# 2011 Survey of Pathways to Diagnosis and Services (Pathways)



OUTCOME MEASURES AND SUBGROUPS Version 1.0: July 2015











### **Recommended Citation**

Appropriate citation must accompany publication or presentation of any analysis involving variables constructed using code from this document in any form. The following format is recommended:

Child and Adolescent Health Measurement Initiative (CAHMI), "2011 Pathways Outcome Measures SAS Codebook, Version 1," 2015, Data Resource Center for Child and Adolescent Health, www.childhealthdata.org.

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#### **Pathways Sample**

Proportion of ASD, Intelle	ctual Disability (ID), and Develop	pmental Delay (DD)	9
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#### **Developmental Concern**

Age of child when parents' first concern
Number of developmental concerns out of 7 types 12
Parent concerned that child had problems talking or communicating13
Parent concerned that child had behavioral problems14
Parent concerned that child had problems with motor skills15
Parent concerned that child had problems with non-verbal communication 16
Parent concerned that child had problems with learning or understanding17
Parent concerned that child had unusual gestures or movements
Parent concerned that child had medical problems19
Person first concerned with child's development
Age first talked to doctor
Child's parent talked to a doctor about their concerns
Doctor or health care provider conducted a developmental test
Doctor or health care provider referred child to a specialist
Doctor or health care provider suggested parents talk with child's school
Doctor or health care provider told parents nothing was wrong
Doctor or health care provider told parents it was too early to tell
Doctor or health care provider said child might grow out of it
Child's parent talked to school about their concerns
Developmental screening
Physician completed a developmental screener
Parent completed a developmental screener

#### **Diagnostic Experience**

Child's age when parent first told child had one of three developmental conditions	. 33
Among Children with Autism Spectrum Disorder	
Type of ASD diagnosis	. 35
Ever had Asperger's Disorder	. 36
Ever had pervasive development disorder	. 37

Ever had autism disorder	. 38
Age when parent was first told child had ASD by doctor	. 39
Child's parents were told child did not have ASD	. 40
Type of doctor who first diagnosed ASD	. 41
Among Children with Developmental Delay	
Age when parent was told child had developmental delay by a doctor	. 42
Child's parents were told child did not have developmental delay	. 43
Type of doctor who first diagnosed developmental delay	. 44
Among Children with Intellectual Disability	
Age when parent was told child had intellectual disability by a doctor	. 45
Child's parents were told child did not have intellectual disability	. 46
Type of doctor who first diagnosed intellectual disability	. 47

#### Health and Education Services

Number of health and related services used	
Currently use behavioral intervention or modification services	. 49
Currently use sensory integration therapy	. 50
Currently use cognitive based therapy	. 51
Currently use occupational therapy	. 52
Currently use physical therapy	. 53
Currently use social skills training	. 54
Currently use speech or language therapy	. 55
Number of providers children currently work with	. 56
Currently works with audiologist	. 57
Currently works with developmental pediatricians	. 58
Currently works with neurologist	. 59
Currently works with nutritionist	. 60
Currently works with an at home/long-term nurse	. 61
Currently works with psychiatrist	. 62
Currently works with psychologist/ psychotherapist	. 63
Currently works with a social worker	. 64
Number of medications children currently use	. 65
Currently use stimulant medications	. 67
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Currently use sleep medications	. 72
Type of school child currently enrolled in	. 73
Had an Individualized Education Program	. 74

Adequacy of Individualized Education Program	75
Received services from Early Intervention Services	76
Ever told that child was not eligible for Early Intervention Services	77

#### **Unmet Needs and Insurance Adequacy**

Any unmet need for care	78
Received all needed treatments and services	79
Saw all needed treatments and services.	80
Health insurance coverage	81
Inadequate current health insurance	82
Current health insurance benefits meet child's needs	84
Cost not covered by health insurance are reasonable	85
Health insurance let child see needed providers	86
Any unmet need due to insurance coverage	87
Any speech or language therapy not covered by insurance coverage	88
Any occupational therapy not covered by insurance coverage	89
Any behavioral management services not covered by insurance coverage	90
Any psychological services not covered by insurance coverage	91
Any alternative medicine/therapies not covered by insurance coverage	92

#### Functioning, Strengths, and Difficulties

Strengths and Difficulties Questionnaire composite score	
Child generally well behaved	
Child has many worries, or often seemed worried.	
Child often unhappy, depressed, or tearful	
Child gets along better with adults than with other children/youth	
Child has good attention span	

#### **Parental Views and Safety Concerns**

School professionals are able to meet child's needs	100
Satisfaction with school services	101
Health care providers are able to meet child's needs	102
Satisfaction with health care providers	103
Condition is lifelong	104
Treatment can prevent or decrease condition related problems	105
Parent has the power to change the condition	106
Condition is a mystery	107
Child's symptoms come and go	108
Parent gets upset when they think of their child's behavior or development	109
Condition is genetic or hereditary	110

Condition is caused by exposure before birth	111
Condition is caused by exposure after birth	112
Injury affected child's behavior or development	113
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Wandered or become lost from home	115
Wandered or become lost from someone else's home	116
Wandered or become lost from school, day care, or camp	117
Wandered or become lost from a public place	118
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#### **Acknowledgments**

This publication is prepared and updated (when needed) by the Child and Adolescent Health Measurement Initiative (CAHMI).

The CAHMI team extends heartfelt thanks to <u>Autism Speaks</u> for sponsoring this project and for working in partnership with CAHMI to disseminate important and timely data and resources about children with ASD and related conditions.

We would also like to recognize the Federal Maternal and Child Health Bureau for assuring the availability of high-quality national and Census region-level survey data on children's health that makes it possible to implement special topic follow-up surveys such as the Survey of Pathways to Diagnosis and Services (Pathways), and for support of the Data Resource Center for Child and Adolescent Health (DRC). We want to acknowledge the National Institute for Mental Health who sponsored the Pathways survey, and the National Center for Health Statistics (NCHS) who led the data collection and implementation of the Pathways survey. The indicators outlined here represent the intellectual leadership of many DRC advisors and experts.

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

### **Purpose of the 2011 Pathways SAS Codebook**



This codebook contains documentation and SAS program statements for the 2011 Survey of Pathways to Diagnosis and Services (Pathways) to understand how the DRC created key outcome measures and variables. The variables included are those used to stratify these items for children and youth with special health care needs (CSHCN) who ever had autism spectrum disorder (ASD), intellectual disability, and/or developmental delay. The codebook is designed to serve as a resource for researchers and analysts who are interested in understanding the construction

of outcome variables developed from the 2011 Pathways survey for the interactive data query feature of the National Data Resource Center for Child and Adolescent Health (DRC) located online at **www.childhealthdata.org**. Its purpose is to expedite research by helping to standardize and improve the comparability of information derived from the 2011 Pathways survey.

The DRC maintains a complete 2011 Pathways variable data set, available in either SPSS or SAS format. The data set includes over 100 key child health outcome measures, as well as demographic and individual question items. To request a copy, contact the Child and Adolescent Health Measurement Initiative (CAHMI) at: info@cahmi.org.

# The CAHMI 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 Johns Hopkins Bloomberg School of Public Health in Baltimore, Maryland. It is located online at www.childhealthdata.org.

The main feature of the DRC is an interactive data search tool that includes over 200 standardized indicators from six national- and state-based surveys on the health and health care of children and youth: the 2001, 2005-2006 and 2009-2010 *National Survey of Children with Special Health Care Needs* (NS-CSHCN), and the *2003, 2007, and 2011-2012 National Survey of Children's Health* (NSCH). The data query also includes child indicators from the National Health Interview Survey and its Complementary and Alternative Medicine Supplements and the Survey of Pathways to Diagnosis and Services. Data search results can be stratified by age, race/ethnicity, income and other pertinent characteristics of children and youth nationally or for individual states or regions. Links to the survey instruments, sampling diagrams, methods reports and other survey specific resources are included on the DRC Web site.

## **Overview of the 2011 Pathways Survey**

The 2011 Pathways survey is a follow-up survey of CSHCN who ever had autism spectrum disorder, intellectual disability and/or developmental delay from the 2009/10 NS-CSHCN. The NS-CSHCN was a nationwide telephone survey sponsored by the U.S. Department of Health and Human Services, Health Resources Services Administration, Maternal and Child Health Bureau (MCHB), and conducted by the National Center for Health Statistics (NCHS) of the Centers for Disease Control and Prevention, using State and Local Area Integrated Telephone Survey (SLAITS) technology for sampling and administration. Children were screened for having a special health care need using the CSHCN Screener (1) a survey tool developed and validated specifically to identify children who meet the federal MCHB health-consequences-based special health care needs definition. The Screener asks parents about the use of prescriptive mediations, treatments or services, and special therapies; and the presence of emotional, developmental or behavioral conditions that require treatment, and/or functional limitations.

The Pathways survey was sponsored by the National Institute of Mental Health with funds available from the American Recovery and Reinvestment Act of 2009 (ARRA) (Public Law 111-5), and was also conducted by NCHS using the SLAITS sampling and administrative mechanism. The 2011 Pathways survey includes a telephone interview component and self-administered mail questionnaire (SAQ). The telephone sample was achieved by re-contacting the same respondents for children who were 6-16 years old reported to ever have ASD, intellectual disability or developmental delay from the 2009/10 NS-CSHCN. Respondents of re-contacted children were asked to confirm the child's diagnosis. The telephone interview was administered to CSHCN who met the following eligibility criteria:

- The same respondent who completed the 2009/10 NS-CSHCN was re-contacted and able to complete the Pathways interview.
- The Pathways-eligible child with special health care needs was 6 to 17 years old at the time of the Pathways interview.
- The Pathways-eligible child still lived in the same household as the respondent.
- The respondent confirmed that the Pathways-eligible child with special health care needs ever had ASD, intellectual disability, and developmental delay.

Of the 6,090 CSHCN sampled for the Pathways survey, 4,032 completed in-depth telephone interviews. The SAQ was mailed to those who completed the telephone interview and agreed to have the SAQ mailed to them, and 2,988 completed SAQs were returned. The survey data are weighted to reflect the population of non-institutionalized CSHCN ages 6–17 years who ever had ASD, intellectual disability, and/or developmental delay in the United States. **As such, every indicator from the 2011 Pathways survey should be understood to represent a child with special health care needs who was ever told that they had ASD, DD or ID.** 

1. Bethell CD, Read D, Stein REK, Blumberg SJ, Wells N, Newacheck PW. "Identifying children with special health care needs: development and evaluation of a short screening instrument." Ambulatory Pediatrics. 2002; 2:38-47.

The 2011 Pathways survey provides detailed national- and regional-level parent-reported information. Topics covered by the telephone interview in the Pathways survey include: parental first concerns about the child's development, the diagnostic experience, health and educational services, unmet needs and inadequate insurance, parental views of services and the child's condition, and wandering concerns. The Pathways survey also includes two validated instruments in the SAQ: the Strength and Difficulties Questionnaire (Goodman, 1997), and the Children's Social Behavioral Questionnaire (Hartman et al, 2006). A modified, five-question Strength and Difficulties Questionnaire is included in the Pathways telephone interview. Additional Fast Facts about the survey can be found on the DRC website at www.childhealthdata.org.

Data from the 2011 Pathways survey are publicly released in two files in SAS format: (1) Interview file, and (2) an additional file containing imputed data. The public data sets and relevant background information and documentation are available online at: http://www.cdc.gov/nchs/slaits/imputed\_data.htm. Additional information and results from the 2011 Pathways survey are available on the DRC website at: www.childhealthdata.org.

As a follow-up survey of the 2009/10 NS-CSHCN, the 2011 Pathways survey does include both a landline telephone and cell phone sample. The 2009/10 NS-CSHCN sample of landline telephone numbers was supplemented with an independent random-digit-dial sample of cell phone numbers of household respondents that indicated they did not have a landline or were unlikely to be reached through their landline. The variable SAMPLE contains information on whether a survey respondent was interviewed via a cell phone or a landline. Stratification by the SAMPLE variable is not recommended as the variable SAMPLE does <u>not</u> imply that a cell phone sample respondent does not have a landline. The SAMPLE variable is an important component of the survey design and <u>must be used in statistical software packages to account for the complex</u> design of the survey.

# Linking the Pathways and NS-CSHCN Data Files

Both the interview and imputed public use data files for the 2011 Pathways survey are used in this codebook. Both files include 4,032 CSHCN ages 6-17 years old who ever had ASD, ID, and/or DD and were randomly selected for the 2009/10 NS-CSHCN.

The variables in this codebook are all based on the 2011 Pathways Interview file. The DRC provides an enhanced Pathways dataset that has been merged with the NS-CSHCN interview file and a single imputation file. The National Center for Health Statistics imputes data when there are approximately 10% missing cases. The imputed variables used in the merged dataset will have zero missing cases. The unique identifier used to link these files is IDNUMXR. The Pathways dataset provided by the DRC, which also includes the core outcome and indicator variables from the NS-CSHCN, can be requested at no charge in SAS/SPSS/STATA/CVS format through the DRC. When using the DRC linked Pathways dataset, do note that estimates and confidence intervals based on single imputation may differ slightly from those obtained using multiple imputation methods. Please see **Appendix C** in this document for details on imputed values. To access all imputation files, please visit the <u>NCHS website</u>.

# Important Information about the 2011 Pathways Survey

#### Weighting

The sampling weights provided in the publicly released data files are used to produce estimates representative of CSHCN 6-17 years old who ever had ASD, DD, and/or ID at the Census region and national levels. The data are weighted to be representative at the state level; however, sample size at the state level is very small. State level estimates are not reliable or precise and state information may pose a disclosure risk for Pathways participants. Therefore the variable STATE is not included in the public use files. These sampling weights adjust the survey responses to reflect the underlying non-institutionalized child with special health care needs population using the U.S. Census counts of children, stratified by sex, age, and race/ethnicity as the reference population. Initial weights are calculated to reflect telephone access and other non-response biases. The weighting variable WEIGHT\_CATI, included in the Interview file, adjusts the survey responses to reflect the population of CSHCN age 6-17 years old who ever had ASD, DD, and/or ID. This weight variable should be applied to all analytic work using the Pathways survey.

#### Variance Estimation

Use of statistical software with the capacity to take into account the <u>complex sampling design</u> of the survey is necessary to appropriately calculate the variances, 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 stratum variable, PSTRAT, was created to account for the complex survey design to properly calculate variance estimates. **A 1-stage** 

# sampling plan should be set up using PSTRAT and SAMPLE variables as strata, IDNUMR as the cluster and WEIGHT\_CATI as the weight.

Keeping only selected records or deleting records from your dataset is called subsetting the data. Subsetting to a specific population subgroup (diagnostic group, age group, race/ethnicity, or poverty level, for example), within or across regions, 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 issue, 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 sub-state geographic information included in the 2011 Pathways public use dataset is a variable for Metropolitan Statistical Area (MSA) status, located in the Household file. MSA status information was only available for 16 states in which the population is at least 500,000 in both categories (MSA and non-MSA), similar to what was done for the 2009/10 NS-CSHCN. State and Zip code data are collected with the Pathways survey but are not released in the public use data files due to confidentiality restrictions. The confidential state and zip code data can be made available to researchers for on-site analysis at the Research Data 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: http://www.cdc.gov/nchs/r&d/rdc.htm.

#### Interpretation of Results

The respondents to the CSHCN in depth Pathways interview are parents/guardians; however, the results are weighted to reflect the population of CSHCN ages 6–17 who ever had ASD, intellectual disability, and/or developmental delay, <u>not parents or families</u>. Thus, results are always reported in terms of CSHCN, even if the question refers to the parents or family. For example, "Among CSHCN whose parent was first concerned that...", rather than: "Among parents who were first concerned that...".

Pay careful attention to the valid denominator of responders to specific questions when interpreting results for this survey. Although most questions were asked for all CSHCN interviewed for the Pathways survey, parts of the survey follow-up questions were asked only if parents gave a specific response to a previous filter question or only for specific condition groups, such as CSHCN with ASD.

#### **Comparing Across Surveys**

This is the first generation of the Survey of Pathways to Diagnosis and Services, therefore one cannot compare between Pathways surveys. However, some questions in the Pathways survey may be similar to questions included in other survey, and there is a natural desire to want to compare these results. This should be done with extreme caution. The main reasons why Pathways measures should <u>not</u> be compared with other surveys is the difference in sampling

design. Furthermore, the items may have changed or use different denominator groups so that the questions are tailored for the purposes of the Pathways survey. All of these are taken into consideration by the DRC and summarized in a document on our website and will be available soon.

#### Verification

Unweighted frequency distributions for the variables in this codebook are located in **Appendix A**, as a resource for cross checking results for CSHCN ages 6-17 years who EVER had ASD, DD and/or ID (the entire Pathways sample). Results are not directly comparable with results from the interactive data query in the DRC. The denominator of the estimates in the DRC data query are CSHCN ages 6-17 years who CURRENTLY have ASD, DD and/or ID. To replicate the estimates displayed in the data query, stratify the data with the 'Dx\_curr\_11' variable provided in the dataset. To generate estimates for children with ASD, stratify the data with the 'Dx\_AUT\_11' variable in the dataset.

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

The 2011 Pathways and NS-CSHCN public use data files provided by the National Center for Health Statistics include special codes to differentiate several types of missing values. Since these values are referred to in code for some of the indicator variables, their definitions are shown in the accompanying table.

Code	Category	Description
.L	LEGITIMATE SKIP	Variable is missing due to valid questionnaire paths based on a previous answer to a root question.
.P	PARTIAL INTERVIEW	Variable is missing because the respondent ended the interview before completing the full interview.
.M	MISSING IN ERROR	Variable is missing due to interviewer or system errors. In cases of interviewer error, the interviewer may have deleted the data by accident or simply may not have entered the response. In cases of system error, the data may not have been collected or saved properly after it was entered by the interviewer in the CATI system.

NOTE: It is important to note that derived variables (i.e., variables created in this codebook that are not in the original public use file) may not include the detailed coding of missing data. All missing values for derived variables received a ".M" code regardless of the reason for the missing data. Similarly, ".M" was used when derived variables were suppressed to protect the confidentiality of the survey participants.

#### Additional Information on Survey Design and Methodology

The NCHS is currently developing a final *Design and Operation of the Survey of Pathways to Diagnosis and Services, 2011.* In the meantime, they have produced a Frequently Asked Questions guide to provide practical assistance with understanding how the Pathways survey was conducted. View or download these frequently asked questions from the NCHS Web site at: http://www.cdc.gov/nchs/data/slaits/PathwaysFAQ.pdf.



CAHMI – The Child and Adolescent Health Measurement Initiative – July 2015

Pathways Sample	Children with ASD, Intellectual Disability, or Developmental Delay (exclusively)
Description	CSHCN who currently have ASD, intellectual disability, or developmental delay (exclusively)
Survey Items Used	DE_AUT11; DE_DEV11; DE_INT11
Denominator	CSHCN age 6-17 years who ever have ASD, intellectual disability, and/or developmental delay
Numerator	CSHCN who currently have ASD, Intellectual Disability, or Developmental Delay (exclusively)
Notes for Data-Users	
CURRENTLY have ASD, stratify the data with the '	stimates in the DRC data query are CSHCN ages 6-17 years who DD and/or ID. To replicate the estimates displayed in the data query, Dx_CURR_11' variable provided in the dataset. To generate estimates atify the data with the 'DX_AUT_11' variable in the dataset.
SAS Code and Annotati	on
EVER_AUT = 2;/* and DE if DE_AUT11 = 1 then EV if DE_AUT11 in (.M,6,7) t LABEL EVER_AUT = 'CS EVER_INT = .; if DE_INT11 = .L then EV if DE_INT12 = 1 or ((CSH EVER_INT = 2;* Ever inte if DE_INT11=1 then EVE if DE_INT11=1 then EVE if DE_INT11 in (.M,6,7) th LABEL EVER_INT = 'CSI	HCN_K2Q35A=1 and COND_CONFIRM=1) or COND_A=1) then E_AUT11 in (0,6,7,.L)) Ever autism;*/ /ER_AUT = 1; * Current autism; hen EVER_AUT = .; SHCN who currently or ever were told that child had Autism/ASD'; /ER_INT = .L; ICN_K2Q37A=1 and COND_Confirm=1) or COND_C=1) then ellectual disability; ER_INT = 1; * Current intellectual disability;
= 2;* Ever developmental if DE_DEV11=1 then EVE if DE_DEV11 in (.M,6,7) t	cn_k2q36a=1 and COND_confirm=1) or COND_B=1) then EVER_DEV delay; ER_DEV = 1;* Current developmental delay;
DX_AUT_11 = .; if DE_AUT11 in (0,.L) the if DE_AUT11 = 1 then DX label DX_AUT_11 = "CSH	
DX_DEV_11 = .; if DE_DEV11 in (0,.L) the if DE_DEV11 = 1 then D>	

label DX\_DEV\_11 = "CSHCN currently has a developmental delay"; DX\_INT\_11 = .; if DE\_INT11 in (0,L) then DX\_INT\_11 = 2; if DE\_INT11 = 1 then DX\_INT\_11 = 1; label DX\_INT\_11 = "CSHCN currently has an intellectual disability"; DX\_CURR\_11 = .; if DX\_AUT\_11 in (1,2) OR DX\_INT\_11 in (1,2) OR DX\_DEV\_11 in (1,2) then DX\_CURR\_11 = 2; /\*Ever\*/ if DX\_AUT\_11 = 1 OR DX\_INT\_11 = 1 OR DX\_DEV\_11 = 1 then DX\_CURR\_11 = 1; /\*Current\*/ Label DX\_CURR\_11 = "CSHCN currently has ASD, ID or DD"; value cond\_status 1 = "currently has condition" 2 = "does not have condition";

Description	How old was child when you first noticed something was not quite right with child's development?
Survey Items Used	PC1; PC1A
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay and/or intellectual disability whose parent(s) ever had a developmental concern or condition was present at birth
Numerator	Age at which parents were first concerned that something was different with child: A or before birth; 1-23 months; 24-47 months; 4 or more years
Notes for Data-Users	S
	enominator are CSHCN whose parents reported that the developmental concern was nild or parent entered the family, or the parent was never concerned.
SAS Code and Anno	otation
IF PC1_A = 1 THEN IF IF PC1 = 94 THEN PC PC_AGE_11 = .; IF PC_AGE_all = 0 TH IF PC_AGE_all > 0 TH IF PC_AGE_all GE 2 IF PC_AGE_all GE 4 IF PC1 IN (93,95) TH cocerned*/	PC_AGE_all = PC1; /*Age in yrs*/ PC_AGE_all = PC1/12; /*Age in months into yrs*/ C_AGE_all = 0;/*Condition before birth = 0*/ HEN PC_AGE_11 = 1; /*At/Before birth*/ HEN PC_AGE_11 = 2; /* 1 - 23 months old*/ THEN PC_AGE_11 = 3; /* 24 - 47 months old*/ THEN PC_AGE_11 = 4; /* 48+ months old*/ EN PC_AGE_11 = .L; /*Concern present before child/parent entered fam or never = "Age when parents were first concerned about their development";

	Number of developmental concerns out of 7 types
Description	How many parents had one or more concerns about their child's development, out of 7 types of developmental domains?
Survey Items Used	PC_VRBL_11; PC_BEH_11; PC_MOTOR_11; PC_NONVR_11; PC_LEARN_11; PC_GEST_11; PC_MED_11
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability
Numerator	CSHCN whose parents had 0-1 concerns; 2-3 concerns; 4 or more concerns in any of the developmental domains.
Notes for Data-Users	S
N/A	
SAS Code and Anno	otation
if var_pct(i) = if var_pct(i) = end; drop i;	<pre>st); 1 then anypct = anypct + 1; . then misst_m = misst_m + 1; .L then misst_I = misst_I + 1; ypct; /*.L include PC1 = 93,94,96*/</pre>
	PC_COUNT_11 = 1;/*0-1 concerns*/
•••••	EN PC_COUNT_11 = 2;/*2-3 concerns*/
• ·	I PC_COUNT_11 = 3;/*4+ concerns*/ PC_COUNT_11 = .L;
	$PC_COUNT_11 = .; /*missing if any DK/REF*/$
IF PC1 = 95 THEN PC	C_COUNT_11 = 1;
LABEL PC_COUNT_	11 = "Parents who had 0-1, 2-3, 4 or more of the 7 types of developmental concerns";
value PC_COUNT	
1 = "0-1 concerns"	
2 = "2-3 concerns"	ne":
3 = "4 or more concer	IIS ,

Parent concerned that child had problems talking or communicating	
Description	Among CSHCN whose parents had a developmental concern, was parent concerned that child had problems talking, communicating, or loosing speech skills?
Survey Items Used	PC_2G; PC_2H; PC_2I; PC_2J
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, intellectual disability and/or developmental delay whose parent(s) ever had a developmental concern when child was 9 months of age or older
Numerator	Yes, parent concerned that child had speech/communication problems; No, parent did not have this concern
Notes for Data-Users	5
Therefore, parents wh questions about verba	child's verbal development (problems talking or loosing speech skills) are age specific. no had a developmental concern before the child was 9 months old were not asked al developmental concerns. CSHCN whose parents reported that the developmental before the child or parent entered the family, or the parent was never concerned are
	le denominator.
SAS Code and Anno	
	otation C2_G = .L if PC1=93,94,95,96 OR PC_AGE < 9mo; PC2_H,I,J = .L if
PC_VRBL_11 = .; /*P PC1=93,94,95,96 OR	otation C2_G = .L if PC1=93,94,95,96 OR PC_AGE < 9mo; PC2_H,I,J = .L if
PC_VRBL_11 = .; /*P PC1=93,94,95,96 OR IF PC2_G = 1 OR PC	otation C2_G = .L if PC1=93,94,95,96 OR PC_AGE < 9mo; PC2_H,I,J = .L if PC_AGE <= 9mo*/
PC_VRBL_11 = .; /*P PC1=93,94,95,96 OR IF PC2_G = 1 OR PC	Otation         C2_G = .L if PC1=93,94,95,96 OR PC_AGE < 9mo; PC2_H,I,J = .L if
PC_VRBL_11 = .; /*P PC1=93,94,95,96 OR IF PC2_G = 1 OR PC IF PC2_G = 0 AND P IF PC2_G = .L THEN	C2_G = .L if PC1=93,94,95,96 OR PC_AGE < 9mo; PC2_H,I,J = .L if PC_AGE <= 9mo*/ C2_H = 1 OR PC2_I = 1 OR PC2_J = 1 THEN PC_VRBL_11 = 1; C2_H in (0,.L) AND PC2_I in (0,.L) AND PC2_J in (0,.L) THEN PC_VRBL_11 = 2; PC_VRBL_11 = .L; = "Parent was concerned that child had problems talking later, not talking at all, not
PC_VRBL_11 = .; /*P PC1=93,94,95,96 OR IF PC2_G = 1 OR PC IF PC2_G = 0 AND P IF PC2_G = .L THEN LABEL PC_VRBL_11	C2_G = .L if PC1=93,94,95,96 OR PC_AGE < 9mo; PC2_H,I,J = .L if PC_AGE <= 9mo*/ C2_H = 1 OR PC2_I = 1 OR PC2_J = 1 THEN PC_VRBL_11 = 1; C2_H in (0,.L) AND PC2_I in (0,.L) AND PC2_J in (0,.L) THEN PC_VRBL_11 = 2; PC_VRBL_11 = .L; = "Parent was concerned that child had problems talking later, not talking at all, not
PC_VRBL_11 = .; /*P PC1=93,94,95,96 OR IF PC2_G = 1 OR PC IF PC2_G = 0 AND P IF PC2_G = .L THEN LABEL PC_VRBL_11 talking as well, or loos	C2_G = .L if PC1=93,94,95,96 OR PC_AGE < 9mo; PC2_H,I,J = .L if PC_AGE <= 9mo*/ C2_H = 1 OR PC2_I = 1 OR PC2_J = 1 THEN PC_VRBL_11 = 1; C2_H in (0,.L) AND PC2_I in (0,.L) AND PC2_J in (0,.L) THEN PC_VRBL_11 = 2; PC_VRBL_11 = .L; = "Parent was concerned that child had problems talking later, not talking at all, not

	Parent concerned that child had behavioral problems	
Description	Was parent concerned that the child had difficulties playing with others, difficulties with change, or any other difficulties (sleeping/eating, hyper, wandering, tantrums, aggressive/ destructive)?	
Survey Items Used	PC2_E; PC2_M; PC2_N	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability whose parent(s) ever had a developmental concern after child was born	
Numerator	Yes, parent concerned that child had behavioral difficulties; No, parent did not have this concern	
Notes for Data-User	S	
are age specific. Ther time the child was bo	child's behavioral development (difficulties with change, playing and other behaviors) refore, parents who had a developmental concern before the child was born or at the rn were not asked questions about behavioral developmental concerns. CSHCN	
	ed that the developmental concern was present before the child or parent entered the vas never concerned are also not included in the denominator.	
family, or the parent v SAS Code and Anno PC_BEH_11 = .;/*PC PC_AGE <= 12mo */ IF PC2_E = 1 OR PC IF PC2_E = 0 AND P IF PC2_E = .L AND P LABEL PC_BEH_11 =	vas never concerned are also not included in the denominator. <b>Detation</b> 2_E = .L if PC1=93,94,95,96 OR PC_AGE = 0; PC2_M,N = .L if PC1=93,94,95,96 OF 2_M = 1 OR PC2_N = 1 THEN PC_BEH_11 = 1; C2_M in (0,.L) AND PC2_N in (0,.L) THEN PC_BEH_11 = 2; PC2_M = .L AND PC2_N = .L THEN PC_BEH_11 = .L; = "Parent was concerned that child had difficulties playing with others, difficulties with behavior difficulties (sleeping/eating, hyper, wandering, tantrums,	
family, or the parent v SAS Code and Anno PC_BEH_11 = .;/*PC PC_AGE <= 12mo */ IF PC2_E = 1 OR PC IF PC2_E = 0 AND P IF PC2_E = .L AND P LABEL PC_BEH_11 = change, or any other	vas never concerned are also not included in the denominator. <b>Detation</b> 2_E = .L if PC1=93,94,95,96 OR PC_AGE = 0; PC2_M,N = .L if PC1=93,94,95,96 OF 2_M = 1 OR PC2_N = 1 THEN PC_BEH_11 = 1; C2_M in (0,.L) AND PC2_N in (0,.L) THEN PC_BEH_11 = 2; PC2_M = .L AND PC2_N = .L THEN PC_BEH_11 = .L; = "Parent was concerned that child had difficulties playing with others, difficulties with behavior difficulties (sleeping/eating, hyper, wandering, tantrums,	

Parent concerned that child had problems with motor skills	
Description	Among CSHCN whose parents had a developmental concern, was parent concerned that child had problems with coordination, gross motor skills, or fine motor skills?
Survey Items Used	PC2_F, PC2_L
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability whose parent(s) ever had a developmental concern after child was born
Numerator	Yes, parent concerned that child had problems with coordination, gross motor skills, or fine motor skills; No, parent did not have this concern
Notes for Data-User	S
are age specific. The time the child was bor whose parents report	child's motor skill development (difficulties with coordination, gross/fine motor skills) erefore, parents who had a developmental concern before the child was born or at the rn were not asked questions about motor skill developmental concerns. CSHCN ed that the developmental concern was present before the child or parent entered the was never concerned are also not included in the denominator.
SAS Code and Anno	otation
OR PC_AGE <= 12m IF PC2_F = 1 OR PC IF PC2_F = 0 AND PC IF PC2_F = .L THEN LABEL PC_MOTOR_	2_L = 1 THEN PC_MOTOR_11 = 1; C2_L in (0,.L) THEN PC_MOTOR_11 = 2; PC_MOTOR_11 = .L; _11 = "Parent was concerned that child had problems with coordination/gross motor
skills, or fine motor sk	ins,
value yn 1 = "yes"	
2 = "no";	

Parent concerned that child had problems with non-verbal communication	
Description	Among CSHCN whose parents had a developmental concern, was parent concerned that child had problems making eye contact, responding when called/to sounds, or with other forms of non-verbal communication?
Survey Items Used	PC2_B; PC2_C; PC2_D
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability whose parent(s) ever had a developmental concern after child was born
Numerator	Yes, parent concerned that child had problems with non-verbal communication; No, parent did not have this concern
Notes for Data-User	S
communication forms child was born or at th concerns. CSHCN w	child's non-verbal development (problems making eye contact, responding, and other a) are age specific. Therefore, parents who had a developmental concern before the the time the child was born were not asked questions about non-verbal developmental shose parents reported that the developmental concern was present before the child or mily, or the parent was never concerned are also not included in the denominator.
SAS SAS and Anno	tation
IF PC2_B = 1 OR PC IF PC2_B = 0 AND P IF PC2_B = .L AND F LABEL PC_NONVR_	*PC2_B,C,D = .L if PC1=93,94,95,96 OR PC_AGE = 0 */ 2_C = 1 OR PC2_D = 1 THEN PC_NONVR_11 = 1; C2_C = 0 AND PC2_D = 0 THEN PC_NONVR_11 = 2; PC2_C = .L AND PC2_D = .L THEN PC_NONVR_11 = .L; 11 = "Parent was concerned that child had problems making eye contact, responding s, or with other forms of non-verbal communication (tone of voice, facial expressions,
value yn 1 = "yes"	

Parent concerned that child had problems with learning or understanding	
Description	Among CSHCN whose parents had a developmental concern, was parent concerned that child had problems understanding what others say or difficulty learning new things or skills?
Survey Items Used	PC2_K,; PC2_0; PC2_P
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, intellectual disability and/or developmental delay whose parent(s) ever had a developmental concern when child was 9 months of age or older.
Numerator	Yes, parent was concerned that child had problems understanding what others say or difficulty learning new things or skills; No, parent did not have this concern.
Notes for Data-Users	S
things/skills) are age s months old were not a reported that the deve	child's learning (problems understanding what others say or difficulties learning new specific. Therefore, parents who had a developmental concern before the child was 9 asked questions about learning developmental concerns. CSHCN whose parents elopmental concern was present before the child or parent entered the family, or the cerned are also not included in the denominator.
SAS Code and Anno	otation
PC1=93,94,95,96 OR IF PC2_K = 1 OR PC	PC2_K = .L if PC1=93,94,95,96 OR PC_AGE <= 9mo; PC2_O,P = .L if .PC_AGE <= 12mo */ 2_O = 1 OR PC2_P = 1 THEN PC_LEARN_11 = 1; C2_O in (0,.L) AND PC2_P in (0,.L) THEN PC_LEARN_11 = 2;
—	$C2_O = .L \text{ AND } PC2_P = .L \text{ THEN } PC_LEARN_11 = .L;$
—	11 = "Parent was concerned that child had problems understanding what others say or
value yn	
1 = "yes"	

Parent concerned that child had unusual gestures or movements	
Description	Among CSHCN whose parents had a developmental concern, was parent concerned that child had unusual gestures or movements such as hand-flapping, toe-walking, or self-spinning?
Survey Items Used	PC2_Q
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, intellectual disability and/or developmental delay whose parent(s) ever had a developmental concern when child was 12 months of age or older.
Numerator	Yes, parent was concerned that child had unusual gestures or movements; No, parent did not have this concern
Notes for Data-User	S
who had a developme unusual gesture/move	child's gestures (unusual gestures or movements) are age specific. Therefore, parents ental concern before the child was 12 months old were not asked questions about ement concerns. CSHCN whose parents reported that the developmental concern was ild or parent entered the family, or the parent was never concerned are also not ninator.
SAS Code and Annotation	
PC_GEST_11=PC2_ IF PC2_Q in (6,7) the IF PC2_Q = 0 then P0	— —

LABEL PC\_GEST\_11 = "Parent was concerned that child had unusual gestures or movements such as hand-flapping, toe-walking, or self-spinning?";

value yn

1 = "yes"

	Parent concerned that child had medical problems
Description	Among CSHCN whose parents had a developmental concern, was parent concerned that child had medical problems such as seizures, lack of physical growth, or stomach problems?
Survey Items Used	PC2_A
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, intellectual disability or developmental delay whose parent(s) ever had a developmental concern after child was born.
Numerator	Yes, parent concerned that child had medical problems; No, parent did not have this concern
Notes for Data-Users	S
forms) are age specifi at the time the child w whose parents report	child's medical (problems making eye contact, responding, and other communication ic. Therefore, parents who had a developmental concern before the child was born or vas born were not asked questions about non-verbal developmental concerns. CSHCN ed that the developmental concern was present before the child or parent entered the vas never concerned are also not included in the denominator.
Revisions	
N/A	
SAS Code and Annotation	
IF PC2_A in (6,7) the IF PC2_A = 0 then PC	C_MED_11 = 2; = "Parent was concerned that child had medical problems such as seizures, lack of

Description	Who first had concerns that something was not right with child's development?
Survey Items Used	PC3, PC4
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability whose parents had a developmental concern
Numerator	Person who first had concern that something was not right with child's development: Parent; Health Care Professional; Teacher, Counselor, or Nurse at School; Other
Notes for Data-Users	S
N/A	
SAS Code and Anno	otation
TALK_1ST_11 = .;/*A	mong those with concern if PC1>1*/
IF PC3 = 1 AND REL	ATIONR IN (1,2) THEN TALK_1ST_11 = 1; /*PARENT*/
	EN TALK_1ST_11 = 1;
	ALK_1ST_11 = 2;
. ,	EN TALK_1ST_11 = 3; /*TEACHER SCHOOL COUNCELOR NURSE*/
	ATIONR = 3 THEN TALK_1ST_11 = 4; /*OTHER*/
	HEN TALK_1ST_11 = 4;/*OTHER*/
	K_1ST_11 = .L; /*Respondent not concerned/concern present before child/parent n/concern present at/before birth*/
	1 = "Among parents with any developmental concern, person who first had concern ot right with child's development";
value TALK_1ST	
_	
1 = "Parent"	essional"
value TALK_1ST 1 = "Parent" 2 = "Health Care Prof 3 = "Teacher, Council	essional" lor, or Nurse at school"

Age first talked to doctor	
Description	What was child's age when parent first talked to a doctor or health care provider about their concerns?
Survey Items Used	PC6; PC6A
Denominator	CSHCN ages 6-17 years with current autism spectrum disorder, developmental delay, and/or intellectual disability whose parents had a developmental concern
Numerator	Child's age when parent talked to a doctor or health care provider about their concern: Before birth - 11 months; 12-23 months; 24-47 months; 48+ months
Notes for Data-User	S
N/A	
SAS Code and Anno	otation
TALK_AGE_11 = .; /* IF TALK_YR GE 0 TH IF TALK_YR GE 1 TH IF TALK_YR GE 2 TH IF TALK_YR GE 4 TH IF TALK_YR GE 4 TH IF TALK_YR = .L THE	LK_YR = .L; /*No concern*/ .L includes PC1=95 and PC5 = 0 (no)*/ HEN TALK_AGE_11 = 1; /* Before birth - <1yr*/ HEN TALK_AGE_11 = 2; /* 1 - <2yrs old*/ HEN TALK_AGE_11 = 3; /* 2 - <4yrs old*/ HEN TALK_AGE_11 = 4; /* 4+ yrs old*/ THEN TALK_AGE_11 = 5; /*Did not see DR*/ EN TALK_AGE_11 = .L;
	1 = "Child's age when parent talked to a dr/health care provider about their concern";
value TALK_AGE 1 = "Before birth - 11 2 = "12 - 23 months" 3 = "24 - 47 months"	months"
4 = "48+ months";	

Child's parent talked to a doctor about their concerns	
Description	Did parent talk to a doctor or health care provider about their concerns?
Survey Items Used	PC5
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, or intellectual disability whose parents had a developmental concern
Numerator	Yes, parent talked to doctor about concern; Parent did not talk to doctor about concern
Notes for Data-Users	
N/A	
SAS Code and Anno	otation
TALK_DR_11 = PC5; IF PC5>2 THEN TALK_DR_11 = .; IF PC5=0 THEN TALK_DR_11 = 2; Label TALK_DR_11 = "Parent talked to a doctor or health care provider about their concern";	
value yn 1 = "yes" 2 = "no";	

Doctor or health care provider conducted a developmental test	
Description	After parent expressed concerns, did the doctor or health care provider conduct a developmental test?
Survey Items Used	PC7_AR01
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, intellectual disability and/or developmental delay whose parents expressed developmental concerns to the doctor or health care provider.
Numerator	Yes, doctor conducted developmental test; No, developmental test was not conducted
Notes for Data-Users	S
N/A	
SAS Code and Anno	otation
<pre>/*PC7_AR0X = .L if PC1 = 95 and if PC5 in 0,6*/ DR_TEST_11 = PC7_AR01; IF PC7_AR01 in (6,7) THEN DR_TEST_11 = .; IF PC7_AR01 = 0 THEN DR_TEST_11 = 2; LABEL DR_TEST_11 = "Doctor or health care provider conducted a developmental test when parent had a developmental concern";</pre>	
value yn 1 = "yes" 2 = "no";	

Doctor or health care provider referred child to a specialist	
Description	After parent expressed concerns, did doctor or health care provider refer the child to a specialist?
Survey Items Used	PC7_AR02
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, intellectual disability or developmental delay whose parents expressed developmental concerns to the doctor or health care provider.
Numerator	Yes, doctor referred child to a specialist; No referral made
Notes for Data-Users	
N/A	
SAS Code and An	notation
DR_REFER_11 = PC7_AR02; IF PC7_AR02 in (6,7) THEN DR_REFER_11 = .; IF PC7_AR02 = 0 THEN DR_REFER_11 = 2; LABEL DR_REFER_11 = "Doctor or health care provider made a referral to a specialist when parent had a developmental concern";	
value yn 1 = "yes"	

Doctor or health care provider suggested parents talk with child's school	
Description	After parent expressed concerns, did the doctor or health care provider suggest that parent talk with the child's school?
Survey Items Used	PC7_AR03
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, intellectual disability or developmental delay whose parents expressed developmental concerns to the doctor or health care provider.
Numerator	Yes, doctor suggested parents talk to child's school; No, suggestion was not made
Notes for Data-Users	
N/A	
SAS Code and An	notation
DR_SCH_11 = PC7_AR03; IF PC7_AR03 in (6,7) THEN DR_SCH_11 = .; IF PC7_AR03 = 0 THEN DR_SCH_11 = 2; LABEL DR_SCH_11 = "Doctor or health care provider suggested that parent talk with the school when parent had a developmental concern"; value yn 1 = "yes" 2 = "no";	

	Doctor or health care provider told parents nothing was wrong
Description	After parent expressed concerns, did the doctor or health care provider say that nothing was wrong or behavior was normal?
Survey Items Used	PC7_AR04
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, intellectual disability or developmental delay whose parents expressed developmental concerns to the doctor or health care provider.
Numerator	Yes, doctor told parents that nothing wrong or behavior was normal; No, doctor did not tell parents that nothing wrong or behavior was normal
Notes for Data-Use	ers
N/A	
SAS Code and An	notation
DR_NORM_11 = PC7_AR04; IF PC7_AR04 in (6,7) THEN DR_NORM_11 = .; IF PC7_AR04 = 0 THEN DR_NORM_11 = 2; LABEL DR_NORM_11 = "Doctor or health care provider said 'nothing was wrong' or 'behavior was normal' when parent had a developmental concern";	
value yn	
1 = "yes" 2 = "no";	

Doctor or health care provider told parents it was too early to tell	
Description	After parent expressed concerns, did the doctor or health care provider tell you that it was too early to tell if this was a developmental concern?
Survey Items Used	PC7_AR05
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, intellectual disability and/or developmental delay whose parents expressed developmental concerns to the doctor or health care provider.
Numerator	Yes, doctor told parents it's too early to tell; No, doctor did not tell parents that it's too early to tell.
Notes for Data-Use	ers
N/A	
SAS Code and Ann	notation
DR_EARLY_11 = PC7_AR05; IF PC7_AR05 in (6,7) THEN DR_EARLY_11 = .; IF PC7_AR05 = 0 THEN DR_EARLY_11 = 2; LABEL DR_EARLY_11 = "Doctor or health care provider said 'it's too early to tell' when parent had a developmental concern";	
value yn	
1 = "yes"	
2 = "no";	

	Doctor or health care provider said child might grow out of it
Description	After parent expressed concerns, did the doctor or health care provider tell you that the child might grow out of it?
Survey Items Used	PC7_AR06
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, intellectual disability or developmental delay whose parents expressed developmental concerns to the doctor or health care provider.
Numerator	Yes, doctor said child might grow out of it; No, doctor did not say child might grow out of it
Notes for Data-Use	rs
N/A	
SAS Code and Ann	otation
DR_GROW_11 = PC7_AR06; IF PC7_AR06 in (6,7) THEN DR_GROW_11 = .; IF PC7_AR06 = 0 THEN DR_GROW_11 = 2; LABEL DR_GROW_11 = "Doctor or health care provider said the child might 'grow out of it' when parent had a developmental concern"; /*Don't need to include OTHER*/	
value yn 1 = "yes" 2 = "no";	

Child's parent talked to school about their concerns	
Description	Did parent talk to teacher, school nurse, school counselor, or other school professional about their concern?
Survey Items Used	PC8
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, intellectual disability and/or developmental delay whose parents had a developmental concern
Numerator	Yes, parent talked to teacher, school nurse, school counselor, or other school professional about their concern; No, parent did not talk to teacher, school nurse, school counselor, or other school professional about their concern
Notes for Data-Us	ers
N/A	
SAS Code and An	notation
TALK_SCH_11 = F	
IF PC8>2 THEN TA	
IF PC8=0 THEN TALK_SCH_11 = 2; Label TALK_SCH_11 = "Parent talked to teacher, school nurse, school counselor, or other school professional about their concern";	
value yn	
1 = "yes"	
2 = "no";	

# **Developmental Concerns**

Developmental screening	
Description	Was a developmental screening or assessment completed by the parent, doctor, or health care provider?
Survey Items Used	PC7_B; PC7_C; PC7_D; PC7_E; PC7_F; PC7_G; PC7_H
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, intellectual disability or developmental delay whose parent(s) had developmental concern before the child was 6 years old.
Numerator	Developmental screening or assessment completed by parent/health provider: Had screening; No screening; Did not talk to doctor or provider
Notes for Data-Use	rs
N/A	
SAS Code and Ann	otation
PC_SCR_11 = .; IF SCR_P_11 = 2 OR SCR_DR_11 = 2 THEN PC_SCR_11 = 2;/*Neither*/ IF SCR_P_11 = 1 OR SCR_DR_11 = 1 THEN PC_SCR_11 = 1;/*Parent and/or Physician completed*/ IF SCR_P_11 = . AND SCR_DR_11 = . THEN PC_SCR_11 = .;/*DK/Ref*/ IF SCR_P_11 = .L AND SCR_DR_11 = .L THEN PC_SCR_11 = .L;/*Legitimate Skip*/ IF PC7_B = .L THEN PC_SCR_11 = 3; /*Didn't talk to Dr/provider about concerns when child was <6yrs old*/ LABEL PC_SCR_11 = "Developmental screening or assessment completed by parent/health provider or none completed";	
<pre>value PC_SCR 1 = "Completed Screening" 2 = "No Screening" 3 = "Didn't talk to DR/provider" 6 = "DK";</pre>	

# **Developmental Concerns**

Physician completed a developmental screener		
Description	Did doctor or health care provider complete a developmental screening or assessment of child?	
Survey Items Used	PC7_G; PC7_H	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability whose parent(s) had a developmental concern before the child was 6 years old	
Numerator	Yes, physician completed screener; No, physician did not complete screener	
Notes for Data-Use	rs	
N/A		
SAS Code and Annotation		
SCR_DR_11 = .; /*Physician completed screener/assessment - among those who talked to a dr/hcp*/ IF PC7_G = 6 OR PC7_H = 6 THEN SCR_DR_11 = .;/*Any DK*/ IF PC7_G = 0 OR PC7_H = 0 THEN SCR_DR_11 = 2;/*No*/ IF PC7_G = 1 OR PC7_H = 1 THEN SCR_DR_11 = 1;/*Yes*/ IF PC7_G = .L AND PC7_H = .L THEN SCR_DR_11 = .L;/*Legitimate Skip*/ Label SCR_DR_11 = "Physician completed screener/assessment";		
value yn 1 = "yes" 2 = "no";		

# **Developmental Concerns**

Parent completed a developmental screener		
Description	Did parent complete a developmental screening or assessment of child?	
Survey Items Used	PC7_B; PC7_C; PC7_D; PC7_E; PC7_F	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, intellectual disability and/or developmental delay whose parent(s) ever talked to a health care provider about their developmental concern before the child was 6 years old	
Numerator	Yes, parent completed screener; No parent did not complete screener	
Notes for Data-Use	rs	
N/A		
SAS Code and Ann	otation	
SCR_P_11 = .; /*Parent completed screener/assessment - among those who talked to a dr/hcp*/ If PC7_B = .L AND PC7_C = .L AND PC7_E = .L AND PC7_D = .L AND PC7_F = .L THEN SCR_P_11 = .L; /*Legitimate Skip*/ If PC7_B in (1,6) OR PC7_C in (1,6) OR PC7_E in (1,6) OR PC7_D in (1,6) OR PC7_F in (1,6) THEN SCR_P_11 = .;/*Completed scr/asses. not sure of content*/ IF PC7_B = 1 AND (PC7_C = 1 OR PC7_E = 1) AND (PC7_D = 1 OR PC7_F = 1) THEN SCR_P_11 = 1;/* Yes*/ IF PC7_B = 0 OR (PC7_C = 0 OR PC7_E = 0) OR (PC7_D = 0 OR PC7_F = 0) THEN SCR_P_11 = 2;/*No*/ Label SCR_P_11 = "Parent completed screener/assessment";		
value yn 1 = "yes" 2 = "no";		

Child's age	Child's age when parent first told that child had one of three developmental conditions		
Description	Age at which child was first told they had any of 3 developmental conditions		
Survey Items Used	How old was child when you were first told he/she had any of 3 conditions: autism spectrum disorder, developmental delay and/or intellectual disability?		
Survey Items Used	DE_AUT2; DE_AUT2A; DE_DEV2; DE_DEV2A; DE_INT2; DE_INT2A		
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability		
Numerator	Child's age when parent first told: 0-2 years old; 3-5 years old; 6-17 years old		
Notes for Data-Use	rs		
N/A			
SAS Code and Ann	otation		
AUT_AGE_11 = .; IF AUT_AGE_all GE 0 THEN AUT_AGE_11 = 1; /* Before birth - <1yrs old*/ IF AUT_AGE_all GE 1 THEN AUT_AGE_11 = 1; /* 1 - 2yrs old*/ IF AUT_AGE_all GE 3 THEN AUT_AGE_11 = 2; /* 3 - 5 yrs old*/ IF AUT_AGE_all GE 6 THEN AUT_AGE_11 = 3; /* 6+yrs old*/ IF DE_AUT2 = .L then AUT_AGE_11 = .L; LABEL AUT_AGE_11 = "Age when parent was first told by Dr that child had ASD (ever and current diagnosis)";			
DEV_AGE_all = .; IF DE_DEV2A = 2 THEN DEV_AGE_all = DE_DEV2; /*Age in yrs*/ IF DE_DEV2A = 1 THEN DEV_AGE_all = DE_DEV2/12; /*Age in yrs*/ DEV_AGE_11 = .; IF DEV_AGE_all GE 0 THEN DEV_AGE_11 = 1; /* Before birth - <1yrs old*/ IF DEV_AGE_all GE 1 THEN DEV_AGE_11 = 1; /* 1 - 2yrs old*/ IF DEV_AGE_all GE 3 THEN DEV_AGE_11 = 2; /* 3 - 5yrs old*/ IF DEV_AGE_all GE 6 THEN DEV_AGE_11 = 3; /* 6+yrs old*/ IF DEV_AGE_all GE 6 THEN DEV_AGE_11 = .L; LABEL DEV_AGE_11 = "Age when parent was first told by Dr that child had Developmental Delay (ever and current diagnosis)";			
INT_AGE_all = .; IF DE_INT2A = 2 THEN INT_AGE_all = DE_INT2; /*Age in yrs*/			

IF DE INT2A = 1 THEN INT AGE all = DE INT2/12; /\*Age in yrs\*/ INT AGE 11 = .; IF INT\_AGE\_all GE 0 THEN INT\_AGE\_11 = 1; /\* Before birth - <1yrs old\*/ IF INT\_AGE\_all GE 1 THEN INT\_AGE\_11 = 1; /\* 1 - 2yrs old\*/ IF INT AGE all GE 3 THEN INT AGE 11 = 2; /\* 3 - 5yrs old\*/ IF INT\_AGE\_all GE 6 THEN INT\_AGE\_11 = 3; /\* 6+yrs old\*/ IF DE INT2 = .L then INT AGE 11 = .L; LABEL INT AGE 11 = "Age when parent was first told by Dr that child had Intellectual Disability (ever and current diagnosis)"; ANY\_AGE\_11 = .;/\*missing (.) includes all who said DE\_X2 = 95, 96 to all conditions child currently has\*/ IF AUT AGE 11 = 3 OR INT AGE 11 = 3 OR DEV AGE 11 = 3 THEN ANY AGE 11 = 3; IF AUT AGE 11 = 2 OR INT AGE 11 = 2 OR DEV AGE 11 = 2 THEN ANY AGE 11 = 2; IF AUT AGE 11 = 1 OR INT AGE 11 = 1 OR DEV AGE 11 = 1 THEN ANY AGE 11 = 1; IF AUT AGE 11 = .L AND INT AGE 11 = .L AND DEV AGE 11 = .L THEN ANY AGE 11 = .L; LABEL ANY\_AGE\_11 = "Age when parent was first told by Dr that child EVER had any of 3 developmental condition (ASD, ID, or DD)"; value Dx\_AGE /\* AUT\_AGE\_11, DEV\_AGE\_11, INT\_AGE\_11, ANY\_AGER\_11\*/ 1 = "0-2 years" 2 = "3-5 years" 3 = "6 + years";

	Type of ASD diagnosis	
Description	Did the doctors, health care providers, or school professionals ever tell you that child had any of the 3 conditions: Asperger's, pervasive developmental disorder or autistic disorder?	
Survey Items Used	DE_AUT5A: DE_AUT5B; DE_AUT5C	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder	
Numerator	Types of ASD diagnosis: Asperger's Disorder; Pervasive Developmental Disorder; Autistic Disorder; Multiple diagnosis	
Notes for Data-Use	rs	
N/A		
SAS Code and Ann	otation	
<pre>if DE_AUT5A in (1,0) OR DE_AUT5B in (1,0) OR DE_AUT5C in (1,0) then DX_AUTYP = 5; /*Never told Asperger's, PDD, or Autistic Disorder*/ if DE_AUT5A = 1 then DX_AUTYP_11 = 1; /*Ever told Asperger's Disorder*/ if DE_AUT5B = 1 then DX_AUTYP_11 = 2; /*Ever told PDD*/ if DE_AUT5C = 1 then DX_AUTYP_11 = 3; /*Ever told Autistic Disorder*/ if (DE_AUT5C = 1 then DX_AUTYP_11 = 3; /*Ever told Autistic Disorder*/ if (DE_AUT5A = 1 and DE_AUT5B = 1) or (DE_AUT5A = 1 and DE_AUT5C = 1) or (DE_AUT5B = 1 and DE_AUT5C = 1) then DX_AUTYP_11 = 4; /*Multiple dx*/ if DE_AUT5A =.L then DX_AUTYP_11 = .L; label DX_AUTYP_11 = "Among CSHCN w/Autism, was ever told child had Asperger's, Pervasive Development Disorder, Autistic Disorder, or multiple diagnoses";</pre>		
<pre>value subtype 1 = "Asperger's Disorder" 2 = "Pervasive Developmental Disorder" 3 = "Autistic Disorder" 4 = "Multiple Diagnosis" 5 = "Never told Asperger's, PDD, or Autistic";</pre>		

Ever had Asperger's Disorder		
Description	Did doctors, health care providers, or school professionals ever tell you the child had Asperger's Disorder?	
Survey Items Used	DE_AUT5A	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder	
Numerator	Yes, have been told they have Asperger's Disorder; No, have not been told they have Asperger's Disorder	
Notes for Data-Use	rs	
N/A		
SAS Code and Ann	otation	
ASPERGER_11 = DE_AUT5A; IF DE_AUT5A = 0 THEN ASPERGER_11 = 2; IF DE_AUT5A in (6,7) THEN ASPERGER_11 = .; Iabel ASPERGER_11 = "Among CSHCN w/Autism, parent was ever told child had Asperger's";		
value yn 1 = "yes" 2 = "no";		

Ever had pervasive development disorder		
Description	Did doctors, health care providers, or school professionals ever tell you the child had pervasive development disorder (PDD)?	
Survey Items Used	DE_AUT5B	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder	
Numerator	Yes, have been told they have PDD; No, have not been told they have PDD	
Notes for Data-Users		
N/A		
SAS Code and Annotation		
PDD_11 = DE_AUT5B; IF DE_AUT5B = 0 THEN PDD_11 = 2; IF DE_AUT5B in (6,7) THEN PDD_11 = .; Iabel PDD_11 = "Among CSHCN w/Autism, parent was ever told child had Pervasive Development Disorder";		
value yn 1 = "yes" 2 = "no";		

Ever had autism disorder		
Description	Did doctors, health care providers, or school professionals ever tell you the child had autism disorder?	
Survey Items Used	DE_AUT5C	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder	
Numerator	Yes, have been told they have autism disorder; No, have not been told they have autism disorder	
Notes for Data-Users		
N/A		
SAS Code and Annotation		
AUTDISRD_11 = DE_AUT5C; IF DE_AUT5C = 0 THEN AUTDISRD_11 = 2; IF DE_AUT5C in (6,7) THEN AUTDISRD_11 = .; Iabel AUTDISRD_11 = "Among CSHCN w/Autism, parent was ever told child had Autistic Disorder";		
value yn 1 = "yes" 2 = "no";		

Age when parent was first told child had ASD	
Description	How old was child when you were first told he/she had ASD?
Survey Items Used	DE_AUT2; DE_AUT2A
Denominator	CSHCN age 6-17 years with current autism spectrum disorder
Numerator	Child's age when parent first told: 0-2 years old; 3-5 years old; 6-17 years old

**Notes for Data-Users** 

N/A

#### **SAS Code and Annotation**

/\* Missing (.) includes those who answered DE\_AUT2 as 95= no one told them the child had condition, and 96=DK;\*/

AUT\_AGE\_all = .;

IF DE\_AUT2A = 2 THEN AUT\_AGE\_all = DE\_AUT2; /\*Age in yrs\*/

IF DE\_AUT2A = 1 THEN AUT\_AGE\_all = DE\_AUT2/12; /\*Age in yrs\*/

AUT\_AGE\_11 = .;

IF AUT\_AGE\_all GE 0 THEN AUT\_AGE\_11 = 1; /\* Before birth - <1yrs old\*/

IF AUT\_AGE\_all GE 1 THEN AUT\_AGE\_11 = 1; /\* 1 - 2yrs old\*/

IF AUT\_AGE\_all GE 3 THEN AUT\_AGE\_11 = 2; /\* 3 - 5 yrs old\*/

IF AUT\_AGE\_all GE 6 THEN AUT\_AGE\_11 = 3; /\* 6+yrs old\*/

IF DE\_AUT2 = .L then AUT\_AGE\_11 = .L;

LABEL AUT\_AGE\_11 = "Age when parent was first told by Dr that child had ASD (ever and current diagnosis)";

AUT\_AGER\_11 = AUT\_AGE\_11;

IF DX\_AUT\_11 = 2 AND AUT\_AGE\_11 GE 1 THEN AUT\_AGER\_11 = .M;

LABEL AUT\_AGER\_11 = "Age when parent was first told by Dr that child had ASD (current diagnosis only)";

value Dx\_AGE 1 = "0-2 years" 2 = "3-5 years"

- 2 = ||C| + ||c| = ||c||
- 3 = "6+ years";

Child's parents were told child did not have ASD		
Description	Has a doctor, health care provider, or school professional ever told you that child did not have autism spectrum disorder (ASD) since learning he/she had ASD?	
Survey Items Used	DE_AUT6	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder	
Numerator	Yes, have been told since having ASD that they do not have ASD; No, have never been told they do not have ASD	
Notes for Data-User	S	
N/A		
SAS Code and Annotation		
NO_AUT_11 = .; if DE_AUT6 = 1 then NO_AUT_11 = 1; if DE_AUT6 = 0 then NO_AUT_11 = 2; if DE_AUT6 = .L then NO_AUT_11 = .L; Label NO_AUT_11 = "Parents who were ever told by a doctor, health care provider, or school professional that child did not have autism or ASD since child was first diagnosed";		
value yn /*NO_AUT_11*/		
1 = "yes" 2 = "no";		

Type of doctor who first diagnosed ASD		
Description	What type of doctor first diagnosed child with autism spectrum disorder?	
Survey Items Used	DE_AUT1R	
Denominator	CSHCN ages 6-17 years with current autism spectrum disorder	
Numerator	Type of health care provider: Pediatrician or family health care practitioner; Psychologist; Specialist; Multidisciplinary team/Other	
Notes for Data-User	S	
N/A		
SAS Code and Anno	otation	
DRDX_AUT_11 = .;/*	Missing includes (14)never told child had condition, (96)dk*/	
if DE_AUT1R in (1,2) then DRDX_AUT_11 = 1;/*(1)Pediatrician/pediatric HCP,NP or PA; (2)Other HCP, Fam practice dr/NP/PA*/		
if DE_AUT1R in (4,5) then DRDX_AUT_11 = 2;/*(4)School psychologist/counselor (5)Psycologist, non- school*/		
if DE_AUT1R in (3,6,7,10) then DRDX_AUT_11 = 3;/*(3)Pediatric specialist; (6)Psychiatrist, medical dr; (7)Neurologist; (10)Specialist dr (other than dev pediatrician, psychiatrist, neurologist */		
if DE_AUT1R = 13 then DRDX_AUT_11 = 4;/*(13)Team of professionals/multidisciplinary team*/		
if DE_AUT1R in (8,9,11,12) then DRDX_AUT_11 = 4;/*(8)School nurse, (9) Phys/occ/speech/other therapist, (11)Other*/		
if $DE_AUT1R = .L$ then $DRDX_AUT_11 = .L$ ;		
LABEL DRDX_AUT_	11 = "Health care provider who first gave Autism diagnosis (ever & current diagnosis)";	
DrDxAUTR = DRDX_	AUT_11;	
IF DX_AUT_11 = 2 A	ND DRDX_AUT_11 GE 1 THEN DrDxAUTR = .M;	
LABEL DrDxAUTR = "Health care provider who first gave Autism diagnosis (current diagnosis only)";		
value DRTYP /*DRDX_AUT_11*/		
1 = "Pediatrician or Pediatric/Family HCP"		
2 = "Psychologist"		
3 = "Specialist Dr"		
4 = "Multidisciplinary Team/Other";		

Age at which parent was first told child had developmental delay		
Description	How old was child when you were first told he/she had developmental delay?	
Survey Items Used	DE_DEV2; DE_DEV2A	
Denominator	CSHCN age 6-17 years with current developmental delay	
Numerator	CSHCN who were first told they had developmental delay: 0-2 years old; 3-5 years old; 6-17 years old	
Notes for Data-Users	S	
N/A		
SAS Code and Anno	otation	
<pre>/* Missing (.) includes those who answered DE_DEV2 as 95= no one told them the child had condition, and 96=DK*/ DEV_AGE_all = .; IF DE_DEV2A = 2 THEN DEV_AGE_all = DE_DEV2; /*Age in yrs*/ IF DE_DEV2A = 1 THEN DEV_AGE_all = DE_DEV2/12; /*Age in yrs*/ DEV_AGE_11 = .; IF DEV_AGE_all GE 0 THEN DEV_AGE_11 = 1; /* Before birth - &lt;1yrs old*/ IF DEV_AGE_all GE 1 THEN DEV_AGE_11 = 1; /* 1 - 2yrs old*/ IF DEV_AGE_all GE 3 THEN DEV_AGE_11 = 2; /* 3 - 5yrs old*/ IF DEV_AGE_all GE 6 THEN DEV_AGE_11 = 3; /* 6+yrs old*/ IF DEV_AGE_all GE 6 THEN DEV_AGE_11 = .L; LABEL DEV_AGE_11 = "Age when parent was first told by Dr that child had Developmental Delay (ever and current diagnosis)";</pre>		
DEV_AGER_11 = DEV_AGE_11; IF DX_DEV_11 = 2 AND DEV_AGE_11 GE 1 THEN DEV_AGER_11 = .; LABEL DEV_AGER_11 = "Age when parent was first told by Dr that child had ASD (current diagnosis only)"; value Dx_AGE /*DEV_AGE_11*/ 1 = "0-2 years" 2 = "3-5 years" 3 = "6+ years";		

Child's parents were told child did not have developmental delay		
Description	Has a doctor, health care provider, or school professional ever told you that child did not have developmental delay since learning he/she had developmental delay?	
Survey Items Used	DE_DEV6	
Denominator	CSHCN 6-17 years old with current developmental delay	
Numerator	Yes, have been told since having developmental delay (DD) that they do not have DD; No, have never been told that they do not have DD	
Notes for Data-User	S	
N/A		
SAS Code and Annotation		
NO_DEV_11 = .; if DE_DEV6 = 1 THEN NO_DEV_11 = 1; if DE_DEV6 = 0 THEN NO_DEV_11 = 2; if DE_DEV6 = .L THEN NO_DEV_11 = .L; Label NO_DEV_11 = "Parents who were ever told by a doctor, health care provider, or school professional that child did not have developmental delay since child was first diagnosed";		
value yn /*NO_DEV_11*/		
1 = "yes" 2 = "no";		

	Type of doctor who first diagnosed developmental delay	
Description	What type of doctor first diagnosed child with developmental delay?	
Survey Items Used	DE_DEV1R	
Denominator	CSHCN 6-17 years old with current developmental delay	
Numerator	Type of health care provider: Pediatrician or family health care practitioner; Psychologist; Specialist; Multidisciplinary team/Other	
Notes for Data-User	S	
N/A		
SAS Code and Anno	otation	
DRDX DEV 11 = .;/*	Missing includes (14)never told child had condition, (96)dk*/	
if DE_DEV1R in (1,2) then DRDX_DEV_11 = 1;/*(1)Pediatrician/pediatric HCP,NP or PA; (2)Other HCP, Fam practice dr/NP/PA*/		
if DE_DEV1R in (4,5) then DRDX_DEV_11 = 2;/*(4)School psychologist/counselor (5)Psycologist, non-school*/		
if DE_DEV1R in (3,6,7,10) then DRDX_DEV_11 = 3;/*(3)Pediatric specialist; (6)Psychiatrist, medical dr; (7)Neurologist; (10)Specialist dr (other than dev pediatrician, psychiatrist, neurologist */		
if DE_DEV1R = 13 then DRDX_DEV_11 = 4;/*(13)Team of professionals/multidisciplinary team*/		
if DE_DEV1R in (8,9,11,12) then DRDX_DEV_11 = 4;/*(8)School nurse, (9) Phys/occ/speech/other therapist, (11)Other*/		
if DE_DEV1R = .L then DRDX_DEV_11 = .L;		
LABEL DRDX_DEV_11 = "Health care provider who first gave Developmental Delay diagnosis (ever & current diagnosis) ";		
DrDxDEVR = DRDX_	_DEV_11;	
IF DX_DEV_11 = 2 AND DRDX_DEV_11 GE 1 THEN DrDxDEVR = .M;		
LABEL DrDxDEVR = "Health care provider who first gave Developmental Delay diagnosis (current diagnosis only)";		
value DRTYP /*DRDX_DEV_11*/		
1 = "Pediatrician or Pe	1 = "Pediatrician or Pediatric/Family HCP"	
2 = "Psychologist"		
3 = "Specialist Dr"		
4 = "Multidisciplinary Team/Other";		

Age at which parent was first told child had intellectual disability		
Description	How old was child when you were first told he/she had intellectual disability?	
Survey Items Used	DE_INT2; DE_INT2A	
Denominator	CSHCN age 6-17 years with current intellectual disability	
Numerator	CSHCN who were first told they had intellectual disability at: 0-2 years old; 3-5 years old; 6-17 years old	
Notes for Data-Users	S	
N/A		
SAS Code and Anno	otation	
/* Missing (.) includes 96=DK;	those who answered DE_INT2 as 95= no one told them the child had condition, and	
stocht, should we include 95 as (.), or .L, or does it matter?*/ INT_AGE_all = .; IF DE_INT2A = 2 THEN INT_AGE_all = DE_INT2; /*Age in yrs*/ IF DE_INT2A = 1 THEN INT_AGE_all = DE_INT2/12; /*Age in yrs*/ INT_AGE_11 = .; IF INT_AGE_all GE 0 THEN INT_AGE_11 = 1; /* Before birth - <1yrs old*/ IF INT_AGE_all GE 1 THEN INT_AGE_11 = 1; /* 1 - 2yrs old*/ IF INT_AGE_all GE 3 THEN INT_AGE_11 = 2; /* 3 - 5yrs old*/ IF INT_AGE_all GE 6 THEN INT_AGE_11 = 3; /* 6+yrs old*/ IF INT_AGE_all GE 6 THEN INT_AGE_11 = .L; LABEL INT_AGE_11 = "Age when parent was first told by Dr that child had Intellectual Disability (ever and current diagnosis)";		
INT_AGER_11 = INT_AGE_11; IF DX_INT_11 = 2 AND INT_AGE_11 GE 1 THEN INT_AGER_11 = .M; LABEL INT_AGER_11 = "Age when parent was first told by Dr that child had ASD (current diagnosis only)"; value Dx_AGE /*INT_AGE_11*/ 1 = "0-2 years" 2 = "3-5 years" 3 = "6+ years";		

Child's parents were told child did not have intellectual disability		
Description	Has a doctor, health care provider, or school professional ever told you that child did not have intellectual disability since learning he/she had intellectual disability?	
Survey Items Used	DE_INT6	
Denominator	CSHCN 6-17 years old with current intellectual disability	
Numerator	Yes, have been told since having intellectual disability (ID) that they do not have ID; No, have never been told that they do not have ID	
Notes for Data-Users	S	
N/A		
SAS Code and Annotation		
NO_INT_11 = .; if DE_INT6 = 1 then NO_INT_11 = 1; if DE_INT6 = 0 then NO_INT_11 = 2; if DE_INT6 = .L then NO_INT_11 = .L; Label NO_INT_11 = "Parents who were ever told by a doctor, health care provider, or school professional that child did not have intellectual disability since child was first diagnosed";		
value yn /*NO_INT_11*/		
1 = "yes" 2 = "no";		

Type of doctor who first diagnosed intellectual disability		
Description	What type of doctor first diagnosed child with intellectual disability?	
Survey Items Used	DE_INT1R	
Denominator	CSHCN ages 6-17 years with current intellectual disability	
Numerator	Type of health care provider: Pediatrician or family health care practitioner; Psychologist; Specialist; Multidisciplinary team/Other	
Notes for Data-Users	S	
N/A		
SAS Code and Anno	otation	
DRDX INT 11 = .:/*M	/issing includes (14) never told child had condition, (96)dk*/	
if DE_INT1R in (1,2) then DRDX_INT_11 = 1;/*(1)Pediatrician/pediatric HCP,NP or PA; (2)Other HCP, Fam practice dr/NP/PA*/		
if DE INT1R in (4,5) t	hen DRDX_INT_11 = 2;/*(4)School psychologist/counselor (5)Psycologist, non-school*/	
if DE_INT1R in (3,6,7,10) then DRDX_INT_11 = 3;/*(3)Pediatric specialist; (6)Psychiatrist, medical dr; (7)Neurologist; (10)Specialist dr (other than dev pediatrician, psychiatrist, neurologist */		
if DE_INT1R = 13 then DRDX_INT_11 = 4;/*(13)Team of professionals/multidisciplinary team*/		
if DE_INT1R in (8,9,11,12) then DRDX_INT_11 = 4;/*(8)School nurse, (9) Phys/occ/speech/other therapist, (11)Other*/		
if DE_INT1R = .L then DRDX_INT_11 = .L;		
LABEL DRDX_INT_11 = "Health care provider who first gave Intellectual Disability diagnosis (ever & current diagnosis)";		
DrDxINTR = DRDX_II	NT_11;	
IF DX_INT_11 = 2 AN	ID DRDX_INT_11 GE 1 THEN DrDxINTR = .M;	
LABEL DrDxINTR = "Health care provider who first gave Intellectual Disability diagnosis (current diagnosis only)";		
value DRTYP /*DRDX_INT_11*/		
1 = "Pediatrician or Pediatric/Family HCP"		
2 = "Psychologist"		
3 = "Specialist Dr"		
4 = "Multidisciplinary Team/Other";		

Health and Education Services		
Number of health and related services used		
Description	How many CSHCN currently use one or more health care services on regular basis to meet their developmental needs, out of 7 types of health services?	
Survey Items Used	HCS1_A; HCS1_A_2; HCS1_B; HCS1_B_2; HCS1_C; HCS1_C_2; HCS1_D; HCS1_D_2; HCS1_F; HCS1_F_2; HCS1_G; HCS1_G_2; HCS1_H; HCS1_H_2; HCS1_I; HCS1_I_2; HCS1_J; HCS1_J_2; HCS1_K; HCS1_K_2	
Denominator	CSHCN ages 6-17 years with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	No health care services used; 1 health care service used; 2 health care services used; 3+ health care services used	
Notes for Data-User	S	
15% of survey respon	ndents had missing values for between 1 and 6 of the 7 possible services from the list	
SAS Code and Anno	otation	
<pre>array var_hcs {*} HCS_BI_11 HCS_SI_11 HCS_CT_11 HCS_OT_11 HCS_PT_11 HCS_ST_11 HCS_LT_11; anyhcs = 0; missh_m = 0; missh_l = 0; do i = 1 to dim(var_pct); if var_hcs(i) = 1 then anyhcs = anyhcs + 1; if var_hcs(i) = . then missh_m = missh_m + 1; if var_hcs(i) = . then missh_l = missh_l + 1; end; drop i;</pre>		
HCS_COUNT_11 = anyhcs; IF anyhcs GE 3 THEN HCS_COUNT_11 = 3; IF missh_m = 7 THEN HCS_COUNT_11 = .; /*missing if any DK/REF*/ IF missh_I = 7 THEN HCS_COUNT_11 = .L; /*had .L for all types of concerns*/ LABEL HCS_COUNT_11 = "Currently use 3 or more of 7 types of health care services to meet their developmental needs";		
value count_three /*H 0 = "None" 1 = "One" 2 = "Two"	ICS_COUNT_11*/	

3 = "Three or more";

Currently use behavioral intervention or modification services		
Description	Does child currently use behavioral intervention or modification services on a regular basis?	
Survey Items Used	HCS1_A; HCS1_A_2	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Yes, uses this type of service; No, does not use this type of service	
Notes for Data-Users		
N/A		
SAS Code and Annotation		
HCS_BI_11 = .; /*No .L's*/ IF HCS1_A_2 = 1 THEN HCS_BI_11 = 1; IF HCS1_A_2 = 0 OR HCS1_A = 0 THEN HCS_BI_11 = 2; LABEL HCS_BI_11 = "Currently use behavioral intervention or modification services on a regular basis";		
value yn		
1 = "yes" 2 = "no";		

Currently use sensory integration therapy		
Description	Does child currently use sensory integration therapy on a regular basis?	
Survey Items Used	HCS1_B; HCS1_B_2	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Yes, uses this type of service; No, does not use this type of service	
Notes for Data-User	S	
N/A		
SAS Code and Annotation		
HCS_SI_11 = .; /*No .L's*/ IF HCS1_B_2 = 1 THEN HCS_SI_11 = 1; IF HCS1_B_2 = 0 OR HCS1_B = 0 THEN HCS_SI_11 = 2; LABEL HCS_SI_11 = "Currently use sensory integration therapy on a regular basis";		
value yn 1 = "yes" 2 = "no";		

Currently use cognitive based therapy		
Description	Does child currently use cognitive based therapy on a regular basis?	
Survey Items Used	HCS1_C; HCS1_C_2	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Yes, uses this type of service; No, does not use this type of service	
Notes for Data-Users	S	
N/A		
SAS Code and Annotation		
HCS_CT_11 = .; /*No .L's*/ IF HCS1_C_2 = 1 THEN HCS_CT_11 = 1; IF HCS1_C_2 = 0 OR HCS1_C = 0 THEN HCS_CT_11 = 2; LABEL HCS_CT_11 = "Currently use cognitive based therapy on a regular basis";		
value yn		
1 = "yes" 2 = "no";		

Currently use occupational therapy		
Description	Does child currently use occupational therapy on a regular basis?	
Survey Items Used	HCS1_D; HCS1_D_2	
Denominator	CSHCN ages 6-17 years with current ASD, ID and/or DD	
Numerator	Yes, uses this type of service; No, does not use this type of service	
Notes for Data-User	S	
N/A		
SAS Code and Annotation		
HCS_OT_11 = .; /*No .L's*/ IF HCS1_D_2 = 1 OR HCS1_E_2 = 1 THEN HCS_OT_11 = 1; IF (HCS1_D_2 = 0 OR HCS1_D = 0) AND (HCS1_E_2 = 0 OR HCS1_E = 0) THEN HCS_OT_11 = 2; LABEL HCS_OT_11 = "Currently use occupational therapy on a regular basis";		
value yn		
1 = "yes" 2 = "no";		

Currently use physical therapy		
Description	Does child currently use physical therapy on a regular basis?	
Survey Items Used	HCS1_F; HCS1_F_2; HCS1_G; HCS1_G_2	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Yes, uses this type of service; No, does not use this type of service	
Notes for Data-User	S	
N/A		
SAS Code and Annotation		
HCS_PT_11 = .; /*No .L's*/ IF HCS1_F_2 = 1 OR HCS1_G_2 = 1 THEN HCS_PT_11 = 1; IF (HCS1_F_2 = 0 OR HCS1_F = 0) AND (HCS1_G_2 = 0 OR HCS1_G = 0) THEN HCS_PT_11 = 2; LABEL HCS_PT_11 = "Currently use physical therapy on a regular basis";		
value yn		
1 = "yes" 2 = "no";		

Currently use social skills training		
Description	Does child currently use social skills training on a regular basis?	
Survey Items Used	HCS1_H; HCS1_H_2; HCS1_I; HCS1_I_2	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder (ASD), developmental delay (DD), and/or intellectual disability (ID)	
Numerator	Yes, uses this type of service; No, does not use this type of service	
Notes for Data-User	S	
N/A		
SAS Code and Annotation		
HCS_ST_11 = .; /*No .L's*/ IF HCS1_H_2 = 1 OR HCS1_I_2 = 1 THEN HCS_ST_11 = 1; IF (HCS1_H_2 = 0 OR HCS1_H = 0) AND (HCS1_I_2 = 0 OR HCS1_I = 0) THEN HCS_ST_11 = 2; LABEL HCS_ST_11 = "Currently use social skills training on a regular basis";		
value yn		
1 = "yes" 2 = "no";		

Currently use speech or language therapy	
Description	Does child currently use speech or language therapy on a regular basis?
Survey Items Used	HCS1_J; HCS1_J_2; HCS1_K; HCS1_K_2
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability
Numerator	Yes, uses this type of service; No, does not use this type of service
Notes for Data-Users	
N/A	
SAS Code and Annotation	
HCS_LT_11 = .; /*No .L's*/ IF HCS1_J_2 = 1 OR HCS1_K_2 = 1 THEN HCS_LT_11 = 1; IF (HCS1_J_2 = 0 OR HCS1_J = 0) AND (HCS1_K_2 = 0 OR HCS1_K = 0) THEN HCS_LT_11 = 2; LABEL HCS_LT_11 = "Currently use speech or language therapy on a regular basis";	
value yn	
1 = "yes" 2 = "no";	

Number of providers children currently work with		
Description	How many CSHCN currently work with one or more providers of health and related services to meet their developmental needs out of 8 types of providers?	
Survey Items Used	HCS2_A; HCS2_A_2; HCS2_B; HCS2_B_2; HCS2_C; HCS2_C_2; HCS2_D: HCS2_D_2; HCS2_E; HCS2_E_2; HCS2_E; HCS2_E_2; HCS2_F; HCS2_F_2; HCS2_G; HCS2_G_2; HCS2_H; HCS2_H_2	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	No providers currently seen; 1 provider currently seen; 2 or more providers currently seen	
Notes for Data-User	S	
N/A		
SAS Code and Anno	otation	
/*Current DR*/ Dr_NUM = 0; IF AUDIOLOG_11 = 1 THEN Dr_NUM + 1; IF DEVPED_11 = 1 THEN Dr_NUM + 1; IF NEUROLOG_11 = 1 THEN Dr_NUM + 1; IF NURSE_11 = 1 THEN Dr_NUM + 1; IF PSYCHIAT_11 = 1 THEN Dr_NUM + 1; IF PSYCHLOG_11 = 1 THEN Dr_NUM + 1; IF SOCWORK_11 = 1 THEN Dr_NUM + 1; Dr_COUNT_11 = Dr_NUM; IF Dr_COUNT_11 > 2 THEN Dr_COUNT_11 = 2;/* 2 or more*/ IF AUDIOLOG_11 = .AND DEVPED_11 = .AND NEUROLOG_11 = .AND NUTRITN_11 = .AND NURSE_11 = .AND PSYCHIAT_11 = .AND PSYCHLOG_11 = .AND SOCWORK_11 = .THEN Dr_COUNT_11 = :: LABEL Dr_COUNT_11 = "Currently see two or more out of 8 types of providers of health and related services to meet their developmental needs"; value count_two /*Dr_COUNT_11*/		
1 = "One"	0 = "None" 1 = "One"	
2 = "Two or more";	2 = "Two or more";	

Currently work with audiologist	
Description	Does child currently work with audiologist on a regular basis?
Survey Items Used	HCS2_A; HCS2_A_2
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability
Numerator	Yes, works with this type of provider; No, does not work with this type of provider
Notes for Data-Users	
N/A	
SAS Code and Annotation	
AUDIOLOG_11 = .; IF HCS2_A = 0 OR HCS2_A_2 = 0 THEN AUDIOLOG_11 = 2; IF HCS2_A_2 = 1 THEN AUDIOLOG_11 = 1; LABEL AUDIOLOG_11 = "Currently work with an audiologist";	
value yn 1 = "yes" 2 = "no";	

Currently work with developmental pediatricians	
Description	Does child currently work with developmental pediatricians on a regular basis?
Survey Items Used	HCS2_B; HCS2_B_2
Denominator	Children 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability
Numerator	Yes, works with this type of provider; No, does not work with this type of provider
Notes for Data-Users	
N/A	
SAS Code and Annotation	
DEVPED_11 = .; IF HCS2_B = 0 OR HCS2_B_2 = 0 THEN DEVPED_11 = 2; IF HCS2_B_2 = 1 THEN DEVPED_11 = 1; LABEL DEVPED_11 = "Currently work with a developmental practitioner";	
value yn 1 = "yes" 2 = "no";	

Currently work with neurologist	
Description	Does child currently work with neurologist on a regular basis?
Survey Items Used	HCS2_C; HCS2_C_2
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability
Numerator	Yes, works with this type of provider; No, does not work with this type of provider
Notes for Data-User	S
N/A	
SAS Code and Annotation	
NEUROLOG_11 = .; IF HCS2_C = 0 OR HCS2_C_2 = 0 THEN NEUROLOG_11 = 2; IF HCS2_C_2 = 1 THEN NEUROLOG_11 = 1; LABEL NEUROLOG_11 = "Currently work with a neurologist";	
value yn 1 = "yes" 2 = "no";	

Currently work with nutritionist	
Description	Does child currently work with nutritionist on a regular basis?
Survey Items Used	HCS2_D: HCS2_D_2
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability
Numerator	Yes, works with this type of provider; No, does not work with this type of provider
Notes for Data-Users	
N/A	
SAS Code and Annotation	
NUTRITN_11 = .; IF HCS2_D = 0 OR HCS2_D_2 = 0 THEN NUTRITN_11 = 2; IF HCS2_D_2 = 1 THEN NUTRITN_11 = 1; LABEL NUTRITN_11 = "Currently work with a nutritionist";	
value yn 1 = "yes" 2 = "no";	

Currently work with an at home/long-term nurse	
Description	Does child currently work with an at home/long-term nurse on a regular basis?
Survey Items Used	HCS2_E; HCS2_E_2
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability
Numerator	Yes, works with this type of provider; No, does not work with this type of provider
Notes for Data-Users	
N/A	
SAS Code and Annotation	
NURSE_11 = .; IF HCS2_E = 0 OR HCS2_E_2 = 0 THEN NURSE_11 = 2; IF HCS2_E_2 = 1 THEN NURSE_11 = 1; LABEL NURSE_11 = "Currently work with an at home/long-term nurse";	
value yn 1 = "yes" 2 = "no";	

Currently work with psychiatrist	
Description	Does child currently work with psychiatrist on a regular basis?
Survey Items Used	HCS2_E; HCS2_E_2
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability
Numerator	Yes, works with this type of provider; No, does not work with this type of provider
Notes for Data-Users	
N/A	
SAS Code and Annotation	
PSYCHIAT_11 = .; IF HCS2_F = 0 OR HCS2_F_2 = 0 THEN PSYCHIAT_11 = 2; IF HCS2_F_2 = 1 THEN PSYCHIAT_11 = 1; LABEL PSYCHIAT_11 = "Currently work with a psychiatrist";	
value yn	
1 = "yes" 2 = "no";	

Currently work with psychologist/ psychotherapist	
Description	Does child currently work with psychologist/ psychotherapist on a regular basis?
Survey Items Used	HCS2_G; HCS2_G_2
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability
Numerator	Yes, works with this type of provider; No, does not work with this type of provider
Notes for Data-Users	
N/A	
SAS Code and Annotation	
PSYCHLOG_11 = .; IF HCS2_G = 0 OR HCS2_G_2 = 0 THEN PSYCHLOG_11 = 2; IF HCS2_G_2 = 1 THEN PSYCHLOG_11 = 1; LABEL PSYCHLOG_11 = "Currently work with a psychologist/psychotherapist";	
value yn 1 = "yes" 2 = "no";	

Currently work with a social worker	
Description	Does child currently work with a social worker on a regular basis?
Survey Items Used	HCS2_H; HCS2_H_2
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability
Numerator	Yes, works with this type of provider; No, does not work with this type of provider
Notes for Data-Users	
N/A	
SAS Code and Annotation	
SOCWORK_11 = .; IF HCS2_H = 0 OR HCS2_H_2 = 0 THEN SOCWORK_11 = 2; IF HCS2_H_2 = 1 THEN SOCWORK_11 = 1; LABEL SOCWORK_11 = "Currently work with a social worker";	
value yn	
1 = "yes" 2 = "no";	

	Number of medications children currently use
Description	How many medications child currently uses on a regular basis?
Survey Items Used	HCS3_AR; HCS3_A_2R; HCS3_BR; HCS3_B_2R; HCS3_CR; HCS3_C_2R; HCS3_DR; HCS3_D_2R; HCS3_ER; HCS3_E_2R; HCS3_FR; HCS3_F_2R
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability
Numerator	Child takes 1 or more medications; Child does not take any medications asked about
Notes for Data-Users	S
N/A	
SPSS Syntax and Ar	notation
IF HCS3_AR = 0 OR LABEL rx_stmInt_11 = rx_dprss_11 = .; IF HCS3_BR = 0 OR LABEL rx_dprss_11 = rx_anxiet_11 = .; IF HCS3_CR = 0 OR LABEL rx_anxiet_11 = rx_seiz_11 = .; IF HCS3_DR = 0 OR LABEL rx_seiz_11 = ' rx_psych_11 = .; IF HCS3_ER = 0 OR LABEL rx_psych_11 = rx_sleep_11 = .; IF HCS3_FR = 0 OR LABEL rx_sleep_11 = Rx_NUM = 0; IF rx_stmInt_11 = 1 T	<b>—</b> • • • • • • • • • • • • • • • • • • •
IF rx_dprss_11 = 1 THEN Rx_NUM + 1; IF rx_anxiet_11 = 1 THEN Rx_NUM + 1; IF rx_seiz_11 = 1 THEN Rx_NUM + 1; IF rx_psych_11 = 1 THEN Rx_NUM + 1; IF rx_sleep_11 = 1 THEN Rx_NUM + 1;	

Rxcount\_11 = Rx\_NUM; IF rx\_stmlnt\_11 = . AND rx\_dprss\_11 = . AND rx\_anxiet\_11 = . AND rx\_seiz\_11 = . AND rx\_psych\_11 = . AND rx\_sleep\_11 = . THEN Rxcount\_11 = .; IF Rxcount\_11 > 2 THEN Rxcount\_11 = 2;/\* 2 AND mANDe\*/ LABEL Rxcount\_11 = "Currently uses none, one, AND two/mANDe types of medications to meet their developmental needs"; value yn 1 = "none" 2 = "one"; 3 = "two

Currently use stimulant medications		
Description	Does child currently use stimulant medications to meet his/her developmental needs?	
Survey Items Used	HCS3_AR; HCS3_A_2R	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Yes, child currently use stimulant medications ; No, child does use stimulant medications	
Notes for Data-Users		
N/A		
SPSS Syntax and Annotation		
rx_stmlnt_11 = .; IF HCS3_AR = 0 OR HCS3_A_2R = 0 THEN rx_stmlnt_11 = 2; IF HCS3_A_2R = 1 THEN rx_stmlnt_11 = 1; LABEL rx_stmlnt_11 = "Current stimulant Rx use";		
value yn		
1 = "yes"		
2 = "no";		

Currently use anti-depressant medication		
Description	Does child currently use anti-depressant medications on a regular basis?	
Survey Items Used	HCS3_BR; HCS3_B_2R	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Yes, child currently uses anti-depressant medications; No, child does not use anti- depressant medications	
Notes for Data-Users		
N/A		
SPSS Syntax and Annotation		
rx_dprss_11 = .; IF HCS3_BR = 0 OR HCS3_B_2R = 0 THEN rx_dprss_11 = 2; IF HCS3_B_2R = 1 THEN rx_dprss_11 = 1; LABEL rx_dprss_11 = "Current anti-depressant Rx use";		
value yn		
1 = "yes"		
2 = "no";		

	Currently use anti-anxiety or mood stabilizing medications	
Description	Does child currently use anti-anxiety or mood stabilizing medications on a regular basis?	
Survey Items Used	HCS3_CR; HCS3_C_2R	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Yes, child currently uses anti-anxiety or mood stabilizing medications; No, child does not use anti-anxiety or mood stabilizing medications	
Notes for Data-Users		
N/A		
SPSS Syntax and Annotation		
rx_anxiet_11 = .; IF HCS3_CR = 0 OR HCS3_C_2R = 0 THEN rx_anxiet_11 = 2; IF HCS3_C_2R = 1 THEN rx_anxiet_11 = 1; LABEL rx_anxiet_11 = "Current anti-anxiety/mood Rx use";		
value yn		
1 = "yes"		
2 = "no";		

Currently use anti-seizure medications		
Description	Does child currently use anti-seizure medications on a regular basis?	
Survey Items Used	HCS3_DR; HCS3_D_2R	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Yes, child currently uses anti-seizure medications; No, child does not use anti-seizure medications	
Notes for Data-Users		
N/A		
SPSS Syntax and Annotation		
rx_seiz_11 = .; IF HCS3_DR = 0 OR HCS3_D_2R = 0 THEN rx_seiz_11 = 2; IF HCS3_D_2R = 1 THEN rx_seiz_11 = 1; LABEL rx_seiz_11 = "Current anti-seizure Rx use";		
value yn		
1 = "yes"		
2 = "no";		

Currently use anti-psychotic medications		
Description	Does child currently use anti-psychotic medications on a regular basis?	
Survey Items Used	HCS3_ER; HCS3_E_2R	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Yes, child currently uses anti-psychotic medications; No, child does not use anti- psychotic medications	
Notes for Data-Users		
N/A		
SPSS Syntax and Annotation		
rx_psych_11 = .; IF HCS3_ER = 0 OR HCS3_E_2R = 0 THEN rx_psych_11 = 2; IF HCS3_E_2R = 1 THEN rx_psych_11 = 1; LABEL rx_psych_11 = "Current anti-psychotic Rx use";		
value yn		
1 = "yes"		
2 = "no";		

Currently use sleep medications		
Description	Does child currently use sleep medications on a regular basis?	
Survey Items Used	HCS3_FR; HCS3_F_2R	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Yes, child currently uses sleep medications; No, child does not use sleep medications	
Notes for Data-Users		
N/A		
SPSS Syntax and Annotation		
rx_sleep_11 = .; IF HCS3_FR = 0 OR HCS3_F_2R = 0 THEN rx_sleep_11 = 2; IF HCS3_F_2R = 1 THEN rx_sleep_11 = 1; LABEL rx_sleep_11 = "Current sleep Rx use";		
value yn 1 = "yes" 2 = "no";		

Type of school child currently enrolled in		
Description	What kind of school does he/she attend?	
Survey Items Used	ES1	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Public school; Private school; Home-schooled	
Notes for Data-Users		
Children not enrolled in school were legitimately skipped from this question		
SAS Code and Annotation		
ES_SCH = ES1; IF ES1 IN (6,7) THEN ES_SCH = .; IF ES1 = 4 THEN ES_SCH = .L; /*Not enrolled in school*/ Label ES_SCH = "Type of schools currently enrolled in";		
value ES_SCH 1 = "Public" 2 = "Private" 3 = "Home-schooled";		

Had an Individualized Education Program		
Description	Does child have a written intervention plan called an Individualized Education Program or IEP?	
Survey Items Used	ES6	
Denominator	CSHCN ages 6-17 years with current autism spectrum disorder, developmental delay, and/or intellectual disability who are currently enrolled in public or private school	
Numerator	Yes, child has an IEP; No, child does not have IEP	
Notes for Data-Users	S	
N/A		
SAS Code and Annotation		
ES_IEP = ES6; IF ES6 IN (6,7) THEN ES_IEP = .; IF ES6 = 0 THEN ES_IEP = 2; /* .L if ES1 in 3,4,6,7 */ Label ES_IEP = "Among those enrolled in public or private school, had a written intervention plan called an Individualized Education Program (IEP)"; value ES_IEP 1 = "With an IEP" 2 = "Without an IEP";		

Adequacy of Individualized Education Program		
Description	Does child's Individualized Education Program address all of concerns about his/her development and education?	
Survey Items Used	ES8	
Denominator	CSHCN ages 6-17 years with current autism spectrum disorder, developmental delay, and/or intellectual disability who enrolled in public or private school and have an Individualized Education Program	
Numerator	Yes, child's IEP addresses all of the parent's concerns; No child's IEP does not address all of the parent's concerns	
Notes for Data-User	S	
N/A		
Revisions		
N/A		
SAS Code and Annotation		
ES_IEPND = ES8; IF ES8 IN (6,7) THEN ES IEPND = .;		
IF ES8 = 0 THEN ES_IEPND = 2; /* .L if ES1 in 3,4,6,7 OR if ES6 in 2,6,7 */		
Label ES_IEPND = "Among those enrolled in public or private school, IEP addresses all of the parent's concerns about their child's development and education";		
value yn		
1 = "yes"		
2 = "no";		

Received services from an Early Intervention Service		
Description	Before age 3, did child receive services from an Early Intervention Services?	
Survey Items Used	ES9	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability who are currently enrolled in private or public school	
Numerator	Yes, child received EIS; No, child did not receive EIS	
Notes for Data-Users		
N/A		
SAS Code and Annotation		
ES_EIS = ES9; IF ES9 IN (6,7) THEN ES_EIS = .; IF ES9 = 0 THEN ES_EIS = 2; /* .L if ES1 in 3,4,6,7 */ Label ES_EIS = "Among those enrolled in public or private school, received Early Intervention Services (EIS) before they were 3 years old";		
value ES_EIS 1 = "Had an EIS" 2 = "Never had an EIS";		

Ever told that child was not eligible for Early Intervention Services		
Description	Were you ever told Early Intervention Services (EIS) was not available to you?	
Survey Items Used	ES10	
Denominator	CSHCN ages 6-17 years with current autism spectrum disorder, developmental delay, and/or intellectual disability who are currently enrolled in public or private school	
Numerator	Yes, ever told child was not eligible for EIS; No, never told hat child was not eligible for EIS	
Notes for Data-Users		
N/A		
SAS Code and Annotation		
ES_EISNE = ES10; IF ES10 IN (6,7) THEN ES_EISNE = .; IF ES10 = 0 THEN ES_EISNE = 2; /* .L if ES1 in 3,4,6,7 */ Label ES_EISNE = "Among those enrolled in public or private school, parent was told their child was not eligible for Early Intervention Services"; value yn 1 = "yes" 2 = "no";		

	Any unmet need for care	
Description	Did child receive all necessary treatments, services and saw all service providers needed to care for child's developmental needs during the past 12 months?	
Survey Items Used	INS1: INS2	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	No, child did not receive all necessary services; Yes, child received all necessary services	
Notes for Data-Users	S	
N/A		
SAS Code and Annotation		
IN_UNMET_11 = .; if INS1 = 0 or INS2 = 0 then IN_UNMET_11 = 1; if INS1 = 1 and INS2 = 1 then IN_UNMET_11 = 2; if INS1 in (6,7) AND INS2 in (6,7) then IN_UNMET_11 = .; LABEL IN_UNMET_11 = "DID NOT receive all the treatments, services, or service providers needed to care for child's developmental needs during the past 12 months"; value yn 1 = "yes"		
2 = "no";		

Received all needed treatments and services		
Description	During the past 12 months, did child receive all the treatments and services necessary to meet his/her developmental needs?	
Survey Items Used	NS1	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Yes, child received all necessary services; No, child did not receive all necessary services	
Notes for Data-Users		
N/A		
SAS Code and Annotation		
IN_SERV_11 = INS1; if INS1 = 0 then IN_SERV_11 = 2; if INS1 in (6,7) then IN_SERV_11 = .; LABEL IN_SERV_11 = "Received all the treatments and services necessary to meet their developmental needs during the past 12 months";		
value yn 1 = "yes" 2 = "no";		

Saw all needed service providers		
Description	During the past 12 months, did child see all the service providers needed to care for his/her developmental needs?	
Survey Items Used	INS2	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Yes, child saw all providers needed; No, child did not see all providers needed	
Notes for Data-Users		
N/A		
SAS Code and Annotation		
IN_PROV_11 = INS2; if INS2 = 0 then IN_PROV_11 = 2; if INS2 in (6,7) then IN_PROV_11 = .; LABEL IN_PROV_11 = "Saw all the service providers needed to care for their developmental needs during the past 12 months"; value yn 1 = "yes" 2 = "no";		

Health insurance coverage		
Description	Does child have any kind of health care coverage, including health insurance, prepaid plans such as HMOs, or government plans such as Medicaid?	
Survey Items Used	INS3	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Yes, child has health insurance; No, child does not have health insurance	
Notes for Data-User	S	
	compared to similar indicators of other surveys provided elsewhere on the DRC website in survey wording and survey administration.	
SAS Code and Annotation		
IN_INS_11 = INS3; if INS3 = 0 then IN_INS_11 = 2; if INS3 in (6,7) then IN_INS_11 = .; LABEL IN_INS_11 = "Has any kind of health care coverage, including health insurance, prepaid plans such as HMOs, or government plans such as Medicaid"; value yn		
1 = "yes"		
2 = "no";		

Unmet Needs and Insurance Adequacy	
Inadequate current health insurance	
Description	Is child's health insurance adequate for his/her needs?
Survey Items Used	National Survey of Children with Special Health Care Needs (NS-CSHCN) items: C8Q01_A, C8Q01_B, C8Q01_C
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability who were insured at the time of the survey
Numerator	Current insurance is adequate; Current insurance is not adequate
Notes for Data-User	'S
That is their current in reasonable out of poo	ng inadequate insurance children have responses of never or sometimes to each item. nsurance coverage never/sometimes covers services and/or never/sometimes has cket expenses and/or never/sometimes allows CSHCN to see needed health providers. Il three items are required. If any item is don't know or refused, then child is set to
SAS Code and Anno	otation
else if C8Q01_A in (1 else if C8Q01_A in (3 else if C8Q01_A = .L else if C8Q01_A in (6 else if C8Q01_A = .P	etneeds_09 = 2; then metneeds_09 = .M; 1,2) then metneeds_09 = 0; 3,4) then metneeds_09 = 1; then metneeds_09 = 2; 5,7,.M) then metneeds_09 = .M; then metneeds_09 = .P; 'Health insurance benefits meet child needs (from the 2009/2010 NS-CSHCN)';
else if C8Q01_B in (1 else if C8Q01_B in (3 else if C8Q01_B = .L else if C8Q01_B in (6 else if C8Q01_B = .P	asonable_09 = 2; then reasonable_09 = .M; (,2) then reasonable_09 = 0; (3,4,5) then reasonable_09 = 1; then reasonable_09 = 2; (5,7,.M) then reasonable_09 = .M; then reasonable_09 = .P; = 'Non-covered insurance charges reasonable (from the 2009/2010 NS-CSHCN)';
. ,	pviders_09 = 2; then providers_09 = .M; $(2)$ then providers_09 = 0;

else if C8Q01\_C in (1,2) then providers\_09 = 0; else if C8Q01\_C in (3,4) then providers\_09 = 1;

else if C8Q01\_C = .L then providers\_09 = 2; else if C8Q01 C in (6,7,.M) then providers 09 = .M; else if C8Q01\_C = .P then providers\_09 = .P; label providers\_09 = 'Insurance allows child to see needed providers (from the 2009/2010 NS-CSHCN)'; indic5 09 = .; if metneeds\_09 = 1 and reasonable\_09 = 1 and providers\_09 = 1 then indic5\_09 = 1; if metneeds\_09 = 0 or reasonable\_09 = 0 or providers\_09 = 0 then indic5\_09 = 0; if metneeds\_09 in (.M,.P) or reasonable\_09 in (.M,.P) or providers\_09 in (.M,.P) then indic5\_09 = .; if metneeds\_09 = 2 then indic5\_09 = .L; label indic5 09 = 'INDICATOR 5: Adequacy of Current Insurance Coverage: Currently insured CSHCN whose insurance coverage is not adequate (from the 2009/2010 NS-CSHCN)'; value adegins /\*metneeds 09 reasonable 09 providers 09\*/ 0 = 'Never/sometimes' 1 = 'Usually/always' value insadeq /\*indic\_5\*/ 0 = 'Current insurance is NOT adequate' 1 = 'Current insurance IS adequate';

Current health insurance benefits meet child's needs		
Description	Does child's health insurance offer benefits or cover services that meet his/her needs?	
Survey Items Used	National Survey of Children with Special Health Care Needs (NS-CSHCN) item: C8Q01_A	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability who were insured at the time of the survey	
Numerator	Never/sometimes meet needs; Usually/always meets needs	
Notes for Data-Users		
N/A		
Revisions		
These items are the same as in the 2005/06 NS-CSHCN.		
SAS Code and Annotation		
<pre>metneeds_09 = .; if UNINS = 1 then metneeds_09 = 2; else if UNINS in (6,7) then metneeds_09 = .M; else if C8Q01_A in (1,2) then metneeds_09 = 0; else if C8Q01_A in (3,4) then metneeds_09 = 1; else if C8Q01_A = .L then metneeds_09 = 2; else if C8Q01_A in (6,7M) then metneeds_09 = .M; else if C8Q01_A = .P then metneeds_09 = .P; label metneeds_09 = 'Health insurance benefits meet child needs (from the 2009/2010 NS-CSHCN)'; value adeqins /*metneeds_09*/ 0 = 'Never/sometimes'</pre>		

Costs not covered by health insurance are reasonable		
Description	Are the costs not covered by child's health insurance reasonable?	
Survey Items Used	National Survey of Children with Special Health Care Needs (NS-CSHCN) item: C8Q01_B	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability who were insured at the time of the survey	
Numerator	Usually/always reasonable; Never/sometimes reasonable	
Notes for Data-User	S	
N/A		
Revisions		
These items are the same as in the 2005/06 NS-CSHCN.		
SAS Code and Annotation		
<pre>reasonable_09 = .; if UNINS = 1 then reasonable_09 = 2; else if UNINS in (6,7) then reasonable_09 = .M; else if C8Q01_B in (1,2) then reasonable_09 = 0; else if C8Q01_B in (3,4,5) then reasonable_09 = 1; else if C8Q01_B = .L then reasonable_09 = 2; else if C8Q01_B in (6,7M) then reasonable_09 = .M; else if C8Q01_B = .P then reasonable_09 = .P; label reasonable_09 = 'Non-covered insurance charges reasonable (from the 2009/2010 NS-CSHCN)';</pre>		
value adeqins /*reasonable_09*/ 0 = 'Never/sometimes' 1 = 'Usually/always'		

Health insurance let child see needed providers		
Description	Does child's health insurance allow him/her to see the health care providers he/she needs?	
Survey Items Used	National Survey of Children with Special Health Care Needs (NS-CSHCN) item: C8Q01_C	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability who were insured at the time of the survey	
Numerator	Usually/always; Never/sometimes	
Notes for Data-Users		
N/A		
Revisions		
The item is the same as in the 2005/06 NS-CSHCN.		
SAS Code and Annotation		
providers_09 = .; if UNINS = 1 then providers_09 = 2; else if UNINS in (6,7) then providers_09 = .M; else if C8Q01_C in (1,2) then providers_09 = 0; else if C8Q01_C in (3,4) then providers_09 = 1; else if C8Q01_C = .L then providers_09 = 2; else if C8Q01_C in (6,7,.M) then providers_09 = .M; else if C8Q01_C = .P then providers_09 = .P; label providers_09 = 'Insurance allows child to see needed providers (from the 2009/2010 NS-CSHCN)';		
value adeqins /*providers_09*/ 0 = 'Never/sometimes' 1 = 'Usually/always'		

Any unmet need due to insurance coverage		
Description	Are there treatments, services, or service providers that child's needs that are not covered by his/her health insurance in the past 12 months?	
Survey Items Used	INS4	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability who were insured at the time of the survey	
Numerator	Not all treatments/services covered by insurance; All needed treatments/services covered by insurance	
Notes for Data-Users		
N/A		
SAS Code and Annotation		
IN_COVER_11 = INS4; /* .L includes INS3 = 6,7,2*/ if INS4 = 0 then IN_COVER_11 = 2; if INS4 in (6,7) then IN_COVER_11 = .; LABEL IN_COVER_11 = "Health insurance DID NOT cover all the treatments, services, or service providers needed to care for child's developmental needs"; value yn 1 = "yes"		
2 = "no";		

Any speech or language therapy not covered by health insurance		
Description	Are speech or language therapies not covered by child's health insurance?	
Survey Items Used	Any speech or language therapy not covered by health insurance	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability who were insured at the time of the survey	
Numerator	Not covered by insurance; Covered by insurance	
Notes for Data-User	S	
N/A		
SAS Code and Annotation		
/*Treatments/services/providers not covered by insurance/*L includes INS3 = 6,7,2 and INS4 = 0*/		
IN_SPCH_11 = INS5R01; IF INS5R01 = 0 THEN IN SPCH 11 = 2;		
IF INSERT = 0 THEN IN_SPCH_11 = 2; IF INS4 = 0 THEN IN_SPCH_11 = 2;		
Label IN_SPCH_11 = "Among those who have health insurance, any speech/language therapy not covered by health insurance";		
value yn		
1 = "yes"		
2 = "no";		

Any occupational therapy not covered by health insurance		
Description	Are occupational therapies not covered by health insurance?	
Survey Items Used	INS5R02	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability who were insured at the time of the survey	
Numerator	Not covered by insurance; Covered by insurance	
Notes for Data-Users		
N/A		
SAS Code and Annotation		
IN_OCCUP_11 = INS5R02; IF INS5R02 = 0 THEN IN_OCCUP_11 = 2; IF INS4 = 0 THEN IN_OCCUP_11 = 2; Label IN_OCCUP_11 = "Among those who have health insurance, any occupational therapy not covered by health insurance";		
value yn 1 = "yes" 2 = "no";		

Any behavioral management services not covered by health insurance		
Description	Are behavioral management services not covered by health insurance?	
Survey Items Used	INS5R03	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability who were insured at the time of the survey	
Numerator	Not covered by insurance; Covered by insurance	
Notes for Data-User	S	
N/A		
SAS Code and Annotation		
IN_BEH_11 = INS5R03; IF INS5R03 = 0 THEN IN_BEH_11 = 2; IF INS4 = 0 THEN IN_BEH_11 = 2; Label IN_BEH_11 = "Among those who have health insurance, any behavioral management services not covered by health insurance";		
value yn 1 = "yes"		
2 = "no";		

Any psychological services not covered by health insurance		
Description	Are psychological services not covered by health insurance?	
Survey Items Used	INS5R04	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability who were insured at the time of the survey	
Numerator	Not covered by insurance; Covered by insurance	
Notes for Data-Users		
N/A		
SAS Code and Annotation		
IN_PSYCH_11 = INS5R04; IF INS5R04 = 0 THEN IN_PSYCH_11 = 2; IF INS4 = 0 THEN IN_PSYCH_11 = 2; Label IN_PSYCH_11 = "Among those who have health insurance, any psychological services not covered by health insurance";		
value yn		
1 = "yes" 2 = "no";		

Any alternative medicine/therapies not covered by health insurance	
Description	Are alternative medicine/therapies not covered by health insurance?
Survey Items Used	INS5R08
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability who were insured at the time of the survey
Numerator	Not covered by insurance; Covered by insurance
Notes for Data-Users	
N/A	
SAS Code and Annotation	
<pre>IN_ALT_11 = INS5R08; IF INS4 = 2 THEN IN_ALT_11 = 2; Label IN_ALT_11 = "Among those who have health insurance, any alternative medicine/therapies not covered by health insurance"; value yn 1 = "yes" 2 = "no";</pre>	

Strengths and Difficulties Questionnaire composite score	
Description	Did child receive a high score on the Strengths and Difficulties Questionnaire?
Survey Items Used	FSD5_A; FSD5_B; FSD5_C; FSD5_D; FSD5_E
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability
Numerator	High score; Medium score; Low score
Notes for Data-User	S
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(FSD5_B; FSD5_C; a as 2. For positive que "Certainly True" as ze ranges from zero to tw	one interview included 5 items that comprise the modified SDQ. For negative questions and FSD5_D) "Not True" is scored as zero, "Somewhat True" as 1 and "Certainly True" estions (FSD5_A and FSD5_E) "Not True" is scored as 2, "Somewhat True" as 1 and ero. Summing each item generates the total difficulties score. Those whose score wo have normal scores, three to five have borderline scores, and six to ten have igher score indicates greater difficulties or fewer strengths.
Revisions	
N/A	
SAS Code and Anno	otation
IF FSD5_A = 1 then S IF FSD5_A = 3 then S IF FSD5_E = 1 then S IF FSD5_E = 3 then S array miss_sdq {*} SE do i = 1 to dim(miss_s if miss_sdq(i) if miss_sdq(i) end; drop i; SDQ_COUNT = SDQ SDQ_CATI_11 = .; IF SDQ_COUNT GE IF SDQ_COUNT > 2 IF SDQ_COUNT > 5	DQ_2 = FSD5_B; SDQ_3 = FSD5_C; SDQ_4 = FSD5_D; SDQ_5 = FSD5_E; SDQ_1 = 3; SDQ_1 = 1; SDQ_5 = 3; SDQ_5 = 1; DQ_1 SDQ_5;

value SDQ\_SCORE

- 1 = "High score: 6-10"
- 2 = "Medium score: 3-5"
- 3 = "Low score: 0-2";

	Child generally well behaved	
Description	Was child generally well behaved and did what adults requested during the past six months?	
Survey Items Used	FSD5_A	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Not true; Somewhat true; Certainly true	
Notes for Data-Users		
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FRCPSYCH, MRCP without charge and v questions are retained	and included in the Pathways survey with permission. These questions may be used without seeking separate permission provided the wording is not modified, all the ed, and Dr. Goodman's copyright is acknowledged.	
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FRCPSYCH, MRCP without charge and v questions are retained SAS Code and Ann SDQ_BEH = FSD5_ if FSD5_A > 3 then S	and included in the Pathways survey with permission. These questions may be used without seeking separate permission provided the wording is not modified, all the ed, and Dr. Goodman's copyright is acknowledged. <b>Notation</b> A; SDQ_BEH = .;	
FRCPSYCH, MRCP without charge and v questions are retaine SAS Code and Ann SDQ_BEH = FSD5_ if FSD5_A > 3 then S Label SDQ_BEH = "	and included in the Pathways survey with permission. These questions may be used without seeking separate permission provided the wording is not modified, all the ed, and Dr. Goodman's copyright is acknowledged.	
FRCPSYCH, MRCP without charge and v questions are retaine SAS Code and Ann SDQ_BEH = FSD5_ if FSD5_A > 3 then S Label SDQ_BEH = " months";	and included in the Pathways survey with permission. These questions may be used without seeking separate permission provided the wording is not modified, all the ed, and Dr. Goodman's copyright is acknowledged. <b>Notation</b> A; SDQ_BEH = .;	
FRCPSYCH, MRCP without charge and v questions are retained SAS Code and Ann SDQ_BEH = FSD5_ if FSD5_A > 3 then S Label SDQ_BEH = " months"; value SDQ_ITEM	and included in the Pathways survey with permission. These questions may be used without seeking separate permission provided the wording is not modified, all the ed, and Dr. Goodman's copyright is acknowledged. <b>Notation</b> A; SDQ_BEH = .; Child was generally well behaved and usually do what adults request during the past six	

Child has many worries, or often seems worried	
Description	Did child have many worries, or often seems worried during the past six months?
Survey Items Used	FSD5_B
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability
Numerator	Not true; Somewhat true; Certainly true
Notes for Data-Users	S
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SAS Code and Anno	otation
SDQ_WRRY = FSD5_B; if FSD5_B > 3 then SDQ_WRRY = .; Label SDQ_WRRY = "Child had many worries, or often seems worried during the past six months";	
value SDQ_ITEM 1 = "Not true"	

2 = "Somewhat true"

3 = "Certainly true";

Child often unhappy, depressed, or tearful	
Description	Was child often unhappy, depressed, or tearful during the past six months
Survey Items Used	FSD5_C
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability
Numerator	Not true; Somewhat true; Certainly true
Notes for Data-Users	
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SAS Code and Anno	
	Itation
SDQ_DEP = FSD5_C	
SDQ_DEP = FSD5_C if FSD5_C > 3 then S	· · · · · · · · · · · · · · · · · · ·
if FSD5_C > 3 then S	· · · · · · · · · · · · · · · · · · ·
if FSD5_C > 3 then S	;; DQ_DEP = .;
if FSD5_C > 3 then S Label SDQ_DEP = "C	;; DQ_DEP = .;
if FSD5_C > 3 then S Label SDQ_DEP = "C value SDQ_ITEM	;; DQ_DEP = .;

Child gets along better with adults than with other children/youth	
Description	Was child get along better with adults than with other children or youth during the past six months?
Survey Items Used	FSD5_D
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability
Numerator	Not true; Somewhat true; Certainly true
Notes for Data-Users	S
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SAS Code and Anno	otation
SDQ_ADLT = FSD5_D; if FSD5_D > 3 then SDQ_ADLT = .; Label SDQ_ADLT = "Child got along better with adults than with other children or youth during the past six months";	
value SDQ_ITEM	
1 = "Not true"	
2 = "Somewhat true"	

3 = "Certainly true";

Child has good attention span	
Description	During the last six months, did child have a good attention span, sees chores or homework through to the end?
Survey Items Used	FSD5_E
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability
Numerator	Not true; Somewhat true; Certainly true
Notes for Data-Users	S
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SAS Code and Anno	otation
SDQ_ATTN = FSD5_	_E;
if FSD5_E > 3 then SDQ_ATTN = .;	
Label SDQ_ATTN = "Child had a good attention span, sees chores or homework through to the end during the past six months";	
value SDQ_ITEM	
1 = "Not true"	
2 = "Somewhat true"	
2 = "Somewhat true"	

### **Parental Views and Safety Concerns**

School professionals at child's school are able to meet child's needs	
Description	Do parents believe that the teachers and other professionals at the child's school are able to meet their needs?
Survey Items Used	PP1_A
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability
Numerator	Definitely agree; Somewhat agree; Definitely/Somewhat disagree
Notes for Data-Users	
N/A	
SAS Code and Annotation	
PP_TCHN_11 = PP1_A; if PP1_A in (3,4) then PP_TCHN_11 = 3; if PP_TCHN_11 in (6,7) then PP_TCHN_11 = .; LABEL PP_TCHN_11 = "Parent agrees with following statement: the teachers and other professionals at the child's school are able to meet their needs";	
<pre>value DEF_SOMEW 1 = "Definitely Agree" 2 = "Somewhat Agree" 3 = "Definitely/Somewhat Disagree";</pre>	

### **Parental Views and Safety Concerns**

Satisfaction with school services	
Description	Do parents agree that they are satisfied with the services child receives from teachers and other school professionals?
Survey Items Used	PP1_B
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability
Numerator	Definitely agree; Somewhat agree; Definitely/Somewhat disagree
Notes for Data-Users	
N/A	
SAS Code and Anno	tation
LABEL PP_TCHS_11	PP_TCHS_11 = 3; 7) then PP_TCHS_11 = .; = "Parent agrees with following statement: they are satisfied with the services that m teachers and other school professionals";

Health care providers are able to meet child's needs		
Description	Do parents believe that the doctors and other health care providers that child sees are able to meet their needs?	
Survey Items Used	PP1_C	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Definitely agree; Somewhat agree; Definitely/Somewhat disagree	
Notes for Data-Users	S	
N/A		
SAS Code and Annotation		
PP_DRN_11 = PP1_C; if PP1_C in (3,4) then PP_DRN_11 = 3; if PP_DRN_11 in (6,7) then PP_DRN_11 = .; LABEL PP_DRN_11 = "Parent agrees with following statement: the doctors and other health care providers that child sees are able to meet their needs";		
value DEF_SOMEW 1 = "Definitely Agree" 2 = "Somewhat Agree" 3 = "Definitely/Somewhat Disagree";		

Satisfaction with health care providers		
Description	Do parents agree that they are satisfied with the services child receives from doctors and other health care providers?	
Survey Items Used	PP1_D	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Definitely agree; Somewhat agree: Definitely/Somewhat disagree	
Notes for Data-Users	5	
N/A		
SAS Code and Annotation		
PP_DRS_11 = PP1_D; if PP1_D in (3,4) then PP_DRS_11 = 3; if PP_DRS_11 in (6,7) then PP_DRS_11 = .; LABEL PP_DRS_11 = "Parent agrees with following statement: they are satisfied with the services that their child receives from doctors and other health care providers";		
value DEF_SOMEW 1 = "Definitely Agree"		
2 = "Somewhat Agree" 3 = "Definitely/Somewhat Disagree";		

Condition is lifelong		
Description	Do parents agree that condition is likely to be lifelong rather than temporary?	
Survey Items Used	PP2_A	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Definitely agree; Somewhat agree: Definitely/Somewhat disagree	
Notes for Data-User	S	
N/A		
SAS Code and Annotation		
PP_LIFE_11 = PP2_A; if PP2_A in (3,4) then PP_LIFE_11 = 3; if PP_LIFE_11 in (6,7) then PP_LIFE_11 = .; LABEL PP_LIFE_11 = "Parent agrees with following statement: condition is likely to be lifelong rather than temporary";		
value DEF_SOMEW 1 = "Definitely Agree" 2 = "Somewhat Agree" 3 = "Definitely/Somewhat Disagree";		

Treatment can prevent or decrease condition related problems		
Description	Do parents believe that the problems related to their child's condition can be prevented or decreased with treatment?	
Survey Items Used	PP2_B	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Definitely agree; Somewhat agree; Definitely/Somewhat disagree	
Notes for Data-User	S	
N/A		
SAS Code and Annotation		
PP_PREV_11 = PP2_B; if PP2_B in (3,4) then PP_PREV_11 = 3; if PP_PREV_11 in (6,7) then PP_PREV_11 = .; LABEL PP_PREV_11 = "Parent agrees with following statement: the problems related to their child's condition can be prevented or decreased with treatment";		
value DEF_SOMEW 1 = "Definitely Agree" 2 = "Somewhat Agree" 3 = "Definitely/Somewhat Disagree";		

Parent has the power to change the condition		
Description	Do parents believe that they have the power to change their child's condition?	
Survey Items Used	PP2_C	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Definitely agree; Somewhat agree; Definitely/Somewhat disagree	
Notes for Data-User	S	
N/A		
SAS Code and Annotation		
PP_CHNGE_11 = PP2_C; if PP2_C in (3,4) then PP_CHNGE_11 = 3; if PP_CHNGE_11 in (6,7) then PP_CHNGE_11 = .; LABEL PP_CHNGE_11 = "Parent agrees with following statement: they have the power to change their child's condition";		
value DEF_SOMEW 1 = "Definitely Agree" 2 = "Somewhat Agree" 3 = "Definitely/Somewhat Disagree";		

Condition is a mystery		
Description	Do parents believe that condition is a mystery to them?	
Survey Items Used	PP2_D	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Definitely agree; Somewhat agree; Definitely/Somewhat disagree	
Notes for Data-User	S	
N/A		
SAS Code and Annotation		
PP_MYST_11 = PP2_D; if PP2_D in (3,4) then PP_MYST_11 = 3; if PP_MYST_11 in (6,7) then PP_MYST_11 = .; LABEL PP_MYST_11 = "Parent agrees with following statement: condition is a mystery to them";		
value DEF_SOMEW 1 = "Definitely Agree" 2 = "Somewhat Agree" 3 = "Definitely/Somewhat Disagree";		

Child's symptoms come and go		
Description	Do parents believe that the child's symptoms come and go?	
Survey Items Used	PP2_E	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Definitely agree; Somewhat agree; Definitely/Somewhat disagree	
Notes for Data-Users		
N/A		
SAS Code and Annotation		
PP_GO_11 = PP2_E; if PP2_E in (3,4) then PP_GO_11 = 3; if PP_GO_11 in (6,7) then PP_GO_11 = .; LABEL PP_GO_11 = "Parent agrees with following statement: the child's symptoms come and go";		
value DEF_SOMEW 1 = "Definitely Agree" 2 = "Somewhat Agree" 3 = "Definitely/Somewhat Disagree";		

Parent gets upset when they think about their child's condition		
Description	Do parents get upset when they think about their child's condition?	
Survey Items Used	PP2_F	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Definitely agree; Somewhat agree; Definitely/Somewhat disagree	
Notes for Data-User	S	
N/A		
SAS Code and Annotation		
PP_UPSET_11 = PP2_F; if PP2_F in (3,4) then PP_UPSET_11 = 3; if PP_UPSET_11 in (6,7) then PP_UPSET_11 = .; LABEL PP_UPSET_11 = "Parent agrees with following statement: when they think about their child's condition they get upset";		
value DEF_SOMEW 1 = "Definitely Agree" 2 = "Somewhat Agree" 3 = "Definitely/Somewhat Disagree";		

Condition is genetic or hereditary		
Description	Do parents believe that the child's condition is genetic or hereditary?	
Survey Items Used	PP2_G	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Definitely agree; Somewhat agree; Definitely/Somewhat disagree	
Notes for Data-User	S	
N/A		
SAS Code and Annotation		
PP_GEN_11 = PP2_G; if PP2_G in (3,4) then PP_GEN_11 = 3; if PP_GEN_11 in (6,7) then PP_GEN_11 = .; LABEL PP_GEN_11 = "Parent agrees with following statement: the child's condition is genetic or hereditary";		
value DEF_SOMEW 1 = "Definitely Agree" 2 = "Somewhat Agree" 3 = "Definitely/Somewhat Disagree";		

Condition caused by exposure before birth		
Description	Do parents believe that the child's condition was caused by something the child was exposed to in utero, that is, before he/she was born?	
Survey Items Used	PP2_H	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Definitely agree; Somewhat agree; Definitely/Somewhat disagree	
Notes for Data-Users	S	
N/A		
SAS Code and Annotation		
PP_INUTR_11 = PP2_H; if PP2_H in (3,4) then PP_INUTR_11 = 3; if PP_INUTR_11 in (6,7) then PP_INUTR_11 = .; LABEL PP_INUTR_11 = "Parent agrees with following statement: the child's condition was caused by something the child was exposed to in utero, that is, before they were born"; value DEF_SOMEW 1 = "Definitely Agree" 2 = "Somewhat Agree" 3 = "Definitely/Somewhat Disagree";		

Condition caused by exposure after birth		
Description	Do parents believe that the child's condition was caused by something the child was exposed to after he/she was born?	
Survey Items Used	PP2_I	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Definitely agree; Somewhat agree: Definitely/Somewhat disagree	
Notes for Data-Users	S	
N/A		
SAS Code and Annotation		
PP_EXPSD_11 = PP2_I; if PP2_I in (3,4) then PP_EXPSD_11 = 3; if PP_EXPSD_11 in (6,7) then PP_EXPSD_11 = .; LABEL PP_EXPSD_11 = "Parent agrees with following statement: the child's condition was caused by something the child was exposed to after they was born"; value DEF_SOMEW		
1 = "Definitely Agree"		
2 = "Somewhat Agree" 3 = "Definitely/Somewhat Disagree";		

Injury affected child's behavior or development		
Description	Has child experienced an accident, injury, or illness that the parent feels has had an effect on the child's behavior or development?	
Survey Items Used	PP3	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Definitely agree; Somewhat agree; Definitely/Somewhat disagree	
Notes for Data-User	S	
N/A		
SAS Code and Annotation		
PP_INJRY = PP3; IF PP3 = 0 THEN PP_INJRY = 2; IF PP3 GT 2 THEN PP_INJRY = .; LABEL PP_INJRY = "Experienced an accident, injury, or illness that the parent felt had an effect on the child's behavior or development";		
value yn 1 = "yes" 2 = "no";		

Wandered or became lost		
Description	Did your child wander off or become lost in the past year?	
Survey Items Used	WWP1_A; WWP1_B; WWP1_C; WWP1_D	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Yes, child wandered off or became lost; No, child did not wander off or become lost	
Notes for Data-User	S	
N/A		
SAS Code and Anno	otation	
<pre>validw = 0; missw = 0; nonew = 0; do i = 1 to dim(var_wa);</pre>		
WW_ANY_11 = .; if nonew GE 1 then WW_ANY_11 = 2; if validw GE 1 then WW_ANY_11 = 1; if missw = 4 then WW_ANY_11 = .; label WW_ANY_11 = "Wandered off or became lost in the past year";		
value yn 1 = "yes" 2 = "no";		

Wandered off or became lost from home		
Description	Did your child wander off or become lost from home in the past year?	
Survey Items Used	WWP1_A	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Yes, child wandered off or became lost from their home; No, child did not wander off or became lost from their home	
Notes for Data-Users		
N/A		
SAS Code and Annotation		
WW_HOME_11 = WWP1_A; if WWP1_A in (6,7) then WW_HOME_11 = .; if WWP1_A = 0 then WW_HOME_11 = 2; LABEL WW_HOME_11 = "Wandered off or became lost from their home in the past year";		
value yn 1 = "yes" 2 = "no";		

Wandered off or became lost from someone else's home		
Description	Did your child wander off or become lost from someone else's home such as a relative, friend, neighbor or babysitter in the past year?	
Survey Items Used	WWP1_B	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Yes, wandered off or became lost; No, child did not wander off or become lost	
Notes for Data-Users	S	
N/A		
SAS Code and Annotation		
<pre>WW_RES_11 = WWP1_B; if WWP1_B in (6,7) then WW_RES_11 = .; if WWP1_B = 0 then WW_RES_11 = 2; LABEL WW_RES_11 = "Wandered off or became lost from someone else's home such as a relative, friend, neighbor, or babysitter in the past year";</pre>		
value yn		
1 = "yes" 2 = "no";		

Wandered off or became lost from school, day care, or camp		
Description	Did your child wander off or become lost from school, day care, or summer camp in the past year?	
Survey Items Used	WWP1_C	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Yes, child wandered off or became lost; No, child did not wander off or become lost	
Notes for Data-User	S	
N/A		
SAS Code and Annotation		
WW_SCH_11 = WWP1_C; if WWP1_C in (6,7) then WW_SCH_11 = .; if WWP1_C = 0 then WW_SCH_11 = 2; LABEL WW_SCH_11 = "Wandered off or became lost from school, day care, or summer camp in the past year in the past year";		
value yn		
1 = "yes" 2 = "no";		

Wandered off or became lost from a public place		
Description	Did your child wander off or become lost from a store, restaurant, playground, campsite or any other public place in the past year?	
Survey Items Used	WWP1_D	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Yes, child wandered off or became lost from a public place; No, child did not wander off or become lost from a public place	
Notes for Data-Users		
N/A		
SAS Code and Annotation		
<pre>WW_PUBLC_11 = WWP1_D; if WWP1_D in (6,7) then WW_PUBLC_11 = .; if WWP1_D = 0 then WW_PUBLC_11 = 2; LABEL WW_PUBLC_11 = "Wandered off or became lost from a store, restaurant, playground, campsite, or any other public place in the past year"; value yn 1 = "yes"</pre>		
2 = "no";		

Barriers added to home due to wandering		
Description	Were barriers added to your home to prevent child from wandering off or becoming lost in the past year?	
Survey Items Used	WWP2	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Yes; No	
Notes for Data-Users	S	
N/A		
SAS Code and Anno	otation	
WW_BARR_11 = WWP2; if WWP2 in (6,7) then WW_BARR_11 = .; if WWP2 = 0 then WW_BARR_11 = 2; LABEL WW_BARR_11 = "Barriers were added to home to prevent child from wandering off or becoming lost in the past year";		
value yn		
1 = "yes" 2 = "no";		

Tracking device added due to wandering		
Description	Did child wear a tracking device to help find them if they wandered off in the past year?	
Survey Items Used	WWP3	
Denominator	CSHCN 6-17 years old with current autism spectrum disorder, developmental delay, and/or intellectual disability	
Numerator	Yes; No	
Notes for Data-Users	S	
N/A		
SAS Code and Annotation		
WW_TRACK_11 = WWP3; if WWP3 in (6,7) then WW_TRACK_11 = .; if WWP3 = 0 then WW_TRACK_11 = 2; LABEL WW_TRACK_11 = "Child wore a tracking device to help find them if they wandered off in the past year";		
value yn		
1 = "yes" 2 = "no";		

Age		
Description	Age 2 groups (6-17 years)	
Survey Items Used	AGE_P	
Denominator	CSHCN ages 6-17 years with current ASD, ID and/or DD	
Numerator	6-11 yrs; 12-17 yrs	
Notes for Data-Users	S	
Current age of child in years at the time of Pathways Interview		
SAS Code and Annotation		
AGE2_11 = .; IF AGE < 12 THEN AGE2_11 = 1; IF AGE GE 12 THEN AGE2_11 = 2; LABEL AGE2_11 = "Current age in 6-11 years or 12-17 years";		
value AGE		
1 = "6-11 yrs" 2 = "12-17 yrs";		

Sex of child		
Description	Sex of child	
Survey Items Used	SEX_P	
Denominator	CSHCN ages 6-17 years with current ASD, ID and/or DD	
Numerator	Male; Female	
Notes for Data-Users		
N/A		
SAS Code and Annotation		
SEX_11 = SEX; IF SEX > 2 THEN SEX_11 = .M;		
value SEX		
1 = "Male" 2 = "Female";		

Race/ethnicity	
Description	Race/ethnicity of child
Survey Items Used	HISPANIC_IMP_Pv3; RACER_IMP_Pv3
Denominator	CSHCN ages 6-17 years with current ASD, ID and/or DD
Numerator	Hispanic; White, Non-Hispanic; Black, non-Hispanic; Other, non-Hispanic

#### Notes for Data-Users

The telephone interview questionnaire was only conducted in English. Therefore, estimates are not generalizable to all Hispanic/Latino CSHCN, primarily households who do not speak English. Unknown values for race and ethnicity were calculated using single imputation methods. The race/ethnicity estimates and confidence intervals based on single imputation may differ slightly from those obtained using multiple imputation methods.

#### SAS Code and Annotation

RACE4\_11 = .; IF HISPANIC\_imp = 1 THEN RACE4\_11 = 1; /\*Hispanic\*/ IF HISPANIC\_imp = 0 AND RACER\_imp = 2 THEN RACE4\_11 = 2;/\*NH-Black\*/ IF HISPANIC\_imp = 0 AND RACER\_imp = 1 THEN RACE4\_11 = 3;/\*NH\_White\*/ IF HISPANIC\_imp = 0 AND RACER\_imp = 3 THEN RACE4\_11 = 4;/\*NH-Other\*/ LABEL RACE4\_11 = "Race/Ethnicity (4 categories)";

value RACE

1 = "Hispanic"

2 = "Non-Hispanic Black"

3 = "Non-Hispanic White"

4 = "Non-Hispanic Other";

Household income level		
Description	Household income level	
Survey Items Used	POVLEVEL_IMP_Pv3	
Denominator	CSHCN ages 6-17 years with current ASD, ID and/or DD	
Numerator	0-99% FPL; 100-199% FPL; 200-399% FPL, 400% FPL or higher	
Notes for Data-Users	S	
Unknown values for income, household size, or both were calculated using single imputation methods. The household poverty level estimates and confidence intervals based on single imputed poverty level may differ slightly from those obtained using multiple imputation methods.		
SAS Code and Annotation		
POV_I = .; if POVLEVEL_IMP in (1,2) then POV_I = 1; /*<100%FPL*/ if POVLEVEL_IMP in (3,4,5,6) then POV_I = 2; /*100-199%FPL*/ if POVLEVEL_IMP in (7,8) then POV_I = 3; /*200-399%FPL*/ if POVLEVEL_IMP = 9 then POV_I = 4; /*400%/more FPL*/ label POV_I = "Levels of income according to Federal Poverty Level (FPL) guidelines?";		
value POV 1 = "<100% FPL" 2 = "100-199% FPL" 3 = "200-399% FPL" 4 = "400% or more FPL";		

Household income level (SCHIP)		
Description	Household income level (SCHIP)	
Survey Items Used	POVLEVEL_IMP_Pv3	
Denominator	CSHCN ages 6-17 years with current ASD, ID and/or DD	
Numerator	0-99% FPL; 100-199% FPL; 200-399% FPL, 400% FPL or higher	
Notes for Data-Users	S	
Unknown values for income, household size, or both were calculated using single imputation methods. The household poverty level estimates and confidence intervals based on single imputed poverty level may differ slightly from those obtained using multiple imputation methods.		
SAS Code and Annotation		
POV_CHIP = .; if POVLEVEL_IMP in (1,2,3,4,5,6) then POV_CHIP = 1; /*<200%FPL*/ if POVLEVEL_IMP = 7 then POV_CHIP = 2; /*200-299%FPL*/ if POVLEVEL_IMP = 8 then POV_CHIP = 3; /*300-399%FPL*/ if POVLEVEL_IMP = 9 then POV_CHIP = 4; /*400%/more FPL*/ label POV_CHIP = "Levels of income according to Federal Poverty Level (FPL) guidelines (CHIP)?";		
value POV_CHIP 1 = "<200% FPL" 2 = "200-299% FPL" 3 = "300-399% FPL" 4 = "400% or more FPL";		

Highest education of adults in household				
Description	Highest education of adult in household			
Survey Items Used	EDUCR_IMP_Pv3			
Denominator	CSHCN ages 6-17 years with current ASD, ID and/or DD			
Numerator	Less than high school or HS graduate; More than high school education			
Notes for Data-Users	S			
Unknown values for household education were calculated using single imputation methods. The highest level of education estimates and confidence intervals based on single imputation may differ slightly from those obtained using multiple imputation methods.				
SAS Code and Annotation				
EDU2_11 = .; IF educr_imp = 3 THEN EDU2_11 = 1; IF educr_imp IN (1,2) THEN EDU2_11 = 2; LABEL EDU2_11 = "Highest parent education in the household (> HS vs. HS or less)";				
value educr_i 1 = "Less than high school or HS graduate" 2 = "More than high school";				

Insurance type				
Description	Type of health insurance at time of survey			
Survey Items Used	National Survey of Children with Special Health Care Needs (NS-CSHCN) items: TYPEINS			
Denominator	CSHCN ages 6-17 years with current ASD, ID and/or DD			
Numerator	Private insurance only; public insurance only; Both public & private insurance; Uninsured			
Notes for Data-User	S			
The 20009/10 NS-CS	HCN item			
SAS Code and Anno	otation			
<pre>instype_09 = TYPEINS; if TYPEINS in (4,.M) then instype_09 = .; if TYPEINS = 5 then instype_09 = 4; label instype_09 = 'Type of Insurance Coverage';</pre>				
value typeins /*instype_09*/ 1 = 'Private only' 2 = 'Public only'				
3 = 'Both Public and F 4 = 'Uninsured';	Private'			

	Condition groups – 3 categories
Description	CSHCN who currently have ASD, ID (w/o ASD), DD only, and w/o ASD ID DD
Survey Items Used	DE_AUT11; DE_INT11; DE_DEV11
Denominator	CSHCN ages 6-17 years with current ASD, ID and/or DD
Numerator	CSHCN currently have ASD; CSHCN currently have ID with/without ASD; CSHCN currently have DD only
Notes for Data-Users	6
N/A	
SAS Code and Anno	tation
2;/* and DE_AUT11 in if DE_AUT11 = 1 then if DE_AUT11 in (.M,6, LABEL EVER_AUT = EVER_INT = .; if DE_INT11 = .L then if DE_INT12 = 1 or ((C Ever intellectual disab if DE_INT11=1 then E if DE_INT11 in (.M,6,7)	CSHCN_K2Q35A=1 and COND_CONFIRM=1) or COND_A=1) then EVER_AUT = (0,6,7,.L)) Ever autism;*/ EVER_AUT = 1; * Current autism; 7) then EVER_AUT = .; 'CSHCN who currently or ever were told that child had Autism/ASD'; EVER_INT = .L; CSHCN_K2Q37A=1 and COND_Confirm=1) or COND_C=1) then EVER_INT = 2;* illity; EVER_INT = 1; * Current intellectual disability;
EVER_DEV = .; if DE_DEV11 = .L then if DE_DEV12 = 1 or (( developmental delay; if DE_DEV11=1 then I if DE_DEV11 in (.M,6, LABEL EVER_DEV = DX_AUT_11 = .; if DE_AUT11 in (0,.L) if DE_AUT11 = 1 then	n EVER_DEV = .L; cshcn_k2q36a=1 and COND_confirm=1) or COND_B=1) then EVER_DEV = 2;* Ever EVER_DEV = 1;* Current developmental delay; 7) then EVER_DEV = .; 'CSHCN who currently or ever were told that child had Developmental Delay'; then DX_AUT_11 = 2;
DX_DEV_11 = .;	

```
if DE_DEV11 in (0, L) then DX_DEV_11 = 2;
if DE_DEV11 = 1 then DX_DEV_11 = 1;
label DX_DEV_11 = "CSHCN currently has a developmental delay";
DX_INT_11 = .;
if DE_INT11 in (0, L) then DX_INT_11 = 2;
if DE_INT11 = 1 then DX_INT_11 = 1;
label DX_INT_11 = "CSHCN currently has an intellectual disability";
DX GRP3 11 = .;
if DX_DEV_11 = 1 then DX_GRP3_11 = 3; /*CSHCN has DD only*/
if DX AUT 11 = 1 then DX GRP3 11 = 1; /*CSHCN has ASD*/
if DX_AUT_11 ne 1 and DX_INT_11 = 1 then DX_GRP3_11 = 2; /*CSHCN has ID w/o ASD*/
if DX_GRP3_11 = . then DX_GRP3_11 = 4; /*MISSING*/
label DX_GRP3_11 = "CSHCN who currently have ASD, ID (w/o ASD), DD only, and w/o ASD ID DD";
value DX3 GRPS
1 = "Any ASD"
2 = "ID w/o ASD"
3 = "DD only"
4 = "None";
```

	Condition groups – 2 categories				
Description	CSHCN who currently have Autism Spectrum Disorder without Intellectual Disability and/or Developmental Delay				
Survey Items Used	DE_AUT11; DE_INT11; DE_DEV11				
Denominator	CSHCN ages 6-17 years with current ASD, ID and/or DD				
Numerator	CSHCN currently have ASD; CSHCN currently have DD and/or ID				
Notes for Data-User	S				
N/A					
SAS Code and Anno	otation				
<pre>if DE_AUT11 = .L then EVER_AUT = .L; if DE_AUT12 = 1 or ((CSHCN_K2Q35A=1 and COND_CONFIRM=1) or COND_A=1) then EVER_AUT = 2;/* and DE_AUT11 in (0,6,7,L)) Ever autism;*/ if DE_AUT11 = 1 then EVER_AUT = 1; * Current autism; if DE_AUT11 in (.M,6,7) then EVER_AUT = .; LABEL EVER_AUT = 'CSHCN who currently or ever were told that child had Autism/ASD'; EVER_INT = .; if DE_INT11 = .L then EVER_INT = .L; if DE_INT12 = 1 or ((CSHCN_K2Q37A=1 and COND_Confirm=1) or COND_C=1) then EVER_INT = 2;*</pre>					
Ever intellectual disability; if DE_INT11=1 then EVER_INT = 1; * Current intellectual disability; if DE_INT11 in (.M,6,7) then EVER_INT = .; LABEL EVER_INT = 'CSHCN who currently or ever were told that child had Intellectual Disability';					
EVER_DEV = .; if DE_DEV11 = .L then EVER_DEV = .L; if DE_DEV12 = 1 or ((cshcn_k2q36a=1 and COND_confirm=1) or COND_B=1) then EVER_DEV = 2;* Ever developmental delay; if DE_DEV11=1 then EVER_DEV = 1;* Current developmental delay; if DE_DEV11 in (.M,6,7) then EVER_DEV = .; LABEL EVER_DEV = 'CSHCN who currently or ever were told that child had Developmental Delay';					
DX_AUT_11 = .; if DE_AUT11 in (0,.L) then DX_AUT_11 = 2; if DE_AUT11 = 1 then DX_AUT_11 = 1; label DX_AUT_11 = "CSHCN currently has Autism/ASD"; DX_DEV_11 = .;					

```
if DE_DEV11 in (0, L) then DX_DEV_11 = 2;
if DE_DEV11 = 1 then DX_DEV_11 = 1;
label DX_DEV_11 = "CSHCN currently has a developmental delay";
DX_INT_11 = .;
if DE_INT11 in (0, L) then DX_INT_11 = 2;
if DE_INT11 = 1 then DX_INT_11 = 1;
label DX_INT_11 = "CSHCN currently has an intellectual disability";
DX GRP2 11 = .;
if DX_DEV_11 = 1 or DX_INT_11 = 1 then DX_GRP2_11 = 2; /*CSHCN has DD or ID*/
if DX AUT 11 = 1 then DX GRP2 11 = 1; /*CSHCN has ASD*/
if DX_GRP2_11 = . then DX_GRP2_11 = 3; /*MISSING*/
label DX_GRP2_11 = "CSHCN who currently have ASD, ID and/or DD (w/o ASD), and w/o ASD ID DD";
value DX2_GRPS
1 = "Any ASD"
2 = "ID and/or DD"
3 = "None";
```



Appendix A:

Unweighted Frequency Tables for Codebook Variables

### **Developmental Concern**

PC_AGE_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	20	0.50	20	0.50
L	87	2.16	107	2.65
Condition/concern at or before birth	547	13.57	654	16.22
1 - 23 months	1128	27.98	1782	44.20
24 - 47 months	1092	27.08	2874	71.28
48+ months	1158	28.72	4032	100.00

#### Age when parents were first concerned about their development

#### Parents who had 0-1, 2-3, 4 or more of the 7 types of developmental concerns

PC_COUNT_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
L	642	15.92	642	15.92
0-1 concerns	359	8.90	1001	24.83
2-3 concerns	1106	27.43	2107	52.26
4 or more concerns	1925	47.74	4032	100.00

# Parent was concerned that child had problems talking later, not talking at all, not talking as well, or loosing speech skills

PC_VRBL_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	7	0.17	7	0.17
L	1043	25.87	1050	26.04
yes	1998	49.55	3048	75.60
no	984	24.40	4032	100.00

## Parent was concerned that child had difficulties playing with others, difficulties with change, or any other behavior difficulties (sleeping/eating, hyper, wandering, tantrums, aggressive/destructive)

Frequency	Percent	Cumulative Frequency	Cumulative Percent
5	0.12	5	0.12
654	16.22	659	16.34
2657	65.90	3316	82.24
716	17.76	4032	100.00
	5 654 2657	5       0.12         654       16.22         2657       65.90	Frequency           5         0.12         5           654         16.22         659           2657         65.90         3316

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r arent was conserved that only had problems with coordination/gross motor skins, or me motor skins						
PC	C_MOTOR_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent	
		9	0.22	9	0.22	
	L	654	16.22	663	16.44	
	yes	2013	49.93	2676	66.37	
	no	1356	33.63	4032	100.00	

Parent was concerned that child had problems with coordination/gross motor skills, or fine motor skills

Parent was concerned that child had problems making eye contact, responding when called/to sounds, or with other forms of non-verbal communication (tone of voice, facial expressions, body language)

PC_NONVR_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	7	0.17	7	0.17
L	654	16.22	661	16.39
yes	2181	54.09	2842	70.49
no	1190	29.51	4032	100.00

# Parent was concerned that child had problems understanding what others say or difficulty learning new things or skills

PC_LEARN_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	4	0.10	4	0.10
L	1117	27.70	1121	27.80
yes	2180	54.07	3301	81.87
no	731	18.13	4032	100.00

#### Parent was concerned that child had unusual gestures or movements such as hand-flapping, toewalking, or self-spinning?

PC_GEST_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	3	0.07	3	0.07
L	1355	33.61	1358	33.68
yes	905	22.45	2263	56.13
no	1769	43.87	4032	100.00

## Parent was concerned that child had medical problems such as seizures, lack of physical growth, or stomach problems

PC_MED_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	1	0.02	1	0.02
L	654	16.22	655	16.25
yes	802	19.89	1457	36.14
no	2575	63.86	4032	100.00

# Among parents with any developmental concern, person who first had concern that something was not right with child's development

TALK_1ST_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	38	0.94	38	0.94
L	634	15.72	672	16.67
Parent	2448	60.71	3120	77.38
Health Care Professional	154	3.82	3274	81.20
Teacher, Councilor, or Nurse at school	307	7.61	3581	88.81
Other	451	11.19	4032	100.00

#### Child's age when parent talked to a dr/health care provider about their concern

TALK_AGE_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	15	0.37	15	0.37
L	324	8.04	339	8.41
Before birth - 11 months	993	24.63	1332	33.04
12 - 23 months	525	13.02	1857	46.06
24 - 47 months	979	24.28	2836	70.34
48+ months	1196	29.66	4032	100.00

#### Parent talked to a doctor or health care provider about their concern

TALK_DR_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	4	0.10	4	0.10
L	12	0.30	16	0.40
yes	3708	91.96	3724	92.36
no	308	7.64	4032	100.00

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DR_TEST_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	16	0.40	16	0.40
L	324	8.04	340	8.43
М	1	0.02	341	8.46
yes	1931	47.89	2272	56.35
no	1760	43.65	4032	100.00

## Doctor or health care provider conducted a developmental test when parent had a developmental concern

### Doctor or health care provider made a referral to a specialist when parent had a developmental concern

DR_REFER_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	16	0.40	16	0.40
L	324	8.04	340	8.43
м	1	0.02	341	8.46
yes	2267	56.23	2608	64.68
no	1424	35.32	4032	100.00

# Doctor or health care provider suggested that parent talk with the school when parent had a developmental concern

DR_SCH_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	16	0.40	16	0.40
L	324	8.04	340	8.43
Μ	1	0.02	341	8.46
yes	1437	35.64	1778	44.10
no	2254	55.90	4032	100.00

# Doctor or health care provider said 'nothing was wrong' or 'behavior was normal' when parent had a developmental concern

DR_NORM_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	16	0.40	16	0.40
L	324	8.04	340	8.43
М	1	0.02	341	8.46
yes	879	21.80	1220	30.26
no	2812	69.74	4032	100.00

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DR_EARLY_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	16	0.40	16	0.40
L	324	8.04	340	8.43
М	1	0.02	341	8.46
yes	1335	33.11	1676	41.57
no	2356	58.43	4032	100.00

Doctor or health care provider said 'it's too early to tell' when parent had a developmental concern

## Doctor or health care provider said the child might 'grow out of it' when parent had a developmental concern

DR_GROW_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	16	0.40	16	0.40
L	324	8.04	340	8.43
М	1	0.02	341	8.46
yes	1584	39.29	1925	47.74
no	2107	52.26	4032	100.00

## Parent talked to teacher, school nurse, school counselor, or other school professional about their concern

TALK_SCH_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	3	0.07	3	0.07
L	12	0.30	15	0.37
yes	3727	92.44	3742	92.81
no	290	7.19	4032	100.00

#### Developmental screening or assessment completed by parent/health provider or none completed

PC_SCR_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	14	0.35	14	0.35
Completed Screening	2029	50.32	2043	50.67
No Screening	1047	25.97	3090	76.64
Didn't talk to DR/provider	942	23.36	4032	100.00

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#### Physician completed screener/assessment

SCR_DR_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	39	0.97	39	0.97
L	942	23.36	981	24.33
yes	1920	47.62	2901	71.95
no	1131	28.05	4032	100.00

#### Parent completed screener/assessment

SCR_P_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
•	223	5.53	223	5.53
L	942	23.36	1165	28.89
yes	1042	25.84	2207	54.74
no	1825	45.26	4032	100.00

### **Diagnostic Experiences**

Age when parent was first told by Dr that child EVER had any of 3 developmental condition (ASD, ID, or DD)

ANY_AGE_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	18	0.45	18	0.45
L	77	1.91	95	2.36
0-2 years	1340	33.23	1435	35.59
3-5 years	1320	32.74	2755	68.33
6+ years	1277	31.67	4032	100.00

#### Among CSHCN w/Autism, was ever told child had Asperger's, Pervasive Development Disorder, Autistic Disorder, or multiple diagnoses

DX_AUTYP_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	186	4.61	186	4.61
L	2391	59.30	2577	63.91
Asperger's Disorder	317	7.86	2894	71.78
Pervasive Developmental Disorder	209	5.18	3103	76.96
Autistic Disorder	277	6.87	3380	83.83
Multiple Diagnosis	652	16.17	4032	100.00

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### Among CSHCN w/Autism, parent was ever told child had Asperger's

ASPERGER_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	11	0.27	11	0.27
L	2391	59.30	2402	59.57
М	1	0.02	2403	59.60
yes	728	18.06	3131	77.65
no	901	22.35	4032	100.00

#### Among CSHCN w/Autism, parent was ever told child had Pervasive Development Disorder

PDD_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	56	1.39	56	1.39
L	2391	59.30	2447	60.69
Μ	1	0.02	2448	60.71
yes	729	18.08	3177	78.79
no	855	21.21	4032	100.00

## Among CSHCN w/Autism, parent was ever told child had Autistic Disorder

AUTDISRD_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	34	0.84	34	0.84
L	2391	59.30	2425	60.14
м	1	0.02	2426	60.17
yes	801	19.87	3227	80.03
no	805	19.97	4032	100.00

#### Age when parent was first told by Dr that child had ASD (ever and current diagnosis)

AUT_AGE_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	17	0.42	17	0.42
L	2383	59.10	2400	59.52
0-2 years	280	6.94	2680	66.47
3-5 years	651	16.15	3331	82.61
6+ years	701	17.39	4032	100.00

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### Parents who were ever told by a doctor, health care provider, or school professional that child did not have autism or ASD since child was first diagnosed

NO_AUT_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	5	0.12	5	0.12
L	2391	59.30	2396	59.42
yes	302	7.49	2698	66.91
no	1334	33.09	4032	100.00

#### Health care provider who first gave Autism diagnosis (ever & current diagnosis)

DRDX_AUT_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	110	2.73	110	2.73
L	2292	56.85	2402	59.57
Pediatrician or Pediatric/Family HCP	253	6.27	2655	65.85
Psychologist	416	10.32	3071	76.17
Specialist Dr	668	16.57	3739	92.73
Multidisciplinary Team/Other	293	7.27	4032	100.00

#### Age when parent was first told by Dr that child had Developmental Delay (ever and current diagnosis)

DEV_AGE_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	23	0.57	23	0.57
L	636	15.77	659	16.34
0-2 years	1252	31.05	1911	47.40
3-5 years	1142	28.32	3053	75.72
6+ years	979	24.28	4032	100.00

### Parents who were ever told by a doctor, health care provider, or school professional that child did not have developmental delay since child was first diagnosed

NO_DEV_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	12	0.30	12	0.30
L	639	15.85	651	16.15
yes	312	7.74	963	23.88
no	3069	76.12	4032	100.00

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leatti care provider who hist gave bevelopmentar belay diagnosis (ever & current diagnosis)					
DRDX_DEV_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent	
	148	3.67	148	3.67	
L	550	13.64	698	17.31	
Pediatrician or Pediatric/Family HCP	1263	31.32	1961	48.64	
Psychologist	565	14.01	2526	62.65	
Specialist Dr	1003	24.88	3529	87.52	
Multidisciplinary Team/Other	503	12.48	4032	100.00	

#### Health care provider who first gave Developmental Delay diagnosis (ever & current diagnosis)

#### Age when parent was first told by Dr that child had Intellectual Disability (ever and current diagnosis)

INT_AGE_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	24	0.60	24	0.60
L	3008	74.60	3032	75.20
0-2 years	398	9.87	3430	85.07
3-5 years	332	8.23	3762	93.30
6+ years	270	6.70	4032	100.00

## Parents who were ever told by a doctor, health care provider, or school professional that child did not have intellectual disability since child was first diagnosed

NO_INT_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	3	0.07	3	0.07
L	3018	74.85	3021	74.93
yes	58	1.44	3079	76.36
no	953	23.64	4032	100.00

#### Health care provider who first gave Intellectual Disability diagnosis (ever & current diagnosis)

DRDX_INT_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	76	1.88	76	1.88
L	2963	73.49	3039	75.37
Pediatrician or Pediatric/Family HCP	278	6.89	3317	82.27
Psychologist	203	5.03	3520	87.30
Specialist Dr	375	9.30	3895	96.60
Multidisciplinary Team/Other	137	3.40	4032	100.00

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### **Health and Education Services**

Currently use 3 or more of 7	types of health o	care services to	o meet their develo	opmental needs
HCS COUNT 11	Eroquopov	Doroont	Cumulativa	Cumulativa

HCS_COUNT_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
None	1103	27.36	1103	27.36
One	765	18.97	1868	46.33
Тwo	690	17.11	2558	63.44
Three or more	1474	36.56	4032	100.00

#### Currently use behavioral intervention or modification services on a regular basis

HCS_BI_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	95	2.36	95	2.36
yes	1062	26.34	1157	28.70
no	2875	71.30	4032	100.00

#### Currently use sensory integration therapy on a regular basis

HCS_SI_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	185	4.59	185	4.59
yes	506	12.55	691	17.14
no	3341	82.86	4032	100.00

## Currently use cognitive based therapy on a regular basis

HCS_CT_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	365	9.05	365	9.05
yes	810	20.09	1175	29.14
no	2857	70.86	4032	100.00

### Currently use occupational therapy on a regular basis

HCS_OT_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	82	2.03	82	2.03
yes	1544	38.29	1626	40.33
no	2406	59.67	4032	100.00

## Currently use physical therapy on a regular basis

HCS_PT_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	43	1.07	43	1.07
yes	768	19.05	811	20.11
no	3221	79.89	4032	100.00

## Currently use social skills training on a regular basis

HCS_ST_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	80	1.98	80	1.98
yes	1689	41.89	1769	43.87
no	2263	56.13	4032	100.00

#### Currently use speech or language therapy on a regular basis

HCS_LT_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	18	0.45	18	0.45
yes	1787	44.32	1805	44.77
no	2227	55.23	4032	100.00

## Currently see two or more out of 8 types of providers of health and related services to meet their developmental needs

Dr_COUNT_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
None	1819	45.11	1819	45.11
One	1158	28.72	2977	73.83
Two or more	1055	26.17	4032	100.00

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#### Currently work with an audiologist

AUDIOLOG_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	54	1.34	54	1.34
yes	214	5.31	268	6.65
no	3764	93.35	4032	100.00

# Currently work with a developmental practitioner

DEVPED_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	36	0.89	36	0.89
yes	423	10.49	459	11.38
no	3573	88.62	4032	100.00

#### Currently work with a neurologist

NEUROLOG_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	29	0.72	29	0.72
yes	510	12.65	539	13.37
no	3493	86.63	4032	100.00

#### Currently work with a nutritionist

NUTRITN_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	13	0.32	13	0.32
yes	215	5.33	228	5.65
no	3804	94.35	4032	100.00

### Currently work with an at home/long-term nurse

NURSE_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	3	0.07	3	0.07
yes	65	1.61	68	1.69
no	3964	98.31	4032	100.00

#### Currently work with a psychiatrist

PSYCHIAT_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	21	0.52	21	0.52
yes	956	23.71	977	24.23
no	3055	75.77	4032	100.00

### Currently work with a psychologist/psychotherapist

PSYCHLOG_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	45	1.12	45	1.12
yes	870	21.58	915	22.69
no	3117	77.31	4032	100.00

#### Currently work with a social worker

SOCWORK_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	23	0.57	23	0.57
yes	593	14.71	616	15.28
no	3416	84.72	4032	100.00

### Currently uses none, one, AND two/more types of medications to meet their developmental needs

Rxcount_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
None	2059	51.07	2059	51.07
One	1051	26.07	3110	77.13
Two or more	922	22.87	4032	100.00

#### Current stimulant Rx use

rx_stmInt_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	37	0.92	37	0.92
yes	1182	29.32	1219	30.23
no	2813	69.77	4032	100.00

#### Current anti-depressant Rx use

rx_dprss_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	20	0.50	20	0.50
yes	563	13.96	583	14.46
no	3449	85.54	4032	100.00

### Current anti-anxiety/mood Rx use

rx_anxiet_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	25	0.62	25	0.62
yes	655	16.25	680	16.87
no	3352	83.13	4032	100.00

#### Current anti-seizure Rx use

rx_seiz_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	9	0.22	9	0.22
yes	335	8.31	344	8.53
no	3688	91.47	4032	100.00

### Current anti-psychotic Rx use

rx_psych_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	30	0.74	30	0.74
yes	314	7.79	344	8.53
no	3688	91.47	4032	100.00

#### Current sleep Rx use

rx_sleep_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	47	1.17	47	1.17
yes	530	13.14	577	14.31
no	3455	85.69	4032	100.00

#### Type of schools currently enrolled in

ES_SCH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	8	0.20	8	0.20
L	14	0.35	22	0.55
Public	3460	85.81	3482	86.36
Private	377	9.35	3859	95.71
Home-schooled	173	4.29	4032	100.00

## Among those enrolled in public or private school, had a written intervention plan called an Individualized Education Program (IEP)

ES_IEP	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	17	0.42	17	0.42
L	195	4.84	212	5.26
With an IEP	3028	75.10	3240	80.36
Without an IEP	792	19.64	4032	100.00

## Among those enrolled in public or private school, IEP addresses all of the parent's concerns about their child's development and education

ES_IEPND	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	6	0.15	6	0.15
L	1004	24.90	1010	25.05
yes	2575	63.86	3585	88.91
no	447	11.09	4032	100.00

### Among those enrolled in public or private school, received Early Intervention Services (EIS) before they were 3 years old

ES_EIS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	108	2.68	108	2.68
L	195	4.84	303	7.51
Had an EIS	1419	35.19	1722	42.71
Never had an EIS	2310	57.29	4032	100.00

#### Among those enrolled in public or private school, parent was told their child was not eligible for Early Intervention Services

ES_EISNE	Frequency	Percent	Cumulative Frequency	Cumulative Percent
•	43	1.07	43	1.07
L	195	4.84	238	5.90
yes	296	7.34	534	13.24
no	3498	86.76	4032	100.00

### Unmet Needs and Insurance Adequacy

## DID NOT receive all the treatments, services, or service providers needed to care for child's developmental needs during the past 12 months

IN_UNMET_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	40	0.99	40	0.99
yes	1053	26.12	1093	27.11
no	2939	72.89	4032	100.00

### Received all the treatments and services necessary to meet their developmental needs during the past 12 months

IN_SERV_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	39	0.97	39	0.97
Р	1	0.02	40	0.99
yes	3053	75.72	3093	76.71
no	939	23.29	4032	100.00

ouw an the service providers needed to care for their developmental needs during the past 12 months						
IN_PROV_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent		
	32	0.79	32	0.79		
Р	3	0.07	35	0.87		
yes	3257	80.78	3292	81.65		
no	740	18.35	4032	100.00		

Saw all the service providers needed to care for their developmental needs during the past 12 months

## Has any kind of health care coverage, including health insurance, prepaid plans such as HMOs, or government plans such as Medicaid

IN_INS_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	3	0.07	3	0.07
Р	3	0.07	6	0.15
yes	3877	96.16	3883	96.30
no	149	3.70	4032	100.00

## INDICATOR 5: Adequacy of Current Insurance Coverage: Currently insured CSHCN whose insurance coverage is not adequate (from the 2009/2010 NS-CSHCN)

indic5_09	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	39	0.97	39	0.97
L	122	3.03	161	3.99
Current insurance is NOT adequate	1607	39.86	1768	43.85
Current insurance IS adequate	2264	56.15	4032	100.00

#### Health insurance benefits meet child needs (from the 2009/2010 NS-CSHCN)

metneeds_09	Frequency	Percent	Cumulative Frequency	Cumulative Percent
М	16	0.40	16	0.40
Never/sometimes	753	18.68	769	19.07
Usually/always	3141	77.90	3910	96.97
Uninsured	122	3.03	4032	100.00

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reasonable_09	Frequency	Percent	Cumulative Frequency	Cumulative Percent
М	29	0.72	29	0.72
Never/sometimes	1364	33.83	1393	34.55
Usually/always	2517	62.43	3910	96.97
Uninsured	122	3.03	4032	100.00

#### Non-covered insurance charges reasonable (from the 2009/2010 NS-CSHCN)

#### Insurance allows child to see needed providers (from the 2009/2010 NS-CSHCN)

providers_09	Frequency	Percent	Cumulative Frequency	Cumulative Percent
М	6	0.15	6	0.15
Never/sometimes	592	14.68	598	14.83
Usually/always	3312	82.14	3910	96.97
Uninsured	122	3.03	4032	100.00

### Health insurance DID NOT cover all the treatments, services, or service providers needed to care for child's developmental needs

IN_COVER_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	104	2.58	104	2.58
L	152	3.77	256	6.35
Р	3	0.07	259	6.42
yes	1065	26.41	1324	32.84
no	2708	67.16	4032	100.00

### Among those who have health insurance, any speech/language therapy not covered by health insurance

IN_SPCH_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	20	0.50	20	0.50
L	256	6.35	276	6.85
М	1	0.02	277	6.87
Р	3	0.07	280	6.94
yes	145	3.60	425	10.54
no	3607	89.46	4032	100.00

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IN_OCCUP_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	20	0.50	20	0.50
L	256	6.35	276	6.85
М	1	0.02	277	6.87
Р	3	0.07	280	6.94
yes	109	2.70	389	9.65
no	3643	90.35	4032	100.00

#### Among those who have health insurance, any occupational therapy not covered by health insurance

### Among those who have health insurance, any behavioral management services not covered by health insurance

IN_BEH_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	20	0.50	20	0.50
L	256	6.35	276	6.85
М	1	0.02	277	6.87
Р	3	0.07	280	6.94
yes	109	2.70	389	9.65
no	3643	90.35	4032	100.00

#### Among those who have health insurance, any psychological services not covered by health insurance

IN_PSYCH_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	20	0.50	20	0.50
L	256	6.35	276	6.85
Μ	1	0.02	277	6.87
Р	3	0.07	280	6.94
yes	185	4.59	465	11.53
no	3567	88.47	4032	100.00

IN_ALT_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	20	0.50	20	0.50
L	256	6.35	276	6.85
м	1	0.02	277	6.87
Р	3	0.07	280	6.94
yes	144	3.57	424	10.52
no	3608	89.48	4032	100.00

### Among those who have health insurance, any alternative medicine/therapies not covered by health insurance

### **Functioning, Strengths and Difficulties**

#### Scoring results of brief Strengths and Difficulties Questionnaire (5 items)

SDQ_CATI_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	63	1.56	63	1.56
High score: 6-10	1202	29.81	1265	31.37
Medium score: 3-5	1844	45.73	3109	77.11
Low score: 0-2	923	22.89	4032	100.00

#### Child was generally well behaved and usually do what adults request during the past six months

SDQ_BEH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	11	0.27	11	0.27
Р	6	0.15	17	0.42
Not true	366	9.08	383	9.50
Somewhat true	1763	43.73	2146	53.22
Certainly true	1886	46.78	4032	100.00

#### Child had many worries, or often seems worried during the past six months

SDQ_WRRY	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	14	0.35	14	0.35
Р	7	0.17	21	0.52
Not true	1332	33.04	1353	33.56
Somewhat true	1638	40.63	2991	74.18
Certainly true	1041	25.82	4032	100.00

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SDQ_DEP	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	8	0.20	8	0.20
Р	7	0.17	15	0.37
Not true	2328	57.74	2343	58.11
Somewhat true	1348	33.43	3691	91.54
Certainly true	341	8.46	4032	100.00

### Child was often unhappy, depressed, or tearful during the past six months

Child got along better with adults than with other children or youth during the past six months

SDQ_ADLT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	29	0.72	29	0.72
Р	8	0.20	37	0.92
Not true	1527	37.87	1564	38.79
Somewhat true	1337	33.16	2901	71.95
Certainly true	1131	28.05	4032	100.00

### Child had a good attention span, sees chores or homework through to the end during the past six months

SDQ_ATTN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	11	0.27	11	0.27
Р	8	0.20	19	0.47
Not true	1919	47.59	1938	48.07
Somewhat true	1556	38.59	3494	86.66
Certainly true	538	13.34	4032	100.00

### **Parental Views and Safety Concerns**

### Parent agrees with following statement: the teachers and other professionals at the child's school are able to meet their needs

PP_TCHN_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	13	0.32	13	0.32
Р	8	0.20	21	0.52
Definitely Agree	1777	44.07	1798	44.59
Somewhat Agree	1634	40.53	3432	85.12
Definitely/Somewhat Disagree	600	14.88	4032	100.00

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Parent agrees with following statement: they are satisfied with the services that their child receives
from teachers and other school professionals

PP_TCHS_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	15	0.37	15	0.37
Р	8	0.20	23	0.57
Definitely Agree	1764	43.75	1787	44.32
Somewhat Agree	1516	37.60	3303	81.92
Definitely/Somewhat Disagree	729	18.08	4032	100.00

### Parent agrees with following statement: the doctors and other health care providers that child sees are able to meet their needs

PP_DRN_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	6	0.15	6	0.15
Р	8	0.20	14	0.35
Definitely Agree	2364	58.63	2378	58.98
Somewhat Agree	1308	32.44	3686	91.42
Definitely/Somewhat Disagree	346	8.58	4032	100.00

## Parent agrees with following statement: they are satisfied with the services that their child receives from doctors and other health care providers

PP_DRS_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	5	0.12	5	0.12
Р	8	0.20	13	0.32
Definitely Agree	2472	61.31	2485	61.63
Somewhat Agree	1201	29.79	3686	91.42
Definitely/Somewhat Disagree	346	8.58	4032	100.00

PP_LIFE_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	23	0.57	23	0.57
Р	8	0.20	31	0.77
Definitely Agree	2630	65.23	2661	66.00
Somewhat Agree	920	22.82	3581	88.81
Definitely/Somewhat Disagree	451	11.19	4032	100.00

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### Parent agrees with following statement: the problems related to their child's condition can be prevented or decreased with treatment

PP_PREV_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	54	1.34	54	1.34
Р	8	0.20	62	1.54
Definitely Agree	1375	34.10	1437	35.64
Somewhat Agree	1574	39.04	3011	74.68
Definitely/Somewhat Disagree	1021	25.32	4032	100.00

#### Parent agrees with following statement: they have the power to change their child's condition

PP_CHNGE_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	43	1.07	43	1.07
Р	8	0.20	51	1.26
Definitely Agree	422	10.47	473	11.73
Somewhat Agree	1163	28.84	1636	40.58
Definitely/Somewhat Disagree	2396	59.42	4032	100.00

#### Parent agrees with following statement: condition is a mystery to them

PP_MYST_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	23	0.57	23	0.57
Р	8	0.20	31	0.77
Definitely Agree	573	14.21	604	14.98
Somewhat Agree	882	21.88	1486	36.86
Definitely/Somewhat Disagree	2546	63.14	4032	100.00

#### Parent agrees with following statement: the child's symptoms come and go

PP_GO_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	16	0.40	16	0.40
Р	8	0.20	24	0.60
Definitely Agree	416	10.32	440	10.91
Somewhat Agree	773	19.17	1213	30.08
Definitely/Somewhat Disagree	2819	69.92	4032	100.00

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PP_UPSET_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	9	0.22	9	0.22
Р	8	0.20	17	0.42
Definitely Agree	950	23.56	967	23.98
Somewhat Agree	1214	30.11	2181	54.09
Definitely/Somewhat Disagree	1851	45.91	4032	100.00

### Parent agrees with following statement: when they think about their child's condition they get upset

Parent agrees with following statement: the child's condition is genetic or hereditary

PP_GEN_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	195	4.84	195	4.84
Р	8	0.20	203	5.03
Definitely Agree	1444	35.81	1647	40.85
Somewhat Agree	1177	29.19	2824	70.04
Definitely/Somewhat Disagree	1208	29.96	4032	100.00

Parent agrees with following statement: the child's condition was caused by something the child was exposed to in utero, that is, before they were born

PP_INUTR_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	280	6.94	280	6.94
Р	8	0.20	288	7.14
Definitely Agree	568	14.09	856	21.23
Somewhat Agree	708	17.56	1564	38.79
Definitely/Somewhat Disagree	2468	61.21	4032	100.00

## Parent agrees with following statement: the child's condition was caused by something the child was exposed to after they was born

PP_EXPSD_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	181	4.49	181	4.49
Р	8	0.20	189	4.69
Definitely Agree	483	11.98	672	16.67
Somewhat Agree	612	15.18	1284	31.85
Definitely/Somewhat Disagree	2748	68.15	4032	100.00

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Experienced an accident, injury, or illness that the parent felt had an effect on the
child's behavior or development

PP_INJRY	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	36	0.89	36	0.89
Р	8	0.20	44	1.09
yes	783	19.42	827	20.51
no	3205	79.49	4032	100.00

## Wandered off or became lost in the past year

WW_ANY_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	11	0.27	11	0.27
yes	857	21.25	868	21.53
no	3164	78.47	4032	100.00

#### Wandered off or became lost from their home in the past year

WW_HOME_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	3	0.07	3	0.07
Р	8	0.20	11	0.27
yes	293	7.27	304	7.54
no	3728	92.46	4032	100.00

## Wandered off or became lost from someone else's home such as a relative, friend, neighbor, or babysitter in the past year

WW_RES_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	6	0.15	6	0.15
Р	8	0.20	14	0.35
yes	140	3.47	154	3.82
no	3878	96.18	4032	100.00

WW_SCH_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	5	0.12	5	0.12
Р	8	0.20	13	0.32
yes	227	5.63	240	5.95
no	3792	94.05	4032	100.00

Wandered off or became lost from school, day care, or summer camp in the past year in the past year

### Wandered off or became lost from a store, restaurant, playground, campsite, or any other public place in the past year

WW_PUBLC_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	4	0.10	4	0.10
Р	8	0.20	12	0.30
yes	579	14.36	591	14.66
no	3441	85.34	4032	100.00

#### Barriers were added to home to prevent child from wandering off or becoming lost in the past year

WW_BARR_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	3	0.07	3	0.07
Р	8	0.20	11	0.27
yes	743	18.43	754	18.70
no	3278	81.30	4032	100.00

#### Child wore a tracking device to help find them if they wandered off in the past year

WW_TRACK_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	3	0.07	3	0.07
Р	8	0.20	11	0.27
yes	83	2.06	94	2.33
no	3938	97.67	4032	100.00

### **Stratifiers**

#### Current age in 6-11 years or 12-17 years

AGE2_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
6-11 yrs	1953	48.44	1953	48.44
12-17 yrs	2079	51.56	4032	100.00
SEX_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
SEX_11 M	Frequency 3	Percent 0.07		
_	. ,		Frequency	Percent

#### Race/Ethnicity (4 categories)

RACE4_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Hispanic	358	8.88	358	8.88
Non-Hispanic Black	346	8.58	704	17.46
Non-Hispanic White	2914	72.27	3618	89.73
Non-Hispanic Other	414	10.27	4032	100.00

#### Levels of income according to Federal Poverty Level (FPL) guidelines?

POV_I	Frequency	Percent	Cumulative Frequency	Cumulative Percent
<100% FPL	708	17.56	708	17.56
100-199% FPL	824	20.44	1532	38.00
200-399% FPL	1281	31.77	2813	69.77
400% or more FPL	1219	30.23	4032	100.00

### Levels of income according to Federal Poverty Level (FPL) guidelines (CHIP)?

POV_CHIP	Frequency	Percent	Cumulative Frequency	Cumulative Percent
<200% FPL	1532	38.00	1532	38.00
200-299% FPL	718	17.81	2250	55.80
300-399% FPL	563	13.96	2813	69.77
400% or more FPL	1219	30.23	4032	100.00

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EDU2_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent		
> HS	3253	80.68	3253	80.68		
< HS or HS	779	19.32	4032	100.00		

#### Highest parent education in the household (>HS vs. HS or less)

#### Type of Insurance Coverage

instype_09	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	126	3.13	126	3.13
Private only	1965	48.74	2091	51.86
Public only	1291	32.02	3382	83.88
Both Public and Private	528	13.10	3910	96.97
Uninsured	122	3.03	4032	100.00

#### **Region of residence**

REGION	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Northeast	778	19.30	778	19.30
Midwest	926	22.97	1704	42.26
South	1180	29.27	2884	71.53
West	1148	28.47	4032	100.00

#### **CSHCN** currently has Autism/ASD

DX_AUT_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	34	0.84	34	0.84
currently has condition	1420	35.22	1454	36.06
does not have condition	2578	63.94	4032	100.00

#### CSHCN currently has an intellectual disability

DX_INT_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	10	0.25	10	0.25
currently has condition	960	23.81	970	24.06
does not have condition	3062	75.94	4032	100.00

#### CSHCN currently has a developmental delay

DX_DEV_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
	21	0.52	21	0.52
currently has condition	2965	73.54	2986	74.06
does not have condition	1046	25.94	4032	100.00

#### CSHCN currently has ASD, ID or DD

DX_CURR_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
yes	3518	87.25	3518	87.25
no	514	12.75	4032	100.00

## CSHCN who currently have ASD, ID and/or DD (w/o ASD),and w/o ASD ID DD

DX_GRP2_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Any ASD	1420	35.22	1420	35.22
ID and/or DD	2098	52.03	3518	87.25
None	514	12.75	4032	100.00

#### CSHCN who currently have ASD, ID (w/o ASD), DD only, and w/o ASD ID DD

DX_GRP3_11	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Any ASD	1420	35.22	1420	35.22
ID w/o ASD	657	16.29	2077	51.51
DD only	1441	35.74	3518	87.25
None	514	12.75	4032	100.00

### **Appendix B: Methods Notes on Imputation of Missing Values**

The 2011 Survey of Pathways to Diagnosis and Services (Pathways) is a follow-up survey of children with special health care needs (CSHCN) whose parents reported that they had been told that their child ever had autism spectrum disorder (ASD), intellectual disability, and/or developmental delay from the 2009-2010 National Survey of Children with Special Health Care Needs (NS-CSHCN). The Pathways survey provides a rich source of data for studying the relationships between socio-economic characteristics and parental concerns, diagnostic experience, and other health and services measures for CSHCN with ASD and related conditions. However, as is common for most household interview surveys, nonresponse rates can occasionally be higher for certain demographic questions. For the 2011 Pathways survey, socio-economic information of each Pathways-interviewed child was extracted from the 2009/10 NS-CSHCN. The following variables were observed to have more missing cases than desired and imputations were calculated: household income, race/ethnicity, highest education level of any parent in the household, household language and total number of adults in the household.

Imputation is one commonly used method for handling nonresponse data in a survey – especially when the proportion of missing, refused, or "don't know" responses exceed 5% or more of the total. Imputation accomplishes three things. First, it adjusts for observed differences between non-respondents and respondents to an item. Second, imputed response values permit bivariate and multivariate statistical analysis without the need to exclude cases that are missing a value for the imputed variable yet have valid responses on other items. Finally, imputation offers a standardized approach to resolving non-response issues and contributes to improved consistency and comparability of analyses conducted by many researchers. The National Center for Health Statistics (NCHS) website offers a downloadable file with multiple imputed income values for the 2011 Pathways survey. Interested users can access this file and accompanying instructions free of charge at: http://www.cdc.gov/nchs/slaits/imputed data.htm. The datasets provided by NCHS contain five sets of imputed values for each imputed variable in Pathways survey. These files are appropriate for use with software able to accommodate multiple imputation analyses and are available free of charge. All imputed variables in the DRC 2011 Pathways Dataset were generated using a single imputation value from the imputed data file. Analyses based upon single imputation procedures tend to underestimate standard error because they do not fully account for the inherent uncertainty resulting from lack of knowledge about the true values. The DRC Indicator Dataset also contains the non-imputed versions of each imputed variable in addition to the imputation flag for each variable indicating which cases were imputed and which were not.

For more information about downloadable multiple imputation files and a detailed report describing the options for using these data, go to <u>http://www.cdc.gov/nchs/slaits/imputed\_data.htm</u>.

Income: An index of income relative to the Department of Health and Human Services Federal Poverty Guidelines (FPL) is constructed based on reported household income and the reported number of people (adults and children) living in the household. To determine household income level, the parent survey (2009/10 NS-CSHCN) for Pathways contains a question about the total combined household income for the previous calendar year (C11Q01 from the 2009/10 NS-CSHCN). If the survey respondent answers "don't know" or "refused" to C11Q01, they are then asked a series of 'cascade' questions, assessing if their combined household income falls within certain ranges (C11Q01\_DON'TKNOW or C11Q01\_REFUSED and W9Q03-W9Q12A from the 2009/10 NS-CSHCN ). If the respondent did not provide any income information either from the original question or the cascade series following it, they were assigned an imputed income value. If the respondent did not

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#### Appendix B Methods Notes on Imputation of Missing Values

answer C11Q01 but provided a household income range based upon the cascade questions, they were also assigned an income value using an imputation procedure that anchored their imputed income value to the range they provided. The income variables are at the household level. In the Pathways interview file, 16.9% of 4032 interviewed cases were missing on income altogether, which resulted in imputed income. Please note that the process used to impute income for the Pathways parent survey, the 2009/10 NS-CSHCN, differs slightly from prior survey years of the NS-CSHCN.

<u>Other Imputed Variables</u>: Variables other than income were imputed in the 2009/10 NS-CSHCN. Below lists each imputed variable and the number of cases in the Pathways interview file that were missing and therefore imputed for that variable. RACER (child's race): 20 imputed cases; HISPANIC (Hispanic ethnicity of child):16 imputed cases; PLANGUAGE (primary household language): 1 imputed case; EDUCR (highest education level of any parent in the household): 23 imputed cases; TOTADULTR (total number of adults living in the household): 1 imputed case.

NCHS generates their imputed variables using complex, simultaneous imputation methods. Therefore, for each of the five imputations, income, race, family composition etc. are all simultaneously calculated and are meant to form a coherent portrait of the children whose data is being imputed. For this reason, using any single imputation should result in using that imputation cycle for ALL imputed variables.

The Data Resource Center chose to use <u>imputation 3</u> for all of the imputed variables from Pathways imputation file. This choice was randomly made.