Workshop on Using the National Survey of Children's Health Dataset: Practical Applications

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Centers for Disease Control and Prevention National Center for Health Statistics

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National Survey of Children's Health, 2003

U.S. Department of Health and Human Services Health Resources and Services Administration Maternal and Child Health Bureau

- Sponsored by HRSA's Maternal and Child Health Bureau
- Conducted by CDC's National Center for Health Statistics
- Part of the State and Local Area Integrated Telephone Survey (SLAITS) program

Agenda

- Brief description of the NSCH
- Key sociodemographic variables
- Weights and sampling variables
- Tips on preparing data for analysis
- Frequencies, crosstabs, and logistic regression examples in SUDAAN, SAS, and STATA

National Survey of Children's Health, 2003

U.S. Department of Health and Human Services Health Resources and Services Administration Maternal and Child Health Bureau

To produce national and state-based estimates on the health and well-being of children, their families, and their communities

Interview Process

- Independent random-digit-dial samples for all 50 states plus D.C.
- Screened households for children under 18 years of age
- One child under 18 years of age was randomly selected to be the target of the interview

Final Sample

102,353 completed interviews
Minimum: 1,483 in Utah
Maximum: 2,241 in Louisiana and Ohio
25 states have more than 2,000 each
Overall response rate: 55.3%
Minimum: 49.6% in New Jersey
Maximum: 64.4% in South Dakota
32 states were above 55%

Weighting and Estimation

- Sampling weights to permit national and state-specific estimates of health and wellbeing
- Sampling weights are adjusted for potential non-response biases
- Sampling weights are adjusted to account for non-coverage of non-telephone households

Locating SLAITS Data

- The SLAITS home page is located at http://www.cdc.gov/nchs/slaits.htm
- SLAITS Overview
- Key Features of the SLAITS Mechanism
- Frequently Asked Questions
- Existing Survey Modules

Key Variables on Public Use File

Key Variables on Public Use File: State of Residence

- Name: STATE
- Levels: Separate numeric code for each state

Key Variables on Public Use File:

- Name: AGEYR_CHILD
- Levels: Age in years
 - 0 = Younger than one year

Key Variables on Public Use File:

- Name: S1Q01
- Levels: 1 = male, 2 = female

Confidentiality

- Confidentiality was guaranteed to participants
- Section 308d of the Public Health Service Act (42 U.S.C. 242m):

"No information...may be used for any purpose other than the purpose for which it was supplied...[and] may not be published or released...if the particular establishment or person supplying the information or described in it is identifiable."

Prohibits the release of sub-state identifiers or contextual information Key Variables on Public Use File:

Name: RACER, RACEAIAN, RACEASIA, RACE_HI

Levels:

- RACER = White, Black, Other, Multirace
- RACEAIAN adds American Indian/AK Native
- RACEASIA adds Asian
- o RACE_HI adds Asian and Native Hawaiian / PI
- Only RACER can be used for national estimates

Key Variables on Public Use File: **Family Structure**

- Name: FAMSTRUCT
- Levels:
 - 1 = Two-parent biological/adoptive household
 - 2 = Two-parent household with at least one step-parent
 - 3 = One-parent household with a biological, step, foster, or adoptive mother and no father
 - 4 = All other family structures

Key Variables on Public Use File: **Relative Ages of Children**

- Name: AGEPOS4
- Levels:
 - 1 = Only child
 - 2 = Oldest child
 - 3 = Second oldest child
 - 4 = Third oldest child
 - 5 = Fourth oldest child or younger
- Note: This variable refers to the relative ages of children in the household. If the child has siblings over 17 years of age or unrelated children live in the household, this variable should not be interpreted as birth order.

Key Variables on Public Use File: Urban/Rural Identifier

- Name: MSA_STAT
- Levels: 1 = Yes, 0 = No
- Missing Data: MSA_STAT was suppressed in 16 states to protect the confidentiality of participants

Key Variables on Public Use File:

- Name: POVERTY_LEVELR
- Levels: 8 categories relative to the Federal Poverty Level
- Derived from: Total number of household members and household income value
- Missing Data: Total household members and/or household income were missing

Key Variables on Public Use File: Highest Education Achieved

- Name: EDUCATIONR
- Levels:
 - 1 = < 12 years</p>
 - 2 = 12 years (including high school graduate)
 - 3 = More than high school (including college graduates)

Key Variables on Public Use File: **Primary Language in Home**

- Name: PLANGUAGE
- Levels:
 - 1 = English
 - 2 = Any other language

Key Variables on Public Use File: Number of Adults in HH

- Name: TOTADULT3
- Note: This variable refers to the number of adults in the household. It has been topcoded at 3+.

Key Variables on Public Use File: Number of Children in HH

- Name: TOTKIDS4
- Note: This variable refers to the number of children in the household. It has been topcoded at 4+.

Top-Coded and Bottom-Coded Variables

- How many times (past 12 months) sample child (S.C.) saw a doctor, nurse, or other health care professional for preventative medical care ? (S4Q03R)
- How many times (past 12 months) S.C. go to a hospital emergency room about health? (S4Q04R)
- How many emergency room visits because of accident, injury, or poisoning (S4Q05R)
- Excluding emergency room visits, hospitalizations, and wellchild care, how many times in last 12 months did S.C. see a doctor, nurse, or other health care professional for sick-child care? (S4Q06R)

Top-Coded and Bottom-Coded Variables

- How old was S.C. when completely stopped breastfeeding or being fed breast milk? (S6Q60R)
- During past 12 months, about how many days did S.C. miss school because of illness or injury? (S7Q02R)
- During the past week, how many times did you or a family member take S.C. on any kind of outing (park, library, zoo, shopping, church, etc)? (S8Q01R)
- About how often does S.C. attend a religious service? (S8Q02R)
- How many times has S.C ever moved to a new address? (S11Q06R)

Key Variables on Public Use File: **Overweight**

Name: BMICLASS

Levels:

- 1 = Underweight
- 2 = Normal weight
- 3 = At risk of overweight
- 4 = Overweight

 Derived from: Parent-reported height and weight, which are top-coded and bottom coded (see HGHT_FLG and WGHT_FLG)

Weights and Sampling Variables

Use Weighted Data

- Sampling weights to permit national and state-specific estimates
- Sampling weights are adjusted for potential non-response biases
- Sampling weights are adjusted to account for non-coverage of non-telephone households

Only One Weight

WEIGHT_I

The same weight is used for national and state-level analyses.

Variance Estimation

- Sample design involved clustering of children within households and stratification of household within states.
- Therefore, SUDAAN, SAS survey procedures, STATA, or other such programs <u>must</u> be used to obtain estimates of variability and statistical significance.

Variance Estimation

- Several data users have noted that, within a given state, the NSCH sample was drawn as a simple random sample. Therefore, these data users have suggested that accurate variance estimates for a single state can be obtained from SAS if the sampling weights are normalized.
- This is not true. SAS does not adequately account for the heterogeneous sampling weights. Therefore, the standard errors provided by SAS for normalized weights are smaller than they should be.

Sampling Variables

Stratum: State (STATE)
 PSU: Household (IDNUMR)

In SUDAAN...

- PROC ... DESIGN=WR;
- NEST STATE IDNUMR;
- WEIGHT WEIGHT_I;

Statistical packages used to analyze Survey Data

- SUDAAN SUrvey DAta ANalysis
- Selected SAS procedures: SURVEYFREQ and SURVEYLOGISTIC
- STATA
- Taylor series linearization method for estimating population characteristics from complex survey data

Preparing the Data for Analysis

- Subsetting the population to analyze particular subgroups only
- Dealing with question non-response values like "Don't Know" and "Refused" responses
- Categorical variables in SUDAAN

Preparing the Data: Subsetting

- Don't subset (e.g., SAS "subsetting if statement", deleting unneeded records)
- Subsetting can delete entire PSUs from the sample design
- The software needs to "see" the entire design structure to accurately estimate the standard errors
- Use specific procedural statements (e.g SUPPOPN) to specify an analytic subgroup (e.g., males)

Preparing the Data: Item Non-Response

- Set "Don't Know" and "Refused" responses to missing values
- DK = 6, 96, 996, 9996
- RF = 7, 97, 997, 9997
- Variables with missing values set to "." are excluded from the analysis

Preparing the data: Categorical Variables

- SUDAAN variables require special preparation for some of types of analysis
 - Categorical variables must begin with 1 and increase in whole numbers with no integers missing
 - Yes/no 1/0 recode to 1/2
 - Subgroup and Levels statements
 - Will become clear when we look at sample programs
Statistics

Frequency distributions and Crosstabs

Logistic regression

General SAS and SUDAAN Syntax



- Sample Design statements
- o Computational statements
- Output specifications

Frequency Distributions: SUDAAN CROSSTAB Syntax

- PROC CROSSTAB DESIGN = WR;
 - NEST STATE IDNUMR;
 - WEIGHT WEIGHT_I;
 - SUBPOPN VAR1 = value;
 - SUBGROUP VAR2 VAR3 VAR4;
 - o LEVELS n2 n3 n4;
 - o TABLES VAR2 VAR3*VAR4;
 - PRINT NSUM WSUM ROWPER SEROW
 / STYLE = NCHS WSUMFMT = F7.0
 SEROWFMT = F5.4;

🥰 SAS - [DUC_	descriptive_sudaan.sas]				
🖹 File Edit V	iew Tools Run Solutions	/indow Help			
Explorer	×	*** Create Analytical Variables ***;			
Contents of 'SAS	Environment'	*** To use PROC CROSSTAB SUDAAN requires variable	s not to have a zero value ***;		
		*** All O=No values must be coded to 2=No***;			
Libraries	File Shortcuts	/* Use Special Needs Screener to Classify a Child	as Having a Special Need */		
		cshcn=2;			
		1f s2q06=1 or s2q09=1 or s2q12=1 or s2q16=1 or s	2q17=1 then cshcn=1;		_
Favorite	My Computer	/* s2q06 - Prescription Meds for a condition of	12 months or longer */		
Folders		/* s2q09 - Medical care, mental health, ed serv:	ces for 12 months or longer */		
		/* s2q12 - Limitation in abilities for a condit:	on for 12 months or longer */		
		/* s2q15 - Need special therapy for a condition	for 12 months or longer */		
		/* s2q17 - Emotional, behav problem for a condi	ion for 12 months or longer */		
		health = .;			
		if s2q01 in (1,2) then health=1; /* Health Sta	tus Excellent/Very Good */		
		if s2qU1 in (3,4,5) then health=2; /* Health Sta	tus Good/Fair/Poor */		
		healthO=health;			
		if health=2 then health0=0;			
		ageg1 = .;			
		if 0 <= ageyr_child <= 5 then ageg1 = 1;			
		if 6 <= ageyr_child <= 11 then ageg1 = 2;			
		if 12 <= ageyr_child <= 17 then ageg1 = 3;			
		/* s1qO1 - Male or Female	*/		
		/* s2q19 - Ever told by doctor had asthma	*/		
		/* s2q20 - Ever told by doctor had hearing or v:	sion problems */		
		/* s2q21 - Ever told by doctor had ADD	*/		
		/* racer - Race classification	*/		
		/* s4qO6r - How many times gone to doctor for sid	k care */		
		*** Recode Values to Missings ***;			
		array amiss(*) s1q01 s2q19 s2q20 s2q21 racer;			
		do 1 = 1 to dim(amiss);			
		1f amiss(1) in (6 7 .L .M .N) then amiss(1) =	-)		
		end;			
		if s4q06r in (96 97 .L .M .N) then s4q06r = .;			
		*** Recode O-No to 2-No ***;			
		array ano(*) s2q19 s2q20 s2q21;			
		do i = 1 to dim(ano);			
		if $ano(i) = 0$ then $ano(i) = 2;$			
		end;			
		*** Create New Variable Labels ***;			
		label			
		cshcn = "Child has Special Health Care Needs"			•
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Contents of 'SAS Environment'	value yesno	
	1='Yes'	
	2='No'	
Libraries File Shortcuts		
	value age1g	
	1 = "0-5 Years"	
	2 = "6-11 Years"	
Favorite My Computer	8 = "12-17 Years"	
Folders		
	/* SUDAAN requires sorting by STRATA and PSU prior to SURVEY PROCS */	
	□ proc sort;	
	by state idnumr;	
	run;	
	/* Demonstrate the CRUSSIAB Procedure */	
	title2 'Univariate Frequencies on Various Variables, All Unildren';	
	proc crosstan design-wr;	
	nest state lanumr;	
	weight weight_i;	
	subgroup situi racer agegi szeje szeze neartn csnch;	
	$\frac{1}{2} \frac{1}{2} \frac{1}$	
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	riormat agegi agerg, ;	
	riomat hostby yesno.	
	rformat sould yesno.	
	rioimat seq19 yesio. ,	
	rformat sould vesso :	
	setury coupled by the decwidth=4:	
	print nsum wsum rowper serow / style=NCHS:	
	title1 "Subpopulation Analysis";	
	title2 'Multi-variate Freqs: Overall Health by Asthma Status';	
	title3 "Using SUBPOPN Statement - Where RACE = White";	
	□ proc crosstab design=wr;	
	nest state idnumr;	
	<pre>weight weight_i;</pre>	
	subpopn racer=1;	
	subgroup racer s2q19 health ;	
	levels 4 2 2 ;	
	tables s2q19 * health;	
	rformat health yesno.;	
	rformat s2q19 yesno. ;	
	setenv colwidth=14 decwidth=4;	
	print nsum wsum rowper serow/style=NCHS;	
	run;	
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	Variance Estimation Met	hod: Taylor Ser.	ies (WR)							
	by: Is [S.C.] male or f	emale?.								
	Is [S.C.] male or									
	female?	Sample Size	Weighted Size	Row Percent	SE Row Percent					
	Total	102273.0000	72683578.7783	100.0000	0.0000					
	1 - MALE	52554.0000	37156066.9190	51.1203	0.2794					
	2 - FEMALE	49/19.0000	3552/511.8594	48.8797	0.2794					
	Variance Estimation Met	hod: Taylor Ser.	ies (WR) (White Black Mutiv	racial Other)						
	by. Hace classification	TOT ALL STATES	(white, black, math	aciai, other j.						
	hace classification for all states									
	(White,Black,Muti-									
	racial,Other)	Sample Size	Weighted Size	Row Percent	SE Row Percent					
	Total	95443.0000	65482063.9697	100.0000	0.0000					
	1 - WHITE ONLY	76403.0000	48883191.9201	74.6513	0.2791					
	2 - BLACK ONLY	10134.0000	10771195.6564	16.4491	0.2344					
	4 - OTHER	4407.0000	3396808.4771	5.1874	0.1041					
	Variance Estimation Met	hod: Taylor Ser	ies (WR)							
	by: Has a doctor or hea	lth professional	l ever told you the	at [S.C.] has as	thma?.					
	Has a doctor or									
	health									
	professional ever									
	told you that	Semple Size	Weighted Size	Bow Percent	SE Row Percent					
	[otor] has astring;	0126								
	Total	102135.0000	72586181.9278	100.0000	0.0000					
	Yes No	12202.0000	9040298.2229 63545883 7049	12.4546 87 5454	0.1869					
	NU	09933.0000	00040000.7049	07.9454	0.1009					
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	Variance Estimation N For Subpopulation: RA by: Has a doctor or P Health is Excellent	Method: Taylor Seri ACER = 1 health professional t/Very Good.	ies (WR) L ever told you the	at [S.C.] has ast	hma?, Child Overall	
	Has a doctor or health					
	told you that [S.C.] has asthma? Child Overall Health is					
	Excellent/Very					
	Good	Sample Size	Weighted Size	Row Percent	SE Row Percent	
	Total	76997 0000	49794799 9997	100 0000	0 0000	
	Yes	68466.0000	43104534.2209	88.3565	0.2101	
	No	7771.0000	5680249.6128	11.6435	0.2101	
	Yes					
	lotal Ves	8391.0000	5557150.2948 4071695 2139	100.0000	0.0000	
	No	2081.0000	1485455.0809	26.7305	0.8201	
	No					
	Total	67846.0000	43227633.5389	100.0000	0.0000	
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Logistic Regression: SUDAAN LOGISTIC/RLOGIST Syntax

PROC LOGISTIC DESIGN=WR;
PROC RLOGIST DESIGN=WR;
NEST STATE IDNUMR;
WEIGHT WEIGHT_J;
SUBGROUP IVAR1 IVAR2;
LEVELS 2 4
MODEL DVAR = IVAR1 IVAR2 IVAR3;
REFLEVEL IVAR1=Value1 IVAR2=Value2;

Logistic Regression: SUDAAN LOGISTIC/RLOGIST Syntax

PROC LOGISTIC DESIGN=WR;
 PROC RLOGIST DESIGN=WR;
 NEST STATE IDNUMR;
 WEIGHT WEIGHT_I;
 MODEL DVAR = IVAR1M IVAR2H IVAR2B

IVAR20 IVAR3;

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Results	- data temp;	
	set puf, nschpuf3 formatted;	
	*** Create Analytical Variables ***;	
	/* s2q54 - How would you describe condition of child's teeth */	
	/* s1q01 - Male or female: Male = 1	
	/* racer - Race classification: White, black, multiple, other */	
	(* s11g01 - Is sample child of hispanic origin: Yes = 1 */	
	,	
	if \$2054 in (1 2) then dveryge=1: /* Condition of teeth Excellent/Very Good */	
	if sold in (1,2) then every (1) / Condition of teeth God. Fair, a Poor X/	
	in saddy in (6,4,3) then diversigned, in condition of teeth dood, hair, of Pool by	
	if signal there will and the signal and the signal signal and the signal s	
	IT SIQUI-2 then male-U; /* Female */	
	nisprace;	
	if racer=1 then hisprace=2; /* Non-hispanic white */	
	if racer=2 then hisprace=3; /* Non-hispraic black */	
	if racer in (3,4) then hisprace=4; /* Non-hispanic other */	
	if s11q01=1 then hisprace=1; /* Hispanic */	
	hiepanic≓ : /* Dummy yariable hiepanic */	
	if bisnrarge1 then bisnanic=1:	
	if hisprace in (2.8.4) then hispanic=0.	
	in hispitale in (eje) () then hispitale of	
	nh black=.: /* Dummy variable non-hispanic black */	
	if hisprace=3 then nh black=1:	
	if hisprace in (1.2.4) then h black=0:	
	nh_other=.; /* Dummy variable non-hispanic other */	
	if hisprace=4 then nh_other=1;	
	if hisprace in (1,2,3) then nh_other=0;	
	*** Recode Values to Missings ***;	
	if s1q01 in (. <mark>M,6,7</mark>) then s1q01 = .;	
	*** Create New Variable Labels ***;	
	label	
	<pre>male = "Dummy variable for males"</pre>	
	hispanic = "Dummy variable for hispanics"	
	nh_black = "Dummy variable for non-hispanic blacks"	
	nh_other = "Dummy variable for non-hispanic others"	
	hisprace = "Composite race ethnicity variable"	
	<pre>dvexvg = "Child Dental Health is Excellent/Very Good"</pre>	
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Results	/* Create Value Lab	els */			
	proc format;				
	value hrace				
	1='Hispanic'				
	2='NH White'				
	S='NH Black'				
	4='NH Other':				
	run:				
	1 411)				
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	/^ SULAAN requires	SOFTING BY STRATA and PS	SU PRIOR TO SURVEY PRUCS A/		
	Eproc sort;				
	by state idnumr;				
	run;				
	/* Logistic Regress	ion Using Dummy Variable	26 ×/		
	title2 'Oral Health	Ex/VG by Demographics:	binary dummy variables';		
	□ proc rlogist sudda	ata=temp filetype=sas de	sign=wr;		
	nest state idnumr;				
	<pre>weight weight_i;</pre>				
	model dvexvg = agev	r child male hispanic nh	n black nh other;		
	run:		^		
	,				
	/* Lenietie Dennes	ien Univer DEELEVEL Otat			
	/^ LOGISTIC Regress	ION USING REFLEVEL STATE	amerit ^)		
	title2 'Oral Health	Ex/VG by Demographics:	categorical variables';		
	□ proc rlogist sudd:	ata=temp filetype=sas de	sign⊐wr;		
	nest state idnumr;				
	<pre>weight weight_i;</pre>				
	subgroup s1q01 hisp	race;			
	levels 2 4;				
	<pre>model dvexvg = agey</pre>	r_child s1qO1 hisprace;			
	reflevel s1q01=2 hi	sprace=2;			
	rformat hisprace hr	ace.;			
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Response variable DVEXVG: Child Dental Health is Excellent/Very Good by: Independent Variables and Effects.

Independent Variables and Effects	Beta Coeff.	SE Beta	Lower 95% Limit Beta	Upper 95% Limit Beta	T-Test B=0	P-value T-Test B=0
Intercept Derived. Age in years of selected	1.65	0.03	1.59	1.72	49.89	0.0000
child	-0.04	0.00	-0.05	-0.04	-16.97	0.0000
Dummy variable for						
males	-0.09	0.03	-0.15	-0.04	-3.48	0.0005
Dummy variable for						
hispanics	-1.36	0.04	-1.44	-1.29	-36.47	0.0000
Dummy variable for non-hispanic blacks	-0.73	0.04	-0.81	-0.66	-19.10	0.0000
Dummy variable for non-hispanic						
others	-0.44	0.06	-0.56	-0.32	-7.04	0.0000

by: Contrast.

Contrast	Degrees of Freedom	Wald F	P-value Wald F
OVERALL MODEL MODEL MINUS	6	1014.69	0.0000
INTERCEPT	5	335.56	0.0000
INTERCEPT	1	2488.62	0.0000
AGEYR_CHILD	1	288.12	0.0000
MALE	1	12.14	0.0005
HISPANIC	1	1330.12	0.0000
NH_BLACK	1	364.99	0.0000
NH_OTHER	1	49.59	0.0000

by: Independent Variables and Effects.

Independent

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Variables and Effects	Odds Ratio	Lower Limit	95% OR	Upper Limit	95% OR
Intercept Derived. Age in years of selected	5.23		4.90		5.58
child	0.96		0.95		0.96
Dummy variable for males	0.91		0.86		0.96
Dummy variable for					
hispanics	0.26		0.24		0.28
Dummy variable for non-hispanic					
blacks	0.48		0.45		0.52
Dummy variable for non-hispanic					
others	0.64		0.57		0.73

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Response variable DVEXVG: Child Dental Health is Excellent/Very Good by: Independent Variables and Effects.

Independent Variables and Effects	Beta Coeff.	SE Beta	Lower 95% Limit Beta	Upper 95% Limit Beta	T-Test B=0	P-value T-Test B=0
Intercept	1.65	0.03	1.59	1.72	49.89	0.0000
Derived. Age in years of selected						
child	-0.04	0.00	-0.05	-0.04	-16.97	0.0000
Is [S.C.] male or						
female?						
1 - MALE	-0.09	0.03	-0.15	-0.04	-3.48	0.0005
2 - FEMALE	0.00	0.00	0.00	0.00		
Composite race						
ethnicity variable						
Hispanic	-1.36	0.04	-1.44	-1.29	-36.47	0.0000
NH White	0.00	0.00	0.00	0.00		
NH Black	-0.73	0.04	-0.81	-0.66	-19.10	0.0000
NH Other	-0.44	0.06	-0.56	-0.32	-7.04	0.0000

Response variable DVEXVG: Child Dental Health is $\ensuremath{\mathsf{Excellent}}\xspace/Very$ Good by: Contrast.

Contrast	Degrees of Freedom	Wald F	P-value Wald F		
OVERALL MODEL MODEL MINUS	6	1014.69	0.0000		
INTERCEPT	5	335.56	0.0000		
INTERCEPT					
AGEYR_CHILD	1	288.12	0.0000		
S1Q01	1	12.14	0.0005		
HISPRACE	3	499.86	0.0000		

Response variable DVEXVG: Child Dental Health is Excellent/Very Good by: Independent Variables and Effects.

Independent Variables and Effects	Odds Ratio	Lower Limit	95% OR	Upper Limit	95% OR
Intercent	5.23		4.90		5.58
Derived. Age in	0.00				
years of selected					
child	0.96		0.95		0.96
Is [S.C.] male or					
female?					
1 - MALE	0.91		0.86		0.96
2 - FEMALE	1.00		1.00		1.00
Composite race					
ethnicity variable					
Hispanic	0.26		0.24		0.28
NH White	1.00		1.00		1.00
NH Black	0.48		0.45		0.52
NH Other	0.64		0.57		0.73

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Frequency Distributions: SAS SURVEYFREQ Syntax

PROC SURVEYFREQ;

- STRATA **STATE**;
- CLUSTER IDNUMR;
- WEIGHT WEIGHT_I;
- TABLES VAR1 VAR2*VAR3 / display options;
- o FORMAT VAR1 fmt1. VAR2 fmt2.;

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🚰 Eile Edit Yiew Tools Run Solution	s <u>W</u> indow <u>H</u> elp				_ <u>_</u>
Results	×** Create Analyt:	cal Variables ***;			
📅 Results	/* Use Special New	ds Screener to Classify	a Child as Having a Special Need	d */	
	cshcn=0;				
	if s2q06=1 or s2q)9=1 or s2q12=1 or s2q16	5=1 or s2q17=1 then cshcn=1;		
	/* s2q06 - Presci	iption Meds for a condi	tion of 12 months or longer	*/	
	/* s2q09 - Medic:	l care, mental health, 🕬	ed services for 12 months or long	ger */	
	/* s2q12 - Limit:	tion in abilities for a	condition for 12 months or longe	er */	
	/* s2q15 - Need s	pecial therapy for a co	ndition for 12 months or longer	*/	
	/* s2q17 - Emotio	nal, behav problem for	a condition for 12 months or long	ger */	
	health = .;				
	if s2q01 in (1,2)	then health=1; /* Hea	alth Status Excellent/Very Good *	9	
	if s2q01 in (3 , 4 ,	5) then health=0; /* Hea	alth Status Good/Fair/Poor *	9	
	ageg1 = .;				
	if 0 <= ageyr_ch:	.1d <= 5 then ageg1 = 1	;		
	if 6 <= ageyr_ch:	.1d <= 11 then ageg1 = 2	2;		
	if 12 <= ageyr_ch	ild <= 17 	3;		
	/* s1qO1 - Male (or Female	*/		
	/* s2q19 - Ever *	old by doctor had asthm	a */		
	/* s2q20 - Ever *	old by doctor had hearing	ng or vision problems */		
	/* s2q21 - Ever *	old by doctor had ADD	*/		
	/* racer - Race (lassification	*/		
	/* s4q06r - How ma	my times gone to doctor	for sick care */		
	*** Recode Values	to Missings ***;			
	array amiss(*) s10	101 s2q19 s2q20 s2q21 ra	cer;		
	do i = 1 to dim(a	iiss);			
	if amiss(i) in (57.L.M.N) then ami	ss(i) = .;		
	end;				
	if s4q06r in (96	97 .L .M .N) then s4qO6	5r = .;		
	*** Create New Va	`iable Labels ***;			_
	label				
	cshcn = "Child	has Special Health Care	Needs"		
	health = "Child	Overall Health is Excel	lent/Very Good"		
	ageg1 = "Age o"	Child Grouping 1"			
	;				
	run;				
	proc format;				
	value yesno				
	0 = "No"				
	1 = "Yes"				
	H i				
	value age1g				
1	1 = "0-5 Years"				_
1					Þ
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Results 🛛 🔟			_
🔂 Results	Eproc format;		
	value yesno		
	0 = "No"		
	1 = "Yes"		
	;		
	value age1g		
	1 = "0-5 Years"		
	2 = "6-11 Years"		
	3 = "12-17 Years"		
	run;		
	/* SAS does not require sorting by STRATA and PSU prior to SURVEY PROCS */		
	/* Demonstrate the SURVEYFREQ Procedure */		
	title2 'Univariate Frequencies on Various Variables, All Children';		
	Eproc surveyfreq;		
	strata state;		
	cluster idnumr;		
	weight weight_i;		
	tables s1q01 racer ageg1 s2q19 s2q20 s2q21 health cshcn		
	/ row nowt /*cl*/;		
	format ageg1 age1g. cshcn health yesno.;		
	run;		
	title1 "Subpopulation Analysis";		
	title2 'Multi-variate Freqs: Overall Health by Asthma Status, Within Race';		
	□proc surveyfreq;		
	strata state;		
	cluster idnumr;		
	weight weight_1;		
	tables racer * s2q19 * health / row nowt /*cl*/;		
	format sumcont catcont. ageg1 age1g. cshcn health yesno.;		
	run;		
Results Q Explorer	Output - (Untitled)		
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		The SAS Syste	:M			
Ur	nivariate Frequencies	; on Various V	'ariables, Al	ll Children		-1
	The S	URVEYFREQ Pro	cedure			
		Data Summary	,			
	Number of C	Observations	102353	3		
	Sum of Weig	ihts	72736966	5		
	Is <mark>[</mark> S.	C.] male or f	emale?			
				Std Err of		
	S1Q01	Frequency	Percent	Percent		
	1 - MALE	52554	51.1203	0.2794		
	2 - FEMALE	49719	48.8797	0.2794		
	Total	102273	100.000			
	Frequ	Jency Missing	= 359			
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hate	CIRCUICATION ION S	arr srares (wu	IIL8, DIACK, MU	JEINACIAI, OLNER	1	
	BACEB	Frequency	Percent	Std Err of		
-	nacen	rrequency	rencent	rencent		
	1 - WHITE ONLY	76403	74.6513	0.2788		
	2 - BLACK UNLY	10134	16.4491	0.2342		
	4 - OTHER	4499	5.1874	0.1796		
Has a doct	or or health profess:	ional ever to	ld you that	[S.C.] has ast	hma?	
				Std Err of		
	82019	Frequency	Percent	Percent		
	0 - NO	89933	87.5454	0.1869		
	1 - YES	12202	12.4546	0.1869		
	Total	102135	100.000			
	Frequ	Jency Missing	= 338			

📴 DUC_descriptive_sas.sas 🚊 DUC_descriptive_sas.log 🖺 DUC_descriptive_sas - scr shot set 1a.lst

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58 3 Read Ovr Block Sync Rec Caps

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										S2Q19	h	ealth	Fre	quency	Perc	ent:	Std E Pe	rr of rcent	Row Percent	e Ro	otd Err o w Percer	f t				
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												Total		8391	11.8	912	0	.1949	100.000			-				
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												Total		76237	100.	000						_				
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180 28 Read Ovr Block Sync Rec Caps

Logistic Regression: SAS SURVEYLOGISTIC Syntax

PROC SURVEYLOGISTIC;

- STRATA STATE ;
- CLUSTER IDNUMR;
- WEIGHT WEIGHT_I;
- O CLASS IVAR1 (param=ref ref='VALUE');
- MODEL DVAR = IVAR1 IVAR2 IVAR3;
- o FORMAT IVAR1 fmt1. IVAR2 fmt2.;

Logistic Regression: SAS SURVEYLOGISTIC Syntax

PROC SURVEYLOGISTIC;

- STRATA STATE ;
- CLUSTER IDNUMR;
- WEIGHT WEIGHT_I;
- MODEL DVAR = IVAR1M IVAR2 IVAR3;
- o FORMAT IVAR1 fmt1. IVAR2 fmt2.;

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Contents of 'SAS Environment'	🗆 data temp;	
	set puf.nschpuf3_formatted;	
Libraries File Shortcuts	*** Create Analytical Variables ***;	
	/* s2q54 - How would you describe condition of child's teeth */	
	/* siq01 - Male or female: Male = 1 */	
	/* racer - Race classification: White, black, multiple, other */	
Favorite My Computer Folders	/* s11q01 - Is sample child of hispanic origin: Yes = 1	
	dvexvg=.;	
	if s2q54 in (1,2) then dvexvg=1; /* Condition of teeth Excellent/Very Good */	
	if s2q54 in (8,4,5) then dvexvg=0; /* Condition of teeth Good, Fair, or Poor */	
	male=.;	
	if s1q01=1 then male=1; /* Male */	
	if s1q01=2 then male=0; /* Female */	
	hisprace=.:	
	if racer=1 then hisprace=2; /* Non-hispanic white */	
	if racer=2 then hisprace=3; /* Non-hispanic black */	
	if racer in (3,4) then hisprace=4; /* Non-hispanic other */	
	if s11qO1=1 then hisprace=1; /* Hispanic */	
	hispanic=.; /* Dummy variable hispanic */	
	if hisprace=1 then hispanic=1;	
	if hisprace in (2,3,4) then hispanic=0;	
	nh_black=.; /* Dummy variable non-hispanic black */	
	if hisprace=3 then nh_black=1;	
	if hisprace in (1,2,4) then nh_black=0;	
	nh_other=.; /* Dummy variable non-hispanic other */	
	if hisprace=4 then nh_other=1;	
	if hisprace in (1,2,3) then hh_other=U;	
	*** Recode Values to Missings ***;	
	if s1q01 in (. M,6,7) then s1q01 = .;	
	*** Create New Variable Labels ***;	
	label	
	male = "Dummy variable for males"	
	hispanic = "Dummy variable for hispanics"	
	nh_black = "Dummy variable for non-hispanic blacks"	
	nh_other = "Dummy variable for non-hispanic others"	
	hisprace = "Composite race ethnicity variable"	
	dvexvg = "Unild Dental Health is Excellent/Very Good"	
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Contents of 'SA	S Environment'		/* Create Value L	abels */				
			<pre>proc format;</pre>					
			value hrace					
Libraries	File Shortcuts		1='Hispanic'					
_			2='NH White'					
			S='NH Black'					
 P			4='NH Other';					
Favorite	My Computer		run;					
			<pre>/* Logistic Regre title2 'Oral Heal proc surveylogi strata state; cluster idnumr; weight weight_i; model dvexvg(desc run; /* Logistic Regre title2 'Oral Heal proc surveylogi strata state; cluster idnumr; weight weight_i;</pre>	<pre>ssion Using Dummy Vari th Ex/VG by Demographic stic data = temp; ending) = ageyr_child of ssion Using REFLEVEL S th Ex/VG by Demographic stic data = temp;</pre>	ables */ cs: binary dummy varia male hispanic nh_black tatement */ cs: categorical variab	nh_other;		
			Class siqui(param	=ret ret='2 - FEMALE') ording) = agovr child (hisprace(param=ref re sig01 bispraco;	-='NH White');		
			format hisprace h	race.;	sidoi urshigce;			
			run;					
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- Results			Output - (Untitled)	Log - (Untitled)	DUC_logistic_sas.s	35		
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The SAS System 14:32 Oral Health Ex/VG by Demographics: binary dummy variables

The SURVEYLOGISTIC Procedure

Testing Global Null Hypothesis: BETA=0

Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	4528247.43	5	<.0001
Score	4628495.06	5	<.0001
Wald	1677.8326	5	<.0001

Analysis of Maximum Likelihood Estimates

			Standard	Wald	
Parameter	DF	Estimate	Error	Chi-Square	Pr > ChiSq
Intercept	1	1.6545	0.0332	2488.5080	<.0001
AGEYR_CHILD	1	-0.0449	0.00264	288.1062	<.0001
male	1	-0.0938	0.0269	12.1380	0.0005
hispanic	1	-1.3627	0.0374	1330.1952	<.0001
nh_black	1	-0.7330	0.0384	364.9904	<.0001
nh other	1	-0.4400	0.0625	49.5898	<.0001

Odds Ratio Estimates

Effect	Point Estimate	95% Wa Confidence	ld Limits
AGEYR_CHILD	0.956	0.951	0.961
male _	0.910	0.864	0.960
hispanic	0.256	0.238	0.275
nh_black	0.480	0.446	0.518
nh_other	0.644	0.570	0.728

Association of Predicted Probabilities and Observed Responses

Percent	Concordant	61.1	Somers' [D	0.245
Percent	Discordant	36.6	Gamma		0.251
Percent	Tied	2.3	Tau-a		0.097
Pairs		1752983040	с		0.623

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		The SAS Syst	tem				
	Oral Health Ex/VG	by Demographic:	s: categor	ical variables			
	The	SURVEYLOGISTIC	Procedure				
	Testing G	lobal Null Hypot	thesis: BE	TA=0			
	-	21					
	Test	Chi-Square	DF	Pr > ChiSq			
	Liber Liber of Destin	4500047 40	~				
	Score	4526247.43 4628495 NB	5	<.0001			
	Wald	1677.8326	5	<.0001			
			· ·				
	Analysis	of Maximum Like:	lihood Est	imates			
			Standard	Wald			
Parameter	DF	Estimate	Error	Chi-Square	Pr > ChiSq		
Intercept	1	1.6545	0.0332	2488.5080	<.0001		
AGEYR_CHIL	D 1	-0.0449	0.00264	288.1062	<.0001		
51001	1 - MALE 1	-0.0938	0.0269	12.1380	0.0005		
nisprace	Hispanic 1	-1.3627	0.0374	1330.1952	<.0001		
hisprace	NH DIACK I	-0.7330	0.0304	40 5009	<.0001		
		Odds Ratio Est:	imates				
			Point	95% Wa	1d		
Effect			Estimate	Confidence	Limits		
AGEYB	CHILD		0.956	0.951	0.961		
S1Q01	1 - MALE vs	2 - FEMALE	0.910	0.864	0.960		
hispra	ce Hispanic vs N	H White	0.256	0.238	0.275		
hispra	ce NH Black vs N	H White	0.480	0.446	0.518		
hispra	ce NH Other vs N	H White	0.644	0.570	0.728		
	Association of Pred	icted Probabili	ties and O	hserved Besnon	585		
	Percent Concorda	nt 61.1	1 Somer	s'D 0.245			
	Percent Discorda	nt 36.1	6 Gamma	0.251			
	Percent Tied	2.3	3 Tau-a	0.097			
	Pairs	175298304	0 с	0.623			
							_
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						213 35	Read Ovr Block Sync Rec Caps

Frequency Distributions: STATA SVY: TABULATE Syntax

 SVYSET [PWEIGHT=WEIGHT_I], STRATA(STATE) PSU(IDNUMR)

SVY:TABULATE V1 V2

- Declare analysis variables
- Declare the method used for variance estimation
- Request specific table items such a standard errors, confidence limits, and row or column proportions
- Request additional test statistics such as Chi-square or likelihood ratios
- Define subgroup analyses

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Tel Edit Search View Tools Macros Configure Window Help	X
*** create analytical variables ***;	
*** Use Special Needs Screener to Classify a Child as Having a Special Need ***; generate cshcn - 0:	
replace cshch = 0; replace cshch = 1 if s2q06==1 s2q09==1 s2q12==1 s2q15==1 s2q17==1;	
** s2q06 - Prescription Meds for a condition of 12 months or longer **;	
"" s2qU9 - Medical care, mental health, ed services for 12 months or longer ""; ** s2q12 - Limitation in abilities for a condition for 12 months or longer "*:	
** s2q15 - Need special therapy for a condition for 12 months or longer **;	
** s2q17 - Emotional, behav problem for a condition for 12 months or longer **;	
generate health = .:	
replace health = 1 if s2q01==1 s2q01==2;	
replace health = 0 if s2q01==3 s2q01==4 s2q01==5;	
depende adedi	
replace ageg1 = 1; replace ageg1 = 1 if agevr child <= 5;	
replace ageg1 = 2 if ageyr_child >= 6 & ageyr_child <= 11;	
replace ageg1 = 3 if ageyr_child >= 12 & ageyr_child <= 17;	
* s1g01 - Male or Female	
* s2q19 - Ever told by doctor had asthma ;	
* s2q20 - Ever told by doctor had hearing or vision problems ;	
* s2q21 - Ever told by doctor had ADD ;	
* s4g06r - How many times gone to doctor for sick care ;	
*** Recode values to missings ***;	
recode sign 6 7 96 97 .1 .m .n = .; recode s2a19 6 7 96 97 .1 .m .n = .;	
recode s2q20 6 7 96 97 .1 .m .n = .;	
recode s2q21 6 7 96 97 .1 .m .n = .;	
recode racer 6 7 96 97 .1 .m .n = .; recode e4006r 96 97 .1 .m .n = .;	
*** Create new variable labels ***;	
label variable csnch "Child has Special Health Care Needs"; label variable bealth "Child Overall Health is Excellent/Very Good":	
label variable ageg1 "Age of Child Grouping 1";	
label define vesno	
0 "No"	
1 "Yes"	
; label define age1g	
1 "0-5 Years"	
2 "6-11 Years"	
3 "12-17 Years"	
label values health yesno;	
label values csnch yesho;	-1
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state	State of residence	i i			
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totkids4	How many people				
agepos4	Age position of the	i i i			
s1q01	Is [S.C.] male or fe				
relation totadult2	Derived, Hespond				
educationr	What is the highe			log op (text)	
planguage	What is the primar			Jog on (coxe))
s2q01	In general, how w	Command			
s2qU2r babt fla	How tall is [S.U.] r	1			
s2a03r	How much does [
wght_flg	Flag indicating sai				
bmiclass	Derived. BMI for a				
s2qU4 •2q05	Does [S.U.] currer				
s2q05	Is this a condition				
s2q07	Does [S.C.] need				
s2q08	Is [his/her] need f				
s2q09	Is this a condition				
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		0 - NO	9.704	90.3	100				
			(.2094)	(.2094)					
			[9.301,10.12]	[89.88,90.7]					
		1 - YES	26.73	73.27	100				
			(.8201)	(.8201)					
			[25.15,28.37]	[/1.63,/4.85]					
		Total	11.64	88.36	100				
u			(.2101)	(.2101)					
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s9q18	Would you say the	Pearson:							
s9q19 s9q20	Would you say the	Uncorrect	ed chi2(1)	= 2904.124	3				
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Logistic Regression: STATA SVY:LOGIT

- SVYSET [PWEIGHT=WEIGHT_I], STRATA(STATE) PSU(IDNUMR)
- SVY: LOGIT DVAR1 IVAR1 IVAR2 IVAR3, OR
 - Declare dependent analysis variable
 - Define subgroup analyses
 - o Declare the method used for variance estimation
 - Declare reporting specifications such as the confidence interval levels and request odds ratios or dependent variable coefficients
 - Define the maximum number or iterations to run

TextPad - [C:\Data SLAITS\MCHB Epi 2006\DUC_logistic_stata_sub.do]	_ 문 ×
*** create analytical variables ***; ** s2q54 - How would you describe condition of child's teeth **; ** s1q01 - Male or female: Male = 1 **; ** racer - Race classification: White, black, multiple, other **; ** s11q01 - Is sample child of hispanic origin: Yes = 1 **;	T
generate dvexvg = .; replace dvexvg = 1 if s2q54==1 s2q54==2; replace dvexvg = 0 if s2q54==3 s2q54==4 s2q54==5;	
generate male = .; replace male = 1 if s1q01==1; replace male = 0 if s1q01==2;	
generate hisprace = .; replace hisprace = 2 if racer == 1; replace hisprace = 3 if racer == 2; replace hisprace = 4 if racer == 3 racer == 4; replace hisprace = 1 if s11q01 == 1;	
generate hispanic = .; replace hispanic = 1 if hisprace == 1; replace hispanic = 0 if hisprace == 2 hisprace == 3 hisprace == 4;	
generate nh_black = .; replace nh_black = 1 if hisprace == 3; replace nh_black = 0 if hisprace == 1 hisprace == 2 hisprace == 4;	
generate nh_other = .; replace nh_other = 1 if hisprace == 4; replace nh_other = 0 if hisprace == 1 hisprace == 2 hisprace == 3;	
*** Recode Values to Missings ***; recode s1q01 6 7 .l .m .n = .;	
*** Create new variable labels ***; label variable male "Dummy variable for males"; label variable hispanic "Dummy variable for hispanics"; label variable nh_black "Dummy variable for non-hispanic blacks"; label variable nh_other "Dummy variable for non-hispanic others"; label variable hisprace "Composite race ethnicity variable"; label variable dvexvg "Child Dental Health is Excellent/Very Good";	
*** Create variable value formats ***; label define hrace 1 "Hispanic" 2 "NH White" 3 "NH Black" 4 "NH Other" ;	
label values hisprace hrace;	×.
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Survey: Logistic regression

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state	State of residence		
msa_stat	Metropolitan Stati:		
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totkids4	How many people		
agepos4	Age position of the		
s1q01	Is [S.C.] male or fe		
relation	Derived. Respond		
totadult3	Total number of a		
educationr	What is the highe	log on (kovt)	
planguage	What is the prima	jog of (text)]
s2q01	In general, how w	Command	
s2q02r	How tall is [S.C.] r		
hght_flg	Flag indicating sa		
s2q03r	How much does [
wght_flg	Flag indicating sa		
bmiclass	Derived, BMI for a		
s2q04	Does [S.C.] currer		
s2q05	Is [his/her] need f		
s2q06	Is this a condition		
s2q07	Does [S.C.] need		
s2q08	Is [his/her] need f		
s2q09	Is this a condition		
s2q10	Is [S.C.] limited or		
s2q11	Is [his/her] limitatic		
s2q12	Is this a condition		
s2q13	Does [S.C.] need		
s2q14	Is [his/her] need f		
	<u> </u>	<u> </u>	
CHARCH			

For More Information...

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