not needed"
  99 "DK/REF/MISSING to any".

*STEP 2: Effective Care Coordination measure

MISSING VALUES drcomm othcomm carehelp ().

COMPUTE carecoor = 99.
IF ((carehelp = 1) or (carehelp = 2)) and ((drcomm = 1) or (drcomm = 2)) and ((othcomm = 1) or (othcomm = 2))
carecoor = 1.
IF (carehelp = 0) or (drcomm = 0) or (othcomm = 0) carecoor = 0.
IF (carehelp = 2) and (drcomm = 2) and (othcomm = 2) carecoor = 2.
IF (carehelp = 99) or (drcomm = 99) or (othcomm = 99) carecoor = 99.
EXECUTE.
VARIABLE LABELS carecoor "Effective Care Coordination sub-component of MEDICAL HOME measure".
VALUE LABELS carecoor
  0 "No, does not have Eff Care Coord"
  1 "YES, has Effective Care Coordination"
  2 "None needed"
  99 "DK/REF/MISSING to any".
RECODE carecoor (99=SYSMIS).
EXECUTE .

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

*MEDICAL HOME measure based on the 5 sub-components, using "ON EVERY" scoring approach
*pdn and usual criteria must be met;
*famcent, norefprb, and carecoor must each either be met or legitimate skip

COMPUTE ind4_8_07 = 999.
IF ((pdn = 1) and (usual = 1)) and (carecoor = 1 or carecoor = 2) and (norefprb = 1 or norefprb = 2) and (famcent
= 1 or famcent = 2) ind4_8_07 = 1.
IF (pdn = 0) or (usual = 0) or (carecoor = 0) or (norefprb = 0) or (famcent = 0) ind4_8_07 = 0.
IF ((SYSMIS (pdn)) or (SYSMIS (usual)) or (SYSMIS (famcent)) or (SYSMIS (norefprb)) or (SYSMIS (carecoor)))
ind4_8_07 =99.
EXECUTE.
VARIABLE LABELS ind4_8_07 "Child's health care meets criteria for all 5 sub-components of medical home measure:
personal doctor or nurse, family centered care, getting referrals when needed, usual source of care, and effective
care coordination when needed".
VALUE LABELS ind4_8_07
  0 "No, care DOES NOT meet Medical Home criteria"
  1 "YES, care MEETS ALL Medical Home criteria"
  99 "DK/Ref/missing to 1 or more sub-components".
MISSING VALUES time listen sensitiv info partner interpret drcomm othcomm carehelp ind4_8_07 (99).
MISSING VALUES need_drcomm K5Q20r K5Q21r K4Q22r K5Q30r K5Q31r (99, 999).
FORMATS pdn time listen sensitiv info partner interpret famcent norefprb usual K4Q22r need_drcomm
  K5Q30r drcomm K5Q31r othcomm numb_services K5Q20r K5Q21r carehelp carecoor ind4_8_07 (f4.0).

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 practicioner, 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.

SPSS Syntax and Annotation

```
***Indicator 4.9: Personal doctor or nurse***
***Sub-component #1 of MEDICAL HOME composite measure

MISSING VALUES K4Q04 ().
COMPUTE ind4_9_07=999.
IF (K4Q04=1 or K4Q04=2) ind4_9_07=1.
IF (K4Q04=3) ind4_9_07=0.
IF (K4Q04=6 or K4Q04=7) ind4_9_07=99.
EXECUTE.

VARIABLE LABELS ind4_9_07 "Indicator 4.9: Children who have at least one personal doctor or nurse (PDN)".
VALUE LABELS ind4_9_07
  0 "No personal doctor or nurse"
  1 "Yes, one or more PDN"
  99 "DK/REF".
MISSING VALUES ind4_9_07 (99).
FORMATS ind4_9_07 (f4.0).
```

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 a 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.

SPSS Syntax and Annotation

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***Indicator 4.9a: Usual source of care***
***Sub-component #4 of MEDICAL HOME composite measure

MISSING VALUES K4Q01 K4Q02R ().
COMPUTE ind4_9a_07 = 99.
IF (K4Q01 = 1 or K4Q01 = 3) and (K4Q02R = 1 or K4Q02R = 3 or K4Q02R = 4 or K4Q02R = 5 or K4Q02R = 6 or
K4Q02R = 8 or K4Q02R = 10) ind4_9a_07 = 1.
IF (K4Q01 = 2) or (K4Q02R = 2) or (K4Q02R = 7) or (K4Q02R = 9) ind4_9a_07 = 0.
IF(K4Q01 >= 6) or (K4Q02R = 96 or K4Q02R = 97) ind4_9a_07 = 99.
EXECUTE .

VARIABLE LABELS ind4_9a_07 "Indicator 4.9a: Children who have a usual place for care when sick or need health
advice".
VALUE LABELS ind4_9a_07
  0 "No usual place"
  1 "Yes, has usual place"
  99 "DK/REF/MISSING".
MISSING VALUES ind4_9a_07 (99).
FORMATS ind4_9a_07  (f4.0).
```

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 4.9bis 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.

SPSS Syntax and Annotation

```
***Indicator 4.9b: Family-centered care***
***Sub-component #2 of MEDICAL HOME composite measure

*NOTE: Although Indicator 4.9b is based on the Medical Home sub-component "famcent", results differ slightly:
*In "famcent" children who received no health services in past 12 months are included as a category
*In Indicator 4.9b children who received no health services in past 12 months are treated as missing

*STEP 1 - Construct 6 interim variables used to score Family-Centered Care measure

COMPUTE time = 99.
IF (K5Q40 = 1 or K5Q40 = 2) time = 0.
IF (K5Q40 = 3 or K5Q40 = 4) time = 1.
IF (sysmis (K5Q40)) time = 2.

COMPUTE listen = 99.
IF (K5Q41 = 1 or K5Q41 = 2) listen = 0.
IF (K5Q41 = 3 or K5Q41 = 4) listen = 1.
IF (sysmis (K5Q41)) listen = 2.

COMPUTE sensitiv = 99.
IF (K5Q42 = 1 or K5Q42 = 2) sensitiv = 0.
IF (K5Q42 = 3 or K5Q42 = 4) sensitiv = 1.
IF (sysmis (K5Q42)) sensitiv = 2.

COMPUTE info = 99.
IF (K5Q43 = 1 or K5Q43 = 2) info = 0.
```

IF (K5Q43 = 3 or K5Q43 = 4) info = 1.
IF (sysmis (K5Q43)) info = 2.

COMPUTE partner = 99.
IF (K5Q44 = 1 or K5Q44 = 2) partner = 0.
IF (K5Q44 = 3 or K5Q44 = 4) partner = 1.
IF (sysmis (K5Q44)) partner = 2.

RECODE K5Q46 (SYSMIS = 999).
COMPUTE interpret = 99.
IF (K5Q46 = 1 or K5Q46 = 2) interpret = 0.
IF (K5Q46 = 3 or K5Q46 = 4) interpret = 1.
IF (K5Q46 = 999) interpret = 2.
EXECUTE.

VARIABLE LABELS
  time "Doctor spends enough time, past 12 months"/
  listen "Doctor listens carefully, past 12 months"/
  sensitiv "Doctor is sensitive to family values and customs"/
  partner "Doctor makes the family feel like a partner, past 12 months"/
  info "Doctor provides needed information, past 12 months"/
  interpret "An interpreter is available when needed, past 12 months".
VALUE LABELS time listen sensitiv info partner
  0 "Sometimes/Never"
  1 "Usually/Always"
  2 "No health services, past 12 months"
  99 "DK/REF".
VALUE LABELS interpret
  0 "Sometimes/Never"
  1 "Usually/Always"
  2 "Interpreter not needed"
  99 "DK/REF".

*STEP 2 - Indicator 4.9b: Family-centered care

MISSING VALUES time listen sensitiv info partner interpret ().
COMPUTE ind4_9b_07 = 999.
IF (time = 0) or (listen = 0) or (sensitiv = 0) or (info = 0) or (partner = 0) or (interpret = 0) ind4_9b_07 = 0.
IF (time = 1 or time = 2) and (listen = 1 or listen = 2) and (sensitiv = 1 or sensitiv = 2) and (info = 1 or info = 2)
and (partner = 1 or partner = 2) and ((interpret = 1) or (interpret = 1 or interpret = 2)) ind4_9b_07 = 1.
IF (time = 2) and (listen = 2) and (sensitiv = 2) and (info = 2) and (partner = 2) ind4_9b_07 = 99.
IF (time = 99 or listen = 99 or sensitiv = 99 or info = 99 or partner = 99 or interpret = 99) ind4_9b_07 = 99.
EXECUTE.
VARIABLE LABELS ind4_9b_07 "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".
VALUE LABELS ind4_9b_07
  0 "No, does not have FCC"
  1 "Yes, has Family-Centered Care"
  99 "DK/REF to any or no visits in past year".
MISSING VALUES time listen sensitiv info partner interpret ind4_9b_07 (99).
FORMATS time listen sensitiv info partner interpret ind4_9b_07 (f4.0).

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.

SPSS Syntax and Annotation

```
***Indicator 4.9c: Getting needed referrals***
***Sub-component #3 of MEDICAL HOME composite measure

RECODE K5Q11 (SYSMIS=999).
EXECUTE .
COMPUTE ind4_9c_07 = 99.
IF (K5Q11 = 1) or (K5Q11 = 2) ind4_9c_07 = 2.
IF (K5Q11 = 3) ind4_9c_07 = 1.
IF (K5Q10 = 0) ind4_9c_07= 0.

VARIABLE LABELS ind4_9c_07 "Indicator 4.9c: Problems getting referrals needed to see doctors or receive services, past 12 months".
VALUE LABELS ind4_9c_07
  0 "No referrals needed"
  1 "No problem"
  2 "Small or big problem"
  99 "DK/REF/MISSING" .
MISSING VALUES ind4_9c_07 (99).
FORMATS ind4_9c_07 (f4.0).
```

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.

SPSS Syntax and Annotation

```
***Indicator 4.9d: Effective care coordination***
***Sub-component #5 of MEDICAL HOME composite measure

*STEP 1 - Construct interim variables used to score Effective Care Coordination

*numb_services - counts types of services used in previous 12 months;
*used in skip pattern for care coordination items K5Q20, K5Q21, K5Q22

COMPUTE drvisit_07=999.
IF (K4Q20R>0) and (K4Q20R<25) drvisit_07=1.
VARIABLE LABELS drvisit_07 "Saw doctor, nurse or other health care provider during past 12 months".
VALUE LABELS drvisit_07 1 "Yes, saw doctor, nurse or other health care provider".

COMPUTE dentalvisit_07=999.
IF (K4Q21R>0) and (K4Q21R<25) dentalvisit_07=1.
VARIABLE LABELS dentalvisit_07 "Saw dentist for preventive care during past 12 months".
VALUE LABELS dentalvisit_07 1 "Yes, saw dentist for preventive.".

COMPUTE counselvisit_07=999.
IF (K4Q22=1) counselvisit_07=1.
VARIABLE LABELS counselvisit_07 "Saw counselor or mental health professional during past 12 months".
VALUE LABELS counselvisit_07 1 "Yes, saw counselor or mental health professional".

COMPUTE specialvisit_07=999.
IF (K4Q24=1) specialvisit_07=1.
VARIABLE LABELS specialvisit_07 "Saw specialist during past 12 months".
VALUE LABELS specialvisit_07 1 "Yes, saw specialist".
```

```
COMPUTE needspecial_07=999.
IF (K4Q25=1) needspecial_07=1.
VARIABLE LABELS needspecial_07 "Needed to see specialist during past 12 months".
VALUE LABELS needspecial_07 1 "Yes, needed to see specialist".


COUNT NUMB_SERVICES=drvisit_07 dentalvisit_07 counselvisit_07 specialvisit_07 needspecial_07 (1).
VARIABLE LABELS NUMB_SERVICES "Number of types of services used in past 12 months (medical, dental, mental
health, specialist)".
VALUE LABELS NUMB_SERVICES
  0 "Used none"
  1 "Used 1 of four"
  2 "Used 2 of four"
  3 "Used 3 of four"
  4 "Used all 4 service types".
FORMATS drvisit_07 dentalvisit_07 counselvisit_07 specialvisit_07 needspecial_07 NUMB_SERVICES (F4.0).


*Communication among doctors and other health care providers


RECODE K4Q22 (1=1) (0=0) (SYSMISS=999) (6=99) (7=99) INTO K4Q22r.
EXECUTE.
VARIABLE LABELS K4Q22r "Received counseling or treatment from mental health professional, past 12 months, age
2-17".
VALUE LABELS K4Q22r
  0 "No"
  1 "Yes"
  99 "DK/REF"
  999 "Less than 2 yrs old or missing/unknown".


MISSING VALUES K4Q22r K4Q24 ().
COMPUTE need_drcomm = 999.
IF (K4Q22r = 0) or (K4Q24 = 0) need_drcomm = 0.
IF (K4Q22r = 1) or (K4Q24 = 1) need_drcomm = 1.
IF (K4Q22r = 999) and (K4Q24 = 0) need_drcomm = 0.
IF (K4Q22r = 999) and (K4Q24 = 1) need_drcomm = 1.
IF (K4Q22r = 99) and (K4Q24 = 6 or K4Q24 = 7) need_drcomm = 99.
EXECUTE.
VARIABLE LABELS need_drcomm "Received mental health and/or specialist care, past 12 months".
VALUE LABELS need_drcomm
  0 "No mental health or specialist care"
  1 "Yes, received one or both"
  99 "DK/Ref to both"
  999 "SYSMISS to both".


RECODE K5Q30 (1=1) (2=2) (3=3) (4=4) (5=5) (SYSMIS=999) (6=99) (7=99) into K5Q30r.
EXECUTE.
VARIABLE LABELS K5Q30r "Satisfaction with communication among health care providers, past 12 months".
VALUE LABELS K5Q30r
  1 "Very satisfied"
  2 "Somewhat satisfied"
  3 "Somewhat dissatisfied"
  4 "Very dissatisfied"
  5 "Not needed or not wanted"
  99 "DK/REF"
  999 "Less than 2 service types".
```

MISSING VALUES K5Q30r ().
COMPUTE drcomm = 99.
IF (K5Q30r = 1) and (need_drcomm = 1) drcomm = 1.
IF (K5Q30r = 2 or K5Q30r = 3 or K5Q30r = 4) and (need_drcomm = 1) drcomm = 0.
IF (K5Q30r = 5) and (need_drcomm = 1) drcomm = 2.
IF (need_drcomm = 0) drcomm = 2.
IF (K5Q30r = 999) and (need_drcomm = 1) drcomm = 2.
EXECUTE.
VARIABLE LABELS drcomm "Satisfaction with communication among doctors".
VALUE LABELS drcomm
  0 "No, criteria not met"
  1 "YES, very satisfied"
  2 "Not needed"
  99 "DK/Ref/missing to any".

*Communication between doctor and school or other services

RECODE K5Q31 (1=1) (0=0) (SYSMIS=999) (6=99) (7=99) into K5Q31r.
EXECUTE.
VARIABLE LABELS K5Q31r "Needed health care providers to communicate with school or other services, past 12 months".
VALUE LABELS K5Q31r
  0 "No"
  1 "Yes"
  99 "DK/REF"
  999 "No health services".

MISSING VALUES K5Q31r K5Q32 ().
COMPUTE othcomm = 99.
IF (K5Q31r = 0 or K5Q31r = 999) othcomm = 2.
IF (K5Q32 = 1) othcomm = 1.
IF (K5Q32 = 2 or K5Q32 = 3 or K5Q32 = 4) othcomm = 0.
IF (K5Q32 = 5) othcomm = 2.
EXECUTE.
VARIABLE LABELS othcomm "Satisfaction with communication between doctors and school or other services".
VALUE LABELS othcomm
  0 "No, criteria not met"
  1 "YES, very satisfied"
  2 "Not needed"
  99 "DK/Ref/missing to any".

*Received help with care coordination when needed
*numb_services - counts number of types of services used in previous 12 months;
*used in skip pattern for care coordination items K5Q20, K5Q21, K5Q22

RECODE K5Q20 K5Q21 (0=0) (1=1) (6=99) (7=99) (SYSMIS=999) into K5Q20r K5Q21r.
EXECUTE.
VARIABLE LABELS K5Q20r "Does anyone help to arrange or coordinate child's health care".
VARIABLE LABELS K5Q21r "Did parent feel they could use extra help to arrange/coordinate child's health care, past 12 months".
VALUE LABELS K5Q20r K5Q21r
  0 "No"
  1 "Yes"
  99 "DK/REF"
  999 "Less than 2 service types".

```
COMPUTE numb_services = 0.
IF (K4Q20r > 0 and K4Q20r < 100) numb_services = numb_services +1.
IF (K4Q21r > 0 and K4Q21r < 100) numb_services = numb_services +1.
IF (K4Q22 = 1) numb_services = numb_services +1.
IF (K4Q24 = 1) numb_services = numb_services +1.
IF (K4Q25 = 1) numb_services = numb_services +1.
EXECUTE.
VARIABLE LABELS numb_services "Number of types of services used in past 12 months (medical, dental, mental
health, specialist)".
VALUE LABELS numb_services
  0 "Used none"
  1 "Used 1 of four"
  2 "Used 2 of four"
  3 "Used 3 of four"
  4 "Used all 4 service types".


MISSING VALUES K5Q20r K5Q21r K5Q22 ().
COMPUTE carehelp = 99.
IF (K5Q20r = 0) and (K5Q21r = 0) carehelp = 2.
IF (numb_services <=1) carehelp = 2.
IF (K5Q20r = 1) and (K5Q21r = 0) carehelp = 1.
IF ((K5Q20r = 99) and (K5Q21r = 0)) or (K5Q21r = 99) or (K5Q22 >=6) carehelp = 99.
IF (K5Q22 = 3) carehelp = 1.
IF (K5Q22 = 1) or (K5Q22 = 2) carehelp = 0.
EXECUTE.
VARIABLE LABELS carehelp "Received help with care coordination when needed, past 12 months".
VALUE LABELS carehelp
  0 "No, did not get needed help"
  1 "YES, received needed help"
  2 "No need or less than 2 service types"
  99 "DK/REF/MISSING to any".


*STEP 2 - Indicator 4.9d: Effective care coordination

MISSING VALUES drcomm othcomm carehelp ().
COMPUTE ind4_9d_07 = 99.
IF ((carehelp = 1) or (carehelp = 2)) and ((drcomm = 1) or (drcomm = 2)) and ((othcomm = 1) or (othcomm = 2))
ind4_9d_07 = 1.
IF (carehelp = 0) or (drcomm = 0) or (othcomm = 0) ind4_9d_07 = 2.
IF (carehelp = 2) and (drcomm = 2) and (othcomm = 2) ind4_9d_07 = 0.
IF (carehelp = 99) or (drcomm = 99) or (othcomm = 99) ind4_9d_07 = 99.
EXECUTE.


VARIABLE LABELS ind4_9d_07 "Indicator 4.9d: Received effective care coordination help when needed".
VALUE LABELS ind4_9d_07
  0 "No need or less than 2 services"
  1 "YES, received effective coordination"
  2 "No, needed but did not receive"
  99 "DK/REF/MISSING to any".
MISSING VALUES drcomm othcomm carehelp ind4_9d_07 (99).
MISSING VALUES K4Q22r need_drcomm K5Q30r K5Q31r K5Q20r K5Q21r (99, 999).
FORMATS K4Q22r need_drcomm K5Q30r drcomm K5Q31r othcomm numb_services K5Q20r K5Q21r carehelp
ind4_9d_07 (f4.0).
```

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.

SPSS Syntax and Annotation

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

COMPUTE ind4_12_07=999.
IF (K4Q25=0) ind4_12_07=0.
IF (K4Q26=3) ind4_12_07=1.
IF (K4Q26=2) ind4_12_07=2.
IF (K4Q26=1) ind4_12_07=2.
IF (K4Q25=6) or (K4Q25=7) ind4_12_07=99.
IF (K4Q26=6) or (K4Q26=7) ind4_12_07=99.
EXECUTE.

VARIABLE LABELS ind4_12_07 "Indicator 4.12: Needed or received specialist care and problems getting it, past 12 months".
VALUE LABELS ind4_12_07
  0 "Not needed"
  1 "No problem"
  2 "Small or big problem"
  99 "DK/REF"
  999 "SYSMISS".
FORMATS ind4_12_07 (F4.0).
MISSING VALUES ind4_12_07 (99,999).
```

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.

SPSS Syntax and Annotation

Indicator 4.12a: Received specialist care

RECODE K4Q24 (0=0) (1=1) (6=99) (7=99) INTO ind4_12a_07.
EXECUTE.
VARIABLE LABELS ind4_12a_07 "Indicator 4.12a: Saw a specialist other than a mental health professional, past 12 months".
VALUE LABELS ind4_12a_07
  0 "No"
  1 "Yes"
  99 "DK/REF".
FORMATS ind4_12a_07 (F4.0).
MISSING VALUES ind4_12a_07 (99).

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 quesions (see above) were used to determined whether a child had visited a health professional in the previous 12 months. Please take these changes into consideration when comparing across survey years.

SPSS Syntax and Annotation

Indicator 4.14: Developmental surveillance

**NOTE: K6Q10 was only asked of children age 0-5 who had at least one visit to a medical professional in the past 12 months

```
COMPUTE ind4_14_07=99.
IF (K6Q10=0) ind4_14_07=0.
IF (k6Q10=1) ind4_14_07=1.
IF (K6Q10=6) or (K6Q10=7) ind4_14_07=99.
IF AGEYR_CHILD>5  ind4_14_07=990.
EXECUTE.
VARIABLE LABELS ind4_14_07 "Indicator 4.14: Screened for parent concerns by a health provider, past 12 months, age 0-5 and had health services".
VALUE LABELS ind4_14_07
0 "No"
1 "Yes"
99 "DK/REF to K6Q10 or No visit during past 12 months"
990 "Age 6-17".
FORMATS ind4_14_07 (F4.0).
MISSING VALUES ind4_14_07 (99, 990).
```

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

SPSS Syntax and Annotation

Indicator 4.16: Developmental screening

*INTERIM VARIABLES -- Create variables for children ages 10-23 months and 24-71 months whose parent survey at well child visit asked about BOTH age-specific content areas

COMPUTE both_10to23 = 999.
IF (K6Q13A = 0 or K6Q13A >=6) or (K6Q13B = 0 or K6Q13B >=6) both_10to23 = 0.
IF (K6Q13A = 1) and (K6Q13B = 1) both_10to23 = 1.
IF (K6Q13A >=6) and (K6Q13B >=6) both_10to23 = 99.
EXECUTE.
VARIABLE LABELS both_10to23 "Complete screening -- ages 10-23 mos".
VALUE LABELS both_10to23
  0 "No or DK/REF to one or both types of content"
  1 "Yes to both types of content"
  99 "DK/REF to both types of content"
  999 "Legit skip -- NOT 10-23 months old".
MISSING VALUES both_10to23 (999).
FORMATS both_10to23 (f3.0).

COMPUTE both_24to71 = 999.
IF (K6Q14A = 0 or K6Q14A >=6) or (K6Q14B = 0 or K6Q14B >=6) both_24to71 = 0.
IF (K6Q14A = 1) and (K6Q14B = 1) both_24to71= 1.
IF (K6Q14A >=6) and (K6Q14B >=6) both_24to71 = 99.
EXECUTE.
VARIABLE LABELS both_24to71 "Complete screening -- ages 24-71 mos".

```
VALUE LABELS both_24to71
  0 "No or DK/REF to one or both types of content"
  1 "Yes to both types of content"
  99 "DK/REF to both types of content"
  999 "Legit skip -- NOT 24-71 months old".
MISSING VALUES both_24to71(999).
FORMATS both_24to71 (f3.0).


*Indicator 4.16:  Standardized developmental screening

COMPUTE ind4_16_07 =99.
IF (K6Q12 = 0) ind4_16_07 = 0.
IF (both_10to23 = 0) or (both_24to71 = 0) ind4_16_07 = 0.
IF (both_10to23 = 1)  ind4_16_07 = 1.
IF (both_24to71 = 1) ind4_16_07 = 1.
IF (both_10to23 = 99) or (both_24to71 = 99) ind4_16_07 = 999.
IF (K6Q12 >=6) ind4_16_07 = 99.
EXECUTE.
VARIABLE LABELS ind4_16_07 "Indicator 4.16: Received complete standardized developmental and behavioral
screening during a health care visit, age 10 months-5 years".
VALUE LABELS ind4_16_07
  0 "No"
  1 "Yes"
  99 "DK/REF to filter OR Legit skip (NOT 10 mos - 6 yrs old)"
  999 "DK/REF to both types of content".
FORMATS ind4_16_07 (f4.0).
MISSING VALUES ind4_16_07 (99, 999).
```

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

SPSS Syntax and Annotation

Indicator 5.1a: IFSP or EIP for developmental problems

COMPUTE ind5_1a_07=999.
IF (K6Q15=0) ind5_1a_07=1.
IF (K6Q15=1) ind5_1a_07=2.
IF (K6Q15=6 or K6Q15=7) ind5_1a_07=99.
IF (AGEYR_CHILD<1) ind5_1a_07=990.
IF (AGEYR_CHILD>=6) ind5_1a_07=990.
EXECUTE .

VARIABLE LABELS ind5_1a_07 "Indicator 5.1a: Individualized Family Services Plan (IFSP) or Individualized Education Program (IEP) for developmental problems, age 1-5".
VALUE LABELS ind5_1a_07
  1 "No"
  2 "Yes"
  99 "DK/REF"
  990 "Skip: Under 1 or 6-17 yrs"
  999 "Sysmiss".
MISSING VALUES ind5_1a_07 (99, 990, 999).
FORMATS ind5_1a_07 (f4.0) .

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 though 17 who have health, behavioral or learning problems for which an Individulized 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

SPSS Syntax and Annotation

Indicator 5.1b: IEP for health condition or disability

COMPUTE ind5_1b_07=999.
IF (K7Q11=0) ind5_1b_07=1.
IF (K7Q11=1) ind5_1b_07=2.
IF (K7Q11=6 or K7Q11=7) ind5_1b_07=99.
IF (AGEYR_CHILD<=5) ind5_1b_07=990.
EXECUTE .

VARIABLE LABELS ind5_1b_07 "Indicator 5.1b: Individualized Education Program (IEP) for health, behavioral, or learning problems, age 6-17".
VALUE LABELS ind5_1b_07
  1 "No"
  2 "Yes"
  99 "DK/REF"
  990 "Skip: age 0-5 yrs"
  999 "Sysmiss".
MISSING VALUES ind5_1b_07 (99, 990, 999).
FORMATS ind5_1b_07 (f4.0) .

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

SPSS Syntax and Annotation

```
***Indicator 5.2: Repeated grades in school***

COMPUTE ind5_2_07=999.
IF (K7Q05=0) ind5_2_07=1.
IF (K7Q05=1) ind5_2_07=2.
IF (K7Q05=6 or K7Q05=7) ind5_2_07=99.
IF (AGEYR_CHILD<=5) ind5_2_07=990.
EXECUTE .

VARIABLE LABELS ind5_2_07 "Indicator 5.2: Repeated any grades in school since starting kindergarten, age 6-17".
VALUE LABELS ind5_2_07
  1 "No"
  2 "Yes"
  99 "DK/REF"
  990 "Skip: age 0-5 yrs"
  999 "Sysmiss".
MISSING VALUES ind5_2_07 (99, 990, 999).
FORMATS ind5_2_07 (f4.0).
```

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

SPSS Syntax and Annotation

Indicator 5.2a: School engagement

RECODE K7Q82 (1 thru 3 = 1) (4=2) (5=3) (6 thru 7 = 99) INTO K7Q82r .
EXECUTE.
VARIABLE LABELS K7Q82r "Cares about doing well in school".
VALUE LABELS K7Q82r
  1 "Never, rarely, sometimes"
  2 "Usually"
  3 "Always"
  99 "DK/REF".

RECODE K7Q83 (1 thru 3 = 1) (4=2) (5=3) (6 thru 7=99) INTO K7Q83r .
EXECUTE.
VARIABLE LABELS K7Q83r "Does all required homework".
VALUE LABELS K7Q83r
  1 "Never, rarely, sometimes"
  2 "Usually"
  3 "Always"
  99 "DK/REF".

COMPUTE ind5_2ar_07 = 2.
IF (K7Q82r = 1) or (K7Q83r = 1) ind5_2ar_07 = 1.
IF (K7Q82r =3) and (K7Q83r =3) ind5_2ar_07 = 3.
IF (K7Q82r = 99) and (K7Q83r = 99) ind5_2ar_07 = 99.
IF (AGEYR_CHILD <=5) ind5_2ar_07 = 990.
EXECUTE.

VARIABLE LABELS ind5_2ar_07 "Indicator 5.2a: Engaged in school - cares about doing well and does homework, past month, age 6-17".
VALUE LABELS ind5_2ar_07
  1 "Never, rarely, sometimes on one or both"
  2 "Usually on one or both"

    3 "Always on both"
    99 "DK/REF or SYSMISS to both"
    990 "Skip: age 0-5 yrs".
 MISSING VALUES ind5_2ar_07 (99, 990).
 FORMATS ind5_2ar_07 (f4.0).

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.

SPSS Syntax and Annotation

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

COMPUTE spts_clubs = 99.
IF (K7Q30 = 1) or (K7Q31 = 1)  spts_clubs = 2.
IF (K7Q30 = 0) and (K7Q31 = 0) spts_clubs = 1.
IF (K7Q30 = 0) and (K7Q31 >=6) spts_clubs= 3.
IF (K7Q30>=6) and (K7Q31 = 0) spts_clubs= 3.
IF (SYSMIS(K7Q30)) and (SYSMIS(K7Q31)) spts_clubs = 990.
IF (AGEYR_CHILD <=5) spts_clubs = 999.
EXECUTE.

VARIABLE LABELS spts_clubs "Interim var to parse out responses to sports and/or clubs".
VALUE LABELS spts_clubs
  1 "No to both Sports and Clubs"
  2 "Yes both Sports and Clubs or DK/REF to one and YES to the other"
  3 "NO to one and DK/REF to other"
  99 "DK to both spts/clubs"
  990 "SYSMISS to both items"
  999 "Skip: less than 6 yrs".

COMPUTE ind5_3_07= 99.
IF (spts_clubs = 2)   ind5_3_07 = 2.
IF (spts_clubs =1) and (K7Q32=0) ind5_3_07= 1.
IF (K7Q32 =1) ind5_3_07= 2.
IF (SYSMIS (K7Q30)) and (SYSMIS (K7Q31)) and (SYSMIS (K7Q32)) ind5_3_07 = 990.
```

```
IF (ageyr_child <=5) ind5_3_07 = 999.
EXECUTE.

VARIABLE LABELS ind5_3_07 "Indicator 5.3: Participation in organized activities outside of school, age 6-17".
VALUE LABELS ind5_3_07
  1 "No"
  2 "Yes"
  99 "DK/REF to all"
  990 "SYSMIS to all items"
  999 "Skip: less than 6yrs".
MISSING VALUES ind5_3_07 (99,990,999).
FORMATS ind5_3_07 (f4.0).
```

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.

SPSS Syntax and Annotation

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***Indicator 5.4: Volunteer activities***

COMPUTE ind5_4_07=999.
IF (K7Q37=1) ind5_4_07=4.
IF (K7Q37=2) ind5_4_07=3.
IF (K7Q37=3) ind5_4_07=2.
IF (K7Q37=4) ind5_4_07=1.
IF (K7Q37=6) or (K7Q37=7) ind5_4_07=99.
IF (AGEYR_CHILD <=11) ind5_4_07=990.
EXECUTE.

VARIABLE LABELS ind5_4_07 "Indicator 5.4: Frequency of participation in volunteer work or community service, past 12 months, age 12-17".
VALUE LABELS ind5_4_07
  1 "Never"
  2 "A few times a year"
  3 "A few times a month"
  4 "Once a week or more"
  99 "DK/REF"
  990 "Skip: age under 12 yrs"
  999 "SYSMISS".
MISSING VALUES ind5_4_07 (99,990,999).
FORMATS ind5_4_07 (f4.0).
```

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.

SPSS Syntax and Annotation

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

COMPUTE ind5_5_07= 999.
IF (K7Q38 =0) or (K7Q39 =0) ind5_5_07= 0.
IF (K7Q39 >0 and K7Q39 <=9) ind5_5_07=1.
IF (K7Q39 >9) ind5_5_07=2.
IF (K7Q39 = 995) ind5_5_07=1.
IF (K7Q39 >=996) or (K7Q38>= 6) ind5_5_07=99.
IF (AGEYR_CHILD <=11) ind5_5_07= 990.
EXECUTE.

VARIABLE LABELS ind5_5_07 "Indicator 5.5: Hours spent working for pay, past week, age 12-17".
VALUE LABELS ind5_5_07
  0 "No work for pay"
  1 "Up to 9 hours"
  2 "10 hours or more"
  99 "DK/REF"
  990 "Less than 12 yrs old"
  999 "SYSMISS (K7Q38)".
FORMATS ind5_5_07(f3.0).
MISSING VALUES ind5_5_07(99,990,999).
```

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 audiotape, 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.

SPSS Syntax and Annotation

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***Indicator 5.6: Reading for pleasure***

*STEP 1: Interim variable to convert reported units to minutes or hours

COMPUTE read_6to17 = 99.
IF (K7Q50 >0) and (K7Q50A = 1) read_6to17 = K7Q50*1.
IF (K7Q50 >0) and (K7Q50A = 2) read_6to17 = K7Q50/60.
IF (K7Q50 = 995) read_6to17 = 995.
IF (K7Q50 = 0) read_6to17 = 0.
IF (AGEYR_CHILD <=5) read_6to17 = 990.
EXECUTE.

VARIABLE LABELS read_6to17 "Hours spent on average weekday reading for pleasure - ages 6-17".
VALUE LABELS read_6to17
  0 "None"
  99 "DK/REF"
  995 "Child cannot read"
```

990 "Skip: age 0-5 yrs".

*Indicator 5.6 Time spent reading for pleasure

COMPUTE ind5_6_07= 99.
IF (read_6to17 = 0) ind5_6_07= 0.
IF (read_6to17 >0 and read_6to17 <=.50) ind5_6_07= 1.
IF (read_6to17 > .50 and read_6to17 <=1) ind5_6_07= 2.
IF (read_6to17 >1) ind5_6_07= 3.
IF (read_6to17 = 995) ind5_6_07= 995.
IF (K7Q50 = 996 or K7Q50 = 997) ind5_6_07= 99.
IF (SYSMIS(K7Q50)) ind5_6_07= 999.
IF (AGEYR_CHILD <=5) ind5_6_07= 990.
EXECUTE.

VARIABLE LABELS ind5_6_07 "Indicator 5.6: Time spent reading for pleasure on an average weekday, age 6-17".
VALUE LABELS ind5_6_07
  0 "None"
  1 "30 minutes or less"
  2 "31 -60 minutes"
  3 "More than 1 hour"
  99 "DK/REF"
  995 "Child cannot read"
  999 "SYSMIS"
  990 "Skip: age 0-5 yrs".
FORMATS ind5_6_07 (f4.0).
MISSING VALUES ind5_6_07 (99 thru 999).

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.

SPSS Syntax and Annotation

Indicator 5.7: Religious services attendance

RECODE K8Q12R (3 thru 4=3) (6 thru 7=99) (ELSE=COPY) INTO ind5_7_07.
EXECUTE.

VARIABLE LABELS ind5_7_07 "Indicator 5.7: How often do children attend religious services".
VALUE LABELS ind5_7_07
  0 "Never"
  1 "More than once a year but less than once a month"
  2 "At least once a month but less than once a week"
  3 "Once a week or more"
  99 "DK/REF"
  999 "SYSMISS".
FORMATS ind5_7_07 (F4.0).
MISSING VALUES ind5_7_07 (99,999).

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

SPSS Syntax and Annotation

Indicator 6.1: Mother's physical health status

COMPUTE ind6_1_07 = 999.
IF (K9Q20=1) or (K9Q20=2) ind6_1_07=1.
IF (K9Q20=3) ind6_1_07= 2.
IF (K9Q20=4) or (K9Q20=5) ind6_1_07=3.
IF (K9Q20=6) or (K9Q20=7) ind6_1_07=990.
EXECUTE.

VARIABLE LABELS ind6_1_07 "Indicator 6.1: Physical health status of mother, children living with biological, step, adopted or foster mother".
VALUE LABELS ind6_1_07
  1 "Excellent/very good"
  2 "Good"
  3 "Fair/poor"
  990 "DK/REF"
  999 "Missing or no mother in HH".
MISSING VALUES ind6_1_07 (990,999).
FORMATS ind6_1_07 (f4.0).

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.

SPSS Syntax and Annotation

Indicator 6.1a: Mother's physical activity

COMPUTE ind6_1a_07=999.
IF (K9Q30=0) ind6_1a_07=0.
IF (K9Q30=1) or (K9Q30=2) ind6_1a_07=1.
IF (K9Q30=3) or (K9Q30=4) or (K9Q30=5) ind6_1a_07=2.
IF (K9Q30=6) or (K9Q30=7) ind6_1a_07=3.
IF (K9Q30=96) or (K9Q30=97) ind6_1a_07=99.
EXECUTE.

VARIABLE LABELS 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".
VALUE LABELS ind6_1a_07
  0 "None"
  1 "1-2 days"
  2 "3-5 days"
  3 "6-7 days"
  99 "DK/REF"
  999 "Missing or no mother in HH".
EXECUTE.
FORMATS ind6_1a_07 (f4.0).
MISSING VALUES ind6_1a_07 (99,999).

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

SPSS Syntax and Annotation

Indicator 6.1b: Father's physical health status

RECODE K9Q21 (SYSMISS=999) (6=99) (7=99) (ELSE=COPY) INTO K9Q21r.

COMPUTE ind6_1b_07=999.
IF (K9Q21r=1) or (K9Q21r=2) ind6_1b_07=1.
IF (K9Q21r=3) ind6_1b_07=2.
IF (K9Q21r=4) or (K9Q21r=5) ind6_1b_07=3.
IF (K9Q21r=99) ind6_1b_07=99.

VARIABLE LABELS ind6_1b_07 "Indicator 6.1b: Physical health status of father, children living with biological, step, adopted or foster father".
VALUE LABELS ind6_1b_07
  1 "Excellent/very good"
  2 "Good"
  3 "Fair/poor"
  99 "DK/REF"
  999 "Missing or no father in HH".
MISSING VALUES ind6_1b_07 (99, 999).
FORMATS ind6_1b_07 (f4.0).

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.

SPSS Syntax and Annotation

Indicator 6.1c: Father's physical activity

COMPUTE ind6_1c_07=999.
IF (K9Q31=0) ind6_1c_07=0.
IF (K9Q31=1) or (K9Q31=2) ind6_1c_07=1.
IF (K9Q31=3) or (K9Q31=4) or (K9Q31=5) ind6_1c_07=2.
IF (K9Q31=6) or (K9Q31=7) ind6_1c_07=3.
IF (K9Q31=96) or (K9Q31=97) ind6_1c_07=99.
EXECUTE.

VARIABLE LABELS 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".
VALUE LABELS ind6_1c_07
  0 "None"
  1 "1-2 days"
  2 "3-5 days"
  3 "6-7 days"
  99 "DK/REF"
  999 "Missing or no father in HH".
EXECUTE.
FORMATS ind6_1c_07 (f4.0).
MISSING VALUES ind6_1c_07 (99, 999).

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

SPSS Syntax and Annotation

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

COMPUTE ind6_2_07 = 999.
IF (K9Q23=1) or (K9Q23=2) ind6_2_07=1.
IF (K9Q23=3) ind6_2_07= 2.
IF (K9Q23=4) or (K9Q23=5) ind6_2_07=3.
IF (K9Q23=6) or (K9Q23=7) ind6_2_07=99.
EXECUTE.

VARIABLE LABELS ind6_2_07 "Indicator 6.2: Mental and emotional health status of mother, children living with mother".
VALUE LABELS ind6_2_07
  1 "Excellent/very good"
  2 "Good"
  3 "Fair/poor"
  99 "DK/REF"
  999 "Missing or no mother in HH".
MISSING VALUES ind6_2_07 (99, 999).
FORMATS ind6_2_07 (f4.0).
```

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

SPSS Syntax and Annotation

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

RECODE K9Q24 (SYSMISS=999) (6=99) (7=99) (ELSE=COPY) INTO K9Q24r.

COMPUTE ind6_2a_07=999.
IF (K9Q24r=1) or (K9Q24r=2) ind6_2a_07=1.
IF (K9Q24r=3) ind6_2a_07=2.
IF (K9Q24r=4) or (K9Q24r=5) ind6_2a_07=3.
IF (K9Q24r=99) ind6_2a_07=99.
VARIABLE LABELS ind6_2a_07 "Indicator 6.2a: Mental and emotional health status of father, children living with father".
VALUE LABELS ind6_2a_07
  1 "Excellent/very good"
  2 "Good"
  3 "Fair/poor"
  99 "DK/REF"
  999 "Missing or no father in HH".
MISSING VALUES ind6_2a_07 (99, 999).
FORMATS ind6_2a_07 (f4.0).

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

SPSS Syntax and Annotation

Indicator 6.3: Mother's overall health status

MISSING VALUES K9Q23 K9Q20 ().
COMPUTE ind6_3_07=999.
IF (K9Q23 <=5 and K9Q20 <=5) ind6_3_07=1.
IF (K9Q23 <=2 and K9Q20 <=2) ind6_3_07=2.

VARIABLE LABELS ind6_3_07 "Indicator 6.3: Mother's overall physical AND mental-emotional health status, children living with biological, step, adopted or foster mother".
VALUE LABELS ind6_3_07
  1 "One or both NOT excellent/very good"
  2 "BOTH are excellent/very good"
  999 "Missing or no mother in HH".
MISSING VALUES ind6_3_07 (999).
FORMATS ind6_3_07 (f4.0).

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

SPSS Syntax and Annotation

```
***Indicator 6.3a: Father's overall health status***

RECODE K9Q21 K9Q24 (SYSMISS=999) (6=99) (7=99) (ELSE=COPY) INTO K9Q21r K9Q24r.
VARIABLE LABELS
  K9Q21r "Health condition of father"/
  K9Q24r "Mental/emotional condition of father".
VALUE LABELS K9Q21r K9Q24r
  1 "Excellent"
  2 "Very good"
  3 "Good"
  4 "Fair"
  5 "Poor"
  99 "DK/REF"
  999 "SYSMISS".
FORMATS K9Q21r K9Q24r (F4.0).
MISSING VALUES K9Q21r K9Q24r ().

COMPUTE ind6_3a_07=999.
IF (K9Q21 <=5 and K9Q24 <=5) ind6_3a_07=1.
IF (K9Q21 <=2 and K9Q24 <=2) ind6_3a_07=2.
EXECUTE.

VARIABLE LABELS ind6_3a_07 "Indicator 6.3a: Father's overall physical AND mental-emotional health status,
children living with biological, step, adopted or foster father".
VALUE LABELS ind6_3a_07
  1 "One or both NOT excellent/very good"
  2 "BOTH are excellent/very good"
  999 "Missing or no father in HH".
MISSING VALUES ind6_3a_07 (999).
FORMATS ind6_3a_07 (f4.0).
```

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

SPSS Syntax and Annotation

```
***Indicator 6.4: Tobacco smoker in household***

MISSING VALUES K9Q40 ().
COMPUTE ind6_4_07=999.
IF (K9Q40=0) ind6_4_07=0.
IF (K9Q40=1) ind6_4_07=1.
IF (K9Q40=6) or (K9Q40=7) ind6_4_07=99.
EXECUTE.

VARIABLE LABELS ind6_4_07 "Indicator 6.4: Living in household in which someone uses cigarettes, cigars, or pipe
tobacco".
VALUE LABELS ind6_4_07
  0 "No"
  1 "Yes"
  99 "DK/REF"
  999 "SYSMIS".
FORMATS ind6_4_07 (f4.0).
MISSING VALUES ind6_4_07 (99,999).
```

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

SPSS Syntax and Annotation

Indicator 6.4a: Secondhand smoke exposure

COMPUTE ind6_4a_07 = 999.
IF (K9Q40=0) ind6_4a_07=1.
IF (K9Q40=1) and (K9Q41=0) ind6_4a_07 = 2.
IF (K9Q40=1) and (K9Q41=1) ind6_4a_07 = 3.
IF (K9Q40=6) or (K9Q41=6) ind6_4a_07 = 99.
IF (K9Q40=7) or (K9Q41=7) ind6_4a_07 = 99.
IF (K9Q40=1) and (K9Q41=6) ind6_4a_07 =999.
IF (K9Q40=1) and (K9Q41=7) ind6_4a_07 =999.
EXECUTE.

VARIABLE LABELS ind6_4a_07 "Indicator 6.4a: Whether tobacco smoker lives in household and, if so, exposure to secondhand smoke inside home".
VALUE LABELS ind6_4a_07
  1 "Non-smoking household"
  2 "Smoker present but no smoking inside house"
  3 "Smoker present and smoking occurs inside house"
  99 "DK/REF"
  999 "SYSMIS".
FORMATS ind6_4a_07 (f4.0).
MISSING VALUES ind6_4a_07 (99,999).

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 povery 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/slaits/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.

SPSS Syntax and Annotation

Indicator 6.5: Children in "working poor" households

*SKIP STEP 1 if povlev4_07 already exists with single imputation for missing income values;
*See Appendix C for information on single imputation using NCHS version 3 imputed income data file

*STEP 1: Children living in household with income below Federal Poverty Level;
*Create Income variable with 7812 cases missing values;

RECODE POVERTY_LEVELR (1=1) (2 thru 5=2) (6 thru 7=3) (8=4) INTO povlev4_07.
VARIABLE LABELS povlev4_07 "HH Income level based on DHHS Federal Poverty Level guidelines".
VALUE LABELS povlev4_07
  1 "0-99% FPL"
  2 "100-199% FPL"
  3 "200-399% FPL"
  4 "400% FPL or greater".
FORMATS povlev4_07 (F4.0).

*STEP 2: Children living in household where someone worked at least 50 of last 52 weeks

RECODE K11Q50 (SYSMISS=999) (6 thru 7=99) (else=copy) INTO K11Q50_r.
VARIABLE LABELS K11Q50_r "Did anyone in HH work 50 weeks in the past year?".
VALUE LABELS K11Q50_r
  0 "No"
  1 "Yes"
  99 "DK/Refused"
  999 "SYSMISS".
FORMATS K11Q50_r (F4.0).

*Indicator 6.5: Working poor households

COMPUTE ind6_5_07=999.
IF (povlev4_07 >0 and povlev4_07 <=4) and (K11Q50=0 or K11Q50=1) ind6_5_07=1.
IF (povlev4_07=1 and K11Q50=1) ind6_5_07=2.
IF (povlev4_07=999) ind6_5_07=995.
IF (K11Q50=6 or K11Q50=7) ind6_5_07=99.
EXECUTE.

VARIABLE LABELS ind6_5_07 "Indicator 6.5: Living in 'working poor' household - income below poverty level and someone employed all year".
VALUE LABELS ind6_5_07
  1 "No"
  2 "Yes"
  99 "DK/REF on employment"
  995 "Missing on income"
  999 "Missing".
FORMATS ind6_5_07 (f4.0).
MISSING VALUES ind6_5_07 (99,995,999).

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.

SPSS Syntax and Annotation

```
***Indicator 6.6: Family outings***

COMPUTE ind6_6_07=999.
IF (K6Q64=0) ind6_6_07=0.
IF (K6Q64=1) or (K6Q64=2) or (K6Q64=3) ind6_6_07=1.
IF (K6Q64=4) or (K6Q64=5) or (K6Q64=6) ind6_6_07=2.
IF (K6Q64=7) ind6_6_07=3.
IF (K6Q64=96) or (K6Q64=97) ind6_6_07=99.
IF (AGEYR_CHILD>5) ind6_6_07=999.
EXECUTE.

VARIABLE LABELS ind6_6_07 "Indicator 6.6: Number of days children went on outings with family members, past week, age 0-5".
VALUE LABELS ind6_6_07
  0 "No days"
  1 "1 - 3 days"
  2 "4 - 6 days"
  3 "Every day"
  99 "DK/REF"
  999 "Missing or age 6-17".
FORMATS ind6_6_07 (f4.0).
MISSING VALUES ind6_6_07 (99,999).
```

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

SPSS Syntax and Annotation

```
***Indicator 6.7: Family reads to children***

COMPUTE ind6_7_07=999.
IF (K6Q60=0) ind6_7_07=0.
IF (K6Q60=1) or (K6Q60=2) ind6_7_07=1.
IF (K6Q60=3) or (K6Q60=4) ind6_7_07=2.
IF (K6Q60=5) or (K6Q60=6) ind6_7_07=3.
IF (K6Q60=7) ind6_7_07=4.
IF (K6Q60=96) or (K6Q60=97) ind6_7_07=99.
IF (AGEYR_CHILD>5) ind6_7_07=999.
EXECUTE.

VARIABLE LABELS ind6_7_07 "Indicator 6.7: Number of days family members read stories to children, past week, age 0-5".
VALUE LABELS ind6_7_07
  0 "No days"
  1 "1 or 2 days"
  2 "3 or 4 days"
  3 "5 or 6 days"
  4 "Every day"
  99 "DK/REF"
  999 "Missing or age 6-17".
FORMATS ind6_7_07 (f4.0).
MISSING VALUES ind6_7_07 (99,999).
```

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

SPSS Syntax and Annotation

Indicator 6.7a: Family sings or tells stories

COMPUTE ind6_7a_07=999.
IF (K6Q61=0) ind6_7a_07=0.
IF (K6Q61=1) or (K6Q61=2) ind6_7a_07=1.
IF (K6Q61=3) or (K6Q61=4) ind6_7a_07=2.
IF (K6Q61=5) or (K6Q61=6) ind6_7a_07=3.
IF (K6Q61=7) ind6_7a_07=4.
IF (K6Q61=96) or (K6Q61=97) ind6_7a_07=99.
IF (AGEYR_CHILD>5) ind6_7a_07=999.
EXECUTE.

VARIABLE LABELS ind6_7a_07 "Indicator 6.7a: Number of days family members sang or told stories to children, past week, age 0-5".
VALUE LABELS ind6_7a_07
  0 "No days"
  1 "1 or 2 days"
  2 "3 or 4 days"
  3 "5 or 6 days"
  4 "Every day"
  99 "DK/REF"
  999 "Missing or age 6-17".
FORMATS ind6_7a_07 (f4.0).
MISSING VALUES ind6_7a_07 (99,999).

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

SPSS Syntax and Annotation

```
***Indicator 6.8: Family meals***

COMPUTE ind6_8_07=999.
IF (K8Q11=0) ind6_8_07=0.
IF (K8Q11=1) or (K8Q11=2) or (K8Q11=3) ind6_8_07=1.
IF (K8Q11=4) or (K8Q11=5) or (K8Q11=6) ind6_8_07=2.
IF (K8Q11=7) ind6_8_07=3.
IF (K8Q11=96) or (K8Q11=97) ind6_8_07=99.
EXECUTE.

VARIABLE LABELS ind6_8_07 "Indicator 6.8: Number of days all household family members shared a meal, past week".
VALUE LABELS ind6_8_07
  0 "No days"
  1 "1 - 3 days"
  2 "4 - 6 days"
  3 "Every day"
  99 "DK/REF"
  999 "SYSMISS".
FORMATS ind6_8_07 (f4.0).
MISSING VALUES ind6_8_07 (99,999).
```

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

SPSS Syntax and Annotation

```
***Indicator 6.9: Adequate sleep***

COMPUTE ind6_9_07=999.
IF (K7Q40=0) ind6_9_07=0.
IF (K7Q40=1) or (K7Q40=2) or (K7Q40=3) ind6_9_07=1.
IF (K7Q40=4) or (K7Q40=5) or (K7Q40=6) ind6_9_07=2.
IF (K7Q40=7) ind6_9_07=3.
IF (K7Q40=96) or (K7Q40=97) ind6_9_07=99.
IF (AGEYR_CHILD<6) ind6_9_07=999.
EXECUTE.

VARIABLE LABELS ind6_9_07 "Indicator 6.9: Number of nights children had enough sleep, past week, age 6-17".
VALUE LABELS ind6_9_07
  0 "No nights"
  1 "1 - 3 nights"
  2 "4 - 6 nights"
  3 "Every night"
  99 "DK/REF"
  999 "Missing or age 0-5".
FORMATS ind6_9_07 (f4.0).
MISSING VALUES  ind6_9_07 (99,999).
```

Family Health and Activities

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?". Take the change from the term "school day" to the term "weekday" into consideration when comparing results across survey years.

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.

SPSS Syntax and Annotation

Indicator 6.10: TV and video, age 6-17

*STEP 1: Convert reported units to minutes or hours

COMPUTE tv_6to17 = 99.
IF (K7Q60 >0) and (K7Q60A = 1) tv_6to17 = K7Q60*1.
IF (K7Q60 >0) and (K7Q60A = 2) tv_6to17 = K7Q60/60.
IF (K7Q60 = 0) or (K7Q60 = 995) tv_6to17 = 0.
IF (AGEYR_CHILD<=5) tv_6to17 = 999.
EXECUTE.

VARIABLE LABELS tv_6to17 "Hours of TV, videos or video games per weekday, age 6-17".
VALUE LABELS tv_6to17
  0 "Does not watch TV"
  99 "DK/REF"
  999 "Skip: 0-5 yrs".

*Indicator 6.10: TV screen time for pleasure, age 6-17

COMPUTE ind6_10_07 = 99.
IF (tv_6to17 = 0) ind6_10_07 = 0.
IF (tv_6to17 > 0 and tv_6to17 <= 1) ind6_10_07 = 1.
IF (tv_6to17 >1 and tv_6to17<4) ind6_10_07 = 2.
IF (tv_6to17 >=4 and tv_6to17<=12) ind6_10_07 = 3.

```
IF (tv_6to17  =99) ind6_10_07 = 99.
IF (tv_6to17  = 999) ind6_10_07 = 999.
EXECUTE.

VARIABLE LABELS ind6_10_07 "Indicator 6.10: Hours spent watching TV or videos or playing video games on an
average weekday, age 6-17".
VALUE LABELS ind6_10_07
  0 "None"
  1 "1 hour or less"
  2 "Between 1 and 4 hours "
  3 "4 hours or more"
  99 "DK/REF/Sysmis"
  999 "Skip: 0-5 yrs".
FORMATS ind6_10_07 (f4.0).
MISSING VALUES ind6_10_07 (99,999).
```

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

SPSS Syntax and Annotation

```
***Indicator 6.10a: TV and video, age 1-5***

*STEP 1: Convert reported units to minutes or hours

COMPUTE tv_0to5 = 99.
IF (K6Q65 >0) and (K6Q65A = 1) tv_0to5 = K6Q65*1.
IF (K6Q65 >0) and (K6Q65A = 2) tv_0to5 = K6Q65/60.
IF (K6Q65  = 0) or (K6Q65 = 995) tv_0to5 = 0.
IF (AGEYR_CHILD>=6) tv_0to5 = 999.
EXECUTE.

VARIABLE LABELS tv_0to5 "Hours of TV or videos per weekday, age 1-5".
VALUE LABELS tv_0to5
  0 "Does not watch TV"
  99 "DK/REF/Sysmis"
  999 "Skip: 6-17 yrs".


*Indicator 6.10a: TV time

COMPUTE ind6_10a_07 = 99.
IF (tv_0to5 = 0) ind6_10a_07 = 0.
IF (tv_0to5 > 0  and tv_0to5 <= 1) ind6_10a_07 = 1.
IF (tv_0to5 >1 and tv_0to5 <4) ind6_10a_07 = 2.
IF (tv_0to5 >=4 and tv_0to5 <=14) ind6_10a_07 = 3.
IF (tv_0to5 =99) ind6_10a_07 = 99.
IF (tv_0to5 = 999) ind6_10a_07 = 999.
IF (AGEYR_CHILD <1) ind6_10a_07 = 990.
EXECUTE.

VARIABLE LABELS ind6_10a_07 "Indicator 6.10a: Time spent watching TV or videos, age 1-5".
VALUE LABELS ind6_10a_07
  0 "None"
```

```
  1 "1 hour or less"
  2 "Between 1 and 4 hours "
  3 "4 hours or more"
  99 "DK/REF/Sysmis"
  990 "Skip: Less than 1 yr old"
  999 "Skip: age 6-17 yrs".
FORMATS ind6_10a_07 (f4.0).
MISSING VALUES ind6_10a_07 (99, 990, 999).
```

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

SPSS Syntax and Annotation

```
***Indicator 6.10b: TV in bedroom***

COMPUTE ind6_10b_07= 99.
IF (K7Q62=0) ind6_10b_07=2.
IF (K7Q62=1) ind6_10b_07=1.
IF (K7Q60=995) ind6_10b_07=2.
IF (AGEYR_CHILD <=5) ind6_10b_07=990.
EXECUTE.

VARIABLE LABELS ind6_10b_07 "Indicator 6.10b: Television set in child's bedroom, age 6-17".
VALUE LABELS ind6_10b_07
  1 "Yes"
  2 "No"
  99 "DK/REF/Sysmis"
  990 "Skip: age 0-5 yrs".
MISSING VALUES ind6_10b_07 (99,990).
FORMATS ind6_10b_07 (f4.0).
```

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.

SPSS Syntax and Annotation

```
***Indicator 6.11: Child stays home alone***

COMPUTE ind6_11_07 = 99.
IF (K7Q35 = 0) ind6_11_07 = 0.
IF (K7Q36 >0) ind6_11_07 =1.
IF (K7Q36 >=996) or (K7Q35 >= 6) ind6_11_07 =99.
IF (SYSMIS (K7Q35)) ind6_11_07 = 990.
IF (AGEYR_CHILD<=5 or AGEYR_CHILD>=12) ind6_11_07 = 999.
EXECUTE.

VARIABLE LABELS ind6_11_07 "Indicator 6.11: Spent any time at home without an adult or teenager present, past week, age 6-11".
VALUE LABELS ind6_11_07
  0 "No"
  1 "Yes"
  99 "DK/REF"
  990 "SYSMISS"
  999 "Less than 6 yrs old or over 12 yrs old".
FORMATS ind6_11_07 (f4.0).
MISSING VALUES ind6_11_07 (99,990,999).
```

Data Resource Center for Child and Adolescent Health
Child and Adolescent Health Measurement Initiative   - 116 -   2007 NSCH Child Health Indicators: SPSS Code for Data Users
Version 1.2: November 2010

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 reponses 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.

SPSS Syntax and Annotation

```
***Indicator 6.12: Parental aggravation***

RECODE K8Q31 K8Q32 K8Q34 (1 thru 3=0) (4 thru 5=1) (6 thru 7=99) (SYSMIS=99) INTO diffcare bother angry.
EXECUTE.
VARIABLE LABELS diffcare "K8Q31 Much harder to care for than most children"/
  bother "K8Q32 Does things that really bother parent a lot"/
  angry "K8Q34 Felt angry with child".
VALUE LABELS diffcare bother angry
  0 "Never, rarely or sometimes"
  1 "Usually or always"
  99 "DK/REF or SYSMISS".

*Count variable one or more responses of usually/always.

COUNT agg_ct = diffcare bother angry (1).
VARIABLE LABELS agg_ct "Count usually/always responses".
COMPUTE ind6_12_07 = 999.
IF (agg_ct >= 1) ind6_12_07 = 1.
IF (agg_ct = 0) ind6_12_07 = 0.
IF (diffcare = 99) and (bother = 99) and (angry = 99) ind6_12_07 = 99.
EXECUTE.
VARIABLE LABELS 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".
VALUE LABELS ind6_12_07
  0 "None"
  1 "One or more"
  99 "DK/REF or SYSMISS to all 3 items".
MISSING VALUES ind6_12_07 (99).
FORMATS diffcare bother angry agg_ct ind6_12_07 (f4.0).
```

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.

SPSS Syntax and Annotation

Indicator 6.13: Dependable child care

```
RECODE K6Q26 (0=1) (1 thru 2=2) (3 thru 100=3) (996 thru 997=99) (SYSMISS=999) INTO K6Q26_r.
EXECUTE.
VARIABLE LABELS K6Q26_r "Number of times in past month when parents needed to change childcare
arrangements (age 0-5 who used or needed child care)".
VALUE LABELS K6Q26_r
  1 "0 times"
  2 "1-2 times"
  3 "3+ times"
  99 "DK/REF"
  999 "SYSMISS".
FORMATS K6Q26_r (F4.0).

COMPUTE ind6_13_07=999.
IF (K6Q26_r=1) ind6_13_07=1.
IF (K6Q26_r=2) ind6_13_07=2.
IF (K6Q26_r=3) ind6_13_07=3.
IF (K6Q26_r=99) ind6_13_07=99.
IF (K6Q25A=0) ind6_13_07=0.
IF (AGEYR_CHILD > 5) ind6_13_07=995.
EXECUTE.
```

VARIABLE LABELS 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".
VALUE LABELS ind6_13_07
  0 "Did not need/use child care"
  1 "None"
  2 "1-2 times"
  3 "3 or more times"
  99 "DK/REF"
  995 "Children 6 years or older"
  999 "SYSMISS".
FORMATS ind6_13_07 (F4.0).
MISSING VALUES ind6_13_07 (99,995,999).

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

SPSS Syntax and Annotation

Indicator 6.14: Employment affected by child care issues

MISSING VALUES K6Q27 ().
COMPUTE ind6_14_07=999.
IF (K6Q27=0) ind6_14_07=0.
IF (K6Q27=1) ind6_14_07=1.
IF (K6Q27=6 or K6Q27=7) ind6_14_07=99.
IF (AGEYR_CHILD > 5) ind6_14_07=995.
EXECUTE.

VARIABLE LABELS ind6_14_07 "Indicator 6.14: Child care problems affected employment of family members, past 12 months, age 0-5".
VALUE LABELS ind6_14_07
  0 "No"
  1 "Yes"
  99 "DK/REF"
  995 "Children 6 years or older"
  999 "SYSMISS".
FORMATS ind6_14_07 (F4.0).
MISSING VALUES ind6_14_07 (99,995,999).

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 KJ6Q27 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.

SPSS Syntax and Annotation

```
***Indicator 6.15: Child care problems***

RECODE K6Q26 (0=0) (1 thru 100=1) (996 thru 997=99) (SYSMIS=999) INTO K6Q26r.
RECODE K6Q27 (6 thru 7=99) (SYSMIS=999) (ELSE=COPY) INTO K6Q27r.
EXECUTE.
VARIABLE LABELS
  K6Q26r "PROBLEMS with child care arrangements"/
  K6Q27r "ISSUES with employment due to child care" .
VALUE LABELS K6Q26r K6Q27r
  0 "None"
  1 "One or more"
  99 "DK/Refused"
  999 "Missing".
FORMATS K6Q26r K6Q27r (f4.0).

COMPUTE ind6_15_07=99.
IF K6Q26r=0 and K6Q27r=0 ind6_15_07=2.
IF K6Q25A=0 ind6_15_07=1.
IF K6Q26r=1 or K6Q27r=1 ind6_15_07=3.
IF AGEYR_CHILD>5 ind6_15_07=990.
EXECUTE .

VARIABLE LABELS 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".
VALUE LABELS ind6_15_07
  1 "Did not need/use child care"
  2 "Neither type"
```

    3 "One or both types"
    99 "DK/Ref or missing"
    990 "Age 6 or older".
FORMATS ind6_15_07 (f4.0).
MISSING VALUES ind6_15_07 (99,990).

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.

SPSS Syntax and Annotation

Indicator 6.16a: Family or non-family child care

COMPUTE ind6_16a_07=99.
IF (K6Q20=0) and (K6Q21=0) ind6_16a_07=0.
IF (K6Q21=0) and (K6Q20>=6) ind6_16a_07=0.
IF (K6Q21=1) and (K6Q20=6) ind6_16a_07=2.
IF (K6Q20=0) and (K6Q21=6) ind6_16a_07=0.
IF (K6Q20=1) and (K6Q21>=6) ind6_16a_07=1.
IF (K6Q20=0) and (K6Q21=1) ind6_16a_07=2.
IF (K6Q20=1) and (K6Q21=0) ind6_16a_07=1.
IF (K6Q20=1) and (K6Q21=1) ind6_16a_07=3.
IF (AGEYR_CHILD > 5) ind6_16a_07=995.
EXECUTE.

VARIABLE LABELS 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".
VALUE LABELS ind6_16a_07
  0 "Neither"
  1 "Non-relatives"
  2 "Relatives"
  3 "BOTH types of child care"
  99 "DK/REF"
  995 "Age 6 years or older".
FORMATS ind6_16a_07 (F4.0).
MISSING VALUES ind6_16a_07 (99,995).

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.

SPSS Syntax and Annotation

```
***Indicator 6.16b: Child care 10+ hours per week***

COMPUTE ind6_16b_07=99.
IF (K6Q20=0) and (K6Q21=0) ind6_16b_07=0.
IF (K6Q21=0) and (K6Q20>=6) ind6_16b_07=0.
IF (K6Q21=1) and (K6Q20=6) ind6_16b_07=1.
IF (K6Q20=0) and (K6Q21=6) ind6_16b_07=0.
IF (K6Q20=1) and (K6Q21>=6) ind6_16b_07=1.
IF (K6Q20=0) and (K6Q21=1) ind6_16b_07=1.
IF (K6Q20=1) and (K6Q21=0) ind6_16b_07=1.
IF (K6Q20=1) and (K6Q21=1) ind6_16b_07=1.
IF (AGEYR_CHILD > 5) ind6_16b_07=995.
EXECUTE.

VARIABLE LABELS ind6_16b_07 "Indicator 6.16b: Spends 10 or more hours per week in child care with relatives or
non-relatives, age 0-5".
VALUE LABELS ind6_16b_07
  0 "No"
  1 "Yes"
  99 "DK/REF"
  995 "Child 6 years or older".
FORMATS ind6_16b_07 (f4.0).
MISSING VALUES ind6_16b_07 (99,995).
```

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

SPSS Syntax and Annotation

Indicator 7.1: Supportive neighborhoods

*STEP 1: Recode social capital items

RECODE K10Q30 K10Q31 K10Q32 K10Q34 (6 THRU 7=99) (SYSMIS=999) (ELSE=COPY) INTO K10Q30_r K10Q31_r K10Q32_r K10Q34_r.
EXECUTE.
VARIABLE LABELS
  K10Q30_r "K10Q30 People help each other out"/
  K10Q31_r "K10Q31 Watch each other's children"/
  K10Q32_r "K10Q32 People I can count on"/
  K10Q34_r "K10Q34 Adults I can trust".
VALUE LABELS K10Q30_r K10Q31_r K10Q32_r K10Q34_r
  1 "Definitely agree"
  2 "Somewhat agree"
  3 "Somewhat disagree"
  4 "Definitely disagree"
  99 "DK/REF"
  999 "SYSMISS".
FORMATS K10Q30_r K10Q31_r K10Q32_r K10Q34_r (f4.0).

*STEP 2: Create count variable to identify/ verify starting point denominator; verify that scores are calculated from cases with valid responses to at least 3 of the 4 items

COUNT check_neigh = K10Q30_r K10Q31_r K10Q32_r K10Q34_r (99).
IF (K10Q30_r = 999) and (K10Q31_r = 999) and (K10Q32_r = 999) and (K10Q34_r = 999) check_neigh = 999.
EXECUTE.

VARIABLE LABELS check_neigh "Count of cases with response of DK-REF (99) to any of the 4 social capital items".
VALUE LABELS check_neigh
  0 "Answered all 4 questions"
  1 "Answered 3 of 4 questions"
  2 "Answered 2 of 4 questions"
  3 "Answered 1 of 4 questions"
  4 "DK/REF to all 4 questions"
  999 "SYSMIS to any of 4 questions".

*STEP 3: Set responses you want to exclude from MEAN score calculation to SYSMIS
*The following code ONLY computes mean score across questions for cases with at least 3 valid responses; cases with 2, 1, or 0 valid responses to the 4 items used in this score are excluded from the neighborhood_cohesion variable

RECODE K10Q30_r K10Q31_r K10Q32_r K10Q34_r (99=SYSMIS) (999=SYSMIS).
EXECUTE.
COMPUTE neighborhood_cohesion = MEAN.3 (K10Q30_r, K10Q31_r, K10Q32_r, K10Q34_r).
EXECUTE.
VARIABLE LABELS neighborhood_cohesion "Mean score on social capital items for cases with 3 or 4 valid responses".
FORMATS neighborhood_cohesion (F4.2).

*Indicator 7.1: Supportive neighborhoods

COMPUTE ind7_1_07 = 99.
IF (neighborhood_cohesion > 2.2) ind7_1_07 = 1.
IF (neighborhood_cohesion <=2.2) ind7_1_07 = 2.
EXECUTE.

VARIABLE LABELS ind7_1_07 "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".
VALUE LABELS ind7_1_07
  1 "No"
  2 "Yes"
  99 "DK/REF or SYSMISS to more than one".
FORMAT ind7_1_07 (f4.0).
MISSING VALUES ind7_1_07 (99,999).

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

SPSS Syntax and Annotation

```
***Indicator 7.2: Safe neighborhoods***

COMPUTE ind7_2_07=999.
IF (K10Q40=1) ind7_2_07=1.
IF (K10Q40=2) ind7_2_07=2.
IF (K10Q40=3) or (K10Q40=4) ind7_2_07=3.
IF (K10Q40=6) or (K10Q40=7) ind7_2_07=99.
EXECUTE.

VARIABLE LABELS ind7_2_07 "Indicator 7.2: Parents feel children are safe in their community or neighborhood".
VALUE LABELS ind7_2_07
  1 "Never"
  2 "Sometimes"
  3 "Usually/always"
  99 "DK/REF"
  999 "Sysmiss".
MISSING VALUES ind7_2_07 (99, 999).
FORMATS ind7_2_07 (f4.0).
```

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

SPSS Syntax and Annotation

Indicator 7.3: Safe schools

COMPUTE ind7_3_07=999.
IF (K10Q41=1) ind7_3_07=1.
IF (K10Q41=2) ind7_3_07=2.
IF (K10Q41=3) or (K10Q41=4) ind7_3_07=3.
IF (K10Q41>=6) ind7_3_07=99.
IF (AGEYR_CHILD<=5) ind7_3_07=990.

VARIABLE LABELS ind7_3_07 "Indicator 7.3: Parents feel children are safe at school, age 6-17".
VALUE LABELS ind7_3_07
  1 "Never"
  2 "Sometimes"
  3 "Usually/always"
  99 "DK/REF"
  990 "Skip: age 0-5 yrs"
  999 "Missing or not in school".
MISSING VALUES ind7_3_07 (99, 990, 999).
FORMATS ind7_3_07 (f4.0).

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.

SPSS Syntax and Annotation

```
***Indicator 7.4: Neighborhood amenities***

RECODE K10Q11 K10Q12 K10Q13 K10Q14 (0=0) (1=1) (6 THRU 7=99) (SYSMISS=999)
 INTO sidwlks_07 park_07 recentr_07 library_07.
EXECUTE.
VARIABLE LABELS
  sidwlks_07 "K10Q11 sidewalks or walking paths"/
  park_07 "K10Q12 park or playground area"/
  recentr_07 "K10Q13 recreation center, community center or Boys'/Girls' Club"/
  library_07 "K10Q14 library or bookmobile".
VALUE LABELS sidwlks_07 park_07 recentr_07 library_07
  0 "No"
  1 "Yes"
  99 "DK/Refused"
  999 "Missing".
COUNT ind7_4_07= sidwlks_07 park_07 recentr_07 library_07 (1).
IF (sidwlks_07=99 or park_07=99 or recentr_07=99 or library_07=99) ind7_4_07=99.
IF (sidwlks_07=999 or park_07=999 or recentr_07=999 or library_07=999) ind7_4_07=999.
EXECUTE.

VARIABLE LABELS 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".
VALUE LABELS ind7_4_07
  0 "None"
  1 "One of 4 types"
  2 "Two of 4 types"
  3 "Three of 4 types"
  4 "All 4 amenities"
  99 "DK/REF to one or more"
  999 "SYSMISS to one or more".
FORMATS ind7_4_07 (f4.0).
MISSING VALUES ind7_4_07 (99,999).
```

Indicator 7.5: Detracting neighborhood elements

How many children live in neighborhoods with detracting elements -- graffitti, 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.

SPSS Syntax and Annotation

```
***Indicator 7.5: Detracting neighborhood elements***

RECODE K10Q20 K10Q22 K10Q23 (0=0) (1=1) (6 THRU 7=99) (SYSMISS=999)
 INTO litter_07 housing_07 vandal_07.
EXECUTE.
VARIABLE LABELS
  litter_07 "K10Q20 litter or garbage on sidewalks and streets"/
  housing_07 "K10Q22 poorly kept or dilapidated housing"/
  vandal_07 "K10Q23 broken windows or graffiti".
VALUE LABELS  litter_07 housing_07 vandal_07
  0 "No"
  1 "Yes"
  99 "DK/Refused"
  999 "Missing".
COUNT ind7_5_07=litter_07 housing_07 vandal_07 (1).
IF (litter_07=99 or housing_07=99 or vandal_07=99) ind7_5_07=99.
IF (litter_07=999 or housing_07=999 or vandal_07=999) ind7_5_07=999.
EXECUTE.

VARIABLE LABELS ind7_5_07 "Indicator 7.5: Of three types of detracting elements (litter or garbage, poorly kept
housing, vandalism), number present in neighborhood".
VALUE LABELS ind7_5_07
  0 "None"
  1 "One of 3 types"
  2 "Two of 3 types"
  3 "All 3 detractors"
  99 "DK/REF to one or more"
  999 "SYSMISS to one or more".
FORMATS ind7_5_07 (f4.0).
MISSING VALUES ind7_5_07 (99,999).
```

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

SPSS Syntax and Annotation

```
***Age of child - 3 groups***

RECODE AGEYR_CHILD (0 thru 5=1) (6 thru 11=2) (12 thru 17=3) INTO age3_07 .
EXECUTE .

VARIABLE LABELS age3_07 "Age of child - 3 groups".
VALUE LABELS age3_07
  1 "0-5 yrs old"
  2 "6-11 yrs old"
  3 "12-17 yrs old".
FORMATS age3_07 (f4.0).
```

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

SPSS Syntax and Annotation

```
***Age of child - 5 groups***

RECODE AGEYR_CHILD (0 thru 3=1) (4 thru 7=2) (8 thru 11=3) (12 thru 14=4) (15 thru 17=5) INTO age5_07 .
EXECUTE .

VARIABLE LABELS age5_07 "Age of child - 5 groups".
VALUE LABELS 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".
FORMATS age5_07 (f4.0).
```

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

SPSS Syntax and Annotation

```
***Sex of child***

RECODE SEX (ELSE=COPY) into sex_07.
EXECUTE.

VARIABLE LABELS sex_07 "Sex of child".
VALUE LABELS sex_07
  1 "Male"
  2 "Female"
  6 "DK"
  7 "Refused".
FORMATS sex_07 (f4.0).
MISSING VALUES sex_07 (6,7).
```

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/slaits/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.

SPSS Syntax and Annotation

```
***Race and ethnicity of child***

COMPUTE race5_07 = 999.
IF (HISPANIC = 0) and (RACER = 1) race5_07 = 2.
IF (HISPANIC = 0) and (RACER = 2) race5_07 = 3.
IF (HISPANIC = 0) and (RACER = 3) race5_07 = 4.
IF (HISPANIC = 0) and (RACER = 4) race5_07 = 5.
IF (HISPANIC = 1) race5_07 = 1.
EXECUTE.

VARIABLE LABELS race5_07 "Race and ethnicity of child".
VALUE LABELS race5_07
  1 "Hispanic, any race"
  2 "White, non-Hispanic"
  3 "Black, non-Hispanic"
  4 "Multi-racial, non-Hispanic"
  5 "Other, non-Hispanic"
  999 "DK/REF/SYSMISS to HISPANIC or RACER or both".
MISSING VALUES race5_07 (99,999).
FORMATS race5_07 (f4.0).
```

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

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.

Excludes 1,593 children whose race, ethnicity, and/or primary household language is unknown (weighted estimate: 1.9% of all children age 0-17).

Revisions

Question K1Q03 was newly added in 2007; not asked about in 2003

SPSS Syntax and Annotation

```
***Primary household language***

*STEP 1: Construct race5_07 (if necessary)

COMPUTE race5_07 = 999.
IF (HISPANIC = 0) and (RACER = 1) race5_07 = 2.
IF (HISPANIC = 0) and (RACER = 2) race5_07 = 3.
IF (HISPANIC = 0) and (RACER = 3) race5_07 = 4.
IF (HISPANIC = 0) and (RACER = 4) race5_07 = 5.
IF (HISPANIC = 1) race5_07 = 1.
EXECUTE.
VARIABLE LABELS race5_07 "Race/ethnicity".
VALUE LABELS race5_07
  1 "Hispanic, any race"
  2 "White, non-Hispanic"
  3 "Black, non-Hispanic"
  4 "Multi-racial, non-Hispanic"
  5 "Other, non-Hispanic"
  999 "DK/REF/SYSMISS to HISPANIC or RACER or both".
FORMATS race5_07 (f4.0).

*STEP 2: Primary language spoken in household

MISSING VALUES race5_07 ().
COMPUTE hisplang_07 = 99.
IF (race5_07 = 1) and (PLANGUAGE = 2) hisplang_07 = 1.
IF (race5_07 = 1) and (PLANGUAGE = 1) hisplang_07 = 2.
IF (race5_07>1) hisplang_07 = 3.
IF (PLANGUAGE >=6)  hisplang_07 = 99.
```

```
IF (race5_07 = 999) hisplang_07 = 99.
EXECUTE.


VARIABLE LABELS hisplang_07 "Primary household language".
VALUE LABELS hisplang_07
  1 "Hispanic, non-English HH"
  2 "Hispanic, English HH"
  3 "Non-Hispanic child"
  99 "DK/REF or MISSING to PLANGUAGE and/or race5_07".
FORMATS hisplang_07 (f4.0).
MISSING VALUES hisplang_07 (99).
MISSING VALUES race5_07 (99,999).
```

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 bother 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

SPSS Syntax and Annotation

```
***Family structure***

RECODE FAMSTRUCT (ELSE=COPY) INTO famstruct_07.
EXECUTE.

VARIABLE LABELS famstruct_07 "Type of family structure in household".
VALUE LABELS famstruct_07
  1 "Two parent, biological or adopted"
  2 "Two parent, step family"
  3 "Single mother, no father present"
  4 "Other family type".
FORMATS famstruct_07 (f4.0).
```

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/slaits/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.

SPSS Syntax and Annotation

Income level of household

RECODE POVERTY_LEVELR (1=1) (2 thru 5=2) (6 thru 7=3) (8=4) INTO povlev4_07.

VARIABLE LABELS povlev4_07 "Household income level expressed as percentage of Federal Poverty Level (FPL)".
VALUE LABELS povlev4_07
  1 "0-99% FPL"
  2 "100-199% FPL"
  3 "200-399% FPL"
  4 "400% FPL or greater".
FORMATS povlev4_07 (f4.0).

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

SPSS Syntax and Annotation

```
***Household income level - SCHIP categories***

RECODE POVERTY_LEVELR (1 thru 5=1) (6=2) (7=3) (8=4) INTO povSCHIP_07.

VARIABLE LABELS povSCHIP_07 "Household income level grouped by SCHIP income criteria".
VALUE LABELS povSCHIP_07
  1 "0-199% FPL"
  2 "200-299% FPL"
  3 "300-399% FPL"
  4 "400% FPL or greater".
FORMATS povSCHIP_07 (f4.0).
```

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 chidlren 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, calcuations and groupings are the same as 2003

SPSS Syntax and Annotation

```
***Children with Special Health Care Needs***

*TO USE EXISTING VARIABLE CSHCN

COMPUTE metlwi_07 = CSHCN.
VARIABLE LABELS metlwi_07 "How many children have special health care needs".
VALUE LABELS metlwi_07
  1 "Yes"
  0 "No".
FORMATS metlwi_07 (f4.0).
EXECUTE.

*TO SCORE CSHCN SCREENER FROM SURVEY ITEMS

COMPUTE rxmeds_07 = 0.
IF K2Q10 = 1 and K2Q11 = 1 and K2Q12 = 1 rxmeds_07 = 1.
COMPUTE serve_07 = 0.
IF K2Q13 = 1 and K2Q14 =1 and K2Q15 = 1 serve_07 = 1.
COMPUTE func_07 = 0.
IF K2Q16 = 1 and K2Q17 = 1 and K2Q18 = 1 func_07 = 1.
COMPUTE therapy_07 = 0.
IF K2Q19 = 1 and K2Q20 = 1 and K2Q21 = 1 therapy_07 = 1.
COMPUTE mhealth_07 = 0.
```

```
IF K2Q22 = 1 and K2Q23 = 1 mhealth_07 = 1.
EXECUTE.

VARIABLE LABELS
  rxmeds_07 "Qualified on rx med use?"/
  serve_07 "Qualified on elevated service use or needs?"/
  func_07 "Qualified on functional limits?"/
  therapy_07 "Qualified on use of special therapies?"/
  mhealth_07 "Qualified on ongoing emotional, developmental or behavioral conditions?".
VALUE LABELS rxmeds_07 serve_07 func_07 therapy_07 mhealth_07
  1 "Yes"
  0 "No".
FORMATS rxmeds_07 serve_07 func_07 therapy_07 mhealth_07 (f4.0).

COMPUTE lwiscren_07 = sum (rxmeds_07, serve_07, func_07, therapy_07, mhealth_07).
EXECUTE.
VARIABLE LABELS lwiscren_07 "Number of qualifying CSHCN Screener answers".
VALUE LABELS lwiscren_07
  0 "No qualifying answers"
  1 "One qualifying answer"
  2 "Two qualifying answers"
  3 "Three qualifying answers"
  4 "Four qualifying answers"
  5 "Five qualifying answers".
FORMATS lwiscren_07 (f4.0).

*Children qualifying as CSHCN

COMPUTE metlwi_07 = (lwiscren_07 > 0).
EXECUTE.
VARIABLE LABELS metlwi_07 "CSHCN Screener - Children with Special Health Care Needs based on ongoing health
conditions resulting in one or more of 5 health consequences".
VALUE LABELS metlwi_07
  1 "CSHCN"
  0 "Non-CSHCN".
FORMATS metlwi_07 (f4.0).
```

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.

SPSS Syntax and Annotation

Type of Special Health Care Needs (CSHCN)

*STEP 1: CSHCN Screener scoring
*Identify children who qualify on the each of five CSHCN screening criteria
*Number of qualifying criteria and overall number of children identified

COMPUTE rxmeds_07 = 0.
IF K2Q10 = 1 and K2Q11 = 1 and K2Q12 = 1 rxmeds_07 = 1.
COMPUTE serve_07 = 0.
IF K2Q13 = 1 and K2Q14 =1 and K2Q15 = 1 serve_07 = 1.
COMPUTE func_07 = 0.
IF K2Q16 = 1 and K2Q17 = 1 and K2Q18 = 1 func_07 = 1.

```
COMPUTE therapy_07 = 0.
IF K2Q19 = 1 and K2Q20 = 1 and K2Q21 = 1 therapy_07 = 1.
COMPUTE mhealth_07 = 0.
IF K2Q22 = 1 and K2Q23 = 1 mhealth_07 = 1.
EXECUTE.

VARIABLE LABELS
  rxmeds_07 "Qualified on rx med use?"/
  serve_07 "Qualified on elevated service use or needs?"/
  func_07 "Qualified on functional limits?"/
  therapy_07 "Qualified on use of special therapies?"/
  mhealth_07 "Qualified on ongoing emotional, developmental or behavioral conditions?".
VALUE LABELS rxmeds_07 serve_07 func_07 therapy_07 mhealth_07
  1 "Yes"
  0 "No".
FORMATS rxmeds_07 serve_07 func_07 therapy_07 mhealth_07 (f4.0).

* STEP 2:  Compute mutually exclusive sub groupings of special health care need types based on type of qualifying
screening criteria (qualitative approach)

COMPUTE def5_07 = 0.
IF func_07 = 1 and (serve_07< 2 or therapy_07< 2 or rxmeds_07< 2 or mhealth_07< 2) def5_07 = 1.
IF func_07 = 0 and rxmeds_07 = 1 and (serve_07 = 0 and therapy_07 = 0 and mhealth_07 = 0) def5_07 = 2.
IF func_07 = 0 and rxmeds_07 = 0 and (serve_07 = 1 or therapy_07 = 1 or mhealth_07 = 1) def5_07 = 3.
IF func_07 = 0 and rxmeds_07 = 1 and (serve_07 = 1 or therapy_07 = 1 or mhealth_07 = 1) def5_07 = 4.
EXECUTE.

VARIABLE LABELS def5_07 "CSHCN Grouped by Type and Complexity of Special Health Care Needs".
VALUE LABELS def5_07
  0 "Non-CSHCN"
  1 "Func (only or w/ any other)"
  2 "Rx meds ONLY"
  3 "Service use ONLY"
  4 "Rx meds AND service use".
MISSING VALUES def5_07 (0).
FORMATS def5_07 (f4.0).
```

Appendix A: Indicator and Subgroup Variables

Unweighted Frequency Tables

SECTION 1: Physical and Dental Health

Indicator 1.1: Children's overall health status

ind1_1_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Excellent/very good	80456	87.8	87.8	87.8
	2 Good	8976	9.8	9.8	97.6
	3 Fair/poor	2186	2.4	2.4	100.0
	Total	91618	100.0	100.0	
Missing	99 DK or REF	24	.0		
Total		91642	100.0		

Indicator 1.2: Condition of children's teeth, age 1-17

ind1_2_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Excellent/very good	66136	72.2	76.2	76.2
	2 Good	15644	17.1	18.0	94.3
	3 Fair/poor	4984	5.4	5.7	100.0
	Total	86764	94.7	100.0	
Missing	99 DK/Ref or no natural teeth	90	.1		
	990 Skip: less than 1 yr old	4769	5.2		
	999 Missing	19	.0		
	Total	4878	5.3		
Total		91642	100.0		

Indicator 1.2a: Two or more oral health problems, past 6 months, age 1-17

ind1_2a_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No oral health problems	65716	71.7	75.7	75.7
	1 1 oral health problem	14969	16.3	17.2	92.9
	2 2 or more oral health problems	6163	6.7	7.1	100.0
	Total	86848	94.8	100.0	
Missing	99 DK/Ref to both questions	6	.0		
	990 Less than 1 yr old	4769	5.2		
	999 Missing any of 4 questions	19	.0		
	Total	4794	5.2		
Total		91642	100.0		

Indicator 1.3: Ever breastfed or fed breast milk, age 0-5

ind1_3_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No	6293	6.9	23.0	23.0
	1 Yes	21095	23.0	77.0	100.0
	Total	27388	29.9	100.0	
Missing	6 DK	171	.2		
	7 REF	7	.0		
	995 Skip: age 6-17 yrs	64076	69.9		
	Total	64254	70.1		
Total		91642	100.0		

Indicator 1.3a: Exclusively breastfed or fed breast milk for first 6 months, age 6 months-5 years

ind1_3a_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Never breastfed or given breast milk	5901	6.4	23.4	23.4
	2 Exclusively breastfed for first 6 months	3438	3.8	13.6	37.1
	3 Breastfed, NOT exclusively, first 6 months	15574	17.0	61.8	98.9
	4 Breastfed, exclusivity not known	284	.3	1.1	100.0
	Total	25197	27.5	100.0	
Missing	99 DK/REF/Age out of range	66445	72.5		
Total		91642	100.0		

Indicator 1.4: Weight status - BMI-for-age, 4 categories, age 10-17

ind1_4_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Underweight - less than 5th percentile	2186	2.4	5.0	5.0
	2 Healthy weight - 5th to 84th percentile	29121	31.8	66.0	71.0
	3 Overweight - 85th to 94th percentile	6754	7.4	15.3	86.3
	4 Obese - 95th percentile or above	6040	6.6	13.7	100.0
	Total	44101	48.1	100.0	
Missing	System	47541	51.9		
Total		91642	100.0		

Indicator 1.5: Physical activity, number of days in past week, age 6-17

ind1_5_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 0 days	5767	6.3	9.1	9.1
	2 1-3 days	16053	17.5	25.3	34.4
	3 4-6 days	23498	25.6	37.0	71.4
	4 Every day	18116	19.8	28.6	100.0
	Total	63434	69.2	100.0	
Missing	99 DK/REF	642	.7		
	990 Skip: age less than 6 yrs	27566	30.1		
	Total	28208	30.8		
Total		91642	100.0		

Indicator 1.6: Number of school days missed, past 12 months, age 6-17

ind1_6_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 0 days	13111	14.3	20.7	20.7
	2 1-5 days	38621	42.1	61.0	81.7
	3 6-10 days	7964	8.7	12.6	94.3
	4 11 or more days	3639	4.0	5.7	100.0
	Total	63335	69.1	100.0	
Missing	99 DK/REF/not enrolled	683	.7		
	990 Skip: age 0-5 yrs	27566	30.1		
	System	58	.1		
	Total	28307	30.9		
Total		91642	100.0		

Indicator 1.7: Injuries requiring medical care, past 12 months, age 0-5

ind1_7_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 No	24687	26.9	89.6	89.6
	2 Yes	2856	3.1	10.4	100.0
	Total	27543	30.1	100.0	
Missing	99 DK/REF	23	.0		
	990 Skip: Age 6 or more yrs	64076	69.9		
	Total	64099	69.9		
Total		91642	100.0		

Indicator 1.9: One or more current chronic conditions rated moderate/severe, from 16 conditions listed

ind1_9_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Has no chronic conditions from list	71064	77.5	77.6	77.6
	2 Has mild chronic conditions only	11054	12.1	12.1	89.7
	3 One or more moderate or severe chronic conditions	9440	10.3	10.3	100.0
	Total	91558	99.9	100.0	
Missing	99 DK/REF to all severity rating on conditions	84	.1		
Total		91642	100.0		

Indicator 1.9a: Children with 1 or more current chronic health conditions from list of 16

ind1_9a_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 No current chronic conditions from list	71064	77.5	77.5	77.5
	2 1 current chronic condition	12639	13.8	13.8	91.3
	3 2 or more chronic conditions	7937	8.7	8.7	100.0
	Total	91640	100.0	100.0	
Missing	99 DK/REF to all	2	.0		
Total		91642	100.0		

Indicator 1.13: Health conditions limit participation in school, organized activities, or friendships, CSHCN age 6-17

ind1_13_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 None of 3 listed	10428	11.4	69.3	69.3
	1 One activity limited	2563	2.8	17.0	86.3
	2 2 or all 3 limited	2058	2.2	13.7	100.0
	Total	15049	16.4	100.0	
Missing	995 Non-CSHCN, age 6-17	49027	53.5		
	999 Age 0-5 years	27566	30.1		
	Total	76593	83.6		
Total		91642	100.0		

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	Valid Percent	Cumulative Percent
Valid	1 None reported	16182	17.7	61.8	61.8
	2 One or more concerns	10010	10.9	38.2	100.0
	Total	26192	28.6	100.0	
Missing	99 Skip: younger than 4 mos or 6 or more yrs old	65450	71.4		
Total		91642	100.0		

Indicator 2.2: At risk for developmental, behavioral, or social delays, age 4 months-5 years

ind2_2_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Low or no risk	19871	21.7	75.9	75.9
	1 Moderate risk	3924	4.3	15.0	90.9
	2 High risk	2379	2.6	9.1	100.0
	Total	26174	28.6	100.0	
Missing	System	65468	71.4		
Total		91642	100.0		

Indicator 2.2a: Play with other children their age, number of days in past week, age 1-5

ind2_2a_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Did not play with other children	1827	2.0	8.0	8.0
	1 Played on 1-3 days	6349	6.9	27.9	35.9
	2 Played on 4-6 days	8457	9.2	37.2	73.1
	3 Played every day	6116	6.7	26.9	100.0
	Total	22749	24.8	100.0	
Missing	99 DK/REF	48	.1		
	990 Less than 1 yr old	4769	5.2		
	995 Age 6 or older	64076	69.9		
	Total	68893	75.2		
Total		91642	100.0		

Indicator 2.5: Usually or always exhibits at least 2 of 4 positive social skills listed, age 6-17

ind2_5_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No	3465	3.8	5.4	5.4
	1 Yes	60545	66.1	94.6	100.0
	Total	64010	69.8	100.0	
Missing	990 Less than 6 years old	27566	30.1		
	999 Missing/unknown	66	.1		
	Total	27632	30.2		
Total		91642	100.0		

Data Resource Center for Child and Adolescent Health   2007 NSCH Child Health Indicators: SPSS Code for Data Users
Child and Adolescent Health Measurement Initiative (CAHMI)   Version 1.2: November 2010

A-5

Indicator 2.6: Usually or always exhibits 2 or more of 4 problematic behaviors listed, age 6-17

ind2_6_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No	59438	64.9	92.8	92.8
	1 Yes	4604	5.0	7.2	100.0
	Total	64042	69.9	100.0	
Missing	990 Less than 6 years old	27566	30.1		
	999 Missing/unknown	34	.0		
	Total	27600	30.1		
Total		91642	100.0		

Indicator 2.7: Current use of medication for ADD/ADHD, age 2-17

ind2_7_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Has ADD/ADHD and using medication	3756	4.1	4.6	4.6
	2 Has ADD/ADHD, no medication	1736	1.9	2.1	6.7
	3 Does not currently have ADD/ADHD	76193	83.1	93.3	100.0
	Total	81685	89.1	100.0	
Missing	990 Skip: age less than 2 yrs	9622	10.5		
	999 Missing/unknown	335	.4		
	Total	9957	10.9		
Total		91642	100.0		

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

ind2_7a_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Does not currently have ADD/ADHD	76193	83.1	93.3	93.3
	2 Mild	2554	2.8	3.1	96.4
	3 Moderate or severe	2906	3.2	3.6	100.0
	Total	81653	89.1	100.0	
Missing	999 DK/REF or missing or less than 2 years old	9989	10.9		
Total		91642	100.0		

Indicator 2.8: Prevalence of parent-reported current autism or other autism spectrum disorder, age 2-17

ind2_8_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Never had an autism spectrum disorder	80496	87.8	98.3	98.3
	2 Previously told, not currently	459	.5	.6	98.9
	3 Current autism or other autism spectrum disorder	921	1.0	1.1	100.0
	Total	81876	89.3	100.0	
Missing	99 DK	9751	10.6		
	999 SYSMISS	15	.0		
	Total	9766	10.7		
Total		91642	100.0		

**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	Valid Percent	Cumulative Percent
Valid	1 Does not currently have autism spectrum disorder	80955	88.3	98.9	98.9
	2 Mild	497	.5	.6	99.5
	3 Moderate	324	.4	.4	99.9
	4 Severe	91	.1	.1	100.0
	Total	81867	89.3	100.0	
Missing	999 DK/REF or missing or less than 2 years old	9775	10.7		
Total		91642	100.0		

**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	Valid Percent	Cumulative Percent
Valid	0 No	76291	83.2	93.1	93.1
	1 Yes	5676	6.2	6.9	100.0
	Total	81967	89.4	100.0	
Missing	99 DK/REF to K4Q23	38	.0		
	995 Children under 2 years	9622	10.5		
	999 Missing/unknown	15	.0		
	Total	9675	10.6		
Total		91642	100.0		

SECTION 3: Health Insurance Coverage

Indicator 1.3: Current insurance coverage (K3Q01)

ind3_1_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No	6808	7.4	7.4	7.4
	1 Yes	84651	92.4	92.6	100.0
	Total	91459	99.8	100.0	
Missing	99 DK/REF	183	.2		
Total		91642	100.0		

Indicator 3.2: Consistency of children's health insurance coverage over previous 12 months

ind3_2_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Insured continuously AND currently insured	80472	87.8	88.1	88.1
	2 Uninsured at any time and/or currently uninsured	10880	11.9	11.9	100.0
	Total	91352	99.7	100.0	
Missing	99 DK/REF	132	.1		
	999 SYSMIS	158	.2		
	Total	290	.3		
Total		91642	100.0		

Indicator 3.3: Current health insurance status and type of insurance

ind3_3_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Public insurance such as Medicaid or SCHIP	19748	21.5	21.8	21.8
	2 Private insurance such as employer or self-insured	64165	70.0	70.7	92.5
	3 Currently uninsured	6808	7.4	7.5	100.0
	Total	90721	99.0	100.0	
Missing	99 DK/REF	921	1.0		
Total		91642	100.0		

Indicator 3.4: Insurance plan usually or always meets all of three criteria, children who are currently insured

ind3_4_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 YES, coverage is adequate	64726	70.6	76.5	76.5
	2 No, not adequate	19919	21.7	23.5	100.0
	Total	84645	92.4	100.0	
Missing	99 DK/REF to all questions	31	.0		
	990 Uninsured	6808	7.4		
	999 Missing	158	.2		
	Total	6997	7.6		
Total		91642	100.0		

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	Valid Percent	Cumulative Percent
Valid	1 No visits	11149	12.2	12.3	12.3
	2 Yes, one or more visits	79667	86.9	87.7	100.0
	Total	90816	99.1	100.0	
Missing	99 DK/REF	826	.9		
Total		91642	100.0		

Indicator 4.2: Visited a dentist for preventive services, past 12 months, age 1-17

ind4_2_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 No visits	16044	17.5	18.5	18.5
	2 Yes, one or more visits	70488	76.9	81.5	100.0
	Total	86532	94.4	100.0	
Missing	99 DK/REF	341	.4		
	990 Less than 12 months old	4769	5.2		
	Total	5110	5.6		
Total		91642	100.0		

Indicator 4.3: Received preventive health care and, if 1 year or older, preventive dental care in past 12 months

ind4_3_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Did not receive one or both	24427	26.7	27.0	27.0
	1 Received BOTH medical and dental	66180	72.2	73.0	100.0
	Total	90607	98.9	100.0	
Missing	99 DK/REF	1035	1.1		
Total		91642	100.0		

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	Valid Percent	Cumulative Percent
Valid	1 Yes	2214	2.4	35.4	35.4
	2 No	4044	4.4	64.6	100.0
	Total	6258	6.8	100.0	
Missing	99 DK/REF or did not need mental health srvs	75762	82.7		
	999 Age less than 2 yrs	9622	10.5		
	Total	85384	93.2		
Total		91642	100.0		

Indicator 4.6a: Medical, dental, mental health, or other type of health care delayed or not received, past 12 months

ind4_6a_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No unmet health needs	86229	94.1	94.2	94.2
	1 Unmet need for one or more type	5291	5.8	5.8	100.0
	Total	91520	99.9	100.0	
Missing	99 DK/REF to all	18	.0		
	999 DK/REF to K4Q27	104	.1		
	Total	122	.1		
Total		91642	100.0		

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	Valid Percent	Cumulative Percent
Valid	0 No, care DOES NOT meet medical home criteria	33669	36.7	38.2	38.2
	1 Care MEETS ALL medical home criteria	54393	59.4	61.8	100.0
	Total	88062	96.1	100.0	
Missing	99 DK/Ref/unknown to any of 5 sub-component measures	3580	3.9		
Total		91642	100.0		

Indicator 4.9: Children who have at least one personal doctor or nurse (PDN)

ind4_9_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes, one or more	85177	92.9	93.2	93.2
	2 No personal doctor or nurse	6203	6.8	6.8	100.0
	Total	91380	99.7	100.0	
Missing	99 DK/REF	262	.3		
Total		91642	100.0		

Indicator 4.9a: Children who have a usual place for care when sick or need health advice

ind4_9a_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No, criteria not met	4635	5.1	5.1	5.1
	1 Yes, has usual place	86809	94.7	94.9	100.0
	Total	91444	99.8	100.0	
Missing	99 DK/REF/MISSING	198	.2		
Total		91642	100.0		

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	Valid Percent	Cumulative Percent
Valid	0 No, criteria not met	24461	26.7	28.1	28.1
	1 Yes, met FCC criteria	62528	68.2	71.9	100.0
	Total	86989	94.9	100.0	
Missing	99 DK/REF to any or no visits in past year	4653	5.1		
Total		91642	100.0		

Indicator 4.9c: Problems getting referrals needed to see doctors or receive services, past 12 months

ind4_9c_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No referrals needed	76297	83.3	83.5	83.5
	1 No problem	12527	13.7	13.7	97.2
	2 Small or big problem	2538	2.8	2.8	100.0
	Total	91362	99.7	100.0	
Missing	99 DK/REF/MISSING	280	.3		
Total		91642	100.0		

Indicator 4.9d: Received effective care coordination help when needed

ind4_9d_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No need or less than 2 services	52573	57.4	58.0	58.0
	1 Yes, received effective coordination	26742	29.2	29.5	87.6
	2 No, needed but did not receive	11264	12.3	12.4	100.0
	Total	90579	98.8	100.0	
Missing	System	1063	1.2		
Total		91642	100.0		

Indicator 4.12: Needed or received specialist care and problems getting it, past 12 months

ind4_12_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Not needed	65880	71.9	72.0	72.0
	1 No problem	20144	22.0	22.0	94.1
	2 Small or big problem	5413	5.9	5.9	100.0
	Total	91437	99.8	100.0	
Missing	99 DK/REF	203	.2		
	999 SYSMISS	2	.0		
	Total	205	.2		
Total		91642	100.0		

Indicator 4.12a: Saw a specialist other than a mental health professional, past 12 months

ind4_12a_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No	69061	75.4	75.5	75.5
	1 Yes	22447	24.5	24.5	100.0
	Total	91508	99.9	100.0	
Missing	99 DK/REF	134	.1		
Total		91642	100.0		

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	Valid Percent	Cumulative Percent
Valid	0 No	12944	14.1	48.9	48.9
	1 Yes	13518	14.8	51.1	100.0
	Total	26462	28.9	100.0	
Missing	99 DK/REF to K6Q10 or no Dr. visits	1104	1.2		
	990 Age 6-17	64076	69.9		
	Total	65180	71.1		
Total		91642	100.0		

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	Valid Percent	Cumulative Percent
Valid	0 No	17960	19.6	80.6	80.6
	1 Yes	4310	4.7	19.4	100.0
	Total	22270	24.3	100.0	
Missing	99 DK/REF to filter OR Legit skip (NOT 10 mos - 6 yrs old)	69254	75.6		
	999 DK/REF to both types of content	118	.1		
	Total	69372	75.7		
Total		91642	100.0		

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	Valid Percent	Cumulative Percent
Valid	1 No	21616	23.6	95.2	95.2
	2 Yes	1086	1.2	4.8	100.0
	Total	22702	24.8	100.0	
Missing	99 DK/REF	95	.1		
	990 Skip: Under 1 or 6-17 yrs	68845	75.1		
	Total	68940	75.2		
Total		91642	100.0		

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

ind5_1b_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 No	56776	62.0	89.0	89.0
	2 Yes	7038	7.7	11.0	100.0
	Total	63814	69.6	100.0	
Missing	99 DK/REF	262	.3		
	990 Skip: age 0-5 yrs	27566	30.1		
	Total	27828	30.4		
Total		91642	100.0		

Indicator 5.2: Repeated any grades in school since starting kindergarten, age 6-17

ind5_2_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 No	58422	63.8	91.3	91.3
	2 Yes	5546	6.1	8.7	100.0
	Total	63968	69.8	100.0	
Missing	99 DK/REF	108	.1		
	990 Skip: age 0-5 yrs	27566	30.1		
	Total	27674	30.2		
Total		91642	100.0		

Indicator 5.2a: Engaged in school - cares about doing well and does homework, past month, age 6-17

ind5_2ar_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Never, rarely, sometimes on one or both	12037	13.1	18.8	18.8
	2 Usually on one or both	21115	23.0	33.0	51.8
	3 Always on both	30882	33.7	48.2	100.0
	Total	64034	69.9	100.0	
Missing	99 DK/REF or SYSMISS to both	42	.0		
	990 Skip: age 0-5 yrs	27566	30.1		
	Total	27608	30.1		
Total		91642	100.0		

Indicator 5.3: Participation in organized activities outside of school, age 6-17

ind5_3_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 No	9001	9.8	14.1	14.1
	2 Yes	55005	60.0	85.9	100.0
	Total	64006	69.8	100.0	
Missing	99 DK/REF to all	70	.1		
	999 Skip: less than 6yrs	27566	30.1		
	Total	27636	30.2		
Total		91642	100.0		

Indicator 5.4: Frequency of participation in volunteer work or community service, past 12 months, age 12-17

ind5_4_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Never	6341	6.9	17.5	17.5
	2 A few times a year	15510	16.9	42.9	60.4
	3 A few times a month	8900	9.7	24.6	85.0
	4 Once a week or more	5412	5.9	15.0	100.0
	Total	36163	39.5	100.0	
Missing	99 DK/REF	114	.1		
	990 Skip: age under 12 yrs	55358	60.4		
	999 SYSMISS	7	.0		
	Total	55479	60.5		
Total		91642	100.0		

Indicator 5.5: Hours spent working for pay, past week, age 12-17

ind5_5_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No work for pay	21306	23.2	59.1	59.1
	1 Up to 9 hours	9181	10.0	25.5	84.6
	2 10 hours or more	5557	6.1	15.4	100.0
	Total	36044	39.3	100.0	
Missing	99 DK/REF	233	.3		
	990 Less than 12 yrs old	55358	60.4		
	999 SYSMISS (K7Q38)	7	.0		
	Total	55598	60.7		
Total		91642	100.0		

Indicator 5.6: Time spent reading for pleasure on an average weekday, age 6-17

ind5_6_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 None	9977	10.9	15.8	15.8
	1 30 minutes or less	26807	29.3	42.6	58.4
	2 31 -60 minutes	15581	17.0	24.7	83.2
	3 More than 1 hour	10610	11.6	16.8	100.0
	Total	62975	68.7	100.0	
Missing	99 DK/REF	784	.9		
	990 Skip: age 0-5 yrs	27566	30.1		
	995 Child cannot read	285	.3		
	999 SYSMIS	32	.0		
	Total	28667	31.3		
Total		91642	100.0		

Indicator 5.7: How often do children attend religious services

ind5_7_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Never	18917	20.6	20.8	20.8
	1 More than once a year but less than once a month	9308	10.2	10.2	31.0
	2 At least once a month but less than once a week	15598	17.0	17.1	48.1
	3 Once a week or more	47207	51.5	51.9	100.0
	Total	91030	99.3	100.0	
Missing	99 DK/REF	527	.6		
	System	85	.1		
	Total	612	.7		
Total		91642	100.0		

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	Valid Percent	Cumulative Percent
Valid	1 Excellent/very good	59558	65.0	69.7	69.7
	2 Good	18381	20.1	21.5	91.2
	3 Fair/poor	7565	8.3	8.8	100.0
	Total	85504	93.3	100.0	
Missing	99 DK/REF	95	.1		
	999 Missing or no mother in HH	6043	6.6		
	Total	6138	6.7		
Total		91642	100.0		

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	Valid Percent	Cumulative Percent
Valid	0 None	19752	21.6	23.2	23.2
	1 1-2 days	20353	22.2	23.9	47.2
	2 3-5 days	34292	37.4	40.3	87.5
	3 6-7 days	10599	11.6	12.5	100.0
	Total	84996	92.7	100.0	
Missing	99 DK/REF	526	.6		
	999 Missing or no mother in HH	6120	6.7		
	Total	6646	7.3		
Total		91642	100.0		

Indicator 6.1b: Physical health status of father, children living with biological, step, adopted or foster father

ind6_1b_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Excellent/very good	53195	58.0	73.1	73.1
	2 Good	14987	16.4	20.6	93.7
	3 Fair/poor	4555	5.0	6.3	100.0
	Total	72737	79.4	100.0	
Missing	99 DK/REF	64	.1		
	999 Missing or no father in HH	18841	20.6		
	Total	18905	20.6		
Total		91642	100.0		

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	Valid Percent	Cumulative Percent
Valid	0 None	13377	14.6	18.6	18.6
	1 1-2 days	14961	16.3	20.8	39.4
	2 3-5 days	29376	32.1	40.8	80.2
	3 6-7 days	14266	15.6	19.8	100.0
	Total	71980	78.5	100.0	
Missing	99 DK/REF	769	.8		
	999 Missing or no father in HH	18893	20.6		
	Total	19662	21.5		
Total		91642	100.0		

Indicator 6.2: Mental and emotional health status of mother, children living with mother

ind6_2_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Excellent/very good	64499	70.4	75.5	75.5
	2 Good	16000	17.5	18.7	94.2
	3 Fair/poor	4940	5.4	5.8	100.0
	Total	85439	93.2	100.0	
Missing	99 DK/REF	127	.1		
	999 Missing or no mother in HH	6076	6.6		
	Total	6203	6.8		
Total		91642	100.0		

Indicator 6.2a: Mental and emotional health status of father, children living with father

ind6_2a_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Excellent/very good	58409	63.7	80.4	80.4
	2 Good	11443	12.5	15.7	96.1
	3 Fair/poor	2807	3.1	3.9	100.0
	Total	72659	79.3	100.0	
Missing	99 DK/REF	120	.1		
	999 Missing or no father in HH	18863	20.6		
	Total	18983	20.7		
Total		91642	100.0		

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	Valid Percent	Cumulative Percent
Valid	1 One or both NOT excellent/very good	32249	35.2	37.8	37.8
	2 BOTH are excellent/very good	53138	58.0	62.2	100.0
	Total	85387	93.2	100.0	
Missing	999 Missing or no mother in HH	6255	6.8		
Total		91642	100.0		

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	Valid Percent	Cumulative Percent
Valid	1 One or both NOT excellent/very good	23924	26.1	32.9	32.9
	2 BOTH are excellent/very good	48708	53.2	67.1	100.0
	Total	72632	79.3	100.0	
Missing	999 Missing or no father in HH	19010	20.7		
Total		91642	100.0		

Indicator 6.4: Living in household in which someone uses cigarettes, cigars, or pipe tobacco

ind6_4_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No	68587	74.8	75.4	75.4
	1 Yes	22383	24.4	24.6	100.0
	Total	90970	99.3	100.0	
Missing	99 DK/REF	44	.0		
	999 SYSMIS	628	.7		
	Total	672	.7		
Total		91642	100.0		

Indicator 6.4a: Whether tobacco smoker lives in household and, if so, exposure to secondhand smoke inside home

ind6_4a_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Non-smoking household	68587	74.8	75.4	75.4
	2 Smoker present but no smoking inside house	15943	17.4	17.5	92.9
	3 Smoker present and smoking occurs inside house	6431	7.0	7.1	100.0
	Total	90961	99.3	100.0	
Missing	99 DK/REF	44	.0		
	999 SYSMIS	637	.7		
	Total	681	.7		
Total		91642	100.0		

Indicator 6.5: Living in 'working poor' household - income below poverty level and someone employed all year

ind6_5_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 No	77674	84.8	92.8	92.8
	2 Yes	6017	6.6	7.2	100.0
	Total	83691	91.3	100.0	
Missing	99 DK/REF on employment	139	.2		
	999 Missing*	**7812**	**8.5**		
	Total	7951	8.7		
Total		91642	100.0		

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	Valid Percent	Cumulative Percent
Valid	0 No days	647	.7	2.4	2.4
	1 1 - 3 days	11905	13.0	43.3	45.6
	2 4 - 6 days	10779	11.8	39.2	84.8
	3 Every day	4187	4.6	15.2	100.0
	Total	27518	30.0	100.0	
Missing	99 DK/REF	48	.1		
	999 Missing or age 6-17	64076	69.9		
	Total	64124	70.0		
Total		91642	100.0		

Indicator 6.7: Number of days family members read stories to children, past week, age 0-5

ind6_7_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No days	1516	1.7	5.5	5.5
	1 1 or 2 days	2588	2.8	9.4	15.0
	2 3 or 4 days	4498	4.9	16.4	31.4
	3 5 or 6 days	3733	4.1	13.6	45.0
	4 Every day	15087	16.5	55.0	100.0
	Total	27422	29.9	100.0	
Missing	99 DK/REF	144	.2		
	999 Missing or age 6-17	64076	69.9		
	Total	64220	70.1		
Total		91642	100.0		

Indicator 6.7a: Number of days family members sang or told stories to children, past week, age 0-5

ind6_7a_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No days	778	.8	2.8	2.8
	1 1 or 2 days	1724	1.9	6.3	9.1
	2 3 or 4 days	3756	4.1	13.7	22.8
	3 5 or 6 days	3592	3.9	13.1	35.9
	4 Every day	17587	19.2	64.1	100.0
	Total	27437	29.9	100.0	
Missing	99 DK/REF	129	.1		
	999 Missing or age 6-17	64076	69.9		
	Total	64205	70.1		
Total		91642	100.0		

ind6_8_07 Indicator 6.8: Number of days all household family members shared a meal, past week

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No days	3522	3.8	3.9	3.9
	1 1 - 3 days	17824	19.4	19.5	23.4
	2 4 - 6 days	30532	33.3	33.4	56.8
	3 Every day	39514	43.1	43.2	100.0
	Total	91392	99.7	100.0	
Missing	99 DK/REF	174	.2		
	999 SYSMISS	76	.1		
	Total	250	.3		
Total		91642	100.0		

Indicator 6.9: Number of nights children had enough sleep, past week, age 6-17

ind6_9_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No nights	1692	1.8	2.7	2.7
	1 1 - 3 nights	4049	4.4	6.4	9.0
	2 4 - 6 nights	19573	21.4	30.9	39.9
	3 Every night	38128	41.6	60.1	100.0
	Total	63442	69.2	100.0	
Missing	99 DK/REF	634	.7		
	999 Missing or age 0-5	27566	30.1		
	Total	28200	30.8		
Total		91642	100.0		

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	Valid Percent	Cumulative Percent
Valid	0 None	3702	4.0	5.8	5.8
	1 1 hour or less	29239	31.9	45.9	51.7
	2 Between 1 and 4 hours	24543	26.8	38.5	90.3
	3 4 hours or more	6196	6.8	9.7	100.0
	Total	63680	69.5	100.0	
Missing	99 DK/REF/Sysmis	396	.4		
	999 Skip: 0-5 yrs	27566	30.1		
	Total	27962	30.5		
Total		91642	100.0		

Indicator 6.10a: Time spent watching TV or videos, age 1-5

ind6_10a_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 None	1954	2.1	8.6	8.6
	1 1 hour or less	8929	9.7	39.4	48.0
	2 Between 1 and 4 hours	9256	10.1	40.8	88.9
	3 4 hours or more	2524	2.8	11.1	100.0
	Total	22663	24.7	100.0	
Missing	99 DK/REF/Sysmis	134	.1		
	990 Skip: Less than 1 yr old	4769	5.2		
	999 Skip: age 6-17 yrs	64076	69.9		
	Total	68979	75.3		
Total		91642	100.0		

Indicator 6.10b: Television set in child's bedroom, age 6-17

ind6_10b_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	30611	33.4	47.8	47.8
	2 No	33457	36.5	52.2	100.0
	Total	64068	69.9	100.0	
Missing	99 DK/REF/Sysmis	8	.0		
	990 Skip: age 0-5 yrs	27566	30.1		
	Total	27574	30.1		
Total		91642	100.0		

Indicator 6.11: Spent any time at home without an adult or teenager present, past week, age 6-11

ind6_11_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No	24567	26.8	88.7	88.7
	1 Yes	3138	3.4	11.3	100.0
	Total	27705	30.2	100.0	
Missing	99 DK/REF	85	.1		
	990 SYSMISS	2	.0		
	999 Less than 6 yrs old or over 12 yrs old	63850	69.7		
	Total	63937	69.8		
Total		91642	100.0		

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	Valid Percent	Cumulative Percent
Valid	0 None	83985	91.6	91.8	91.8
	1 One or more	7467	8.1	8.2	100.0
	Total	91452	99.8	100.0	
Missing	99 DK/REF or SYSMISS to all 3 items	190	.2		
Total		91642	100.0		

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	Valid Percent	Cumulative Percent
Valid	0 Did not need/use child care	8892	9.7	32.3	32.3
	1 None	11597	12.7	42.2	74.5
	2 1-2 times	4901	5.3	17.8	92.3
	3 3 or more times	2116	2.3	7.7	100.0
	Total	27506	30.0	100.0	
Missing	99 DK/REF	54	.1		
	995 Children 6 years or older	64076	69.9		
	999 SYSMISS	6	.0		
	Total	64136	70.0		
Total		91642	100.0		

Indicator 6.14: Child care problems affected employment of family members, past 12 months, age 0-5

ind6_14_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No	24556	26.8	89.2	89.2
	1 Yes	2987	3.3	10.8	100.0
	Total	27543	30.1	100.0	
Missing	99 DK/REF	23	.0		
	995 Children 6 years or older	64076	69.9		
	Total	64099	69.9		
Total		91642	100.0		

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

ind6_15_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Did not need/use child care	8019	8.8	29.1	29.1
	2 Neither type	10748	11.7	39.1	68.2
	3 One or both types	8751	9.5	31.8	100.0
	Total	27518	30.0	100.0	
Missing	99 DK/Ref or missing	48	.1		
	990 Age 6 or older	64076	69.9		
	Total	64124	70.0		
Total		91642	100.0		

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	Valid Percent	Cumulative Percent
Valid	0 Neither	11418	12.5	41.4	41.4
	1 Non-relatives	9503	10.4	34.5	75.9
	2 Relatives	3793	4.1	13.8	89.7
	3 BOTH types of child care	2847	3.1	10.3	100.0
	Total	27561	30.1	100.0	
Missing	99 DK/REF	5	.0		
	995 Age 6 years or older	64076	69.9		
	Total	64081	69.9		
Total		91642	100.0		

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	Valid Percent	Cumulative Percent
Valid	0 No	11418	12.5	41.4	41.4
	1 Yes	16143	17.6	58.6	100.0
	Total	27561	30.1	100.0	
Missing	99 DK/REF	5	.0		
	995 Child 6 years or older	64076	69.9		
	Total	64081	69.9		
Total		91642	100.0		

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	Valid Percent	Cumulative Percent
Valid	1 No	12452	13.6	13.8	13.8
	2 Yes	77530	84.6	86.2	100.0
	Total	89982	98.2	100.0	
Missing	99 DK/REF or SYSMISS to more than one	1660	1.8		
Total		91642	100.0		

Indicator 7.2: Parents feel children are safe in their community or neighborhood

ind7_2_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Never	1694	1.8	1.9	1.9
	2 Sometimes	8057	8.8	8.9	10.8
	3 Usually/always	80881	88.3	89.2	100.0
	Total	90632	98.9	100.0	
Missing	99 DK/REF	176	.2		
	999 Sysmiss	834	.9		
	Total	1010	1.1		
Total		91642	100.0		

Indicator 7.3: Parents feel children are safe at school, age 6-17

ind7_3_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Never	406	.4	.7	.7
	2 Sometimes	4425	4.8	7.2	7.8
	3 Usually/always	56933	62.1	92.2	100.0
	Total	61764	67.4	100.0	
Missing	99 DK/REF	132	.1		
	990 Skip: age 0-5 yrs	27566	30.1		
	999 Missing or not in school	2180	2.4		
	Total	29878	32.6		
Total		91642	100.0		

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	Valid Percent	Cumulative Percent
Valid	0 None	4289	4.7	4.8	4.8
	1 One of 4 types	6850	7.5	7.7	12.5
	2 Two of 4 types	13273	14.5	14.9	27.5
	3 Three of 4 types	22933	25.0	25.8	53.3
	4 All 4 amenities	41561	45.4	46.7	100.0
	Total	88906	97.0	100.0	
Missing	99 DK/REF to one or more	2000	2.2		
	999 SYSMISS to one or more	736	.8		
	Total	2736	3.0		
Total		91642	100.0		

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	Valid Percent	Cumulative Percent
Valid	0 None	65751	71.7	72.7	72.7
	1 One of 3 types	16089	17.6	17.8	90.5
	2 Two of 3 types	5663	6.2	6.3	96.7
	3 All 3 detractors	2950	3.2	3.3	100.0
	Total	90453	98.7	100.0	
Missing	99 DK/REF to any of the questions	445	.5		
	999 SYSMISS to all of the questions	744	.8		
	Total	1189	1.3		
Total		91642	100.0		

SUBGROUPS for Stratification

Age of child - 3 groups

age3_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 0-5 yrs old	27566	30.1	30.1	30.1
	2 6-11 yrs old	27792	30.3	30.3	60.4
	3 12-17 yrs old	36284	39.6	39.6	100.0
	Total	91642	100.0	100.0	

Age of child - 5 groups

age5_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 0-3 yrs old	18294	20.0	20.0	20.0
	2 4-7 yrs old	18310	20.0	20.0	39.9
	3 8-11 yrs old	18754	20.5	20.5	60.4
	4 12-14 yrs old	16524	18.0	18.0	78.4
	5 15-17 yrs old	19760	21.6	21.6	100.0
	Total	91642	100.0	100.0	

Data Resource Center for Child and Adolescent Health   2007 NSCH Child Health Indicators: SPSS Code for Data Users
Child and Adolescent Health Measurement Initiative (CAHMI)   Version 1.2: November 2010
A-22

Sex of child

sex_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Male	47535	51.9	51.9	51.9
	2 Female	43997	48.0	48.1	100.0
	Total	91532	99.9	100.0	
Missing	6 DK	7	.0		
	7 Refused	103	.1		
	Total	110	.1		
Total		91642	100.0		

Race/ethnicity

race5_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Hispanic, any race	11523	12.6	12.8	12.8
	2 White, non-Hispanic	61377	67.0	68.1	80.9
	3 Black, non-Hispanic	8873	9.7	9.8	90.8
	4 Multi-racial, non-Hispanic	4329	4.7	4.8	95.6
	5 Other, non-Hispanic	3994	4.4	4.4	100.0
	Total	90096	98.3	100.0	
Missing	999 DK/REF/SYSMISS to HISPANIC or RACER or both	1546	1.7		
Total		91642	100.0		

Primary household language

hisplang_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Hispanic, non-English HH	4937	5.4	5.5	5.5
	2 Hispanic, English HH	6554	7.2	7.3	12.8
	3 Non-Hispanic child	78558	85.7	87.2	100.0
	Total	90049	98.3	100.0	
Missing	99 DK/REF or MISSING to PLANGUAGE and/or race5_07	1593	1.7		
Total		91642	100.0		

Type of family structure in household

famstruct_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Two parent, biological or adopted	64095	69.9	70.4	70.4
	2 Two parent, step family	6525	7.1	7.2	77.5
	3 Single mother, no father present	14726	16.1	16.2	93.7
	4 Other family type	5749	6.3	6.3	100.0
	Total	91095	99.4	100.0	
Missing	System	547	.6		
Total		91642	100.0		

Household income level expressed as percentage of Federal Poverty Level (FPL)

povlev4_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 0-99% FPL	9539	10.4	11.4	11.4
	2 100-199% FPL	14105	15.4	16.8	28.2
	3 200-399% FPL	28500	31.1	34.0	62.2
	4 400% FPL or greater	31681	34.6	37.8	100.0
	Total	83825	91.5	100.0	
Missing	**System***	**7817**	**8.5**		
Total		91642	100.0		

Household income level grouped by SCHIP income criteria

povSCHIP_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 0-199% FPL	23644	25.8	28.2	28.2
	2 200-299% FPL	15301	16.7	18.3	46.5
	3 300-399% FPL	13199	14.4	15.7	62.2
	4 400% FPL or greater	31681	34.6	37.8	100.0
	Total	83825	91.5	100.0	
Missing	**System***	**7817**	**8.5**		
Total		91642	100.0		

See Appendix C for information on imputation of missing income level values.

Results for CSHCN Screener

metlwi_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No	73290	80.0	80.0	80.0
	1 Yes	18352	20.0	20.0	100.0
	Total	91642	100.0	100.0	

CSHCN Grouped by Type and Complexity of Special Health Care Needs

def5_07		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Func (only or w/ any other)	3903	4.3	21.3	21.3
	2 Rx meds ONLY	7571	8.3	41.3	62.5
	3 Service use ONLY	2609	2.8	14.2	76.7
	4 Rx meds AND service use	4269	4.7	23.3	100.0
	Total	18352	20.0	100.0	
Missing	0 Non-CSHCN	73290	80.0		
Total		91642	100.0		

Appendix B: Medical Home Variables

Unweighted Frequency Tables

Measuring Medical Home using Data Elements from the 2007 National Survey of Children's Health (NSCH)

SPSS scoring program variable names for the five sub-component scores and associated interim variables used to derive the Medical Home composite measure

	2007 NSCH	
	SPSS 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; USUAL; CARECOOR]
ESTABLISHED RELATIONSHIP WITH A SPECIFIC PROVIDER		
1) **Child has at least one "personal doctor or nurse"**	**PDN**	K4q04
ACCESSIBLE		*Not assessed by the survey*
FAMILY CENTERED		
2) **Child's doctors and other health providers do each of the following:**	**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 a partner in child's care	PARTNER	K5q44
f) f. *IF needed*, interpreter services are <u>usually or always</u> available	INTERPRET	K5q45; K5q46
CONTINUOUS	--	--
COMPREHENSIVE		
3) ***IF needed,*** **no problems obtaining referrals**	**NOREFPRB**	K5q10, K5q11
4) **Usual source(s) of care**	**USUAL**	K4q01; K4q02r
COORDINATED		
5) **Gets effective care coordination when needed**	**CARECOOR**	[CAREHELP; DRCOMM; OTHCOMM]
a) *Needed and usually got* extra help with care coordination	CAREHELP	K5q20r, K5q21r; K5q22
b) *IF needed*, <u>very satisfied</u> with communication btw doctors	DRCOMM	K5q30
c) *IF needed*, <u>very satisfied</u> with how doctors communicate with school or other programs the child attends	OTHCOMM	K5q31; K5q32
COMPASSIONATE		*Assessed under the Family Centered Care component*
CULTURALLY EFFECTIVE		*Assessed under the Family Centered Care component*

PERSONAL DOCTOR OR NURSE

PERSONAL DOCTOR OR NURSE (PDN) -- Sub-component of MEDICAL HOME measure

pdn		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No, does not have PDN	6203	6.8	6.8	6.8
	1 YES, has Personal Doctor or Nurse	85177	92.9	93.2	100.0
	Total	91380	99.7	100.0	
Missing	System	262	.3		
Total		91642	100.0		

FAMILY-CENTERED CARE

Doctors usually or always spend enough time, past 12 months

time		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Sometimes/Never	14933	16.3	16.4	16.4
	1 Usually/Always	73499	80.2	80.9	97.3
	2 No qualifying services	2472	2.7	2.7	100.0
	Total	90904	99.2	100.0	
Missing	99 DK/REF	738	.8		
Total		91642	100.0		

Doctors usually or always listen carefully, past 12 months

listen		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Sometimes/Never	7802	8.5	8.6	8.6
	1 Usually/Always	80807	88.2	88.7	97.3
	2 No qualifying services	2472	2.7	2.7	100.0
	Total	91081	99.4	100.0	
Missing	99 DK/REF	561	.6		
Total		91642	100.0		

Doctors are usually or always sensitive to values and customs

sensitiv		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Sometimes/Never	7313	8.0	8.1	8.1
	1 Usually/Always	81019	88.4	89.2	97.3
	2 No qualifying services	2472	2.7	2.7	100.0
	Total	90804	99.1	100.0	
Missing	99 DK/REF	838	.9		
Total		91642	100.0		

Doctors usually or always provide needed information, past 12 months

info		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Sometimes/Never	11591	12.6	12.7	12.7
	1 Usually/Always	76955	84.0	84.5	97.3
	2 No qualifying services	2472	2.7	2.7	100.0
	Total	91018	99.3	100.0	
Missing	99 DK/REF	624	.7		
Total		91642	100.0		

Doctors usually or always make the family feel like a partner, past 12 months

partner		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Sometimes/Never	9380	10.2	10.3	10.3
	1 Usually/Always	79242	86.5	87.0	97.3
	2 No qualifying services	2472	2.7	2.7	100.0
	Total	91094	99.4	100.0	
Missing	99 DK/REF	548	.6		
Total		91642	100.0		

An interpreter is usually or always available when needed, past 12 months

interpret		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Sometimes/Never	733	.8	.8	.8
	1 Usually/Always	1254	1.4	1.4	2.2
	2 Interpreter not needed	89647	97.8	97.8	100.0
	Total	91634	100.0	100.0	
Missing	99 DK/REF	8	.0		
Total		91642	100.0		

FAMILY-CENTERED CARE (FCC) -- Sub-component of MEDICAL HOME measure

famcent		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No, does not have FCC	24461	26.7	27.3	27.3
	1 YES, has Family-Centered Care	62528	68.2	69.9	97.2
	2 No health services, past 12 months	2472	2.7	2.8	100.0
	Total	89461	97.6	100.0	
Missing	System	2181	2.4		
Total		91642	100.0		

GETTING NEEDED REFERRALS

GETTING NEEDED REFERRALS -- Sub-component of MEDICAL HOME measure

norefprb		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Had big or small problem getting referrals	2538	2.8	2.8	2.8
	1 No problem Getting Needed Referrals	12527	13.7	13.7	16.5
	2 Referrals not needed	76297	83.3	83.5	100.0
	Total	91362	99.7	100.0	
Missing	System	280	.3		
Total		91642	100.0		

USUAL SOURCES OF CARE

USUAL SOURCES OF CARE -- Sub-component of MEDICAL HOME measure

usual		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No usual sources of care	4635	5.1	5.1	5.1
	1 YES, has Usual Sources of Care	86809	94.7	94.9	100.0
	Total	91444	99.8	100.0	
Missing	System	198	.2		
Total		91642	100.0		

EFFECTIVE CARE COORDINATION

Received counseling or treatment from mental health professional, past 12 months, age 2-17

K4Q22r		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No	74669	81.5	91.2	91.2
	1 Yes	7218	7.9	8.8	100.0
	Total	81887	89.4	100.0	
Missing	99 DK/REF	118	.1		
	999 Under 2 yrs or missing	9637	10.5		
	Total	9755	10.6		
Total		91642	100.0		

Received mental health and/or specialist care, past 12 months

need_drcomm		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No, did not receive either	64590	70.5	70.5	70.5
	1 Yes, received one or both	27024	29.5	29.5	100.0
	Total	91614	100.0	100.0	
Missing	99 DK/Ref to both	13	.0		
	999 SYSMISS to both	15	.0		
	Total	28	.0		
Total		91642	100.0		

Satisfaction with communication among health care providers, past 12 months

K5Q30r		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Very satisfied	52591	57.4	76.7	76.7
	2 Somewhat satisfied	13197	14.4	19.2	95.9
	3 Somewhat dissatisfied	1459	1.6	2.1	98.0
	4 Very dissatisfied	658	.7	1.0	99.0
	5 Not needed or not wanted	684	.7	1.0	100.0
	Total	68589	74.8	100.0	
Missing	99 DK/REF	246	.3		
	999 Less than 2 service types	22807	24.9		
	Total	23053	25.2		
Total		91642	100.0		

Very satisfied with communication among doctors

drcomm		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No, less than very satisfied	7343	8.0	8.0	8.0
	1 YES, very satisfied	19067	20.8	20.8	28.8
	2 Not needed	65140	71.1	71.2	100.0
	Total	91550	99.9	100.0	
Missing	99 DK/Ref/missing to any	92	.1		
Total		91642	100.0		

Needed health care providers to communicate with school or other services, past 12 months

K5Q31r		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No	78087	85.2	88.2	88.2
	1 Yes	10420	11.4	11.8	100.0
	Total	88507	96.6	100.0	
Missing	99 DK/REF	663	.7		
	999 No health services	2472	2.7		
	Total	3135	3.4		
Total		91642	100.0		

Very satisfied with communication between doctors and school or other services

othcomm		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No, less than very satisfied	3931	4.3	4.3	4.3
	1 YES, very satisfied	6409	7.0	7.0	11.4
	2 Not needed	80593	87.9	88.6	100.0
	Total	90933	99.2	100.0	
Missing	99 DK/Ref/missing to any	709	.8		
Total		91642	100.0		

Number of types of services used in past 12 months (medical, dental, mental health, specialist)

numb_services		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Used none	2472	2.7	2.7	2.7
	1 Used 1 of four	20332	22.2	22.2	24.9
	2 Used 2 of four	46437	50.7	50.7	75.6
	3 Used 3 of four	19663	21.5	21.5	97.0
	4 Used all 4 service types	2738	3.0	3.0	100.0
	Total	91642	100.0	100.0	

Does anyone help to arrange or coordinate child's health care

K5Q20r		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No	54816	59.8	79.8	79.8
	1 Yes	13844	15.1	20.2	100.0
	Total	68660	74.9	100.0	
Missing	99 DK/REF	175	.2		
	999 Less than 2 service types	22807	24.9		
	Total	22982	25.1		
Total		91642	100.0		

Could use extra help to arrange/coordinate child's health care, past 12 months

K5Q21r		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No	62770	68.5	91.3	91.3
	1 Yes	5952	6.5	8.7	100.0
	Total	68722	75.0	100.0	
Missing	99 DK/REF	113	.1		
	999 Less than 2 service types	22807	24.9		
	Total	22920	25.0		
Total		91642	100.0		

Gets help or extra help with care coordination when needed, past 12 months

carehelp		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No, did not get needed help	3948	4.3	4.3	4.3
	1 YES, received needed help	13768	15.0	15.1	19.4
	2 Help and/or coordination not needed	73630	80.3	80.6	100.0
	Total	91346	99.7	100.0	
Missing	99 DK/REF/MISSING to any	296	.3		
Total		91642	100.0		

EFFECTIVE CARE COORDINATION -- Sub-component of MEDICAL HOME measure

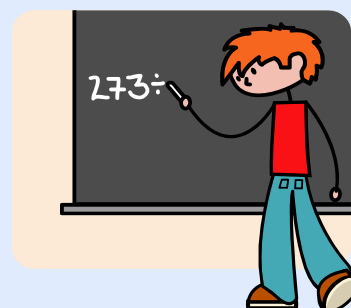| carecoor		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No, does have Effective Care Coordination	11264	12.3	12.4	12.4
	1 YES, has Effective Care Coordination	26742	29.2	29.5	42.0
	2 None needed OR less than 2 service types	52573	57.4	58.0	100.0
	Total	90579	98.8	100.0	
Missing	System	1063	1.2		
Total		91642	100.0		

MEDICAL HOME
Composite Measure

MEDICAL HOME: Children who receive coordinated, ongoing, comprehensive care within a medical home

mh_comp		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No, care DOES NOT meet medical home criteria	33669	36.7	38.2	38.2
	1 Care MEETS ALL medical home criteria	54393	59.4	61.8	100.0
	Total	88062	96.1	100.0	
Missing	99 DK/Ref/missing to any	3580	3.9		
Total		91642	100.0		

Data Resource Center for Child and Adolescent Health   2007 NSCH Child Health Indicators: SPSS Code for Data Users
Child and Adolescent Health Measurement Initiative (CAHMI)   Version 1.2: November 2010

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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 is 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.

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".

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	

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	