2003 National Survey of Children's Health

CHILD HEALTH & HEALTH CARE MEASURES

SAS CODEBOOK

Version 1.1, June 2008
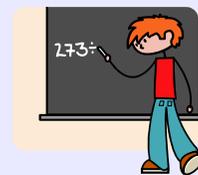
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Purpose of the 2003 NSCH SAS Codebook

This codebook contains SAS program statements that can be applied to the public use data file for the 2003 National Survey of Children's Health (NSCH) to create the Key Child Health Indicators and variables used to stratify these items in the interactive data query feature of the Data Resource Center for Child and Adolescent Health (DRC), located online at **www.childhealthdata.org.**

The codebook is designed as a resource for researchers and analysts who are interested in understanding and replicating the Key Child Health Indicator variables developed from the 2003 NSCH for the Data Resource Center for Child and Adolescent Health (DRC). Its purpose is to expedite research by helping to standardize and improve the comparability of information derived from the 2003 NSCH.

The DRC maintains a complete 2003 NSCH indicator data set, available in either SAS or SPSS format. The data set includes all 65 Key Child Health Indicators, indicators pertinent to Healthy People 2010 goals, and demographic and individual question variables. To request a copy, contact the Child and Adolescent Health Measurement Initiative (CAHMI) at **cahmi@ohsu.edu.**

The Data Resource Center for Child and Adolescent Health

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

The main feature of the DRC is an interactive data search tool that includes over 100 standardized indicators from the two extensive national and State-based surveys on the health and health care of children, youth and families: the *2001 National Survey of Children with Special Health Care Needs* (NS-CSHCN), and the *2003 National Survey of Children's Health* (NSCH). Data search results can be stratified by the age, race/ethnicity, income and other pertinent characteristics of children and youth nationally or for individual States. Links to the survey instruments, sampling diagrams, methods reports and other survey specific resources are included on the DRC Web site.

Overview of the 2003 NSCH

The 2003 National Survey of Children's Health is a national telephone survey conducted during 2003–2004 by the Centers for Disease Control and Prevention, National Center for Health Statistics, and 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. A total of 102,353 surveys completed nationally by parents/caregivers of children and youth ages 0–17 years — between 1,483 and 2,241 surveys per State — were collected. Survey results are weighted to represent the population of non-institutionalized children and youth ages 0–17 years in each State. Topics include demographics, physical and mental health status, health insurance, access and use of health care services, medical home, early childhood-specific information (0–5 years), middle childhood- and adolescent-specific information (6–17 years), family health and activities, parental health status and perceptions of neighborhood characteristics.

The public use data file for the 2003 NSCH, along with relevant background information and documentation, can be obtained online at **www.cdc.gov/nchs/about/major/slaits/nsch.htm.** Additional information and results from the NSCH are available in the DRC at www.childhealthdata.org.

Important Information Regarding the 2003 NSCH Data

Weighting

Each record in the 2003 NSCH public release data set is assigned a sampling weight, which is composed of a base sampling weight and a poststratification adjustment to match the child population in each State. The base sampling weight adjusts for number of residential telephone lines and sources of nonresponse. The interview response weights are further adjusted to match the age, race/ethnicity and gender distributions in the child population for each State based on July 2003 Census Bureau estimates. The poststratification procedure also adjusts for the number of households without telephones in each State. The variable WEIGHT_I, included in the public use data file, weights the survey responses to reflect the non-institutionalized population of children and youth ages 0–17 in each State.

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 further to a specific population subgroup (age group, ethnicity or race, or poverty level, for example) within or across States will lead to incorrect standard error estimation. Most software packages that analyze complex sample data will incorrectly compute variances for subsetted data when the sample design is compromised because complete design information is not available. To

avoid this problem, use a subpopulation procedure such as SUDAAN's SUBPOPN option that allows for the targeting of specific subpopulations for analysis while retaining the full sample design information.

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. The confidential zip code data can be made available to researchers for on site analysis at the Data Research Center of the National Center for Health Statistics (NCHS) in Hyattsville, MD. The process requires submitting a proposal to the NCHS. For more information, see **www.cdc.gov/nchs/r&d/rdc.htm.**

Interpretation of Results

The respondents to the NSCH survey are parents; however, the results are weighted to reflect the population of children and youth ages 0–17, not parents or families. Thus, results are reported in terms of children/youth, even if the question refers to the parents or family. For example, when reporting on maternal health status it is correct to say: "…percentage of children whose mothers are in excellent or very good health," NOT "…percentage of mothers who are in excellent or very good health…."

The condition-specific information in this survey is based on parent report, not clinical diagnosis. Height and weight information used to calculate the Body Mass Index (BMI)-for-age indicator is also derived from parent report, not biometric measurement.

Pay careful attention to the valid denominator of responders 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.

Treatment of Unknown/Missing Values

Responses of "Don't know" or "Refused" and system missing data are not included in the denominators used in the construction of the variables in this codebook. In nearly all cases, the unknown values make up less than 1 percent of the responses to any single question. However, a few questions have higher proportions of unknown values, most notably Household Income (about 10 percent unknown values nationally), and BMI-for-age (6.5 percent nationally).

Verification

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 in the DRC.

Additional Information on Survey Design and Methodology

The NCHS report, *Design and Operation of the National Survey of Children's Health, 2003 (2)* is an excellent resource. 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. View or download the methods report from the DRC Web site for the NSCH at **www.nschdata.org/content/LearnAboutTheSurvey.aspx** or the NSCH Web Site at **www.cdc.gov/nchs/data/slaits/NSCH_Methodology_Report.pdf.**

Recommended Citation

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

Child and Adolescent Health Measurement Initiative (CAHMI), *2003 National Survey of Children's Health SAS Codebook,* Data Resource Center for Child and Adolescent Health, **www.childhealthdata.org.**

References

1. Child and Adolescent Health Measurement Initiative (CAHMI), "The Children with Special Health Care Needs (CSHCN) Screener." 2002, www.ohsudoernbecher.com/CAHMI/CSHCN-screener.pdf .

2. Blumberg SJ, Olson L, Frankel MR, Osborn L, Srinath KP, Giambo P. "Design and operation of the National Survey of Children's Health, 2003." National Center for Health Statistics. Vital Health Stat 1(43). 2005.

3. U.S. Department of Health and Human Services, Health Resources and Services Administration, Maternal and Child Health Bureau. "The National Survey of Children's Health 2003." Rockville, Maryland: U.S. Department of Health and Human Services, 2005.

4. Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Interview Statistics, Special Population Surveys Branch. "Progress toward implementing community-based systems of services for children with special health care needs: Summary tables form the National Survey of Children with Special Health Care Needs, 2001." April 2003.

INDICATOR 1.1	In general, how would you describe (child's name)'s health?
Survey Items Used	S2Q01
Numerators	• Children whose health status is excellent or very good • Children whose health status is good • Children whose health status is fair or poor
Denominator	Children ages 0–17 years
Description	Percent of children ages 0–17 whose health status is excellent/very good, good, or fair/poor, as reported by their parents.
Notes for Data-Users	
SAS Code and Annotation	
Format	

```
value health /* ind1_1 ind6_1 ind6_2 */
  1 = "Excellent or Very Good"
  2 = "Good"
  3 = "Fair or Poor";
```

Code

```
ind1_1 = .;
  if s2q01 in (01,02) then ind1_1 = 1; /*Excellent or Very Good*/
  if s2q01 in (03) then ind1_1 = 2; /*Good*/
  if s2q01 in (04,05) then ind1_1 = 3; /*Fair or Poor*/
  if s2q01 in (06,07) then ind1_1 = .; /*Don't Know and Refused set to Missing*/
  label ind1_1 = "Indicator 1.1: In general, how would you describe (child's name)'s health? (S2Q01)";
```

INDICATOR 1.2	How would you describe the condition of (child's name)'s teeth?
Survey Items Used	S2Q54
Numerators	• Children/youth whose teeth are in excellent or very good condition • Children/youth whose health status are in good condition • Children/youth whose health status are in fair or poor condition
Denominator	Children/youth ages 1–17 years who have one or more natural teeth
Description	Percent of children/youth ages 1–17 whose teeth are in excellent/very good condition, good condition, or fair/poor condition, as reported by their parents.
Notes for Data-Users	

Children under 1 and children/youth who did not have natural teeth at the time of the survey (S2Q54 = has no natural teeth) were not included in any of the indicators addressing dental care.

SAS Code and Annotation

Format

```
value teeth_di /* ind1_2 */
  1 = "Excellent or very good condition"
  2 = "Good condition"
  3 = "Fair or poor condition";
```

Code

```
ind1_2 = .;
  if s2q54 in (01,02) then ind1_2 = 1; /*Excellent or Very Good*/
  if s2q54 in (03) then ind1_2 = 2; /*Good*/
  if s2q54 in (04,05) then ind1_2 = 3; /*Fair or Poor*/
  if s2q54 in (06,96,97) then ind1_2 = .; /*No natural teeth, Don't Know, and Refused set to Missing*/
  label ind1_2 = "Indicator 1.2: How would you describe the condition of (child's name)'s teeth?
  (S2Q54 – ages 1–17 who have natural teeth)";
```

INDICATOR 1.3	Was (child's name) ever breastfed or fed breast milk?
Survey Items Used	S6Q59
Numerator	Young children who were breastfed or fed breast milk for any length of time
Denominator	Children ages 0–5 years
Description	Percent of children ages 0–5 who were ever breastfed or fed breast milk (S6Q59 = Yes).
Notes for Data-Users	
SAS Code and Annotation	
Format	

```
value yn /*ind1_3 ind1_7 ind1_8 ind2_8 ind3_1 ind4_6 ind4_9 ind5_2 ind6_14*/
  1 = "Yes"
  2 = "No";
```

Code

```
ind1_3 = .;
  if s6q59 = 0 then ind1_3 = 0; /*NO*/
  if s6q59 = 1 then ind1_3 = 1; /*YES*/
  if ind1_3 = 0 then ind1_3 = 2; /*RECODES 0,1 to 1,2*/
  label ind1_3 = "Indicator 1.3: Was (child's name) ever breastfed or fed breast milk? (S6Q59 –
  ages 0–5 only)";
```

INDICATOR 1.4	What is the weight status of children/youth based on Body Mass Index-for-Age (BMI-for-age)?
Survey Items Used	S2Q02, S2Q03, AGEYR_CHILD
Numerators	• Children/youth who are overweight • Children/youth who are at risk of being overweight • Children/youth who are normal weight • Children/youth who are underweight
Denominator	Children/youth ages 10–17 years
Description	Percent of children/youth ages 10–17 who are overweight, at risk of overweight, normal weight, or underweight according to BMI-for-age calculated from parent report of child's height and weight.

Notes for Data-Users

BMI-for-age calculated from the NSCH 2003 is based on parent-reported height and weight of children. Calculation of BMI-for-age is usually based on the age of the child in months. Because age was only reported in years for this survey, children were assumed to be at the midpoint of the age-year for purposes of calculating BMI-for-age. It should be recognized that height and weight were based on the parents' reports and were not independently measured. Height and weight estimates based on parent reporting from the NSCH 2003 were compared to national estimates based on independent measurement from the National Health and Nutrition Examination Survey. This comparison revealed that, for children under 10 years of age, height was generally underreported and weight was generally overreported. Therefore, BMI for children under 10 years of age has not been included as part of this indicator. For more information about BMI-for-age, go to: www.cdc.gov/nccdphp/dnpa/bmi/bmi-for-age.htm

The number of unknown values for this variable is unusually high (6.5%). Unknown values are not included in the denominator; weighted population counts may be underestimated.

SAS Code and Annotation

Format

```
value bmi /*ind1_4*/
  1 = "Underweight"
  2 = "Normal Weight"
  3 = "At Risk for Overweight"
  4 = "Overweight";
```

Code

```
ind1_4 = bmiclass;
  if ageyr_child <10 then ind1_4 = .;
  label ind1_4 = "Indicator 1.4: What is the weight status of children/youth ages 10–17 based on BMI-for-age? (derived)";
```

INDICATOR 1.5	During the past week, on how many days did (child's name) exercise or participate in physical activity for at least 20 minutes that made him/her sweat and breathe hard?
Survey Items Used	S7Q21
Numerators	• Children/youth who exercised on no days during the past week • Children/youth who exercised on 1–3 days during the past week • Children/youth who exercised on 4–6 days during the past week • Children/youth who exercised every day during the past week
Denominator	Children/youth ages 6–17 years
Description	Percent of children/youth ages 6–17 who did not engage in vigorous physical activity or who engaged in vigorous physical activity for 20 minutes or more on 1–3 days, 4–6 days, or every day of the past week

Notes for Data-Users

SAS Code and Annotation

Format

```
value exercise /*ind1_5*/
   1 = "0 days"
   2 = "1–3 days"
   3 = "4–6 days"
   4 = "Every day";
```

Code

```
ind1_5 = .;
   if s7q21 eq 0 then ind1_5 = 0;
   if 1 < = s7q21 < = 3 then ind1_5 = 1;
   if 4 < = s7q21 < = 6 then ind1_5 = 2;
   if s7q21 eq 7 then ind1_5 = 3;
   ind1_5 = ind1_5 + 1;
   if s7q21 in (96,97) then ind1_5 = .;
   label ind1_5 = "Indicator 1.5: During the past week, on how many days did (child's name) exercise or
participate in physical activity for at least 20 minutes that made him/her sweat and breathe hard?
(S7Q21 – ages 6–17 only)";
```

INDICATOR 1.6	During the past 12 months, about how many days did (child's name) miss school because of illness or injury?
Survey Items Used	S7Q02
Numerators	• Children/youth who missed no school days due to illness/injury • Children/youth who missed 1–5 school days due to illness/injury • Children/youth who missed 6–10 school days due to illness/injury • Children/youth who missed 11 or more school days due to illness/injury
Denominator	Children/youth ages 6–17 years
Description	Percent of children/youth ages 6–17 who did not miss school, or who missed school 1–5 days, 6–10 days, or 11 or more days because of illness or injury.
Notes for Data-Users	

SAS Code and Annotation

Format

```
value miss_sch
  1 = "0 days"
  2 = "1–5 days"
  3 = "6–10 days"
  4 = "11 + days";
```

Code

```
ind1_6 = .;
  if s7q02r in (994,995,996,997) then ind1_6 = .;
  if s7q02r = 000 then ind1_6 = 1; /* Did not miss any school days */
  if 001 < = s7q02r < = 005 then ind1_6 = 2; /* Missed 1–5 days */
  if 006 < = s7q02r < = 010 then ind1_6 = 3; /* Missed 6–10 days */
  if 011 < = s7q02r < = 240 then ind1_6 = 4; /* Missed 11+ days */
  label ind1_6 = "Indicator 1.6: During the past 12 months, about how many days did (child's name)
  miss school because of illness or injury? (S7Q02 – ages 6–17 only)";
```

INDICATOR 1.7	During the past 12 months, has (child's name) been injured and required medical attention?
Survey Items Used	S6Q55
Numerator	Young children who experienced injuries requiring medical attention during the past 12 months
Denominator	Children ages 0–5 years
Description	Percent of children ages 0–5 who experienced injuries requiring medical attention during the past 12 months (S6Q55 = Yes).
Notes for Data-Users	
SAS Code and Annotation	
Format	

value yn /*ind1_3 ind1_7 ind1_8 ind2_8 ind3_1 ind4_6 ind4_9 ind5_2 ind6_14*/
  1 = "Yes"
  2 = "No";

| Code | |

```
ind1_7 = s6q55;
  if s6q55 in (6,7) then ind1_7 = .;
  if ind1_7 = 0 then ind1_7 = 2; /* recodes from 0,1 to 1,2*/
  label ind1_7 = "Indicator 1.7: During the past 12 months, has (child's name) been injured and required
  medical attention? (S6Q55 – ages 0–5 only)";
```

INDICATOR 1.8	During the past 12 months, has (child's name) been poisoned by accident and required medical attention?
Survey Items Used	S6Q57
Numerator	Young children who required medical attention for accidental poisoning during past 12 months
Denominator	Children ages 0–5 years
Description	Percent of children ages 0–5 who were accidentally poisoned and required medical attention during past 12 months (S6Q57 = Yes).
Notes for Data-Users	
SAS Code and Annotation	
Format	

```
value yn /*ind1_3 ind1_7 ind1_8 ind2_8 ind3_1 ind4_6 ind4_9 ind5_2 ind6_14*/
  1 = "Yes"
  2 = "No";
```

Code

```
ind1_8 = s6q57;
  if s6q57 in (6,7) then ind1_8 = .;
  if ind1_8 = 0 then ind1_8 = 2; /*recodes from 0,1 to 1,2*/
  label ind1_8 = "Indicator 1.8: During the past 12 months, has (child's name) been poisoned by
  accident and required medical attention? (S6Q57 – ages 0–5; national-level data only)";
```

INDICATOR 1.9	How many children/youth currently have health conditions described as moderate or severe by their parents?
Survey Items Used	S2Q04 – S2Q17; S2Q20 – S2Q42; S2Q47, S2Q49 – S2Q50
Numerator	Children/youth with current health conditions rated by their parents as being moderate or severe
Denominator	Children/youth ages 0–17 years
Description	Percent of children/youth ages 0–17 whose parents report that the child has specified ongoing health condition(s) (CYSHCN and "yes" on one or more of S2Q20 – S2Q42 or S2Q49) that the parents rate as moderate or severe (S2Q47).

Notes for Data-Users

For a child to qualify as having a "current health condition," the child's parent must report having ever been told by a doctor or health professional that the child has one or more conditions listed in questions S2Q20 – S2Q42 or S2Q49, AND the child must have a positive screen on the CSHCN Screener which indicates that he/she currently experiences on-going health consequences from a medical, emotional, developmental, or behavioral condition lasting 12 months or longer.

Only children whose parents report having ever been told that the child has one or more of the conditions asked about in questions S2Q20 – S2Q42 or S2Q49 are asked to rate the severity of the health conditions on these lists that the child may either have now or have had in the past. Parents of children who currently have health conditions that are not listed in questions S2Q20 – S2Q42 or S2Q49 were not given the opportunity to rate the severity of their children's health problems.

SAS Code and Annotation

Format

value cond /*ind1_9*/
  1 = "No conditions reported"
  2 = "Reported health conditions are minor or do not currently affect child"
  3 = "Current health conditions rated moderate or sever by parents";

Code

PENDING as of 1/31/07

INDICATOR 1.10	How many children/youth experienced one or more asthma-related health issues during the past 12 months?
Survey Items Used	S2Q49, S2Q50, S2Q52 – S2Q53
Numerator	Children/youth who still have asthma and also experienced one or more asthma-related health issues during the past 12 months
Denominator	Children/youth ages 0–17 years
Description	Percent of children/youth ages 0–17 whose parents report that the child still has asthma and has been affected by asthma-related issues during the past 12 months.

Notes for Data-Users

"Children with asthma-related health issues" are those whose parents were told at some point in time by a doctor that the child had asthma (S2Q19 = Yes). In order to qualify as being affected by asthma during the past year, children needed to still have asthma at the time of the survey (S2Q49 = Yes) AND experience one or more of the following asthma-related health issues during the past 12 months: use of asthma medication (S2Q52, response indicates use of medication within the past year), significant health difficulties due to asthma (S2Q50 = Moderate or Severe), asthma attacks (S2Q52A = Yes), or hospitalization for asthma (S2Q53 = Yes).

SAS Code and Annotation

Format

value asth_iss /*ind1_10*/
  1 = "No asthma reported"
  2 = "Asthma reported, but did not affect health during past 12 months"
  3 = "Affected by asthma-related health issues during the past 12 months";

Code

PENDING as of 1/31/07

INDICATOR 1.10a	How many children/youth currently have asthma and did not experience asthma-related health issues during the past 12 months?
Survey Items Used	S2Q49, S2Q50, S2Q52 – S2Q53
Numerator	Children/youth who still have asthma have not experienced any significant asthma-related health issues during the past 12 months
Denominator	Children/youth ages 0–17 years
Description	Percent of children/youth ages 0–17 whose parents report that the child still has asthma but have not been affected by asthma-related issues during the past 12 months.

Notes for Data-Users

"Children with asthma-related health issues" are those whose parents were told at some point in time by a doctor that the child had asthma (S2Q19 = Yes). In order to qualify as being affected by asthma during the past year, children needed to still have asthma at the time of the survey (S2Q49 = Yes) AND experience one or more of the following asthma-related health issues during the past 12 months: use of asthma medication (S2Q52, response indicates use of medication within the past year), significant health difficulties due to asthma (S2Q50 = Moderate or Severe), asthma attacks (S2Q52A = Yes), or hospitalization for asthma (S2Q53 = Yes).

SAS Code and Annotation

Format

value asth_cur /*ind1_10a*/
  1 = "No asthma reported"
  2 = "Has asthma in the past, but do not have it any longer"
  3 = "Current asthma did not affect health during the past 12 months"
  4 = "Current asthma affected health in the past 12 months";

Code

PENDING as of 1/31/07

INDICATOR 1.11	Overall, would you say (child's name)'s asthma puts a burden on your family a great deal, a medium amount, a little, or not at all?
Survey Items Used	S2Q51
Numerators	• Children with asthma whose families are affected by it a great deal or medium amount • Children with asthma whose families are affected by it a little or not at all
Denominator	Children/youth ages 0–17 years whose parents report child still has asthma
Description	Among children/youth ages 0–17 with asthma, percent whose parents report that the child's asthma affects the family a great deal or medium amount, or that it affects the family a little or not at all.

Notes for Data-Users

The question "Does child still have asthma?" (S2Q49) was only asked for children whose parents reported ever being told that the child had asthma (S2Q19 = Yes). Only those parents who reported the child still has asthma (S2Q49 = Yes) were asked questions about its effects on the child and family.

SAS Code and Annotation

Format

value affects /*ind1_11*/
  1 = "Affects family a great deal or medium amount"
  2 = "Affects family a little or not at all";

Code

ind1_11 = **.**;
  if s2q51 in (**1**,**2**) then ind1_11 = **1**;
  if s2q51 in (**3**,**4**) then ind1_11 = **2**;
  if s2q51 in (**6**,**7**) then ind1_11 = **.**;
  label ind1_11 = "Indicator 1.11: Overall, would you say (child's name)'s asthma puts a burden on your family a great deal, a medium amount, a little, or not at all? (S2Q51 – only asked for children who currently have asthma)";

INDICATOR 1.12	During the past 12 months, has (child's name) stayed overnight in a hospital because of his/her asthma?
Survey Items Used	S2Q19, S2Q53
Numerator	Children/youth who ever had asthma and were hospitalized overnight for asthma during past 12 months
Denominator	Children/youth ages 0–17 years
Description	Percent of children/youth ages 0–17 whose parents report that the child has ever had asthma and stayed overnight in a hospital for asthma during the past 12 months.

Notes for Data-Users

S2Q53 was only asked for children whose parents reported ever being told that the child had asthma (S2Q19 = Yes).

SAS Code and Annotation

Format

value asthma /*ind1_12*/
  1 = "Have asthma ever, no hospitalizations"
  2 = "Have asthma ever, yes hospitalized for asthma"
  3 = "Do not have asthma";

Code

ind1_12 = **.**;
  if s2q19 eq **1** then do ind1_12 = s2q53; end;
  if s2q19 eq **0** and s2q55 eq **.** then ind1_12 = **3**;
  if ind1_12 in (**0**,**1**) then do ind1_12 = ind1_12 + **1**; end;
  if ind1_12 in (**6**,**7**) then ind1_12 = **.**;
  label ind1_12 = "Indicator 1.12: During the past 12 months, has (child's name) stayed overnight in a hospital because of his/her asthma? (derived—national-level data only)";

INDICATOR 2.1	How many children have parents with one or more concerns about child's learning, development, or behavior?
Survey Items Used	S6Q08; S6Q09 – S6Q27
Numerator	Children whose parents report one or more concerns about child's learning, development, or behavior (S6Q08 = Yes and/or any of S6Q09 – S6Q27 = "a little" or "a lot")
Denominator	Children ages 0–5 years
Description	Percent of children ages 0–5 with parents who reported one or more concerns about their learning, development, or behavior (S6Q08 = Yes and/or any of S6Q09 – S6Q27 = "a little" or "a lot").

Notes for Data-Users

Question S6Q08 is asked for all children ages 0–5 years. Age appropriate subsets of questions S6Q09 to S6Q27 are asked for children ages 4 months through 5 years. Items S6Q08 – S6Q27 are from the Parents' Evaluation of Developmental Status (PEDS), a parent-reported screening instrument for identifying young children at risk for developmental delay. The PEDS is a standardized tool designed to identify children at risk for developmental, behavioral, or social delays. For information about the development and scoring of the PEDS, visit http://www.pedstest.com ©2005, Frances Page Glascoe, Parents' Evaluation of Developmental Status — Survey Version. Forepath.org, PO Box 23186, Washington, DC 20026.

The NSCH uses the non-clinical version of the PEDS. Researchers interested in analyzing NSCH data collected with the PEDS instrument will need to consult PEDS documentation for scoring instructions at www.pedstest.com. Health care providers interested in using the PEDS to assess or make decisions about the developmental status for individual children, need to use the clinical version of the PEDS instrument, which can be obtained from Ellsworth & Vandermeer Press, LLC.

National data for the PEDS are also available from the 2000 National Survey of Early Childhood Health. See www.cdc.gov/nchs/data/slaits/NSCH_Methodology_Report.pdf for more information.

SAS Code and Annotation

Format

value concern /*ind2_1*/
  1 = "1 or more parent-reported concerns"
  2 = "No parent-reported concerns";

Code

anyconc = **0**;
  if ageyr_child > = **6** then anyconc = **.**;
  if ageyr_child < **6** and s6q08 in (**1**) then anyconc = **1**;
  if ageyr_child < **6** and s6q09 in (**1**,**2**) then anyconc + **1**;
  if ageyr_child < **6** and s6q10 in (**1**,**2**) then anyconc + **1**;
  if ageyr_child < **6** and s6q11 in (**1**,**2**) then anyconc + **1**;
  if ageyr_child < **6** and s6q12 in (**1**,**2**) then anyconc + **1**;
  if ageyr_child < **6** and s6q13 in (**1**,**2**) then anyconc + **1**;
  if ageyr_child < **6** and s6q14 in (**1**,**2**) then anyconc + **1**;
  if ageyr_child < **6** and s6q15 in (**1**,**2**) then anyconc + **1**;
  if ageyr_child < **6** and s6q16 in (**1**,**2**) then anyconc + **1**;
  if ageyr_child < **6** and s6q17 in (**1**,**2**) then anyconc + **1**;
  if ageyr_child < **6** and s6q18 in (**1**,**2**) then anyconc + **1**;
  if ageyr_child < **6** and s6q19 in (**1**,**2**) then anyconc + **1**;
  if ageyr_child < **6** and s6q20 in (**1**,**2**) then anyconc + **1**;
  if ageyr_child < **6** and s6q21 in (**1**,**2**) then anyconc + **1**;
  if ageyr_child < **6** and s6q22 in (**1**,**2**) then anyconc + **1**;
  if ageyr_child < **6** and s6q23 in (**1**,**2**) then anyconc + **1**;
  if ageyr_child < **6** and s6q24 in (**1**,**2**) then anyconc + **1**;
  if ageyr_child < **6** and s6q25 in (**1**,**2**) then anyconc + **1**;
  if ageyr_child < **6** and s6q26 in (**1**,**2**) then anyconc + **1**;
  if ageyr_child < **6** and s6q27 in (**1**,**2**) then anyconc + **1**;
  label anyconc = "# of concerns across all items";
 	
ind2_1 = **.**;
  if anyconc eq **0** then ind2_1 = **0**;
  if anyconc > **0** then ind2_1 = **1**;
  if ind2_1 eq **0** then ind2_1 = **2**; /* RECODES from 0,1 to 1,2 */
  label ind2_1 = "Indicator 2.1: How many children (ages 0–5) have parents with one or more concerns
  about child's learning, development, or behavior? (derived)";

INDICATOR 2.2	How many children are at risk for developmental delay?
Survey Items Used	S6Q08; S6Q13 – S6Q27
Numerator	Young children with one or more parent-reported concerns indicative of developmental risk
Denominator	Children ages 1–5 years
Description	Percent of children ages 1–5 with one or more parent-reported concerns indicative of developmental risk (S6Q13 – S6Q27, response of "a little" or "a lot" to one or more).

Notes for Data-Users
Items S6Q08 – S6Q27 are from the Parents' Evaluation of Developmental Status (PEDS), a parent-reported screening instrument for identifying young children at risk for developmental delay. The PEDS is a standardized tool designed to identify children at risk for developmental, behavioral, or social delays. For information about the development and scoring of the PEDS, visit http://www.pedstest.com, ©2005, Frances Page Glascoe, Parents' Evaluation of Developmental Status–Survey Version. Forepath.org, PO Box 23186, Washington, DC 20026.
The NSCH uses the non-clinical version of the PEDS. Researchers interested in analyzing NSCH data collected with the PEDS instrument will need to consult PEDS documentation for scoring instructions at www.pedstest.com. Health care providers interested in using the PEDS to assess or make decisions about the developmental status for individual children, need to use the clinical version of the PEDS instrument, which can be obtained from Ellsworth & Vandermeer Press, LLC.
National data for the PEDS are also available from the 2000 National Survey of Early Childhood Health. See www.cdc.gov/nchs/data/slaits/NSCH_Methodology_Report.pdf for more information.

SAS Code and Annotation
Format
Code
PENDING as of 1/31/07

INDICATOR 2.3	How many children/youth have moderate or severe difficulties in the areas of emotions, concentration, behavior, or being able to get along with other people?
Survey Items Used	S2Q59 and S2Q60
Numerator	Children/youth with socio-emotional difficulties described as moderate or severe by their parents
Denominator	Children/youth ages 3–17 years
Description	Among all children/youth ages 3–17, percent with moderate to severe socio-emotional difficulties, as reported by their parents (S2Q60 = "Moderate" or "Severe").

Notes for Data-Users

Questions S2Q59 and S2Q60 were drawn from the impact supplement to the Strengths and Difficulties Questionnaire (SDQ). Due to an inadvertent error in the questionnaire development process, the answer choices for the follow-up question do not match the answer choices for the copyrighted SDQ. Analysts should use caution when comparing estimates derived from the NSCH follow-up question to estimates derived from the proper SDQ impact question used in other surveys (e.g., the NHIS). See www.cdc.gov/nchs/data/slaits/NSCH_Methodology_Report.pdf for more information.

SAS Code and Annotation

Format

```
value diff /*ind2_3*/
  1 = "Moderate or severe difficulties in 1 or more areas"
  2 = "No difficulties or minor difficulties";
```

Code

```
ind2_3 = .;
  if s2q59 eq 0 or s2q60 eq 1 then ind2_3 = 0;
  if s2q60 eq 2 or s2q60 eq 3 then ind2_3 = 1;
  if ind2_3 eq 0 then ind2_3 = 2; /*RECODE 0,1 to 1,2*/
  label ind2_3 = "Indicator 2.3: How many children/youth (ages 3–17) have moderate or severe difficulties
  in the areas of emotions, concentration, behavior, or being able to get along with other people?
  (derived)";
```

INDICATOR 2.4	Overall, would you say (child's name)'s mental and emotional health puts a burden on your family a great deal, a medium amount, a little, or not at all?
Survey Items Used	S2Q61
Numerator	Children/youth with socio-emotional difficulties whose families report being affected a great deal/medium amount
Denominator	Children/youth ages 3–17 years who have one or more parent-reported difficulties in the socio-emotional area
Description	Among children/youth ages 3–17 who have one or more parent-reported socio-emotional difficulties (S2Q59 = "Yes"), percent whose families are affected more than a little (S2Q61 = "medium" or "a great deal").

Notes for Data-Users

Only parents report who reported that their children has one or more socio-emotional difficulties (S2Q59 = Yes) were asked questions about how these difficulties affect the child and the child's family.

SAS Code and Annotation

Format

value affects /*ind1_11 and ind2_4*/
  1 = "Affects family a great deal or medium amount"
  2 = "Affects family a little or not at all";

Code

ind2_4 = **.**;
  if s2q61 in (**1**,**2**) then ind2_4 = **1**;
  if s2q61 in (**3**,**4**) then ind2_4 = **2**;
  label ind2_4 = "Indicator 2.4: Overall, would you say (child's name)'s mental and emotional health puts a burden on your family a great deal, a medium amount, a little, or not at all? (S2Q61 — ages 3–17 with socio-emotional difficulties)";

INDICATOR 2.5	How many children/youth often exhibit caring, respectful behaviors when interacting other children and adults?
Survey Items Used	S7Q52, S7Q53, S7Q54, S7Q59
Numerator	In development
Denominator	In development
Description	

Notes for Data-Users

This item is currently in development. For results on the individual items included in this indicator, please check individual questions in Section 7 of the survey: S7Q52, S7Q53, S7Q54, S7Q59.

S7Q52 was drawn from the Positive Behaviors Scale. For more information, email SLAITS staff at slaits@cdc.gov or visit www.cdc.gov/nchs/data/slaits/NSCH_Methodology_Report.pdf

SAS Code and Annotation

Format

Code

In development as of 1/31/07

INDICATOR 2.6	How many children/youth often exhibit two or more problematic behaviors?
Survey Items Used	S7Q41, S7Q44, S7Q45, S7Q56
Numerator	Children/youth who often exhibit two or more problematic behaviors
Denominator	Children/youth ages 6–17 years
Description	Percent of children/youth ages 6–17 who often exhibit two or more problematic behaviors (S7Q41, S7Q44, S7Q45, S7Q56; response of "Usually/always" to "two or more").

Notes for Data-Users

Problematic behaviors are defined as arguing too much, bullying or being cruel to others, disobeying, and acting stubborn, sullen or irritable.

Questions S7Q41, S7Q44, S7Q45, S7Q48, S7Q56, S7Q62, and S7Q63 were drawn from the Behavior Problems Index. For more information, email SLAITS staff at slaits@cdc.gov or visit www.cdc.gov/nchs/data/slaits/NSCH_Methodology_Report.pdf.

SAS Code and Annotation

Format

```
value probbeh /*ind2_6*/
  1 = "Often exhibits 2 or more problematic behaviors"
  2 = "Seldom exhibits problematic behaviors";
```

Code

```
probbeh = 0;
  if ageyr_child > = 6 and ageyr_child < = 17 and s7q41 in (3,4) then probbeh = 1;
  if ageyr_child > = 6 and ageyr_child < = 17 and s7q44 in (3,4) then probbeh + 1;
  if ageyr_child > = 6 and ageyr_child < = 17 and s7q45 in (3,4) then probbeh + 1;
  if ageyr_child > = 6 and ageyr_child < = 17 and s7q56 in (3,4) then probbeh + 1;
  if ageyr_child < 6 then probbeh = .;
  label probbeh = "# of problem behaviors";

ind2_6 = .;
  if probbeh in (0,1) then ind2_6 = 0;
  if probbeh in (2,3,4) then ind2_6 = 1;
  if ind2_6 eq 0 then ind2_6 = 2;
  label ind2_6 = "Indicator 2.6: How many children/youth (ages 6–17) often exhibit two or more
  problematic behaviors? (derived)";
```

INDICATOR 2.7	How many children/youth whose parents have ever been told child has ADD/ADHD currently take medication for this condition?
Survey Items Used	S2Q21 and S2Q62
Numerator	Children/youth who are currently taking medication for ADD/ADHD
Denominator	Children/youth ages 2–17 years
Description	Among children/youth ages 2–17, percent whose parents reported having ever been told by a doctor that child has ADD/ADHD and who are currently taking medication for this condition (S2Q21 and S2Q62 = "Yes").

Notes for Data-Users

"ADD/ADHD Ever" is defined as children whose parents report ever being told by a doctor or health professional that child has Attention Deficit Disorder (ADD) or Attention Deficit Hyperactivity Disorder (ADHD) (S2Q21 = Yes).

Use caution when interpreting responses to the questions about health conditions in the NSCH. A response of YES to having "ever been told by a doctor or other health professional" that a child has a specific health condition DOES NOT necessarily indicate that the child still has or ever had that particular condition. For this reason, affirmative responses to the specific health condition questions should not be interpreted as current prevalence.

SAS Code and Annotation

Format

```
value add_adhd /*ind2_7*/
  1 = "ADD/ADHD ever; child currently takes medication"
  2 = "ADD/ADHD ever; child not taking medication now"
  3 = "Never told child has ADD/ADHD";
```

Code

```
ind2_7 = s2q62;
  if s2q62 in (6,7) then ind2_7 = .;
  if s2q21 eq 0 then ind2_7 = 3;
  if ind2_7 eq 0 then ind2_7 = 2; /*RECODE 0,1,3 into 1,2,3*/
  label ind2_7 = "Indicator 2.7: How many children/youth (ages 2–17) whose parents have ever been told
  child has ADD/ADHD currently take medication for this condition?";
```

INDICATOR 2.8	Has a doctor or health professional ever told you that (child's name) has autism?
Survey Items Used	S2Q35
Numerator	Children/youth whose parents report ever being told by a doctor/health professional that child has autism.
Denominator	Children/youth ages 0–17 years
Description	Percent of children/youth ages 0–17 whose parents reported ever being told by a doctor/health professional that child had autism (S2Q35 = Yes).

Notes for Data-Users

Use caution when interpreting responses to the questions about specific health conditions in the NSCH. A response of YES to "having ever been told by a doctor or other health professional" that a child has a specific condition DOES NOT necessarily indicate that the child still has or ever had that particular condition. For this reason, affirmative responses to the specific health condition questions should not be interpreted as current prevalence.

SAS Code and Annotation

Format

value yn /*ind1_3 ind1_7 ind1_8 ind2_8 ind3_1 ind4_6 ind4_9 ind5_2 ind6_14*/
  1 = "Yes"
  2 = "No";

Code

ind2_8 = s2q35;
  if s2q35 in (**6**,**7**) then ind2_8 = **.**;
  if ind2_8 eq **0** then ind2_8 = **2**; /*RECODE 0,1 into 1,2*/
  label ind2_8 = "Indicator 2.8: Has a doctor or health professional ever told you that (child's name) has autism? (S2Q35)";

INDICATOR 3.1	Does (child's name) have any kind of health care coverage, including health insurance, prepaid plans such as HMOs, or government plans such as Medicaid?
Survey Items Used	S3Q01
Numerator	Children/youth who currently have health care coverage
Denominator	Children/youth ages 0–17 years
Description	Percent of children/youth ages 0–17 with any kind of health care coverage, including health insurance, prepaid plans such as HMOs, or government plans such as Medicaid (S3Q01 = Yes).
Notes for Data-Users	

SAS Code and Annotation

Format

```
value yn /*ind1_3 ind1_7 ind1_8 ind2_8 ind3_1 ind4_6 ind4_9 ind5_2 ind6_14*/
  1 = "Yes"
  2 = "No";
```

Code

```
ind3_1 = .;
  if s3q01 eq 1 then ind3_1 = 1; /*Insured*/
  if s3q01 = 0 then ind3_1 = 2; /*Not Insured*/
  label ind3_1 = "Indicator 3.1: Does (child's name) have any kind of health care coverage, including
  health insurance, prepaid plans such as HMOs, or government plans such as Medicaid? (S3Q01)";
```

INDICATOR 3.2	How many children/youth had consistent health insurance coverage during the past 12 months?
Survey Items Used	S3Q01 and S3Q04
Numerator	Children/youth who were consistently insured during the past year
Denominator	Children/youth ages 0–17 years
Description	Children/youth who were insured at the time of the survey (S3Q01 = Yes) and who did not experience periods of no insurance during the past 12 months (S3Q04 = No).
Notes for Data-Users	
SAS Code and Annotation	
Format	

value cons_ins /*ind3_2*/
  1 = "Currently uninsured or periods of no coverage during year"
  2 = "Consistently insured during past year";

Code

ind3_2 = **.**;
  if S3Q01 = **0** or S3Q04 = **1** then ind3_2 = **1**;
  if S3Q04 = **0** then ind3_2 = **2**;
  label ind3_2 = "Indicator 3.2: How many children/youth (ages 0–17) had consistent health insurance coverage during the past 12 months? (derived)";

INDICATOR 3.3	What type of health insurance coverage, if any, did children/youth have at the time of the survey?
Survey Items Used	S3Q01, S3Q02
Numerators	• Children/youth who are currently uninsured • Children/youth who currently have private insurance coverage • Children/youth who currently have public insurance coverage
Denominator	Children/youth ages 0–17 years
Description	Children/youth ages 0–17 whose health insurance coverage at the time of the survey was either private (S3Q01 = Yes and S3Q02 = No) or public (S3Q01 and S3Q02 = Yes) or none (S3Q01 = No).

Notes for Data-Users

Private health insurance is defined as any type of health insurance, including HMOs, other than public programs. Public health insurance is defined as Medicaid or the State Children's Health Insurance Program (SCHIP).

SAS Code and Annotation

Format

value insure /*ind3_1*/
  1 = "Public insurance"
  2 = "Private insurance"
  3 = "Uninsured";

Code

ind3_3 = **.**;
  if s3q01 in (**1**,**6**,**7**) and s3q02 = **1** then ind3_3 = **1**; /*Public*/
  if s3q01 in (**1**,**6**,**7**) and s3q02 = **0** then ind3_3 = **2**; /*Non-public*/
  if s3q01 = **0** then ind3_3 = **3**; /*Not Insured*/
  label ind3_3 = "Indicator 3.3: What type of health insurance coverage, if any, did children/youth (ages 0–17) have at the time of the survey? (derived)";

INDICATOR 4.1	How many children/youth had one or more preventive medical care visits during the past 12 months?
Survey Items Used	S4Q01 and S4Q03
Numerator	Children/youth who had one or more preventive medical care visits
Denominator	Children/youth ages 0–17 years
Description	Percent of children/youth ages 0–17 with one or more preventive medical care visits in the past 12 months.

Notes for Data-Users

Denominator includes children/youth who did not see a health care provider for any type of medical care during 12 past months (S4Q01 = No).

SAS Code and Annotation

Format

value prev_med /*ind4_1*/
  1 = "One or more preventive medical care visits"
  2 = "NO preventive medical care visits";

Code

ind4_1 = s4q03r;
  if s4q03r ge **1** and s4q03r le **20** then ind4_1 = **1**;
  if s4q01 eq **0** then ind4_1 = **0**;
  if ind4_1 in (**96**,**97**) then ind4_1 = **.**;
  if ind4_1 eq **0** then ind4_1 = **2**; /*RECODE from 0,1 to 1,2*/
  label ind4_1 = "Indicator 4.1: How many children/youth (ages 0–17) had one or more preventive medical care visits during the past 12 months? (derived)";

INDICATOR 4.2	How many children/youth with a need for routine preventive dental care, such as check-ups, screenings, and sealants, got all the care that was needed?
Survey Items Used	S4Q10 and S4Q13
Numerator	Children/youth who got all needed preventive dental care
Denominator	Children/youth ages 1–17 years who needed preventive dental care during past 12 months
Description	Percent of children/youth ages 1–17 who received needed preventive dental care during the past 12 months.

Notes for Data-Users

Children under 1 and children/youth who did not have natural teeth at the time of the survey (S2Q54 = has no natural teeth) were not included in any of the indicators addressing dental care. Children/youth who "needed preventive dental care" are defined as children/youth who saw a dentist during the past 12 months but did not get preventive dental care (S4Q09 = Yes) OR children/youth who needed preventive dental care during the past 12 months even though they did not see a dentist (S4Q10 = Yes).

SAS Code and Annotation

Format

```
value prev_den /*ind4_2*/
  1 = "Did not get all needed care"
  2 = "Got all needed care";
```

Code

```
ind4_2 = .;
  if s4Q13 = 0 or s4Q10 = 1 then ind4_2 = 1;
  if s4Q13 = 1 then ind4_2 = 2;
  label ind4_2 = "Indicator 4.2: How many children/youth (ages 1–17) with a need for routine preventive
  dental care, such as check-ups, screenings, and sealants, got all the care that was needed?
  (derived)";
```

INDICATOR 4.3	How many children/youth had both medical AND dental preventive care visits in the past 12 months?
Survey Items Used	S4Q03 and S4Q09
Numerator	Children/youth who got both medical and dental preventive care
Denominator	Children/youth ages 0–17 years
Description	Percent of children/youth ages 0–17 with both a medical AND dental preventive care visit in the past 12 months.

Notes for Data-Users

Children under 12 months of age needed only a preventive medical visit to qualify as a "Yes" response on this measure.

SAS Code and Annotation

Format

value prevent /*ind4_3*/
  1 = "Got both medical and dental preventive care visits"
  2 = "Did NOT get both medical and dental preventive care visits";

Code

ind4_3 = **.**;
  if s4q03R in (**96**,**97**) then s4q03R = **.**;
  if s4q01 = **0** then med_prev = **1**; /*NO preventive medical*/
  if s4q03R = **00** then med_prev = **1**; /*NO preventive medical*/
  if **01** < = s4q03R < = **95** then med_prev = **2**; /*YES preventive medical*/
  if s2q56 in (**01**,**04**,**05**,**06**) then den_prev = **1**; /*NO preventive dental*/
  if s4q09 = **0** then den_prev = **1**; /*NO preventive dental*/
  if s4q09 = **1** then den_prev = **2**; /*YES preventive dental*/

if med_prev in (**1**,**2**) and den_prev in (**1**,**2**) then ind4_3 = **2**; /*NO*/
  if med_prev in (**1**,**2**) and ageyr_child = **0** then ind4_3 = **2**; /*NO*/
  if med_prev = **2** and den_prev = **2** then ind4_3 = **1**; /*YES*/
  if med_prev = **2** and ageyr_child = **0** then ind4_3 = **1**; /*YES*/
  label ind4_3 = "Indicator 4.3: How many children/youth (ages 0–17) have both medical AND dental preventive care visits in the past 12 months? (derived)";

INDICATOR 4.4	During the past 12 months, how many times did (child's name) go to a hospital emergency room (ER) about his/her health? This includes ER visits that resulted in a hospital admission.
Survey Items Used	S4Q01 and S4Q04
Numerators	• Children/youth who did not go to a hospital ER • Children/youth who had one ER visit • Children/youth who had two or more ER visits
Denominator	Children/youth ages 0–17 years
Description	Percent of children/youth ages 0–17 who went to a hospital ER about his/her health no times, one time, or two or more times in the past 12 months.

Notes for Data-Users

Denominator includes children who did not see a health care provider for any type of medical care during 12 past months (S4Q01 = No).

SAS Code and Annotation

Format

```
value emerg /*ind4_4*/
  1 = "0 times"
  2 = "1 time"
  3 = "2 or more times";
```

Code

```
ind4_4 = s4Q04r;
  if s4q04r ge 2 and s4q04r le 5 then ind4_4 = 2;
  if s4Q01 eq 0 then ind4_4 = 0;
  if ind4_4 in (96,97) then ind4_4 = .;
  ind4_4 = ind4_4 + 1; /*RECODE (0,1,2) to (1,2,3)*/
  label ind4_4 = "Indicator 4.4: During the past 12 months, how many times did (child's name) go to a hospital ER about his/her health? (S4Q04 – ages 0–17)";
```

INDICATOR 4.5	How many children/youth with current emotional, developmental, or behavioral problems that require treatment or counseling received some type of mental health care during the past 12 months?
Survey Items Used	S2Q16 and S4Q23
Numerator	Children/youth who received treatment or counseling for mental health condition
Denominator	Children/youth ages 1–17 years with a current emotional, developmental, or behavioral problem requiring treatment or counseling (S2Q16 = Yes)
Description	Among children/youth ages 1–17 with current emotional, developmental, or behavioral problems, percent who received treatment or counseling in the past 12 months.

Notes for Data-Users

The denominator for this indicator only includes children/youth ages 1–17 years identified as having emotional, developmental, or behavioral problems requiring treatment or counseling at the time of the survey (S2Q16 = Yes).

SAS Code and Annotation

Format

value mentcare /*ind4_5*/
  1 = "Did NOT get mental health care/counseling"
  2 = "Received mental health care/counseling of some type";

Code

ind4_5 = **.**;
  if s2Q16 eq **1** and s4Q23 eq **1** then ind4_5 = **2**;
  if s2Q16 eq **1** and s4Q23 eq **0** then ind4_5 = **1**;
  label ind4_5 = "Indicator 4.5: How many children/youth (ages 1–17) with current emotional, developmental, or behavioral problems requiring treatment or counseling received some type of mental health care in the past 12 months? (derived)";

INDICATOR 4.6	During the past 12 months, did (child's name) receive all the medical care he/she needed?
Survey Items Used	S4Q07
Numerator	Children/youth who got all needed medical care
Denominator	Children/youth ages 0–17 years who needed and/or used medical care during the past 12 months
Description	Percent of children/youth ages 0–17 received all the medical care they needed in the past 12 months (S4Q07 = Yes).

Notes for Data-Users

Children/youth who "needed and/or used medical care" are defined as those who either saw a health care professional for any kind of medical care during the previous 12 months (S4Q01 = Yes) OR who needed some type of medical care during the past 12 months even though they did not see any health care professional (S4Q02 = Yes).

SAS Code and Annotation

Format

```
value yn /*ind1_3 ind1_7 ind1_8 ind2_8 ind3_1 ind4_6 ind4_9 ind5_2 ind6_14*/
  1 = "Yes"
  2 = "No";
```

Code

```
ind4_6 = .;
  if s4Q07 eq 0 or s4Q02 eq 1 then ind4_6 = 2;
  if s4Q07 eq 1 then ind4_6 = 1;
  label ind4_6 = "Indicator 4.6: During the past 12 months, did (child's name) receive all the medical care
  he/she needed? (S4Q07 — ages 0–17 who needed or used medical care)";
```

Preventive Medical Care

INDICATOR 4.7	During the past 12 months, did (child's name) receive all the prescription medication (Rx) he/she needed?
Survey Items Used	S4Q17
Numerator	Children/youth who received all needed Rx
Denominator	Children/youth ages 0–17 years who needed Rx during past 12 months
Description	Percent of children/youth ages 0–17 received all the Rx they needed during the past 12 months (S4Q17 = Yes).

Notes for Data-Users

Children/youth who "need prescription medication" is defined as children/youth who currently use or have used Rx in the past 12 months (S2Q04 or S4Q15 = Yes) OR children/youth who did not use any Rx in the past 12 months (S4Q16 = Yes), even though they needed it during that time (S4Q17 = No). The number of children/youth reported to have needed Rx during the past 12 months, even though they did not use any was 1,785 (S4Q16 = Yes). Of this group, 154 were reported as not having all of the Rx they needed (S4Q17 = No).

SAS Code and Annotation

Format

```
value prescrip /*ind4_7*/
  1 = "Did not get all needed medication"
  2 = "Got all needed medication";
```

Code

```
ind4_7 = .;
  if s4q17 eq 0 then ind4_7 = 1;
  if s4q17 eq 1 then ind4_7 = 2;
  if s4q17 gt 1 then ind4_7 = .;
  label ind4_7 = "Indicator 4.7: During the past 12 months, did (child's name) receive all the Rx he/she
  needed? (S4Q17 — ages 0–17 who needed Rx)";
```

36   2003 National Survey of Children's Health: SAS Codebook for Data Users, v. 1.1

INDICATOR 4.8	How many children/youth receive health care that meets the American Academy of Pediatrics (AAP) definition of medical home?
Survey Items Used	S4Q01 and S4Q03; SA5Q01 – S5Q13a
Numerator	Children/youth whose health care meets AAP medical home criteria
Denominator	Children/youth ages 0–17 years
Description	Percent of children/youth ages 0–17 who have a primary care provider (e.g., personal doctor or nurse) AND one or more preventive care visits during past 12 months AND consistently receive all needed care from primary care provider.

Notes for Data-Users

The medical home composite measure and its sub-components are designed to operationalize the American Academy of Pediatrics (AAP) definition of "medical home." According to this definition, all children ideally should have access to "accessible, continuous, comprehensive, family centered, coordinated, compassionate, and culturally effective care within a medical home."

For additional information about the questions in the medical home section (Section 5) of the 2003 National Survey of Children's Health, go to:
www.cdc.gov/nchs/data/slaits/NSCH_Methodology_Report.pdf

We are indebted to Deborah Rosenberg, PhD, Research Associate Professor of Epidemiology, School of Public Health, University of Illinois at Chicago, for translating the SPSS Medical Home scoring program developed by CAHMI into SAS format.

SAS Code and Annotation

Format

**** The following program sets the formats for the medical home sub-components, associated interim variables, and the overall medical home composite measure created by the SAS scoring program;

```
proc format library = library name;
value s5q0one /*format for PDN sub-component - S5Q01*/
0 = 'No'
1 = 'Yes'
6 = 'DK'
7 = 'Refused';

value pc_tw /*format for: PREVENTIVE CARE VISIT sub-component - pc_2*/
0 = 'Unknown'
1 = 'No preventive care visit'
2 = 'One or more prev care visits';

value subcomp /*format for HOW OFTEN sub-components*/
0 = 'Less than usually/always'
1 = 'Usually/always';

value acc_tw /*format for ACC_2 sub-component*/
0 = 'Problems'
1 = 'No problems';
```

```
value mh_yn /*format for MEDICAL HOME composite measure WITHOUT prev care visit added*/
0 = 'No PDN or has PDN & <75pts on 1 or more needed sub-comps'
1 = 'Has PDN & 75pts or above on every needed sub-comp';

value ind4_8 /*format for MEDICAL HOME composite measure*/
1 = 'Care MEETS MEDICAL HOME definition'
2 = 'Care DOES NOT meet MEDICAL HOME definition';
run;
```

Scoring program

```
*********************************Personal Doctor or Nurse (PDN) Component*********************************

/**PERSONAL DOCTOR or NURSE sub-component of MEDICAL HOME composite measure**/

**** Note:  Use question S5Q01***


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

/**Communication with PDN sub-component of MEDICAL HOME composite measure**/

/**Step 1: Set up the interim variables used to derive the Communication
with PDN sub-component of the MEDICAL HOME composite measure**/
adeqtime = .;
IF s5q02 = .L then adeqtime =.L;
if s5q02 eq 1 then adeqtime = 0;
if s5q02 eq 2 then adeqtime = 25;
if s5q02 eq 3 then adeqtime = 75;
if s5q02 eq 4 then adeqtime = 100;
if s5q02 eq 6 then adeqtime = 6;
if s5q02 eq 7 then adeqtime = 7;
if adeqtime in (6,7) then adeqtime = .;
label adeqtime = 'How often does PDN spend enough time with them';

explain = .;
if s5q04 eq 1 then explain = 0;
if s5q04 eq 2 then explain = 25;
if s5q04 eq 3 then explain = 75;
if s5q04 eq 4 then explain = 100;
if s5q04 eq 6 then explain = 6;
if s5q04 eq 7 then explain = 7;
if s5q04 in (6,7) then explain = .;
label explain = 'How often does PDN explain things so parent or ch understands';

interprt = .;
if s5q01 eq 1 and s5q13a eq 1 then interprt = 0;
if s5q01 eq 1 and s5q13a eq 2 then interprt = 25;
if s5q01 eq 1 and s5q13a eq 3 then interprt = 75;
if s5q01 eq 1 and s5q13a eq 4 then interprt = 100;
if s5q01 eq 1 and s5q13a eq 6 then interprt = 6;
if s5q01 eq 1 and s5q13a eq 7 then interprt = 7;
if interprt eq 6 then interprt = .;
if interprt eq 7 then interprt = .;
label interprt = "How often able to get needed interpreter services";
```

```
/**Step 2: Construct the "Communication with PDN" sub-component of MEDICAL HOME composite
measure**/
pdn_cnt = 0;
if adeqtime in (0,25,75,100) then pdn_cnt = pdn_cnt + 1;
if explain in (0,25,75,100) then pdn_cnt = pdn_cnt + 1;
if interprt in (0,25,75,100) then pdn_cnt = pdn_cnt + 1;
label pdn_cnt = "Number of PDN communication elements needed ";

pdn_sum = sum(adeqtime,explain,interprt);
label pdn_sum = "Total points across all needed elements of comm w/ PDN";

if pdn_cnt ne 0 then do; pdn100 = pdn_sum / pdn_cnt; end;
if pdn_cnt eq 0 then do; pdn100 = .; end;
label pdn100 = "Average score for communication with PDN sub-component of MEDICAL HOME";

pdncom_2 = .;
if pdn100 > = 0 and pdn100 < = 67 then pdncom_2 = 0;
if pdn100 > = 75 then pdncom_2 = 1;
label pdncom_2 = "PDN communication sub-component for MEDICAL HOME composite measure";




***************************************Comprehensive Care Component **************************************

/**PREVENTIVE CARE VISIT sub-component of MEDICAL HOME composite measure**/

pc_2 =0.;
if s4q01 eq 0 or s4q03r eq 0 then pc_2 = 1;
if s4q03r > = 1 then pc_2 = 2;
if s4q03r in (96,97) then pc_2 = 0;
label pc_2 = 'Preventive care visit sub-component';


/**GETTING NEEDED CARE/ADVICE sub-component of MEDICAL HOME composite measure**/

/**Step 1: The following syntax sets up the interim variables used to derive the "Getting needed care
from PDN" sub-component of MEDICAL HOME composite measure**/
phonehlp = .;
if s5q06a eq 1 then phonehlp = 0;
if s5q06a eq 2 then phonehlp = 25;
if s5q06a eq 3 then phonehlp = 75;
if s5q06a eq 4 then phonehlp = 100;
if s5q06a eq 6 then phonehlp = 6;
if s5q06a eq 7 then phonehlp = 7;
if s5q06a in (6,7) then phonehlp = .;
label phonehlp = "How often get advice over phone from ch's PDN when needed";

getcare = .;
if s5q07a eq 1 then getcare = 0;
if s5q07a eq 2 then getcare = 25;
if s5q07a eq 3 then getcare = 75;
if s5q07a eq 4 then getcare = 100;
if s5q07a eq 6 then getcare = 6;
if s5q07a eq 7 then getcare = 7;
if s5q07a in (6,7) then getcare = .;
label getcare = "How often get needed care right away from ch's PDN";
```

```
/**Step 2: Construct the "GETTING NEEDED CARE/ADVICE" sub-component of MEDICAL HOME
composite measure**/
care_cnt = 0;
if phonehlp in (0,25,75,100) then care_cnt = care_cnt + 1;
if getcare in (0,25,75,100) then care_cnt = care_cnt + 1;
label care_cnt = "Number of getting care elements needed";

care_sum = sum(phonehlp,getcare);
label care_sum = "Total points across needed elements of getting phone or urgent care from PDN";

if care_cnt ne 0 then do; care100 = care_sum / care_cnt; end;
if care_cnt eq 0 then do; care100 = .; end;
label care100 = "Average score for Getting Needed Care sub-component of MEDICAL HOME";

care_2 = .;
if care100 > = 0 and care100 < = 67 then care_2 = 0;
if care100 > = 75 then care_2 = 1;
label care_2 = "Getting Needed Care sub-component for MEDICAL HOME composite measure";


/**ACCESS to SPECIALIST CARE & SERVICES sub-component of MEDICAL HOME composite
measure**/

/**Step 1: The following syntax sets up the interim variables used to derive the "ACCESS to
SPECIALIST CARE & SERVICES" sub-component of MEDICAL HOME composite measure**/
special = .;
if s5q09a eq 1 then special = 0;
if s5q09a eq 2 then special = 25;
if s5q09a eq 3 then special = 75;
if s5q09a eq 4 then special = 100;
if s5q09a eq 6 then special = 6;
if s5q09a eq 7 then special = 7;
if s5q09a in (6,7) then special = .;
label special = "Problems getting needed care from specialist dr.";

services = .;
if s5q10a eq 1 then services = 0;
if s5q10a eq 2 then services = 25;
if s5q10a eq 3 then services = 75;
if s5q10a eq 4 then services = 100;
if s5q10a eq 6 then services = 6;
if s5q10a eq 7 then services = 7;
if s5q10a in (6,7) then services = .;
label services = "Problems getting needed services or equip";

/**Step 2: Construct the "ACCESS to SPECIALIST CARE & SERVICES" sub-component of MEDICAL
HOME composite measure**/
acc_cnt = 0;
if special in (0,25,75,100) then acc_cnt = acc_cnt + 1;
if services in (0,25,75,100) then acc_cnt = acc_cnt + 1;
label acc_cnt = "Number of access to care elements needed ";

acc_sum = sum(special,services);
label acc_sum = "Total points across accessing needed specialist care/services elements of MEDICAL
HOME";
```

```
if acc_cnt ne 0 then do; acc100 = acc_sum / acc_cnt; end;
if acc_cnt eq 0 then do; acc100 = .; end;
label acc100 = "Average score for access to needed specialist care/services sub-component of
MEDICAL HOME";


acc_2 = .;
if acc100 > = 0 and acc100 < = 67 then acc_2 = 0;
if acc100 > = 75 then acc_2 = 1;
label acc_2 = "Access to needed specialist care/services sub-component for Med Home composite
measure";



*********************************Coordinated Care Component *****************************************

/**FOLLOW UP w/ FAMILY sub-component of MEDICAL HOME composite measure**/

/**Step 1: Set up the interim variables used to derive the FOLLOW UP w/ FAMILY sub-component of the
MEDICAL HOME composite measure**/
fu_spec = .;
if s5q09c eq 1 then fu_spec = 0;
if s5q09c eq 2 then fu_spec = 25;
if s5q09c eq 3 then fu_spec = 75;
if s5q09c eq 4 then fu_spec = 100;
if s5q09c eq 6 then fu_spec = 6;
if s5q09c eq 7 then fu_spec = 7;
if s5q09c in (6,7) then fu_spec = .;
label fu_spec = "How often PDN follows up w/ family after specialist visit";


fu_serve = .;
if s5q10c eq 1 then fu_serve = 0;
if s5q10c eq 2 then fu_serve = 25;
if s5q10c eq 3 then fu_serve = 75;
if s5q10c eq 4 then fu_serve = 100;
if s5q10c eq 6 then fu_serve = 6;
if s5q10c eq 7 then fu_serve = 7;
if s5q10c in (6,7) then fu_serve = .;
label fu_serve = "How often PDN follows up w/ family after special services/equip";


/**Step2: Construct the "FOLLOW UP w/ FAMILY" sub-component of MEDICAL HOME composite
measure;**/
coor_cnt = 0;
if fu_spec in (0,25,75,100) then coor_cnt = coor_cnt + 1;
if fu_serve in (0,25,75,100) then coor_cnt = coor_cnt + 1;
label coor_cnt = "Number of coor care follow up components";


coor_sum = sum(fu_spec,fu_serve);
label coor_sum = "Total points on needed follow up care elements of MEDICAL HOME";


if coor_cnt ne 0 then do; coor100 = coor_sum / coor_cnt; end;
if coor_cnt eq 0 then do; coor100 = .; end;
label coor100 = "Average score on follow up care from PDN coor care component of MEDICAL HOME";


coor_2 = .;
if coor100 > = 0 and coor100 < = 67 then coor_2 = 0;
if coor100 > = 75 then coor_2 = 1;
label coor_2 = "Coor care component for Med Home composite measure";
```

```
************************************MEDICAL HOME Composite Measure****************************************

The following code uses the 6 sub-components created above to derive the MEDICAL HOME composite
measure using 75pts or above on EVERY needed sub-component scoring approach**/

/**Step1: Construct MEDICAL HOME composite measure WITHOUT preventive care visit criterion**/
mh_cnt = 0;
if pdncom_2 in (0,1) then mh_cnt = mh_cnt + 1;
if care_2 in (0,1) then mh_cnt = mh_cnt + 1;
if acc_2 in (0,1) then mh_cnt = mh_cnt + 1;
if coor_2 in (0,1) then mh_cnt = mh_cnt + 1;
label mh_cnt = "Number of needed components of Medical Home care";

mh_cnt2 = 0;
if pdncom_2 in (1) then mh_cnt2 = mh_cnt2 + 1;
if care_2 in (1) then mh_cnt2 = mh_cnt2 + 1;
if acc_2 in (1) then mh_cnt2 = mh_cnt2 + 1;
if coor_2 in (1) then mh_cnt2 = mh_cnt2 + 1;
label mh_cnt2 = "Number needed Medical Home sub-components with score of 75pts or above";

if mh_cnt ne 0 then do; mh2_scor = (mh_cnt2 / mh_cnt) * 100; end;
if mh_cnt eq 0 then do; mh2_scor = .; end;
label mh2_scor = "Percent of needed MEDICAL HOME sub-components with score 75pts or above";

mh_yn = 0;
if mh2_scor eq 100 then mh_yn = 1;
if mh2_scor < 100 and mh2_scor >=0 then mh_yn = 0;
if mh2_scor eq . and (s5q01 eq 6 or s5q01 eq 7) then mh_yn = 9;
if mh_yn eq 9 then mh_yn =.;
label mh_yn = "% meet MED HOME threshold of 75pt or above on EVERY needed component of care-
prev care not included";

/**Step2: Construct MEDICAL HOME composite measure with at least 1 preventive care visit/last 12
mos criteria added**/
ind4_8 = .;
if mh_yn eq 0 and pc_2 > = 1 then ind4_8 = 0;
if mh_yn eq 1 and pc_2 eq 1 then ind4_8 = 0;
if mh_yn eq 1 and pc_2 eq 2 then ind4_8 = 1;
if ind4_8 eq 0 then ind4_8 = 2; /*RECODE from 0,1 to 1,2*/
label ind4_8 = "How many children/youth (ages 0-17) receive health care meeting the AAP definition of
medical home?";
run;

PROC FREQ DATA = dataset name;
   FORMAT     S5q01 s5q0one.
              pc_2  pc_tw.
              pdncom_2 subcomp.
              care_2 subcomp.
              coor_2 subcomp.
              acc_2 acc_tw.
              mh_yn mh_yn.
              ind4_8 ind4_8.;
   TABLES S5q01 pc_2 pdncom_2 care_2 coor_2 acc_2 mh_yn ind4_8 ;
run;
```

INDICATOR 4.9	A personal doctor or nurse (PDN) is a health professional who knows your child well and is familiar with your child's health history. Do you have one or more persons you think of as (child's name)'s PDN?
Survey Items Used	S5Q01
Numerator	Children/youth who have a PDN
Denominator	Children/youth ages 0–17 years
Description	Percent of children/youth ages 0–17 with parents who have one or more persons they think of as their child's PDN (S5Q01 = Yes).

Notes for Data-Users

For more information about the scoring of this and other components of medical home derived from this survey, email cahmi@ohsu.edu.

SAS Code and Annotation

Format

```
value yn /*ind1_3 ind1_7 ind1_8 ind2_8 ind3_1 ind4_6 ind4_9 ind5_2 ind6_14*/
  1 = "Yes"
  2 = "No";
```

Code

```
ind4_9 = s5q01;
  if ind4_9 eq 0 then ind4_9 = 2; /*RECODE from 0,1 to 1,2*/
  if ind4_9 in (6,7) then ind4_9 = .;
  label ind4_9 = "Indicator 4.9: A PDN 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's) PDN?
  (S5Q01 — ages 0–17)";
```

INDICATOR 4.10	How many children/youth have a personal doctor or nurse (PDN) who consistently spends enough time with them and explains things in ways that children and parents can understand?
Survey Items Used	S5Q01; S5Q02 – S5Q04
Numerator	Children/youth whose PDN consistently spends enough time and explains things
Denominator	Children/youth ages 0–17 years
Description	Percent of children/youth ages 0–17 whose PDN consistently spends enough time with them and explains things in a way that children and parents can understand. (S5Q01 = Yes; S5Q02 and S5Q04 = "Always" or "Usually").

Notes for Data-Users

Questions S5Q02 and S5Q04 are only asked for children who have one or more persons their parents consider to be the child's PDN (S5Q01 = Yes). PDN is a health professional who knows the child well and is familiar with the child's health history. This can be a general doctor, a pediatrician, a specialist doctor, a nurse practitioner, or a physician's assistant.

For more information about the scoring of the components of medical home derived from this survey, email cahmi@ohsu.edu.

SAS Code and Annotation

Format

value enotime /*ind4_10*/
  1 = "Child does not have a personal dr/nurse"
  2 = "Personal dr/nurse does not consistently spend enough time or explain well"
  3 = "Personal dr/nurse consistently spends enough time and explains well";

Code

/*IMPORTANT NOTE: Run the scoring program for Indicator 4.8 (Medical Home index) FIRST or the following code will not work because it uses the "Communication with PDN" scoring component of MEDICAL HOME Index to construct Indicator 4.10*/

if s5q01 = 0 then ind4_10 = 1;
  if pdncom_2 = 0 then ind4_10 = 2;
  if pdncom_2 = 1 then ind4_10 = 3;
  label ind4_10 = "Indicator 4.10: How many children/youth (ages 0–17) have a PDN who consistently spends enough time with them and explains things in ways that children and parents can understand?";

INDICATOR 4.11	How many children/youth have a personal doctor or nurse (PDN) who is consistently available when phone advice or urgent care is needed for child?
Survey Items Used	S5Q01; S5Q06 – S5Q07A
Numerator	Children/youth whose PDN is consistently available for phone advice and/or urgent care
Denominator	Children/youth ages 0–17 years who needed phone advice and/or urgent from their PDN during the past 12 months
Description	Among children/youth ages 0–17 with a PDN and who needed phone advice and/or urgent care, percent whose PDN is consistently available when phone advice or urgent care is needed (S5Q06A and/or S5Q07A = "Always" or "Usually").

Notes for Data-Users

Only children who have a PDN (S5Q01 = Yes) and who needed phone advice and/or urgent care for an injury or illness during the past 12 months (S5Q06 and S6Q07 = Yes) were asked the questions about how often their PDN was available to give urgently needed care or phone advice. A PDN is a health professional who knows the child well and is familiar with the child's health history. This can be a general doctor, a pediatrician, a specialist doctor, a nurse practitioner, or a physician's assistant.

For more information about the scoring of the components of medical home derived from this survey, email cahmi@ohsu.edu.

SAS Code and Annotation

Format

value consist /*ind4_11*/
  1 = "PDN consistently available"
  2 = "PDN not consistently available";

Code

*IMPORTANT NOTE: Run the scoring program for Indicator 4.8 (Medical Home index) FIRST or the following code will not work because it uses the "Getting needed care from PDN" scoring component of MEDICAL HOME Index to construct Indicator 4.11;

if s5q01 = **0** then ind4_11 = **.**;
  else if care_2 = **0** then ind4_11 = **0**;
  else if care_2 = **1** then ind4_11 = **1**;
  if ind4_11 eq **0** then ind4_11 = **2**; /*RECODE from 0,1 to 1,2*/
  label ind4_11 = "Indicator 4.11: How many children/youth (ages 0–17) have a PDN who is consistently available when phone advice or urgent care is needed for child? (derived — ages 0–17 who needed phone advice or urgent care)";

INDICATOR 4.12	How many children/youth had problems getting the specialty care, services, or equipment recommended by their personal doctor or nurse (PDN)?
Survey Items Used	S5Q01; S5Q09 – S5Q09A; and/or S5Q10 – S5Q10A
Numerator	Children/youth who experienced significant problems getting recommended care
Denominator	Children/youth ages 0–17 years who needed specialist care and/or specialized services or equipment recommended by their PDN during the past 12 months
Description	Among children/youth ages 0–17 who have a PDN and needed specialist care and/or specialized services or equipment recommended by their PDN, percent who experienced problems getting them (S5Q09A and/or S5Q10A = "a big problem" or "a moderate problem").

Notes for Data-Users

Only children who have a PDN (S5Q01 = Yes) and who needed specialist care and/or specialized health services or equipment during the past 12 months (S5Q09 and S5Q10 = Yes) were asked the questions about level of problems experienced getting needed care. A PDN is a health professional who knows the child well and is familiar with the child's health history. This can be a general doctor, a pediatrician, a specialist doctor, a nurse practitioner, or a physician's assistant.

For more information about the scoring of the components of medical home derived from this survey, email cahmi@ohsu.edu.

SAS Code and Annotation

Format

value reccare /*ind4_12*/
   1 = "Few or no problems getting recommended care"
   2 = "Significant problems getting recommended care";

Code

*IMPORTANT NOTE: Run the scoring program for Indicator 4.8 (Medical Home index) FIRST or the following code will not work because it uses the "Access to needed specialist care/services for children w/ PDN" scoring component of MEDICAL HOME Index to construct Indicator 4.12;

if s5q01 = **0** then ind4_12 = **.**;
   else if acc_2 = **0** then ind4_12 = **0**;
   else if acc_2 = **1** then ind4_12 = **1**;
   if ind4_12 eq **0** then ind4_12 = **2**; /*RECODE from 0,1 to 1,2*/
   label ind4_12 = "Indicator 4.12: How many children/youth (ages 0–17) had problems getting the specialty care, services, or equipment recommended by their PDN? (derived — ages 0–17 who needed specialist care or equipment)";

INDICATOR 4.13	How many children/youth have a personal doctor or nurse (PDN) who follows up with family after child sees specialist or gets specialized services/equipment?
Survey Items Used	S5Q01; S5Q09C and/or S5Q10C
Numerator	Children/youth whose PDN consistently follows up after specialized care or equipment
Denominator	Children/youth ages 0–17 years who have a PDN and needed specialist care or specialized services/equipment during the past 12 months
Description	Among children/youth ages 0–17 who have a PDN and got specialist care or specialized services/equipment, percent whose PDN consistently follows up with family (S5Q09C and/or S5Q10C = "Usually" or "Always").

Notes for Data-Users

Only children who have a PDN (S5Q01 = Yes) and who needed specialist care and/or specialized health services or equipment during the past 12 months (S5Q09 and S5Q10 = Yes) were asked the questions about how often their PDN followed up with the family after child received care. A PDN is a health professional who knows the child well and is familiar with the child's health history. This can be a general doctor, a pediatrician, a specialist doctor, a nurse practitioner, or a physician's assistant.

For more information about the scoring of the components of medical home derived from this survey, email cahmi@ohsu.edu.

SAS Code and Annotation

Format

```
value followup /*ind4_13*/
  1 = "PDN consistently follows up"
  2 = "PDN does not consistently follow up";
```

Code

*IMPORTANT NOTE: Run the scoring program for Indicator 4.8 (Medical Home index) FIRST or the following code will not work because it uses the "Follow up care for children w/ PDN" scoring component of MEDICAL HOME Index to construct Indicator 4.13;

```
if s5q01 = 0 then ind4_13 = .;
  else if coor_2 = 0 then ind4_13 = 0;
  else if coor_2 = 1 then ind4_13 = 1;
  if ind4_13 eq 0 then ind4_13 = 2; /*RECODE from 0,1 to 1,2*/
  label ind4_13 = "Indicator 4.13: How many children/youth (ages 0–17) have a PDN who follows up with
  family after child sees specialist or gets specialized services/equipment? (derived — ages 0–17 who
  got specialized services or equipment)";
```

INDICATOR 4.14	**During the past 12 months, did (child's name)'s doctors or other health care professionals ask if you have concerns about his/her learning, development, or behavior?**
Survey Items Used	S6Q28
Numerator	Young children who had health care visit at which a health care professional asked parents about concerns regarding child's learning, development or behavior
Denominator	Children ages 0–5 years
Description	Percent of children ages 0–5 whose doctors asked if parents have concerns about child's learning, development, or behavior (S6Q28 = Yes).

Notes for Data-Users

SAS Code and Annotation

Format

```
value dr_asks /*ind4_14*/
  1 = "Visited dr, asked about concerns"
  2 = "Visited dr, but not asked"
  3 = "Child did not visit doctor";
```

Code

```
ind4_14 = s6q28;
  if ageyr_child < 6 and s4q01 eq 0 then ind4_14 = 3;
  if ind4_14 in (6,7) then ind4_14 = .;
  if ind4_14 eq 0 then ind4_14 = 2; /*RECODE from 0,1 to 1,2*/
  label ind4_14 = "Indicator 4.14: During the past 12 months, did (child's name)'s doctors or other health care professionals ask if you have concerns about his/her learning, development, or behavior? (S6Q28 — ages 0–5)";
```

INDICATOR 4.15	During the past 12 months, did (child's name)'s doctors give you specific information to address your concerns about his/her learning, development, or behavior?
Survey Items Used	S6Q08 – S6Q27; S6Q29
Numerator	Children whose parents were highly concerned and got needed information from the child's doctor
Denominator	Children ages 0–5 years whose parents were highly concerned about their child's learning, development, or behavior
Description	Percent of children ages 0–5 whose parents were highly concerned about their learning, development or behavior and got information addressing their concerns from child's doctor (S6Q29 = Yes).

Notes for Data-Users

Question S6Q29 was only asked for children whose parents answered "A lot concerned" to any of questions S6Q09 through S6Q27 and/or "Yes" to question S6Q08.

The PEDS (Parents' Evaluation of Developmental Status) is a standardized tool designed to identify children at risk for developmental, behavioral, or social delays. The NSCH uses the non-clinical version of the PEDS. Researchers interested in analyzing NSCH data collected with the PEDS instrument will need to consult PEDS documentation for scoring instructions at www.pedstest.com. Health care providers interested in using the PEDS to assess or make decisions about the developmental status for individual children, need to use the clinical version of the PEDS instrument, which can be obtained from Ellsworth & Vandermeer Press, LLC. National data for the PEDS are also available from the 2000 National Survey of Early Childhood Health. For more information, see www.cdc.gov/nchs/data/slaits/NSCH_Methodology_Report.pdf.

SAS Code and Annotation

Format

```
value needinfo/*ind4_15*/
  1 = "Highly concerned AND got needed info"
  2 = "Highly concerned but did not get info";
```

Code

```
ind4_15 = s6q29;
  if ind4_15 in (6,7) then ind4_15 = .;
  if ind4_15 eq 0 then ind4_15 = 2; /*RECODE from 0,1 to 1,2*/
  label ind4_15 = "Indicator 4.15: During the past 12 months, did (child's name)'s doctors give you
  specific information to address your concerns about his/her learning, development, or behavior?
  (S6Q29 — ages 0–5 with highly concerned parents)";
```

INDICATOR 5.1	How many children regularly attended nursery school, preschool, kindergarten, Head Start, or Early Start during the past month?
Survey Items Used	S6Q51 and S6Q52
Numerator	Children who regularly attended early childhood education
Denominator	Children ages 3–5 years
Description	Percent of children ages 3–5 who regularly attended nursery school, preschool, kindergarten and/or Head Start or Early Start during the past month (S6Q51 and/or S6Q52 = Yes).

Notes for Data-Users

Question S2Q51 (nursery school, preschool, or kindergarten attendance) is only asked for children ages 3–5 years. Question S2Q52 (Head Start or Early Start attendance) is asked for children ages 0–5 years; however, responses for children ages 3–5 years only are included in the denominator for this indicator.

SAS Code and Annotation

Format

```
value early_sc /*ind5_1*/
  1 = "Regularly attended during past month"
  2 = "Did not attend during past month"
  99 = "DK or Refused both items";
```

Code

```
ind5_1 = .;
  if S6Q52 eq 0 and S6Q51 eq 0 then ind5_1 = 2; /*Did not attend*/
  if (S6Q51 eq 1 or S6Q52 eq 1) and (AGEYR_CHILD> = 3) then ind5_1 = 1; /*Regularly attended*/
  if (S6Q51 eq 6 or s6q51 eq 7) and (s6q52 eq 6 or s6q52 eq 7) then ind5_1 = .;
  label ind5_1 = "Indicator 5.1: How many children (ages 3–5) regularly attended nursery school,
  preschool, kindergarten, Head Start, or Early Start during the past month? (derived)";
```

INDICATOR 5.2	Since starting kindergarten, has (child's name) repeated any grades?
Survey Items Used	S7Q09
Numerator	Children/youth who have repeated one or more grades since starting kindergarten
Denominator	Children/youth ages 6–17 years
Description	Percent of children/youth ages 6–17 who repeated one or more grades since starting kindergarten (S7Q09 = Yes).

Notes for Data-Users

Question S7Q09 was asked for all children/youth currently enrolled in public or private schools, for those who were not enrolled in any school at the time of the survey (S7Q01 = Yes OR S7Q01F = Yes), and for children were home-schooled during the past year.

SAS Code and Annotation

Format

value yn /*ind1_3 ind1_7 ind1_8 ind2_8 ind3_1 ind4_6 ind4_9 ind5_2 ind6_14*/
  1 = "Yes"
  2 = "No";

Code

ind5_2 = **.**;
  if s7q09 eq **1** then ind5_2 = **1**; /*Yes*/
  if s7q09 eq **0** then ind5_2 = **2**; /*No*/
  if s7q09 in (**6**,**7**) then ind5_2 = **.**; /*Don't Know and Refused set to missing*/
  label ind5_2 = "Indicator 5.2: Since starting kindergarten, has (child's name) repeated any grades? (S7Q09 — ages 6–17)";

INDICATOR 5.3	Did (child's name) participate in one or more organized activities outside of school, such as sports teams or lessons, clubs, or religious groups?
Survey Items Used	S7Q10, S7Q11 or S7Q11a
Numerator	Children/youth who participated in one or more organized activities outside of school
Denominator	Children/youth ages 6–17 years
Description	Percent of children/youth ages 6–17 who participated in one or more organized activities outside of school (S7Q10 = Yes or S7Q11 = Yes or (S7Q11a = Yes).

Notes for Data-Users

Activities outside of school are defined as: sports teams or lessons, clubs and organizations such Scouts, religious groups or any other organized event or activity that takes place after school or on weekends.

SAS Code and Annotation

Format

```
value out_sch /*ind5_3*/
  1 = "Participated in 1 or more organized activities"
  2 = "Did not participate in organized activities"
  99 = "DK or Refused on all three items";
```

Code

```
ind5_3 = .;
  if (s7q10 eq 1 or s7q11 eq 1 or s7q11a eq 1) then ind5_3 = 1; /*Participated in 1 or more organized
  activities*/
  if (s7q10 eq 6 or s7q10 eq 7) and (s7q11 eq 6 or s7q11 eq 7) and (s7q11a eq 6 or s7q11a eq 7) then
  ind5_3 = .;
  if (S7Q10 eq 0 and S7Q11 eq 0 and S7Q11A eq 0) then ind5_3 = 2; /*Did not participate in organized
  activities*/
  label ind5_3 = "Indicator 5.3: How many children/youth (ages 6–17) participate in one or more
  organized activities outside of school, such as sports teams or lessons, clubs, or religious groups?
  (derived)";
```

INDICATOR 5.4	During the past 12 months, has (child's name) been involved in any type of community service or volunteer work at school, church, or in the community?
Survey Items Used	S7Q17
Numerator	Children/youth who participated in any type of community service or volunteer work
Denominator	Children/youth ages 12–17 years
Description	Percent of children/youth ages 12–17 who participated in any type of community service or volunteer work during the past 12 months (S7Q17 = Yes).
Notes for Data-Users	

SAS Code and Annotation

Format

```
value vol_act /*ind5_4*/
  1 = "Participated in volunteer work"
  2 = "Did NOT participate";
```

Code

```
ind5_4 = S7Q17;
  if S7Q17 eq 0 then ind5_4 = 2; /*Did NOT participate*/
  if S7Q17 eq 1 then ind5_4 = 1; /*Participated in volunteer work*/
  if S7Q17 in (6,7) then ind5_4 = .;
  label ind5_4 = "Indicator 5.4: During the past 12 months, has (child's name) been involved in any type
  of community service or volunteer work at school, church, or in the community? (S7Q17 —
  ages 12–17)";
```

INDICATOR 5.5	During the past week, how many hours did (child's name) work for pay?
Survey Items Used	S7Q19
Numerators	• Youth did not work for pay during the past week • Youth who worked for pay 1–9 hours during the past week • Youth who worked for pay 10 or more hours during the past week
Denominator	Youth ages 12–17 years
Description	Percent of youth ages 12–17 who did not work for pay, or who worked for pay 1–9 hours, or 10 or more hours.

Notes for Data-Users
"Working for pay" only includes work done outside the home.

SAS Code and Annotation
Format

value workpay /*ind5_5*/
  1 = "Did not work"
  2 = "Less than 1 hour–9 hours"
  3 = "10 hours or more";

Code

ind5_5 = **.**;
  if s7q19 = **0** then ind5_5 = **1**; /*Did not work*/
  if **1** < = s7q19 < = **9** or s7q19 eq **995** then ind5_5 = **2**; /*less than 1 hour–9 hours*/
  if **10** < = s7q19 < = **168** then ind5_5 = **3**; /*10 hours or more*/
  if s7q19 in (**996**,**997**) then ind5_5 = **.**; /*Don't know and Refused set to missing*/
  label ind5_5 = "Indicator 5.5: During the past week, how many hours did (child's name) work for pay? (S7Q19 — ages 12–17)";

INDICATOR 5.6	On an average school day, about how much time does (child's name) usually spend reading for pleasure?
Survey Items Used	S7Q26
Numerators	• Children/youth who do not read on an average school day • Children/youth who read less than 30 minutes on an average school day • Children/youth who read 30–60 minutes on an average school day • Children/youth who read more than 60 minutes on an average school day
Denominator	Children/youth ages 6–17 years
Description	Percent of children/youth ages 6–17 who do not read for pleasure, or who read for less than 30 minutes, 30–60 minutes, or more than 60 minutes on an average school day.

Notes for Data-Users

"Reading for pleasure" 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 help of an audiotape, record, CD, or computer.

SAS Code and Annotation

Format

```
value read_ple /*ind5_6*/
  1 = "None"
  2 = "30 minutes or less"
  3 = "31–60 minutes"
  4 = "Over 60 minutes";
```

Code

```
ind5_6 = .;
  S7Q26r2 = S7Q26;
  if S7Q26 eq 995 then S7Q26r2 = 0.5;
  if S7Q26r2 in (996, 997) then S7Q26r2 = .;
  S7Q26r3 = S7Q26r2;
  if S7Q26r3 in (996, 997) then S7Q26r3 = .;
  if S7Q26a eq 1 then do S7Q26r3 = S7Q26r2*60; end;
  if S7Q26r3 eq 0 then ind5_6 = 1; /*None*/
  if S7Q26r3 ge 0.5 and S7Q26r3 le 30 then ind5_6 = 2; /*30 minutes or less*/
  if S7Q26r3 ge 31 and S7Q26r3 le 60 then ind5_6 = 3; /*31–60 minutes*/
  if S7Q26r3 ge 61 and S7Q26r3 le 1800 then ind5_6 = 4; /*Over 60 minutes*/
  label ind5_6 = "Indicator 5.6: On an average school day, about how much time does (child's name) usually spend reading for pleasure? (S7Q26 — ages 6–17)";
```

INDICATOR 5.7	How often does (child's name) attend religious services?
Survey Items Used	S8Q02 and S8Q02a
Numerators	• Children/youth who do not attend religious services • Children/youth who attend religious services once a year • Children/youth who attend religious services once a month • Children/youth who attend religious services once a week or more often
Denominator	Children/youth ages 0–17 years
Description	Percent of children/youth ages 0–17 who do not attend religious services, or who attend religious services at least once per year (but less than once per month), at least once per month (but less than once per week), or once per week or more.
Notes for Data-Users	

SAS Code and Annotation

Format

```
value religion /*ind5_7*/
  1 = "Never"
  2 = "At least once a year"
  3 = "At least once a month"
  4 = "Once a week, or more";
```

Code

```
ind5_7 = .;
  if religion eq 0 then ind5_7 = 1; /*None*/
  if religion eq 1 then ind5_7 = 2; /*At least once per year, but less than once per month*/
  if religion eq 2 then ind5_7 = 3; /*At least once per month, but less than once per week*/
  if religion in (3,4) then ind5_7 = 4; /*Once per week or more*/
  label ind5_7 = "Indicator 5.7: How often do children/youth (ages 0–17) attend religious services?
  (derived)";
```

INDICATOR 6.1	Would you say that in general (child's mother's name)'s health is excellent, very good, good, fair, or poor?
Survey Items Used	S9Q08
Numerators	• Children/youth whose mother's general health is excellent or very good • Children/youth whose mother's general health is good • Children/youth whose mother's general health is fair or poor
Denominator	Children/youth ages 0–17 years who live with their biological, step, foster or adoptive mothers
Description	Percent of children ages 0–17 whose mother's general health is excellent/very good, good, or fair/poor.

Notes for Data-Users

When the respondent to S9Q08 was the child's mother (biological, step, foster, adoptive), she rated her own physical health status. Respondents who were not the child's mother (e.g., father or other relative) gave a proxy rating of the mother's physical health. Nationally, about 94 percent of children had a biological, step, foster, or adoptive mother in the household.

Results for this question are weighted to reflect the population of children/youth ages 0–17 years, not the population of parents! "Percent of children ages 0–17 years living with mothers whose health status is excellent to poor" is the accurate way to report results — DO NOT report as "Percent of mothers…."

SAS Code and Annotation

Format

value health /*ind1_1 ind6_1 ind6_2*/
  1 = "Excellent/Very Good"
  2 = "Good"
  3 = "Fair/Poor";

Code

ind6_1 = **.**;
  if s9q08 in (**6**,**7**) then ind6_1 = **.**;
  if s9q08 in (**4**,**5**) then ind6_1 = **3**; /*Fair or Poor*/
  if s9q08 in (**3**) then ind6_1 = **2**; /*Good*/
  if s9q08 in (**1**,**2**) then ind6_1 = **1**; /*Excellent or Very Good*/
  label ind6_1 = "Indicator 6.1: Would you say that in general (child's mother's name)'s health is excellent, very good, good, fair, or poor ? (S9Q08 – biological, step, foster, or adoptive mother in the household)";

INDICATOR 6.2	Would you say in general that (child's mother's name)'s mental and emotional health is excellent, very good, good, fair, or poor?
Survey Items Used	S9Q18
Numerators	• Children/youth whose mother's mental and emotional health is excellent or very good • Children/youth whose mother's mental and emotional health is good • Children/youth whose mother's mental and emotional health is fair or poor
Denominator	Children/youth ages 0–17 years who live with their biological, step, foster or adoptive mothers
Description	Percent of children/youth ages 0–17 whose mother's mental and emotional health is excellent/very good, good, or fair/poor.

Notes for Data-Users

When the respondent to S9Q18 was the child's mother (biological, step, foster, adoptive), she rated her own mental/emotional health status. Respondents who were not the child's mother (e.g., father or other relative) gave a proxy rating of the mother's mental and emotional health. Nationally, about 94 percent of children had a biological, step, foster, or adoptive mother in the household.

Results for this question are weighted to reflect the population of children/youth ages 0–17 years, not the population of parents! "Percent of children/youth ages 0–17 years living with mothers whose mental health status is excellent to poor" is the accurate way to report results — DO NOT report as "Percent of mothers…."

SAS Code and Annotation

Format

```
value health /* ind1_1 ind6_1 ind6_2 */
  1 = "Excellent/Very Good"
  2 = "Good"
  3 = "Fair/Poor";
```

Code

```
ind6_2 = .;
  if s9q18 in (6,7) then ind6_2 = .;
  if s9q18 in (4,5) then ind6_2 = 3; /*Fair or Poor*/
  if s9q18 in (3) then ind6_2 = 2; /*Good*/
  if s9q18 in (1,2) then ind6_2 = 1; /*Excellent or Very Good*/
  label ind6_2 = "Indicator 6.2: Would you say in general that (child's mother's name)'s mental and
  emotional health is excellent, very good, good, fair, or poor? (S9Q18 — biological, step, foster, or
  adoptive mother in the household)";
```

INDICATOR 6.3	Did child/youth have a mother whose physical and mental health were BOTH excellent or very good?
Survey Items Used	S9Q08 and S9Q18
Numerator	Children/youth whose mother's overall physical and mental health status is excellent or very good
Denominator	Children/youth ages 0–17 years who live with their biological, step, foster or adoptive mothers
Description	Percent of children/youth ages 0–17 whose mother's physical and mental health are BOTH excellent and very good (S9Q08 and S9Q18 both = "excellent" or "very good").

Notes for Data-Users

When the respondent to S9Q08 or S9Q18 was the child's mother (biological, step, foster, adoptive) she rated her own physical and mental health status. Respondents who were not the child's mother (e.g., father or other relative) gave a proxy rating of the mother's physical or mental health. Nationally, about 94 percent of children had a biological, step, foster, or adoptive mother in the household.

Results for this question are weighted to reflect the population of children/youth ages 0–17 years, not the population of parents! "Percent of children/youth ages 0–17 years living with mothers whose overall physical and mental health status is excellent or very good" is the accurate way to report results — DO NOT report as "Percent of mothers…."

SAS Code and Annotation

Format

```
value overall /* ind6_3 */
  1 = "One or both are NOT excellent/very good"
  2 = "Maternal physical & mental health BOTH excellent/very good";
```

Code

```
ind6_3 = .;
  if s9q08 in (1,2) and s9q18 in (1,2) then ind6_3 = 2; /*Health and Mental health are both E,VG*/
  if s9q08 in (1,2) and s9q18 in (3,4,5) then ind6_3 = 1; /*Health is E,VG and Mental health is G,F,P*/
  if s9q08 in (3,4,5) and s9q18 in (1,2) then ind6_3 = 1; /*Health is G,F,P and Mental health is E,VG*/
  if s9q08 in (3,4,5) and s9q18 in (3,4,5) then ind6_3 = 1; /*Health and Mental health are both G,F,P*/
  label ind6_3 = "Indicator 6.3: How many children/youth (ages 0–17) have mothers whose physical and mental health were BOTH excellent or very good? (derived)";
```

INDICATOR 6.4	Does anyone in the household use cigarettes, cigars, or pipe tobacco?
Survey Items Used	S9Q11B
Numerator	Children/youth living in households where someone uses cigarettes, cigars, or pipe tobacco
Denominator	Children/youth ages 0–17 years
Description	Percent of children/youth ages 0–17 living in a household where someone uses cigarettes, cigars, or pipe tobacco (S9Q11B = Yes).

Notes for Data-Users

Missing data for S9Q11B includes 13 percent of respondents (n = 13,277) who did not answer the question because it was added to the NSCH interview part way through the data collection process.

SAS Code and Annotation

Format

value smoke /*ind6_4*/
  1 = "Someone in household smokes tobacco"
  2 = "No one in household smokes tobacco";

Code

ind6_4 = s9q11b;
  if ind6_4 eq **0** then ind6_4 = **2**;
  if ind6_4 in (**6**,**7**) then ind6_4 = **.**;
  label ind6_4 = "Indicator 6.4: Does anyone in the household use cigarettes, cigars, or pipe tobacco?";

INDICATOR 6.5	How many children/youth live in "working poor" households — parents employed full-time with incomes less than 100 percent of the Federal Poverty Level (FPL)?
Survey Items Used	S11Q08; C11Q01–W9Q12A
Numerator	Children/youth living in "working poor" households
Denominator	Children/youth ages 0–17 years
Description	Percent of children/youth ages 0–17 living in "working poor" households (Parents employed full-time with incomes less than 100 percent of the FPL)

Notes for Data-Users

"Working poor" is defined as a household in which one or both parents are employed full-time AND household income is below the FPL.

SAS Code and Annotation

Format

```
value workpoor /*ind6_5*/
  1 = "Does not live in "working poor" HH"
  2 = "Lives in "working poor" HH";
```

Code

```
ind6_5 = .;
  if s11q08 in (0,1) and poverty_levelr in (1,2,3,4,5,6,7,8) then ind6_5 = 1; /*Does not live in "WP" HH*/
  if s11q08 eq 1 and poverty_levelr eq 1 then ind6_5 = 2; /*Lives in "WP" HH*/
  label ind6_5 = "Indicator 6.5: How many children/youth (ages 0–17) live in 'working poor' households –
  parents employed full-time with incomes less than 100 percent of the FPL?";
```

INDICATOR 6.6	During the past week, how many times did you or any family member take (child's name) on any kind of outing, such as to the park, library, zoo, shopping, church, restaurants, or family gatherings?
Survey Items Used	S8Q01
Numerators	• Young children who went on no family outings the previous week • Young children who went on 1–3 family outings the previous week • Young children who went on 4–6 family outings the previous week • Young children who went on 7 or more family outings the previous week
Denominator	Children ages 0–5 years
Description	Percent of children ages 0–5 who went on outings with a family member no times, 1–3 times, 4–6 times, or 7 or more times during the past week.
Notes for Data-Users	
SAS Code and Annotation	
Format	

```
value outings /*ind6_6*/
  1 = "None"
  2 = "1–3 times"
  3 = "4–6 times"
  4 = "7 or more times";
```

Code

```
ind6_6 = s8q01r;
  if s8q01r eq 0 then ind6_6 = 0;
  if s8q01r ge 1 and s8q01r le 3 then ind6_6 = 1;
  if s8q01r ge 4 and s8q01r le 6 then ind6_6 = 2;
  if s8q01r ge 7 and s8q01r le 20 then ind6_6 = 3;
  if ind6_6 in (96,97) then ind6_6 = .;
  ind6_6 = ind6_6 + 1; /*RECODES 0,1,2,3 into 1,2,3,4*/
  label ind6_6 = "Indicator 6.6: During the past week, how many times did you or any family member
  take (child's name) on any kind of outing, such as to the park, library, zoo, shopping, church,
  restaurants, or family gatherings? (S8Q01 — ages 0–5 only)";
```

INDICATOR 6.7	During the past week, how many days did you or other family members read stories to (child's name)?
Survey Items Used	S6Q62
Numerators	• Young children who not read aloud to during the past week • Young children who were read aloud to on 1–2 days during the past week • Young children who were read aloud to on 3–4 days during the past week • Young children who were read aloud to on 5–6 days during the past week • Young children who were read aloud to every day during the past week
Denominator	Children ages 0–5 years
Description	Percent of children ages 0–5 who were read aloud to by a family member on no days, 1–2 days, 3–4 days, 5–6 days, or on everyday during the past week.
Notes for Data-Users	
SAS Code and Annotation	
Format	

value reading /*ind6_7*/
  1 = "No days"
  2 = "1 or 2 days"
  3 = "3 or 4 days"
  4 = "5 or 6 days"
  5 = "Every day";

Code

ind6_7 = s6q62;
  if s6q62 eq **0** then ind6_7 = **0**;
  if s6q62 in (**1**,**2**) then ind6_7 = **1**;
  if s6q62 in (**3**,**4**) then ind6_7 = **2**;
  if s6q62 in (**5**,**6**) then ind6_7 = **3**;
  if s6q62 eq **7** then ind6_7 = **4**;
  if ind6_7 in (**96**,**97**) then ind6_7 = **.**;
  ind6_7 = ind6_7 + **1**; /*RECODES 0,1,2,3,4 into 1,2,3,4,5*/
  label ind6_7 = "Indicator 6.7: During the past week, how many days did you or other family members read stories to (child's name)? (S6Q62 — ages 0–5 only)";

INDICATOR 6.8	During the past week, on how many days did all the family members who live in the household eat a meal together?
Survey Items Used	S8Q03
Numerators	• Children/youth whose family did not eat together during the past week • Children/youth whose family ate together on 1–3 days during the past week • Children/youth whose family ate together on 4–6 days during the past week • Children/youth whose family ate together every day during the past week
Denominator	Children/youth ages 0–17 years
Description	Percent of children/youth ages 0–17 live in a household where all of the family members at a meat together on no days, 1–3 days, 4–6 days, or everyday during the past week.
Notes for Data-Users	
SAS Code and Annotation	
Format	

```
value shmeals /*ind6_8*/
  1 = "No days"
  2 = "1–3 days"
  3 = "4–6 days"
  4 = "Every day";
```

Code

```
ind6_8 = s8q03;
  if s8q03 eq 0 then ind6_8 = 0;
  if s8q03 ge 1 and s8q03 le 3 then ind6_8 = 1;
  if s8q03 ge 4 and s8q03 le 6 then ind6_8 = 2;
  if s8q03 eq 7 then ind6_8 = 3;
  if ind6_8 in (96,97) then ind6_8 = .;
  ind6_8 = ind6_8 + 1; /*RECODES 0,1,2,3 into 1,2,3,4*/
  label ind6_8 = "Indicator 6.8: During the past week, on how many days did all the family members who
  live in the household eat a meal together? (S8Q03)";
```

INDICATOR 6.9	During the past week, on how many nights did (child's name) get enough sleep for a child/youth his/her age?
Survey Items Used	S7Q20
Numerators	• Children/youth who did not get enough sleep on any night during the past week • Children/youth who got enough sleep on 1–3 nights during the past week • Children/youth who got enough sleep on 4–6 nights during the past week • Children/youth who got enough sleep on every night during the past week
Denominator	Children/youth ages 6–17 years
Description	Percent of children/youth ages 6–17 who got enough sleep for a child of his/her age on no nights, 1–3 nights, 4–6 nights, or every night during the past week.
Notes for Data-Users	
SAS Code and Annotation	
Format	

value sleep /*ind6_9*/
  1 = "0 nights"
  2 = "1–3 nights"
  3 = "4–6 nights"
  4 = "Every night";

Code

ind6_9 = s7q20;
  if s7q20 eq **0** then ind6_9 = **0**;
  if s7q20 ge **1** and s7q20 le **3** then ind6_9 = **1**;
  if s7q20 ge **4** and s7q20 le **6** then ind6_9 = **2**;
  if s7q20 eq **7** then ind6_9 = **3**;
  if ind6_9 in (**96**,**97**) then ind6_9 = **.**;
  ind6_9 = ind6_9 + **1**; /*RECODES 0,1,2,3 into 1,2,3,4*/
  label ind6_9 = "Indicator 6.9: During the past week, on how many nights did (child's name) get enough sleep for a child his/her age? (S7Q20 — ages 6–17)";

INDICATOR 6.10	On an average school day, about how many hours does (child's name) usually watch TV, watch videos, or play video games?
Survey Items Used	S7Q28
Numerators	• Children/youth who do not spend time using TV/video on school days • Children/youth who spend an hour or less using TV/video on school days • Children/youth who spend 2–3 hours using TV/video on school days • Children/youth who spend 4 or more using TV/video on school days
Denominator	Children/youth ages 6–17 years
Description	Percent of children/youth ages 6–17 who usually watch TV, watch videos, or play video games for 0 hours, 1 hour or less, 2–3 hours, or 4 hours or more on an average school day.

Notes for Data-Users

Nationally, less than 0.5 percent of children/youth ages 6–17 years did not have a TV in the home.

SAS Code and Annotation

Format

```
value tvwatch /*ind6_10*/
  1 = "None"
  2 = "1 hour or less"
  3 = "2–3 hours"
  4 = "4 hours or more";
```

Code

```
ind6_10 = s7q28;
  if s7q28 in (0,26) then ind6_10 = 0;
  if s7q28 in (1,25) then ind6_10 = 1;
  if s7q28 in (2,3) then ind6_10 = 2;
  if s7q28 ge 4 and s7q28 le 24 then ind6_10 = 3;
  if ind6_10 in (96,97) then ind6_10 = .;
  ind6_10 = ind6_10 + 1; /*RECODES 0,1,2,3 into 1,2,3,4*/
  label ind6_10 = "Indicator 6.10: On an average school day, about how many hours does (child's name) usually watch TV, watch videos, or play video games? (S7Q28 — ages 6–17 only)";
```

INDICATOR 6.11	Sometimes children spend time caring for themselves at home without an adult responsible for them. During the past week, did (child's name) spend time caring for himself/herself for even a small amount of time?
Survey Items Used	S7Q15
Numerator	Children who stayed alone at home for any length of time during past week
Denominator	Children ages 6–11 years
Description	Percent of children ages 6–11 who spent time caring for himself/herself for even a small amount of time during the past week (S7Q15 = Yes).
Notes for Data–Users	
SAS Code and Annotation	
Format	

```
value ny /*ind6_11 ind6_14*/
  1 = "No"
  2 = "Yes";
```

Code

```
ind6_11 = s7q15;
  if s7q15 eq 0 then ind6_11 = 1;
  if s7q15 eq 1 then ind6_11 = 2;
  if ind6_11 in (6,7) then ind6_11 = .;
  label ind6_11 = "Indicator 6.11: Sometimes children spend time caring for themselves at home without
  an adult responsible for them. During the past week, did (child's name) spend time caring for
  himself/herself for even a small amount of time? (S7Q15 — ages 6–11 only)";
```

INDICATOR 6.12	Did child/youth have parents who often felt aggravated with them during the past month?
Survey Items Used	S8Q07, S8Q08, S8Q10
Numerator	Children/youth whose parents report often feeling aggravated with child during past month
Denominator	Children/youth ages 0–17 years
Description	Percent of children/youth ages 0–17 living with parents who report often feeling aggravated with their child.

Notes for Data-Users

"Often feeling aggravated" is parents who reported that during the last month, on average, they usually or always felt their child was much harder to care for than other children (S8Q07), or usually or always were bothered a lot by their child's behavior (S8Q08), or usually or always felt angry with their child (S8Q10).

S8Q07 – S8Q10 comprise the Aggravation in Parenting Scale, which was derived from the Parental Stress Index and the Parental Attitudes about Childrearing Scale. It has been used previously in the Panel Survey of Income Dynamics, the Survey of Income and Program Participation, and the Survey of Program Dynamics. Analysts should note that prior research revealed that the Aggravation in Parenting Scale has limited cultural validity among Spanish-speaking Latino parents. Removal of a single question (S8Q09) from the scale removed the measure for this group.

See www.cdc.gov/nchs/data/slaits/NSCH_Methodology_Report.pdf for more information.

SAS Code and Annotation

Format

```
value aggrav /*ind6_12*/
  1 = "Parents seldom felt aggravated at child"
  2 = "Parents often felt aggravated at child";
```

Code

```
array recode1 {*} s8q07–s8q10; do i=1 to dim(recode1); if recode1(i) in (6,7) then recode1(i)=.;
  else if recode1(i) = 1 then recode1(i)=4; else if recode1(i) = 2 then recode1(i)=3;
  else if recode1(i) = 3 then recode1(i)=2; else if recode1(i) = 4 then recode1(i)=1; end; drop i;

test = s8q07*s8q08*s8q09*s8q10; aggrav = .;
  if test > 0 then aggrav = (s8q07 + s8q08 + s8q09 + s8q10)/4;
  else if s8q07 in (.,.M,.P) and s8q08 > 0 and s8q09 > 0 and s8q10 > 0
  then aggrav = ((s8q08 + s8q09 + s8q10) / 3);
  else if s8q08 in (.,.M,.P) and s8q07 > 0 and s8q09 > 0 and s8q10 > 0
  then aggrav = ((s8q07 + s8q09 + s8q10) / 3);
  else if s8q09 in (.,.M,.P) and s8q07 > 0 and s8q08 > 0 and s8q10 > 0
  then aggrav = ((s8q07 + s8q08 + s8q10) / 3);
  else if s8q10 in (.,.M,.P) and s8q07 > 0 and s8q08 > 0 and s8q09 > 0
  then aggrav = ((s8q07 + s8q08 + s8q09) / 3);
```

```
highagg = .;
  if aggrav > 0 and aggrav le 2.75 then highagg = 2;
  else if aggrav gt 2.75 then highagg = 1;

test2 = s8q07*s8q08*s8q10; aggrav2 = .;
  if test2 > 0 then aggrav2 = (s8q07 + s8q08 + s8q10)/3;
  else if s8q07 in (.,.M,.P) and s8q08 > 0 and s8q10 > 0 then aggrav2 = ((s8q08 + s8q10) / 2);
  else if s8q08 in (.,.M,.P) and s8q07 > 0 and s8q10 > 0 then aggrav2 = ((s8q07 + s8q10) / 2);
  else if s8q10 in (.,.M,.P) and s8q07 > 0 and s8q08 > 0 then aggrav2 = ((s8q07 + s8q08) / 2);

ind6_12 = .;
  if aggrav2 > 0 and aggrav2 le 2.75 then ind6_12 = 2; /*YES—often felt aggravated*/
  else if aggrav2 gt 2.75 then ind6_12 = 1; /*N)—did not often feel aggravated*/
  label ind6_12 = "Indicator 6.12: How many children/youth (ages 0–17) have parents who often felt
  aggravated with them during the past month?";
```

INDICATOR 6.13	During the past month, how many times have you had to make different arrangements for child care at the last minute because your usual plans changed due to circumstances beyond your control?
Survey Items Used	S6Q53
Numerators	• Young children whose parents did not need to make alternate child care arrangements during the past month • Young children whose parents had to make alternate child care arrangements one time during the past month • Young children whose parents had to make alternate child care arrangements 2–3 times during the past month • Young children whose parents had to make alternate child care arrangements 4 or more times during the past month
Denominator	Children ages 0–5 years
Description	Percent of children ages 0–5 whose parent's made different child care arrangements at the last minute no times, one time, 2–3 times, or 4 or more times during the past month.
Notes for Data-Users	
SAS Code and Annotation	
Format	

value lastmin /*ind6_13*/
  1 = "None"
  2 = "1 time"
  3 = "2–3 times"
  4 = "4 or more times";

Code

```
ind6_13 = s6q53;
  if s6q53 eq 0 then ind6_13 = 0;
  if s6q53 eq 1 then ind6_13 = 1;
  if s6q53 in (2,3) then ind6_13 = 2;
  if s6q53 ge 4 and s6q53 le 100 then ind6_13 = 3;
  if ind6_13 in (995,996,997) then ind6_13 = .;
  ind6_13 = ind6_13 + 1; /*RECODES 0,1,2,3 into 1,2,3,4*/
  label ind6_13 = "Indicator 6.13: During the past month, how many times have you had to make
  different arrangements for child care at the last minute because your usual plans changed due to
  circumstances beyond your control? (S6Q53 — ages 0–5)";
```

INDICATOR 6.14	During the past 12 months, did you or anyone in the family have to quit, not take, or greatly change your job because of problems with child care for (child's name)?
Survey Items Used	S6Q54
Numerator	Young children living with one or more family members whose employment was affected by problems with child care during the past 12 months
Denominator	Children ages 0–5 years
Description	Percent of children ages 0–5 whose family members quit, did not take, or greatly changed a job due to a child care problem during the past 12 months (S6Q54 = Yes).
Notes for Data-Users	
SAS Code and Annotation	
Format	

value yn /*ind1_3 ind1_7 ind1_8 ind2_8 ind3_1 ind4_6 ind4_9 ind5_2 ind6_14*/
  1 = "Yes"
  2 = "No";	

Code	

ind6_14 = s6q54;
  if s6q54 eq **1** then ind6_14 = **1**;
  if s6q54 eq **0** then ind6_14 = **0**;
  if ind6_14 in (**6**,**7**) then ind6_14 = **.**;
  if ind6_14 = **0** then ind6_14 = **2**; /*RECODES 0,1 to 1,2*/
  label ind6_14 = "Indicator 6.14: During the past 12 months, did you or anyone in the family have to quit, not take, or greatly change your job because of problems with child care for (child's name)? (S6Q54 – ages 0–5 only)";	

INDICATOR 6.15	Did child have parents who either had to make different child care arrangements in the past month or employment-related changes due to child care reasons in the past year or BOTH?
Survey Items Used	S6Q53 and S6Q54
Numerator	Young children whose parents reported child care issues
Denominator	Children ages 0–5 years
Interpretation	Percent of children ages 0–5 years with one or more family members who either quit, did not take, or greatly changes a job because of problems with child care AND/OR children whose family had to make different child care plans at the last minute (S6Q54 = Yes AND/OR S6Q53 = Yes).

Notes for Data-Users

This indicator combines questions with different reference periods. Question S6Q53 asks about the frequency of last minute changes in child care plans during the past month. Question S6Q54 asks about employment-related issues during the past 12 months due to child care problems.

SAS Code and Annotation

Format

```
value care_iss /*ind6_15*/
  1 = "One or more child care issues reported"
  2 = "No child care issues reported";
```

Code

```
ind6_15 = .;
  if (s6q53>0 and s6q53<995) or s6q54 = 1 then ind6_15 = 1;
  if s6q53 = 0 and s6q54 = 0 then ind6_15 = 0;
  if (s6q53> = 995 and s6q54> = 6) or (s6q54 = 0 and s6q53> = 995) then ind6_15 = .;
  if ind6_15 eq 0 then ind6_15 = 2; /*RECODES 0,1 into 1,2*/
  label ind6_15 = "Indicator 6.15: How many children (ages 0–5) have parents who either had to make
  different child care arrangements in the past month or employment-related changes due to child care
  reasons in the past year or BOTH? (derived)";
```

INDICATOR 6.16	Did child regularly attend non-parental child care such as a child care center, family-based center, in-home nanny, preschool, etc. during the past month?
Survey Items Used	S6Q48 – S6Q52
Numerator	Young children who regularly attend non-parental child care
Denominator	Children ages 0–5 years
Interpretation	Percent of children ages 0–5 years who regularly attended non-parental child care in the past month.

Notes for Data-Users

"Non-parental child care" is defined as one or more of the following: child care center, family-based child care center, non-parental child care in home, nursery school, preschool, kindergarten, or Head or Early Start. "Regular attendance" is defined as attending non-parental child care one or more times per week during the month prior to the survey.

SAS Code and Annotation

Format

```
value par_cc /*ind6_16*/
  1 = "Yes, non-parental child care"
  2 = "No non-parental child care";
```

Code

```
ind6_16 = .;
  if s6q48 in (6,7) then s6q48 = .;
  if s6q49 in (6,7) then s6q49 = .;
  if s6q50 in (6,7) then s6q50 = .;
  if s6q51 in (6,7) then s6q51 = .;
  if s6q52 in (6,7) then s6q52 = .;

nonparental_count = sum(s6q48,s6q49,s6q50,s6q51,s6q52);
  if nonparental_count eq 0 then ind6_16 = 0;
  if nonparental_count ge 1 then ind6_16 = 1;
  if ind6_16 eq 0 then ind6_16 = 2; /*RECODES 0,1 into 1,2*/
  label ind6_16 = "Indicator 6.16: How many children (ages 0–5) regularly attend non-parental child care
  such as a child care center, family-based center, in-home nanny, preschool, etc. during the past
  month? (derived)";
```

INDICATOR 7.1	How many children/youth live in supportive neighborhoods?
Survey Items Used	S10Q01 – S10Q03; S10Q05
Numerator	Children/youth living in supportive neighborhoods
Denominator	Children/youth ages 0–17 years
Interpretation	Percent of children/youth ages 0–17 who live in supportive neighborhoods (average score of less than 2.25 points across S10Q01 – S10Q03 and S10Q05.

Notes for Data-Users

S10Q01, S10Q02, S10Q03, and S10Q05 consider parents' perceived level of neighborhood social capital, focusing specifically on positive aspects of social capital relating to children. This concept, alternatively called social support, is similar to the concept of "social cohesion and trust," which is related to variations in violence among inner-city neighborhoods. These questions were originally developed for the Longitudinal Studies of Child Abuse and Neglect and have also been used for the Survey of Income and Program Participation.

See www.cdc.gov/nchs/data/slaits/NSCH_Methodology_Report.pdf for more information.

Scores are calculated for all children with valid responses to at least 3 of the 4 scale items. Response scoring: 1 = Definitely agree 2 = Somewhat agree 3 = Somewhat disagree 4 = Definitely disagree. Cutoff score of less than 2.25 indicates one or fewer responses of "somewhat disagree" or "definitely disagree" across scale items.

SAS Code and Annotation

Format

```
value suppnhbd /*ind7_1*/
  1 = "Do not live in a supportive neighborhood"
  2 = "Live in a supportive neighborhood";
```

Code

```
ind7_1 = .;
  if s10q01 in (6,7) then s10q01 = .;
  if s10q02 in (6,7) then s10q02 = .;
  if s10q03 in (6,7) then s10q03 = .;
  if s10q05 in (6,7) then s10q05 = .;
  if s10q01 ge 1 then s10q01c = 1;
  if s10q02 ge 1 then s10q02c = 1;
  if s10q03 ge 1 then s10q03c = 1;
  if s10q05 ge 1 then s10q05c = 1;
  tot_supp = sum(s10q01c,s10q02c,s10q03c,s10q05c);
  if tot_supp ge 3 then do;
  supp_nbhd = mean(s10q01,s10q02,s10q03,s10q05);end;
  label supp_nbhd = "Supportive neighborhood mean score on 3 of 4 component variables";
if supp_nbhd ge 0 and supp_nbhd le 2.20 then ind7_1 = 0;
```

if supp_nbhd ge **2.25** and supp_nbhd le **4.00** then ind7_1 = **1**;

if ind7_1 eq **0** then ind7_1 = **2**; /*RECODES 0,1 into 1,2*/

label ind7_1 = "Indicator 7.1: How many children/youth (ages 0–17) live in supportive neighborhoods? (derived)";

INDICATOR 7.2	How often do you feel (child's name) is safe in your community or neighborhood?
Survey Items Used	S10Q06
Numerators	• Children/youth whose parents feel they are usually or always safe in their neighborhood • Children/youth whose parents feel they are sometimes safe in their neighborhood • Children/youth whose parents feel they are never safe in their neighborhood
Denominator	Children/youth ages 0–17 years
Interpretation	Percent of children/youth ages 0–17 whose parents feel they are usually or always, sometimes, or never safe in their community or neighborhood.

Notes for Data-Users

Results for this question are weighted to reflect the population of children/youth ages 0–17 years, not the population of parents or family members! "Percent of children/youth ages 0–17 years whose parents feel that the child is always safe in their community or neighborhood" is the accurate way to report results — DO NOT report as "Percent of parents...."

SAS Code and Annotation

Format

value safe /*ind7_2 ind7_3*/
  1 = "Usually or always safe"
  2 = "Sometimes safe"
  3 = "Never safe";

Code

ind7_2 = **.**;
  if s10q06 in (**1**) then ind7_2 = **3**; /*Never safe*/
  if s10q06 in (**2**) then ind7_2 = **2**; /*Sometimes safe*/
  if s10q06 in (**3**,**4**) then ind7_2 = **1**; /*Usually, or always safe*/
  label ind7_2 = "Indicator 7.2: How often do you feel (child's name) is safe in your community or neighborhood? (S10Q06)";

INDICATOR 7.3	How often do you feel (child's name) is safe at school?
Survey Items Used	S10Q07
Numerators	• Children/youth whose parents feel they are usually or always safe at school • Children/youth whose parents feel they are sometimes at school • Children/youth whose parents feel they are never safe at school
Denominator	Children/youth ages 6–17 years
Interpretation	Percent of children/youth ages 0–17 whose parents feel they are usually or always, sometimes, or never safe at school.

Notes for Data-Users

Results for this question are weighted to reflect the population of children ages 6–17 years, not the population of parents or family members. "Percent of children ages 6–17 years whose parents feel that the child is always safe at school" is the accurate way to report results — DO NOT report as "Percent of parents..."

SAS Code and Annotation

Format

value safe /*ind7_2 ind7_3*/
  1 = "Usually or always safe"
  2 = "Sometimes safe"
  3 = "Never safe";

Code

ind7_3 = **.**;
  if s10q07 in (**1**) then ind7_3 = **3**; /*Never safe*/
  if s10q07 in (**2**) then ind7_3 = **2**; /*Sometimes safe*/
  if s10q07 in (**3**,**4**) then ind7_3 = **1**; /*Usually, or always safe*/
  label ind7_3 = "Indicator 7.3: How often do you feel (child's name) is safe at school? (S10Q07 — ages 6–17)";

Gender	How many males and females are in the 0- to 17-year-old population?
Survey Items Used	S1Q01
Numerators	• Male • Female
Denominator	Children/youth ages 0–17 years
Interpretation	Percent of children/youth ages 0–17 who are male or female.
Notes for Data-Users	
SAS Code and Annotation	
Format	

value sex
  1 = "Male"
  2 = "Female";

Code

sex = s1q01;
  if s1q01 in (**6**,**7**) then sex = **.**;
  label sex = "How many males and females are in the 0- to 17-year-old population? (S1Q01)";

Age Group (3)	How many children/youth in the 0- to 17-year-old population are in each of three age groups?
Survey Items Used	Initial sampling questions
Numerators	• 0–5 years old • 6–11 years old • 12–17 years old
Denominator	Children/youth ages 0–17 years
Interpretation	Percent of children/youth who are 0–5, 6–11, or 12–17.
Notes for Data-Users	
SAS Code and Annotation	
Format	

```
value agethree
  1 = "0–5 yrs old"
  2 = "6–11 yrs old"
  3 = "12–17 yrs old";
```

Code

```
age_3 = AGEYR_CHILD;
  if AGEYR_CHILD ge 0 and AGEYR_CHILD le 5 then age_3 = 1;
  if AGEYR_CHILD ge 6 and AGEYR_CHILD le 11 then age_3 = 2;
  if AGEYR_CHILD ge 12 and AGEYR_CHILD le 17 then age_3 = 3;
  label age_3 = "How many children/youth of different ages are in the 0- to 17-year-old population?
  (derived — 3 groups)";
```

Age Group (5)	How many children/youth in the 0- to 17-year-old population are in each of five age groups?
Survey Items Used	Initial sampling questions
Numerators	• 0–3 years old • 4–7 years old • 8–11 years old • 12–14 years old • 15–17 years old
Denominator	Children/youth ages 0–17 years
Interpretation	Percent of children/youth who are 0–3, 4–7, 8–11, 12–14, or 15–17.
Notes for Data-Users	
SAS Code and Annotation	
Format	

```
value agefive
  1 = "0–3 yrs old"
  2 = "4–7yrs old"
  3 = "8–11 yrs old"
  4 = "12–14 yrs old"
  5 = "15–17 yrs old";
```

Code

```
age_5 = AGEYR_CHILD;
  if AGEYR_CHILD ge 0 and AGEYR_CHILD le 3 then age_5 = 1;
  if AGEYR_CHILD ge 4 and AGEYR_CHILD le 7 then age_5 = 2;
  if AGEYR_CHILD ge 8 and AGEYR_CHILD le 11 then age_5 = 3;
  if AGEYR_CHILD ge 12 and AGEYR_CHILD le 14 then age_5 = 4;
  if AGEYR_CHILD ge 15 and AGEYR_CHILD le 17 then age_5 = 5;

  label age_5 = "How many children/youth of different ages are in the 0- to 17-year-old population?
  (derived — 5 groups)";
```

Race and Ethnicity	How many children of different races or Hispanic ethnicity are in the 0- to 17-year-old population?
Survey Items Used	S11Q01; S11Q02X01 – S11Q02X07
Numerators	• Hispanic • White, non-Hispanic • Black, non-Hispanic • Multiracial, non-Hispanic • Other, non-Hispanic
Denominator	Children/youth ages 0–17 years
Interpretation	Percent of children/youth ages 0–17 who are Hispanic/Latino, or non-Hispanic and white, black, multiracial, or of another race.

Notes for Data Users

Children/youth reporting Hispanic or Latino ethnicity (S11Q01 = Yes) are grouped as HISPANIC, regardless of race. Non-Hispanic children are grouped by race based on responses to S11Q02X01 – S11Q02X07. Non-Hispanic children reporting more than one race category are grouped as "MULTI-RACE". At the national level, non-Hispanic children reporting only one race category of Asian, American Indian, Alaska Native, Native Hawaiian, or Pacific Islander are combined into a single group called OTHER. This is done because only a handful of States meet the NCHS' confidentiality standards for releasing data on these minority groups to the public. NCHS only includes individual level data for one of these minority groups in the publicly available data files when a group comprises 5 percent or more of the total child population in a State. This standard is in place to protect against the remote chance of an individual child inadvertently being identified in States with relatively few children from these minority groups in their populations. For more information, see www.cdc.gov/nchs/data/slaits/NSCH_Methodology_Report.pdf

SAS Code and Annotation

Format

```
value race
  1 = "Hispanic"
  2 = "White, non-Hispanic"
  3 = "Black, non-Hispanic"
  4 = "Multiracial, non-Hispanic"
  5 = "Other, non-Hispanic";
```

Code

```
race_5 = .;
  if racer eq 1 then race_5 = 2;
  if racer eq 2 then race_5 = 3;
  if racer eq 3 then race_5 = 4;
  if racer eq 4 then race_5 = 5;
  if s11q01 eq 1 then race_5 = 1;
  if racer in (6,7) then race_5 = .;
```

label race_5 = "How many children of different races or Hispanic ethnicity are in the 0- to 17-year-old population? (derived)";

Special Health Care Needs Status	How many children/youth have special health care needs?
Survey Items Used	S2Q04 – S2Q17
Numerator	Children/youth with qualifying responses on one or more of the five CSHCN Screener criteria
Denominator	Children/youth ages 0–17 years
Interpretation	Percent of children/youth ages 0–17 with qualifying responses on one or more of the five CSHCN Screener criteria.

Notes for Data Users

Questions S2Q04 – S2Q17 comprise the CSHCN Screener, a validated screening instrument for identifying children with special health care needs as defined by the federal Maternal and Child Health Bureau. The CSHCN Screener asks whether a child currently experiences any of five different health consequences, and if so, whether that specific health consequence is due to a medical, behavioral, or other type of health condition that has lasted or is expected to last 12 months or longer. A child must have affirmative responses on all 3 parts (or 2 parts in the case of screening question for the ongoing emotional, developmental, or behavioral conditions criteria) of a screening question in order to qualify on that particular screening criteria.

For more information on the development, testing, and scoring of the CSHCN Screener, email CAHMI@ohsu.edu. For more information on use of the CSHCN screener in the 2003 NSCH, see www.cdc.gov/nchs/data/slaits/NSCH_Methodology_Report.pdf.

Step 1 in the code below creates yes-no variables identifying children with qualifying responses to each of the five different CSHCN Screener criteria. Step 2 creates the summary variable that indicates whether or not the child/youth has special health care needs based on having qualifying responses to one or more of the five screening criteria. Step 3 of the code creates two optional analytic variables that can be used to subclassify CSHCN into mutually exclusive groups based on number and type of special health care needs.

SAS Code and Annotation

Format

```
value metlwi
  1 = "CSHCN"
  2 = "Non-CSHCN";

/* formats below are for screener and optional analytical variables */

value ny /*used for screener items: rxmeds, serve, func, therapy, mhealth*/
  0 = "No";
  1 = "Yes"
value lwiscren
  1 = "Non-CSHCN"
  2 = "One qualifying answer"
  3 = "Two qualifying answers"
```

4 = "Three qualifying answers"
5 = "Four qualifying answers"
6 = "Five qualifying answers";

value def_four
1 = "Non-CSHCN"
2 = "Rx meds ONLY"
3 = "Service use ONLY"
4 = "Rx meds AND service use"
5 = "Func (only or w/ any other)";

Code

```
/**STEP 1: Create interim variables that identify children with qualifying responses on each of the five
different CSHCN Screener criteria. These five variables are also valuable analytic tools for further
studying the group of children identified by the CSHCN Screener */

rxmeds = 0;
  if ((S2Q04 = 1) and (S2Q05 = 1) and (S2Q06 = 1)) then rxmeds = rxmeds + 1;
  label rxmeds = "Qualified on rx med use?";

serve = 0;
  if ((S2Q07 = 1) and (S2Q08 = 1) and (S2Q09 = 1)) then serve = serve + 1;
  label serve = "Qualified on service use?";

func = 0;
  if ((S2Q10 = 1) and (S2Q11 = 1) and (S2Q12 = 1)) then func = func + 1;
  label func = "Qualified on functional limits?";

therapy = 0;
  if ((S2Q13 = 1) and (S2Q14 = 1) and (S2Q15 = 1)) then therapy = therapy + 1;
  label therapy = "Qualified on use of special therapies?";

mhealth = 0;
  if((S2Q16 = 1) and (S2Q17 = 1)) then mhealth = mhealth + 1;
  label mhealth = "Qualified on use of mental health services?";


/**STEP 2: Compute summary CSHCN Screener score identifying children with 1 or more qualifying
responses to any of the 5 screening criteria**/

metlwi = 0;
  if (rxmeds = 1) or (serve = 1) or (func = 1) or (therapy = 1) or (mhealth = 1) then metlwi = 1;
  if metlwi = 0 then metlwi = 2; /*RECODES 0,1 into 1,2*/
  label metlwi = "Results for CSHCN screener";


/**STEP 3 (OPTIONAL): Compute variables useful for sub-classifying the CSHCN Group based on
quantitative and qualitative schemes**/


/**Mutually exclusive quantitative subgrouping of special health care need types – based on number of
qualifying screening criteria**/

lwiscren = sum (rxmeds, serve, func, therapy, mhealth);
  lwiscren = lwiscren + 1; /*RECODES 0 thru 5 into 1 thru 6*/
```

label lwiscren = "CSHCN grouped according to number of qualifying screener answers";

/**Mutually exclusive qualitative subgrouping of special health care need types – based on type of qualifying screening criteria**/

def_4 = 0;
  if (func = 0) and ((rxmeds = 1)) and ((serve = 0) or (therapy = 0) or (mhealth = 0)) then def_4 = 1;
  if (func = 0) and ((rxmeds = 0)) and ((serve = 1) or (therapy = 1) or (mhealth = 1)) then def_4 = 2;
  if (func = 0) and ((rxmeds = 1)) and ((serve = 1) or (therapy = 1) or (mhealth = 1)) then def_4 = 3;
  if ((func = 1)) and ((serve = 1) or (therapy = 1) or (rxmeds = 1) or (mhealth = 1)) then def_4 = 4;
  if ((func = 1)) and ((serve = 0) or (therapy = 0) or (rxmeds = 0) or (mhealth = 0)) then def_4 = 4;
  if def_4 = 0 then def_4 = .;
  label def_4 = "CSHCN grouped according to type of qualifying criteria";

Family Structure	What are the family structure characteristics of the child's household at the time of the survey?
Survey Items Used	S1Q02, S9Q00, S9Q01, S9Q02
Numerators	• Two-parent household (biological/adoptive) • Two-parent stepfamily household • Mother-only household, no father present • Other family structure
Denominator	Children/youth ages 0–17 years
Interpretation	Percent of children/youth ages 0–17 in two-parent households, two-parent households with at least one step-parent, mother-only households with no father of any type present, or in a household of any other family structure.
Notes for Data-Users	

To protect confidentiality, a single measure of family structure was created by the NCHS for inclusion in the publicly released 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."

SAS Code and Annotation

Format

value famtype
  1 = "Two-parent household (biological/adoptive)"
  2 = "Two-parent household with at least one step-parent"
  3 = "Mother-only household with no father of any type present"
  4 = "All other family structures";

Code

famtype = FAMSTRUCT;
  label famtype = "How many children live in one-parent versus two-parent households? (derived)";

Household Income	How many children/youth live in households with incomes above/below the Federal Poverty Level (FPL)?
Survey Items Used	C11Q01; W9Q02 – W9Q12a
Numerators	• Household income less than 100 percent of FPL • Household income 100–199 percent of FPL • Household income 200–399 percent FPL • Household income 400 percent FPL or more
Denominator	Children/youth ages 0–17 years
Interpretation	Percent of children/youth ages 0–17 living in households whose income is 0–99 percent, 100–199 percent, 200–399 percent, or 400 percent or more of FPL.

Notes for Data-Users

Income level of household expressed as percent of FPL derived from total household income during prior year and number of people living in the household. Federal Poverty Guidelines released in 2002 and 2003 by the Department of Health and Human Services were used for the determination of household poverty status.

For more information go to: http://www.cdc.gov/nchs/data/slaits/NSCH_Methodology_Report.pdf.

The number of unknown values for this variable is unusually high (10 percent). Unknown values are not included in the denominator; weighted population counts may be underestimated.

SAS Code and Annotation

Format

value povlev
  1 = "HH income 0–99 percent FPL"
  2 = "HH income 100–199 percent FPL"
  3 = "HH income 200–399 percent FPL"
  4 = "HH income 400 percent FPL or more";

Code

povlev_4 = POVERTY_LEVELR;
  if poverty_levelr eq **1** then povlev_4 = **1**;
  if poverty_levelr ge **2** and poverty_levelr le **5** then povlev_4 = **2**;
  if poverty_levelr ge **6** and poverty_levelr le **7** then povlev_4 = **3**;
  if poverty_levelr eq **8** then povlev_4 = **4**;
  if poverty_levelr in (**96**,**97**) then povlev_4 = **.**;
  label povlev_4 = "How many children/youth (ages 0–17) live in households with incomes above/below FPL? (derived)";

Insurance Type (Indicator 3.3)	What type of health insurance coverage, if any, did children/youth have at the time of the survey?
Survey Items Used	S3Q01, S3Q02
Numerators	• Children/youth who are currently uninsured • Children/youth who currently have private insurance coverage • Children/youth who currently have public insurance coverage
Denominator	Children/youth ages 0–17 years
Interpretation	Children/youth ages 0–17 whose health insurance coverage at the time of survey was either private (S3Q01 = Yes and S3Q02 = No) or public (S3Q01 and S3Q02 = Yes) or none (S3Q01 = No).

Notes for Data-Users

Private health insurance is defined as any type of health insurance, including HMOs, other than public programs. Public health insurance is defined as Medicaid or the State Children's Health Insurance Program (SCHIP).

This item serves as a stratifier as well as a key indicator.

SAS Code and Annotation

Format

```
value insure /*ind3_1*/
  1 = "Public insurance"
  2 = "Private insurance"
  3 = "Uninsured";
```

Code

```
ind_3_3 = .;
  if s3q01 in (1,6,7) and s3q02 = 1 then ind_3_3 = 1; /*Public*/
  if s3q01 in (1,6,7) and s3q02 = 0 then ind_3_3 = 2; /*Non-public*/
  if s3q01 = 0 then ind_3_3 = 3; /*Not Insured*/
  label ind_3_3 = "Indicator 3.3: What type of health insurance coverage, if any, did children/youth (ages
0–17) have at the time of the survey? (derived)";
```

Insurance Status (Indicator 3.1)	Does (child's name) have any kind of health care coverage, including health insurance, prepaid plans such as HMOs, or government plans such as Medicaid?
Survey Items Used	S3Q01
Numerator	Children/youth who currently have health care coverage.
Denominator	Children/youth ages 0–17 years
Interpretation	Percent of children/youth ages 0–17 with any kind of health care coverage, including health insurance, prepaid plans such as HMOs, or government plans such as Medicaid (S3Q01 = Yes).

Notes for Data-Users

This item serves as a stratifier as well as a key indicator.

SAS Code and Annotation

Format

```
value yn
  1 = "Yes"
  2 = "No";
```

Code

```
ind3_1 = .;
  if s3q01 eq 1 then ind3_1 = 1; /*Insured*/
  if s3q01 = 0 then ind3_1 = 2; /*Not Insured*/
  label ind3_1 = "Indicator 3.1: Does (child's name) have any kind of health care coverage, including
  health insurance, prepaid plans such as HMOs, or government plans such as Medicaid? (S3Q01)";
```

Appendix A: Unweighted Frequency Table

Indicator 1.1: In general, how would you describe (child's name)'s health? (S2Q01)

ind1_1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Excellent/Very Good	89155	87.13	89155	87.13
Good	10680	10.44	99835	97.57
Fair/Poor	2486	2.43	102321	100.00

Frequency Missing = 32

Indicator 1.2: How would you describe the condition of (child's name)'s teeth?(S2Q54 - ages 1-17 who have natural teeth)

ind1_2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Excellent or very good condition	69790	72.94	69790	72.94
Good condition	18757	19.60	88547	92.55
Fair or poor condition	7130	7.45	95677	100.00

Frequency Missing = 6676

Indicator 1.3: Was (child's name) ever breastfed or fed breast milk? (S6Q59 -ages 0-5 only)

ind1_3	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	24285	73.32	24285	73.32
No	8836	26.68	33121	100.00

Frequency Missing = 69232

Indicator 1.4: What is the weight status of children/youth ages 10-17 based on BMI-for-age? (derived)

ind1_4	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Underweight	2213	4.74	2213	4.74
Normal Weight	30955	66.27	33168	71.01
At Risk for Overweight	7119	15.24	40287	86.25
Overweight	6420	13.75	46707	100.00

Frequency Missing = 55646

Indicator 1.5: During the past week, on how many days did (child's name) exercise or participate in physical activity for at least 20 minutes that made him/her sweat and breathe hard? (S7Q21 - ages 6-17 only)

ind1_5	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 days	7705	11.27	7705	11.27
1 - 3 days	20695	30.28	28400	41.55
4 - 6 days	23332	34.14	51732	75.69
Every day	16617	24.31	68349	100.00

Frequency Missing = 34004

Indicator 1.6: During the past 12 months, about how many days did (child's
name) miss school because of illness or injury? (S7Q02 - ages 6-17 only)

ind1_6	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 days	14170	20.82	14170	20.82
1 - 5 days	41374	60.80	55544	81.62
6 - 10 days	8769	12.89	64313	94.51
11 + days	3737	5.49	68050	100.00

Frequency Missing = 34303

Indicator 1.7: During the past 12 months, has (child's name) been
injured and required medical attention? (S6Q55 - ages 0-5 only)

ind1_7	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	3326	9.99	3326	9.99
No	29964	90.01	33290	100.00

Frequency Missing = 69063

Indicator 1.8: During the past 12 months, has (child's name) been poisoned by accident
and required medical attention? (S6Q57 - ages 0-5; national-level data only)

ind1_8	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	189	0.57	189	0.57
No	33109	99.43	33298	100.00

Frequency Missing = 69055

Indicator 1.11: Overall, would you say (child's name)'s asthma puts a
burden on your family a great deal, a medium amount, a little, or not
at all? (S2Q51 - only asked for children who currently have asthma)

ind1_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Affects family a great deal or medium amount	1230	14.18	1230	14.18
Affects family a little or not at all	7445	85.82	8675	100.00

Frequency Missing = 93678

Indicator 1.12: During the past 12 months, has (child's name) stayed overnight
in a hospital because of his/her asthma? (derived - national-level data only)

ind1_12	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Have asthma ever, no hospitalizations	11728	11.48	11728	11.48
Have asthma ever, yes hospitalized for asthma	466	0.46	12194	11.94
Do not have asthma	89933	88.06	102127	100.00

Frequency Missing = 226

Indicator 2.1: How many children (ages 0-5) have parents with one or more
concerns about child's learning, development, or behavior? (derived)

ind2_1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 or more parent-reported concerns	11695	35.10	11695	35.10
No parent-reported concerns	21627	64.90	33322	100.00

Frequency Missing = 69031

Indicator 2.3: How many children/youth (ages 3-17) have moderate
or severe difficulties in the areas of emotions, concentration, behavior,
or being able to get along with other people? (derived)

ind2_3	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Moderate or severe difficulties in 1 or more areas	7466	8.78	7466	8.78
No difficulties or minor difficulties	77610	91.22	85076	100.00

Frequency Missing = 17277

Indicator 2.4: Overall, would you say (child's name)'s mental and emotional
health puts a burden on your family a great deal, a medium amount, a little,
or not at all? (S2Q61 - ages 3-17 with socio-emotional difficulties)

ind2_4	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Affects family a great deal or medium amount	4151	28.28	4151	28.28
Affects family a little or not at all	10527	71.72	14678	100.00

Frequency Missing = 87675

Indicator 2.6: How many children/youth (ages 6-17) often
exhibit two or more problematic behaviors? (derived)

ind2_6	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Often exhibits 2 or more problematic behaviors	4934	7.15	4934	7.15
Seldom exhibits problematic behaviors	64097	92.85	69031	100.00

Frequency Missing = 33322

Indicator 2.7: How many children/youth (ages 2-17) whose parents have ever
been told child has ADD/ADHD currently take medication for this condition?

ind2_7	Frequency	Percent	Cumulative Frequency	Cumulative Percent
ADD/ADHD ever; child currently takes medication	3794	4.22	3794	4.22
ADD/ADHD ever; child not taking medication now	2710	3.02	6504	7.24
Never told child has ADD/ADHD	83326	92.76	89830	100.00

Frequency Missing = 12523

Indicator 2.8: Has a doctor or health professional ever
told you that (child's name) has autism? (S2Q35)

ind2_8	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	495	0.48	495	0.48
No	101726	99.52	102221	100.00

Frequency Missing = 132

Indicator 3.1: Does (child's name) have any kind of health care coverage, including health
insurance, prepaid plans such as HMOs, or government plans such as Medicaid? (S3Q01)

ind3_1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	94300	92.28	94300	92.28
No	7884	7.72	102184	100.00

Frequency Missing = 169

Indicator 3.2: How many children/youth (ages 0-17) had consistent
health insurance coverage during the past 12 months? (derived)

ind3_2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Currently uninsured or periods of no coverage during year	13280	13.02	13280	13.02
Consistently insured during past year	88748	86.98	102028	100.00

Frequency Missing = 325

Indicator 3.3: What type of health insurance coverage, if any, did children/youth
(ages 0-17) have at the time of the survey? (derived)

ind3_3	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Public insurance	22624	22.33	22624	22.33
Private insurance	70793	69.88	93417	92.22
Uninsured	7884	7.78	101301	100.00

Frequency Missing = 1052

Indicator 4.1: How many children/youth (ages 0-17) had one or more
preventive medical care visits during the past 12 months? (derived)

ind4_1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
One or more preventive medical care visits	79190	78.06	79190	78.06
NO preventive medical care visits	22255	21.94	101445	100.00

Frequency Missing = 908

Indicator 4.2: How many children/youth (ages 1-17) with a need for routine preventive dental
care, such as check-ups, screenings, and sealants, got all the care that was needed? (derived)

ind4_2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Did not get all needed care	4233	5.81	4233	5.81
Got all needed care	68678	94.19	72911	100.00

Frequency Missing = 29442

Indicator 4.3: How many children/youth (ages 0-17) have both medical
AND dental preventive care visits in the past 12 months? (derived)

ind4_3	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Got both medical and dental preventive care visits	60117	59.80	60117	59.80
Did NOT get both medical and dental preventive care visits	40420	40.20	100537	100.00

Frequency Missing = 1816

Indicator 4.4: During the past 12 months, how many times did (child's
name) go to a hospital ER about his/her health? (S4Q04 - ages 0-17)

ind4_4	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 times	83198	81.56	83198	81.56
1 time	13042	12.79	96240	94.35
2 or more times	5763	5.65	102003	100.00

Frequency Missing = 350

Indicator 4.5: How many children/youth (ages 1-17) with current emotional,
developmental, or behavioral problems requiring treatment or counseling received
some type of mental health care in the past 12 months? (derived)

ind4_5	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Did NOT get mental health care/counseling	2338	37.10	2338	37.10
Received mental health care/counseling of some type	3964	62.90	6302	100.00

Frequency Missing = 96051

Indicator 4.6: During the past 12 months, did (child's name) receive all the medical
care he/she needed? (S4Q07 - ages 0-17 who needed or used medical care)

ind4_6	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	87853	98.66	87853	98.66
No	1192	1.34	89045	100.00

Frequency Missing = 13308

Indicator 4.7: During the past 12 months, did (child's name) receive
all the Rx he/she needed? (S4Q17 - ages 0-17 who needed Rx)

ind4_7	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Did not get all needed medication	643	1.01	643	1.01
Got all needed medication	63205	98.99	63848	100.00

Frequency Missing = 38505

Indicator 4.8: How many children/youth (ages 0-17) receive health
care that meets the AAP definition of medical home? (derived)

ind4_8	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Care MEETS medical home definition.	49089	48.51	49089	48.51
Care DOES NOT meet medical home definition	52105	51.49	101194	100.00

Frequency Missing = 1159

Indicator 4.9: A PDN 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's) PDN? (S5Q01 - ages 0-17)

ind4_9	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	87491	85.73	87491	85.73
No	14568	14.27	102059	100.00

Frequency Missing = 294

Indicator 4.10: How many children/youth (ages 0-17) have a PDN who consistently spends enough
time with them and explains things in ways that children and parents can understand?

ind4_10	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Child does not have a personal dr/nurse	14568	14.29	14568	14.29
Personal dr/nurse does not consistently spend enough time or explain well	16760	16.44	31328	30.73
Personal dr/nurse consistently spends enough time and explains well	70627	69.27	101955	100.00

Frequency Missing = 398

Indicator 4.11: How many children/youth (ages 0-17) have a PDN who is
consistently available when phone advice or urgent care is needed for
child? (derived - ages 0-17 who needed phone advice or urgent care)

ind4_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
PDN consistently available	44340	92.34	44340	92.34
PDN not consistently available	3678	7.66	48018	100.00

Frequency Missing = 54335

Indicator 4.12: How many children/youth (ages 0-17) had problems getting
the specialty care, services, or equipment recommended by their PDN?
(derived - ages 0-17 who needed specialist care or equipment)

ind4_12	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Few or no problems getting recommended care	21474	85.85	21474	85.85
Significant problems getting recommended care	3539	14.15	25013	100.00

Frequency Missing = 77340

Indicator 4.13: How many children/youth (ages 0-17) have a PDN who follows
up with family after child sees specialist or gets specialized services/equipment?
(derived - ages 0-17 who got specialized services or equipment)

ind4_13	Frequency	Percent	Cumulative Frequency	Cumulative Percent
PDN consistently follows up	14214	57.71	14214	57.71
PDN does not consistently follow up	10417	42.29	24631	100.00

Frequency Missing = 77722

Indicator 4.14: During the past 12 months, did (child's name)'s doctors
or other health care professionals ask if you have concerns about
his/her learning, development, or behavior? (S6Q28 - ages 0-5)

ind4_14	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Visited dr, asked about concerns	13349	40.53	13349	40.53
Visited dr, but not asked	17397	52.82	30746	93.34
Child did not visit doctor	2193	6.66	32939	100.00

Frequency Missing = 69414

Indicator 4.15: During the past 12 months, did (child's name)'s doctors give
you specific information to address your concerns about his/her learning,
development, or behavior? (S6Q29 - ages 0-5 with highly concerned parents)

ind4_15	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Highly concerned AND got needed info	1719	45.85	1719	45.85
Highly concerned but did not get info	2030	54.15	3749	100.00

Frequency Missing = 98604

Indicator 5.1: How many children (ages 3-5) regularly attended nursery school, preschool,
kindergarten, Head Start, or Early Start during the past month? (derived)

ind5_1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Regularly attended during past month	10197	62.45	10197	62.45
Did not attend during past month	6130	37.55	16327	100.00

Frequency Missing = 86026

Indicator 5.2: Since starting kindergarten, has (child's
name) repeated any grades? (S7Q09 - ages 6-17)

ind5_2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	6580	9.55	6580	9.55
No	62301	90.45	68881	100.00

Frequency Missing = 33472

Indicator 5.3: How many children/youth (ages 6-17) participate in one or more organized
activities outside of school, such as sports teams
or lessons, clubs, or religious groups? (derived)

ind5_3	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Participated in 1 or more organized activities	58608	85.07	58608	85.07
Did not participate in organized activities	10284	14.93	68892	100.00

Frequency Missing = 33461

Indicator 5.4: During the past 12 months, has (child's name) been involved in any typeof
community service or volunteer work at school, church, or in the community? (S7Q17 -ages 12-17)

ind5_4	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Participated in volunteer work	24409	64.68	24409	64.68
Did NOT participate	13329	35.32	37738	100.00

Frequency Missing = 64615

Indicator 5.5: During the past week, how many hours
did (child's name) work for pay?(S7Q19 - ages 12-17)

ind5_5	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Did not work	27722	73.42	27722	73.42
Less than 1 hour-9 hours	5217	13.82	32939	87.23
10 hours or more	4821	12.77	37760	100.00

Frequency Missing = 64593

Indicator 5.6: On an average school day, about how much time does (child's
       name) usually spend reading for pleasure? (S7Q26 - ages 6-17)

ind5_6	Frequency	Percent	Cumulative Frequency	Cumulative Percent
None	11635	17.17	11635	17.17
30 minutes or less	30872	45.55	42507	62.72
31-60 minutes	16876	24.90	59383	87.62
Over 60 minutes	8391	12.38	67774	100.00

Frequency Missing = 34579

Indicator 5.7: How often do children/youth (ages 0-17) attend religious services?(derived)

ind5_7	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Never	23102	22.68	23102	22.68
At least once a year	7273	7.14	30375	29.82
At least once a month	17116	16.80	47491	46.62
Once a week, or more	54374	53.38	101865	100.00

Frequency Missing = 488

Indicator 6.1: Would you say that in general (child's mother's name)'s
       health is excellent, very good, good, fair, or poor ? (S9Q08 -
       biological, step, foster, or adoptive mother in the household)

ind6_1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Excellent/Very Good	66610	69.69	66610	69.69
Good	20929	21.90	87539	91.59
Fair/Poor	8042	8.41	95581	100.00

Frequency Missing = 6772

Indicator 6.2: Would you say in general that (child's mother's name)'s mental
       and emotional health is excellent, very good, good, fair, or poor? (S9Q18
       - biological, step, foster, or adoptive mother in the household)

ind6_2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Excellent/Very Good	71717	75.08	71717	75.08
Good	18770	19.65	90487	94.73
Fair/Poor	5036	5.27	95523	100.00

Frequency Missing = 6830

Indicator 6.3: How many children/youth (ages 0-17) have mothers whose
physical and mental health were BOTH excellent or very good? (derived)

ind6_3	Frequency	Percent	Cumulative Frequency	Cumulative Percent
One or both are NOT excellent/very good	35656	37.34	35656	37.34
Maternal physical & mental health BOTH excellent/very good	59822	62.66	95478	100.00

Frequency Missing = 6875

Indicator 6.4: Does anyone in the household use cigarettes, cigars, or pipe tobacco?

ind6_4	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Someone in household smokes tobacco	26947	30.27	26947	30.27
No one in household smokes tobacco	62085	69.73	89032	100.00

Frequency Missing = 13321

Indicator 6.5: How many children/youth (ages 0-17) live in 'working poor' households
- parents employed full-time with incomes less than 100 percent of the FPL?

ind6_5	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Does not live in "working poor" HH	85068	91.71	85068	91.71
Lives in "working poor" HH	7687	8.29	92755	100.00

Frequency Missing = 9598

Indicator 6.6: During the past week, how many times did you or any family member
take (child's name) on any kind of outing, such as to the park, library, zoo,
shopping, church, restaurants, or family gatherings? (S8Q01 - ages 0-5 only)

ind6_6	Frequency	Percent	Cumulative Frequency	Cumulative Percent
None	819	2.47	819	2.47
1-3 times	11841	35.64	12660	38.11
4-6 times	12285	36.98	24945	75.09
7 or more times	8276	24.91	33221	100.00

Frequency Missing = 69132

Indicator 6.7: During the past week, how many days did you or other family
members read stories to (child's name)? (S6Q62 - ages 0-5 only)

ind6_7	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No days	2171	6.55	2171	6.55
1 or 2 days	3753	11.32	5924	17.87
3 or 4 days	5942	17.93	11866	35.80
5 or 6 days	3962	11.95	15828	47.75
Every day	17318	52.25	33146	100.00

Frequency Missing = 69207

Indicator 6.8: During the past week, on how many days did all the family
members who live in the household eat a meal together? (S8Q03)

ind6_8	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No days	4698	4.60	4698	4.60
1-3 days	19909	19.48	24607	24.08
4-6 days	31379	30.71	55986	54.79
Every day	46203	45.21	102189	100.00

Frequency Missing = 164

Indicator 6.9: During the past week, on how many nights did (child's
name) get enough sleep for a child his/her age? (S7Q20 - ages 6-17)

ind6_9	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 nights	2020	2.95	2020	2.95
1-3 nights	3728	5.45	5748	8.40
4-6 nights	17229	25.18	22977	33.58
Every night	45441	66.42	68418	100.00

Frequency Missing = 33935

Indicator 6.10: On an average school day, about how many hours does (child's name)
usually watch TV, watch videos, or play video games? (S7Q28 - ages 6-17 only)

ind6_10	Frequency	Percent	Cumulative Frequency	Cumulative Percent
None	4827	7.04	4827	7.04
1 hour or less	33855	49.41	38682	56.46
2-3 hours	25466	37.17	64148	93.62
4 hours or more	4369	6.38	68517	100.00

Frequency Missing = 33836

Indicator 6.11: Sometimes children spend time caring for themselves at home without an adult responsible for them. During the past week, did (child's name) spend time caring for himself/herself for even a small amount of time? (S7Q15 - ages 6-11 only)

ind6_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	25378	81.79	25378	81.79
Yes	5652	18.21	31030	100.00

Frequency Missing = 71323

Indicator 6.12: How many children/youth (ages 0-17) have parents who often felt aggravated with them during the past month?

ind6_12	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Parents seldom felt aggravated at child	95349	93.37	95349	93.37
Parents often felt aggravated at child	6771	6.63	102120	100.00

Frequency Missing = 233

Indicator 6.13: During the past month, how many times have you had to make different arrangements for child care at the last minute because your usual plans changed due to circumstances beyond your control? (S6Q53 - ages 0-5)

ind6_13	Frequency	Percent	Cumulative Frequency	Cumulative Percent
None	23827	71.75	23827	71.75
1 time	3537	10.65	27364	82.40
2-3 times	4064	12.24	31428	94.64
4 or more times	1780	5.36	33208	100.00

Frequency Missing = 69145

Indicator 6.14: During the past 12 months, did you or anyone in the family have to quit, not take, or greatly change your job because of problems with child care for (child's name)? (S6Q54 - ages 0-5 only)

ind6_14	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	3435	10.32	3435	10.32
No	29849	89.68	33284	100.00

Frequency Missing = 69069

Indicator 6.15: How many children (ages 0-5) have parents who either had to make different child care arrangements in the past month or employment-related changes due to child care reasons in the past year or BOTH? (derived)

ind6_15	Frequency	Percent	Cumulative Frequency	Cumulative Percent
One or more child care issues reported	11170	33.64	11170	33.64
No child care issues reported	22035	66.36	33205	100.00

Frequency Missing = 69148

Indicator 6.16: How many children (ages 0-5) regularly attend non-parental
child care such as a child care center, family-based center, in-home
nanny, preschool, etc. during the past month? (derived)

ind6_16	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes, non-parental child care	22384	67.19	22384	67.19
No non-parental child care	10929	32.81	33313	100.00

Frequency Missing = 69040

Indicator 7.1: How many children/youth (ages 0-17) live in supportive neighborhoods? (derived)

ind7_1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Do not live in a supportive neighborhood	16228	16.28	16228	16.28
Live in a supportive neighborhood	83439	83.72	99667	100.00

Frequency Missing = 2686

Indicator 7.2: How often do you feel (child's name)
is safe in your community or neighborhood? (S10Q06)

ind7_2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Usually or always safe	88393	87.48	88393	87.48
Sometimes safe	10556	10.45	98949	97.93
Never safe	2094	2.07	101043	100.00

Frequency Missing = 1310

Indicator 7.3: How often do you feel (child's name) is safe at school? (S10Q07 -ages 6-17)

ind7_3	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Usually or always safe	60723	91.07	60723	91.07
Sometimes safe	5507	8.26	66230	99.33
Never safe	445	0.67	66675	100.00

Frequency Missing = 35678

How many males and females are in the 0- to 17-year-old population? (S1Q01)

sex	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Male	52554	51.39	52554	51.39
Female	49719	48.61	102273	100.00

Frequency Missing = 80

How many children/youth of different ages are in the
0- to 17-year-old population? (derived - 3 groups)

age_3	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0-5 yrs old	33322	32.56	33322	32.56
6-11 yrs old	31117	30.40	64439	62.96
12-17 yrs old	37914	37.04	102353	100.00

How many children/youth of different ages are in the
0- to 17-year-old population? (derived - 5 groups)

age_5	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0-3 yrs old	22656	22.14	22656	22.14
4-7yrs old	20755	20.28	43411	42.41
8-11 yrs old	21028	20.54	64439	62.96
12-14 yrs old	18174	17.76	82613	80.71
15-17 yrs old	19740	19.29	102353	100.00

How many children of different races or Hispanic ethnicity
are in the 0- to 17-year-old population? (derived)

race_5	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Hispanic	13357	13.23	13357	13.23
White, non-Hispanic	70104	69.45	83461	82.69
Black, non-Hispanic	9586	9.50	93047	92.18
Multiracial, non-Hispanic	3943	3.91	96990	96.09
Other, non-Hispanic	3947	3.91	100937	100.00

Frequency Missing = 1416

Results for CSHCN screener

metlwi	Frequency	Percent	Cumulative Frequency	Cumulative Percent
CSHCN	18578	18.15	18578	18.15
Non-CSHCN	83775	81.85	102353	100.00

How many children live in one-parent versus two-parent households? (derived)

famtype	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Two-parent household (biological/adoptive)	66185	66.27	66185	66.27
Two-parent household with at least one step-parent	8195	8.21	74380	74.47
Mother-only household with no father of any type present	20678	20.70	95058	95.17
All other family structures	4820	4.83	99878	100.00

Frequency Missing = 2475

How many children/youth (ages 0-17) live in households with incomes above/below FPL? (derived)

povlev_4	Frequency	Percent	Cumulative Frequency	Cumulative Percent
HH income 0-99 percent FPL	11307	12.17	11307	12.17
HH income 100-199 percent FPL	18850	20.28	30157	32.45
HH income 200-399 percent FPL	33540	36.09	63697	68.54
HH income 400 percent FPL or more	29242	31.46	92939	100.00

Frequency Missing = 9414

Appendix B:
Medical Home Component & Interim Variables

Unweighted frequency distributions for the Medical Home
sub-components, related interim variables and composite
measure generated by the SAS scoring program

Personal Doctor or Nurse (PDN) Component

**PDN sub-component score (S5Q01)

```
Do you have one or more persons you think of as [S.C.]'s
                 personal doctor or nurse?


                                      Cumulative   Cumulative
    S5Q01    Frequency     Percent    Frequency     Percent
ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ
       0       14568       14.23       14568        14.23
       1       87491       85.48      102059        99.71
       6         267        0.26      102326        99.97
       7          26        0.03      102352       100.00


             Frequency Missing = 1
```

Family Centered Care Component

```
      How often does PDN spend enough time with them


                                      Cumulative   Cumulative
   adeqtime    Frequency     Percent   Frequency     Percent
ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ
        0        2006        2.31        2006        2.31
       25       13379       15.39       15385       17.70
       75       17414       20.04       32799       37.74
      100       54117       62.26       86916      100.00


             Frequency Missing = 15437



   How often does PDN explain things so parent or ch understands


                                      Cumulative   Cumulative
   explain    Frequency     Percent    Frequency     Percent
ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ
       0         756        0.87         756         0.87
      25        3644        4.18        4400         5.05
      75       12003       13.77       16403        18.81
     100       70790       81.19       87193       100.00


             Frequency Missing = 15160
```

**Interim variables for Communication with PDN sub-component

How often able to get needed interpreter services

interprt	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	138	12.33	138	12.33
25	335	29.94	473	42.27
75	99	8.85	572	51.12
100	547	48.88	1119	100.00

Frequency Missing = 101234

Number of PDN communication elements needed

pdn_cnt	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	14966	14.62	14966	14.62
1	643	0.63	15609	15.25
2	85647	83.68	101256	98.93
3	1097	1.07	102353	100.00

Total points across all needed elements of comm w/ PDN

pdn_sum	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	333	0.38	333	0.38
25	711	0.81	1044	1.19
50	1983	2.27	3027	3.46
75	545	0.62	3572	4.09
100	5070	5.80	8642	9.89
125	8341	9.54	16983	19.43
150	5286	6.05	22269	25.48
175	14730	16.86	36999	42.34
200	49820	57.01	86819	99.35
225	203	0.23	87022	99.58
250	34	0.04	87056	99.62
275	100	0.11	87156	99.74
300	231	0.26	87387	100.00

Frequency Missing = 14966

Average score for communication with PDN sub-component of
MEDICAL HOME composite measure

pdn100	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	333	0.38	333	0.38
8.3	10	0.01	343	0.39
12.5	622	0.71	965	1.10
16.7	34	0.04	999	1.14
25.0	2087	2.39	3086	3.53
33.3	22	0.03	3108	3.56
37.5	367	0.42	3475	3.98
41.6	93	0.11	3568	4.08
50.0	4759	5.45	8327	9.53
58.3	42	0.05	8369	9.58
62.5	8248	9.44	16617	19.02
66.7	143	0.16	16760	19.18
75.0	5486	6.28	22246	25.46
83.3	34	0.04	22280	25.50
87.5	14688	16.81	36968	42.30
91.7	100	0.11	37068	42.42
100.0	50319	57.58	87387	100.00

Frequency Missing = 14966

**Communication with PDN sub-component score (PDNCOM_2)

PDN communication sub-component for MEDICAL HOME composite measure

pdncom_2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	16760	19.18	16760	19.18
1	70627	80.82	87387	100.00

Frequency Missing = 14966

Comprehensive Care Component

** Preventive Medical Care Visit sub-component score **(CARE_2)**

Preventive care visit sub-component

pc_2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	908	0.89	908	0.89
1	22255	21.74	23163	22.63
2	79190	77.37	102353	100.00

**Interim variables Getting Needed Care sub-component

How often get advice over phone from ch's PDN when needed

phonehlp	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	362	0.94	362	0.94
25	1682	4.35	2044	5.28
75	5416	14.00	7460	19.29
100	31221	80.71	38681	100.00

Frequency Missing = 63672

How often get needed care right away from ch's PDN

getcare	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	553	2.02	553	2.02
25	1572	5.75	2125	7.78
75	5120	18.74	7245	26.52
100	20074	73.48	27319	100.00

Frequency Missing = 75034

Number of getting care elements needed

care_cnt	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	54335	53.09	54335	53.09
1	30036	29.35	84371	82.43
2	17982	17.57	102353	100.00

Total points across needed elements of getting phone or urgent care from PDN

care_sum	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	472	0.98	472	0.98
25	1566	3.26	2038	4.24
50	292	0.61	2330	4.85
75	4693	9.77	7023	14.63
100	24205	50.41	31228	65.03
125	647	1.35	31875	66.38
150	1091	2.27	32966	68.65
175	3204	6.67	36170	75.33
200	11848	24.67	48018	100.00

Frequency Missing = 54335

Average score for Getting Needed Care sub-component of MEDICAL HOME composite measure

care100	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	472	0.98	472	0.98
12.5	132	0.27	604	1.26
25.0	1726	3.59	2330	4.85
37.5	92	0.19	2422	5.04
50.0	609	1.27	3031	6.31
62.5	647	1.35	3678	7.66
75.0	5692	11.85	9370	19.51
87.5	3204	6.67	12574	26.19
100.0	35444	73.81	48018	100.00

Frequency Missing = 54335

**Getting Needed Care sub-component score (CARE_2)

Getting Needed Care sub-component for MEDICAL HOME composite measure

care_2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	3678	7.66	3678	7.66
1	44340	92.34	48018	100.00

Frequency Missing = 54335

**Interim variables Access to Specialist Care & Services sub-component

Problems getting needed care from specialist dr.

special	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	966	4.48	966	4.48
25	1593	7.39	2559	11.88
75	2118	9.83	4677	21.71
100	16870	78.29	21547	100.00

Frequency Missing = 80806

Problems getting needed services or equip

services	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	638	6.96	638	6.96
25	782	8.54	1420	15.50
75	1036	11.31	2456	26.81
100	6705	73.19	9161	100.00

Frequency Missing = 93192

Number of access to care elements needed

acc_cnt	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	77340	75.56	77340	75.56
1	19318	18.87	96658	94.44
2	5695	5.56	102353	100.00

Total points across accessing needed specialist care/services
elements of MEDICAL HOME

acc_sum	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	918	3.67	918	3.67
25	1456	5.82	2374	9.49
50	146	0.58	2520	10.07
75	1884	7.53	4404	17.61
100	15920	63.65	20324	81.25
125	453	1.81	20777	83.06
150	208	0.83	20985	83.90
175	680	2.72	21665	86.61
200	3348	13.39	25013	100.00

Frequency Missing = 77340

Average score for access to needed specialist care/services
sub-component of MEDICAL HOME

acc100	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	918	3.67	918	3.67
12.5	127	0.51	1045	4.18
25.0	1475	5.90	2520	10.07
37.5	109	0.44	2629	10.51
50.0	457	1.83	3086	12.34
62.5	453	1.81	3539	14.15
75.0	1983	7.93	5522	22.08
87.5	680	2.72	6202	24.80
100.0	18811	75.20	25013	100.00

Frequency Missing = 77340

**Access to Specialist Care & Services sub-component score (ACC_2)

```
         Access to needed specialist care/services sub-component for
                       MEDICAL HOME composite measure


                                                 Cumulative    Cumulative
          acc_2     Frequency      Percent       Frequency      Percent
         ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ
            0          3539         14.15           3539          14.15
            1         21474         85.85          25013         100.00


                        Frequency Missing = 77340
```

Coordinated Care Component

**Interim variables Follow Up with Family sub-component

```
          How often PDN follows up w/ family after specialist visit


                                               Cumulative    Cumulative
         fu_spec     Frequency      Percent     Frequency      Percent
        ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ
            0           4349        20.54          4349          20.54
           25           3646        17.22          7995          37.76
           75           3526        16.65         11521          54.41
          100           9652        45.59         21173         100.00


                        Frequency Missing = 81180
```

```
        How often PDN follows up w/ family after special services/equip


                                               Cumulative    Cumulative
        fu_serve     Frequency      Percent     Frequency      Percent
        ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ
            0           2247        24.82          2247          24.82
           25           1857        20.51          4104          45.33
           75           1306        14.43          5410          59.76
          100           3643        40.24          9053         100.00


                        Frequency Missing = 93300
```

Number of coor care follow up components

coor_cnt	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	77722	75.94	77722	75.94
1	19036	18.60	96758	94.53
2	5595	5.47	102353	100.00

Total points on needed follow up care elements of MEDICAL HOME

coor_sum	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	4969	20.17	4969	20.17
25	3698	15.01	8667	35.19
50	547	2.22	9214	37.41
75	3130	12.71	12344	50.12
100	9208	37.38	21552	87.50
125	369	1.50	21921	89.00
150	437	1.77	22358	90.77
175	486	1.97	22844	92.74
200	1787	7.26	24631	100.00

Frequency Missing = 77722

Average score on FOLLOW UP w/ FAMILY coor care sub-component
of MEDICAL HOME

coor100	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	4969	20.17	4969	20.17
12.5	456	1.85	5425	22.03
25.0	3789	15.38	9214	37.41
37.5	155	0.63	9369	38.04
50.0	679	2.76	10048	40.79
62.5	369	1.50	10417	42.29
75.0	3412	13.85	13829	56.14
87.5	486	1.97	14315	58.12
100.0	10316	41.88	24631	100.00

Frequency Missing = 77722

**Follow Up with Family sub-component score (COOR_2)

```
FOLLOW UP w/ FAMILY sub-component for MEDICAL HOME composite measure

                                        Cumulative    Cumulative
    coor_2    Frequency    Percent      Frequency      Percent
ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ
      0        10417       42.29         10417         42.29
      1        14214       57.71         24631        100.00

                    Frequency Missing = 77722
```

Medical Home Composite Measure

**Interim variables for Medical Home Composite Measure

```
          Number of needed sub-components of Medical Home

                                        Cumulative    Cumulative
    mh_cnt    Frequency    Percent      Frequency      Percent
ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ
      0        14941       14.60         14941         14.60
      1        32130       31.39         47071         45.99
      2        30402       29.70         77473         75.69
      3         7405        7.23         84878         82.93
      4        17475       17.07        102353        100.00


Number needed Medical Home sub-components with score of 75pts or above

                                        Cumulative    Cumulative
   mh_cnt2    Frequency    Percent      Frequency      Percent
ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ
      0        24383       23.82         24383         23.82
      1        30895       30.18         55278         54.01
      2        29831       29.15         85109         83.15
      3         8878        8.67         93987         91.83
      4         8366        8.17        102353        100.00
```

**Medical Home Composite Measure score (MH_COMP)

```
            How many children/youth (ages 0-17) receive health
             care meeting the AAP definition of medical home?


                                         Cumulative    Cumulative
     mh_comp     Frequency     Percent    Frequency      Percent
    ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ
        1         49089        48.51        49089         48.51
        2         52105        51.49       101194        100.00


                    Frequency Missing = 1159
```

```
 Percent of needed MEDICAL HOME sub-components with score 75pts or above


                                           Cumulative    Cumulative
     mh2_scor     Frequency     Percent     Frequency      Percent
    ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ
          0         9442        10.80         9442         10.80
       25.0          720         0.82        10162         11.63
       33.3         1262         1.44        11424         13.07
       50.0         7115         8.14        18539         21.21
       66.7         3038         3.48        21577         24.68
       75.0         5970         6.83        27547         31.51
      100.0        59865        68.49        87412        100.00


                    Frequency Missing = 14941
```

```
          % meet MED HOME threshold of 75pt or above on EVERY
           needed sub-component - prev care visit NOT included


                                         Cumulative    Cumulative
     mh_yn      Frequency     Percent     Frequency      Percent
    ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ
        0         42195        41.34        42195         41.34
        1         59865        58.66       102060        100.00


                    Frequency Missing = 293
```