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The Experiences of SCHIP Enrollees and Disenrollees in 10 States: Findings from the Congressionally Mandated SCHIP Evaluation: Appendixes

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APPENDIX A

SURVEY INSTRUMENT

SECTION 1: INTRODUCTION (NOT IN PUBLIC ACCESS FILE)

FOR CALL BACKS OF AN IDENTIFIED PERSON, START WITH 1.9

Hello, my name is (INTERVIEWER NAME), and I'm calling from Mathematica Policy Research in Princeton, NJ.

We are doing a study for the U.S. Department of Health and Human Services about (SCHIP/MEDICAID), the health insurance program (CHILD) has been enrolled in.

The study is about what works well for children in (SCHIP/MEDICAID), and what does not work so well, and to hear about people's experiences with the program.

PROBE (IF RESPONDENT DOES NOT KNOW PROGRAM): (SCHIP/MEDICAID) is the health insurance program that covers medical and dental care expenses for children. You may also know this program as (NAME OF PLAN).

PROBE (IF RESPONDENT SAYS (CHILD) NO LONGER IN PROGRAM) That is ok. We are very interested in people's experiences with the program for children no longer in (SCHIP/MEDICAID).

PROBE IF NECESSARY: Mathematica Policy Research in Princeton, NJ is conducting this study for the U.S. Department of Health and Human Services to determine if children are getting the health care they need throughout the United States.

01	YES	GO TO 1.5
02	NO	GOT TO 1.2
D	DK	Thank you very much. Good-bye.
R	REF	Thank you very much. Good-bye.

1.1 Is (CHILD) living in your household right now?

1.2 Can you tell me how to get in touch with someone where the child is living now?

PROBE: Your information is confidential. We will only use this information to contact an adult living with (CHILD) about (SCHIP/MEDICAID).

01	YES	GO TO 1.4
02	NO	Thank you very much.
D	DK	Good-bye.
R	REF	

1.4 PLEASE ASK AND RECORD NAME OF CONTACT PERSON, ADDRESS AND/OR TELEPHONE NUMBER.

IF PERSON CAN ONLY PROVIDE TELEPHONE NUMBER, ASK IF CHILD IS STILL LIVING IN (STATE SAMPLE WAS SELECTED FROM).

NAME OF PERSON TO CONTACT	
STREET ADDRESS	
CITY	
STATE AND ZIP CODE	
TELEPHONE NUMBERS	
BEST DATES TO CALL	
BEST TIMES TO CONTACT	

Thank you very much for your help. I will contact the person you mentioned. Good-bye.

01	YES	
02	NO	GO TO 1.6
d	DK	
r	REF	

1.5 Are you the person who is most familiar with (CHILD)'s health and health care?

1.5.1 Are you 18 years of age or older?

01	YES	GO TO 1.10
02	NO	GO TO 1.5.2
d	DK	
r	REF	

1.5.2 Are you (CHILD)'s biological parent?

01	YES	GO TO 1.10
02	NO	GO TO 1.6
d	DK	
r	REF	

1.6 I need to speak with someone who is 18 or older or who is the biological parent of (CHILD) and who is the person familiar with (CHILD)'s healthcare. May I please speak with that person?

01	YES	GO TO 1.9
02	NOT AVAILABLE	GO TO 1.7
d	DK	
r	REF	Thank you very
		much. Good-bye.

1.7 GET NAME OF PERSON AND TIME TO CALL.

NAME OF PERSON	
BEST DATES TO CALL	
BEST TIMES TO CALL	
REFUSED	Thank you very much. Good-bye.

Thank you very much. I will call this person back later.

IF THIS IS A CALLBACK TO PERSON ESTABLISHED BY OTHER PERSON AS PERSON MOST FAMILIAR WITH CHILD HEALTH CARE START HERE

1.9.1 Hello, my name is (INTERVIEWER NAME), and I'm calling from Mathematica Policy Research in Princeton, NJ.

We are doing a study for the U.S. Department of Health and Human Services about (SCHIP/MEDICAID), the health insurance program (CHILD) has been enrolled in.

The study is about what works well for children in (SCHIP/MEDICAID), and what does not work so well, and to hear about people's experiences with the program.

PROBE (IF RESPONDENT DOES NOT KNOW PROGRAM): (SCHIP/MEDICAID) is the health insurance program that covers medical (and dental care) expenses for children (IF SCHIP/MEDICAID SAMPLE ADD: and families). You may also know this program as (NAME OF PLAN).

PROBE (IF RESPONDENT SAYS (CHILD) NO LONGER IN PROGRAM) That is ok. We are very interested in people's experiences with the program for children no longer in (SCHIP/MEDICAID).

ADDITIONAL INFORMATION IF NECESSARY: Mathematica Policy Research in Princeton, NJ is conducting this study for the U.S. Department of Health and Human Services to determine if children are getting the health care they need throughout the United States.

Are you the person who is most familiar with (CHILD)'s health and health care?

01	YES	
02	NO	GO TO 1.9.4
d	DK	
r	REF	
CHILD NOT IN		GO TO 1.9.7
HOUSEHOLD		

1.9.2 Are you 18 years of age or older?

01	YES	GO TO 1.10
02	NO	GO TO 1.9.3
d	DK	
r	REF	

1.9.3 Are you (CHILD)'s biological parent?

01	YES	GO TO 1.10
02	NO	GO TO 1.9.4
d	DK	
r	REF	

1.9.4 I need to speak with someone who is 18 or older or who is the biological parent of (CHILD) and who is the person familiar with (CHILD)'s healthcare. May I please speak with that person?

01	YES	GO TO 1.9.1
02	NOT AVAILABLE	GO TO 1.9.6
d	DK	
r	REF	Thank you very
		much. Good-bye.

1.9.6 GET NAME OF PERSON AND TIME TO CALL.

NAME OF PERSON	
BEST DATES TO CALL	
BEST TIMES TO CALL	
REFUSED	Thank you very much. Good-bye

Thank you very much. I will call this person back later.

- 1.9.7 Can you tell me how to get in touch with someone where the child is living now?
 - PROBE: Your information is confidential. We will only use this information to contact an adult living with (CHILD) about (SCHIP/MEDICAID).

01	YES	GO TO 1.9.9
02	NO	Thank you very much. Good-bye.

1.9.9 PLEASE ASK AND RECORD NAME OF CONTACT PERSON, ADDRESS AND/OR TELEPHONE NUMBER.

IF PERSON CAN ONLY PROVIDE TELEPHONE NUMBER, ASK IF CHILD IS STILL LIVING IN (STATE SAMPLE WAS SELECTED FROM).

FOR CHILD STILL IN STATE: Thank you very much for your help. I will contact the person you mentioned. Good-bye.

FOR CHILD MOVED OUT OF STATE: Thank you very much for your help. We will probably not contact this person because (CHILD) is now living in another State. Good-bye.

1.10 Can I please have your first and last name?

	FIRST NAME
	LAST NAME
d	DK
r	REF

NOTE: DO NOT ASK IF ALREADY KNOWN

1.10.1 So, why don't we get started with the interview?

It will only take about 30-35 minutes.

01	YES	GO TO 1.10.3
02	NO	GO TO 1.10.2

1.10.2 GET TIME TO CALL.

BEST DATES TO	
CALL	
BEST TIMES AND	
DATES TO CALL	
REFUSED	Thank you very much. Good-bye.

Thank you very much. I will call you back later.

IF THIS IS A CALLBACK TO PERSON WHO IDENTIFIED HIM/HERSELF AS THE PERSON TO BE INTERVIEWED, START HERE

1.10.3 First, I want to assure you that all information from this interview will be completely confidential and will not in any way affect (CHILD)'s health insurance or medical care.

Information you such as names and addresses will not be stored with information that you give us during the interview and will always be kept in a secure place. Only the researchers directly working on the study will have access to this information.

We will not report on your individual answers but the results of this study will always be presented by combining your answers with the answers of other respondents.

Before we begin, I need to tell you that for purposes of quality control my supervisor may monitor this call.

First, I need to ask you a few basic questions.

1.12 (DO NOT ASK IF ALREADY KNOWN) What is your relationship to (CHILD)?

MOTHER
FATHER
GRANDFATHER
GRANDMOTHER
AUNT
UNCLE
BROTHER (FULL, HALF,
ADOPTED)
SISTER (FULL, HALF, ADOPTED)
OTHER RELATIVE (SPECIFY)
OTHER NON-RELATIVE
IF FOSTER PARENT, TERMINATE
INTERVIEW FOR
(SCHIP/MEDICAID) SAMPLE
DK
REF

1.15 Just to verify my information, my records indicated that (CHILD) is a (BOY/GIRL). Is that correct?

01	YES
02	NO, GIRL
03	NO, BOY

1.16 I have (CHILD)'s birthday as (DATE OF BIRTH). Is that correct?

01	YES	GO TO NEXT SECTION
02	NO	GO TO 1.17
d	DK	
r	REF	

1.17 What is (CHILD)'s correct birthday?

MONTH
DAY
YEAR

SECTION 2: APPLICATION, ENROLLMENT, REDETERMINATION, AND DISENROLLMENT

My first questions will be about how you learned about (SCHIP/MEDICAID) and what you had to do to enroll and keep (CHILD) enrolled in the program.

First, I will read you a list of ways you may have heard or received information about (SCHIP/MEDICAID).

For each item, please tell me if you ever heard or received information about the program this way.

2.1.2.1 Have you ever heard or received information about (SCHIP/MEDICAID) on TV, the radio, or in the newspaper?

01	YES
02	NO
d	DK
r	REF

2.1.4 Have you ever heard or received information about (SCHIP/MEDICAID) when applying for another program, such as (MEDICAID/SCHIP), TANF/AFDC, WIC, or food stamps?

01	YES
02	NO
d	DK
r	REF

2.1.5 Have you ever heard or received information about (SCHIP/MEDICAID) at (CHILD)'s school or school related event?

01	YES
02	NO
d	DK
r	REF

2.1.8 Have you ever heard or received information about (SCHIP/MEDICAID) from a telephone hot line, help line, or referral service?

01	YES
02	NO
d	DK
r	REF

2.1.9 Have you ever heard or received information about (SCHIP/MEDICAID) in a hospital, emergency room, clinic, doctor's office, or pharmacy?

01	YES
02	NO
d	DK
r	REF

2.1.12 Have you ever heard or received information about (SCHIP/MEDICAID) at work or at a school you attend or attended?

01	YES
02	NO
d	DK
r	REF

2.1.13 Have you ever heard or received information about (SCHIP/MEDICAID) at a store, shopping center, or restaurant?

01	YES
02	NO
d	DK
r	REF

2.1.15 Have you ever heard or received information about (SCHIP/MEDICAID) at any other place or from any other person?

01	YES
02	NO
d	DK
r	REF

2.2 Was any of this information/Was this information important in making a decision to enroll (CHILD) in (SCHIP/MEDICAID)?

01	YES
02	NO
d	DK
r	REF

IF 2.1.2.1-2.1.15 MORE THAN ONE ANSWERED YES and 2.2=YES GO TO 2.2.1 ELSE GO TO 2.9

2.2.1 Which information was the most important in making the decision to enroll (CHILD) in (SCHIP/MEDICAID)?

Was it...

01-14	1=TV	8=Telephone
	2=Radio	9=Hospital
	3=Newspaper	10=Pharmacy
	4=Outreach	11=Work
	5=Welfare	12=Store
	6=School	13=Friend
	7=Church	14=Other
d	DK	
r	REF	

2.9 The next questions are about your experiences enrolling (CHILD) in (SCHIP/MEDICAID).

Has (SCHIP/MEDICAID) ever rejected (CHILD)'s application so he/she could not be enrolled in the program?

01	YES	GO TO 2.10
02	NO	GO TO 2.11
d	DK	GO TO 2.11
r	REF	GO TO 2.11

2.10.1-2.10.7

1	DIDN'T PROVIDE ALL PAPER	
	WORK/DOCUMENTS NEEDED	
2	EARNED TOO MUCH MONEY	
3	QUALIFIED FOR (MEDICAID/SCHIP)	
4	TOO OLD	
5	WAS INSURED BY OTHER	
	INSURANCE	
6	CHILD NEEDED TO BE UNINSURED	
	LONGER TO QUALIFY	
7	OTHER REASON	
d	DK	
r	REF	

- 2.11 Now, think about the times (CHILD) (IF 2.9=1 READ: successfully) was enrolled in (SCHIP/MEDICAID). How many times did that happen?
 - PROBE: Please do not include times you were required to renew or reapply for (CHILD) to stay in the program.

	TIMES
d	DK
r	REF

2.12 How old was (CHILD) when he/she was (IF 2.11>1 READ: first) enrolled in (SCHIP/MEDICAID)?

1	0 to 4
2	5 to 12
3	13 or older
d	DK
r	REF

2.13 Was that the first time a child in your household was enrolled in (SCHIP/MEDICAID)?

01	YES	
02	NO	
D	DK	
R	REF	

2.14 (MULTIPLE TIMES ENROLLED/2.11 > 1) Now think about the most recent time he/she was enrolled in (SCHIP/MEDICAID).

What was the main reason (CHILD) was enrolled in the program?

01	WANTED CHILD TO BE INSURED
02	PARENT LOST INSURANCE BECAUSE OF
	LOSS OF JOB OR CHANGE IN HOURS ON
	JOB
03	(SCHIP/MEDICAID) IS LESS EXPENSIVE
	THAN INSURANCE CHILD WAS COVERED
	UNDER
04	(SCHIP/MEDICAID) COVERAGE BETTER
	THAN INSURANCE CHILD WAS COVERED
	UNDER
05	NOT ELIGIBLE ANY LONGER FOR
	MEDICAID/SCHIP
06	OTHER REASON
d	DK
r	REF

2.17 How did you get the application form to enroll in (SCHIP/MEDICAID)?

Did you get the form...

01	In the mail	GO TO 2.17.1
02	Was it given to you or did you pick it up	GO TO 2.18
	somewhere	
03	Did you get it from a website on the Internet?	GO TO 2.19
d	DK	
r	REF	

2.17.1 Did you get the form in the mail because...

01	You requested the form from someone or	GO TO 2.18
	someplace	
02	Did the form just show up in the mail?	GO TO 2.19
d	DK	
r	REF	

2.18 (IF 2.17=02) Who gave the form to you or where did you pick it up?

(IF 2.17.1=01) Where or from whom did you request the form?

01	HOT/HELP TELEPHONE LINE
02	WELFARE OFFICE OR OTHER AGENCY OFFICE (OR
	SOCIAL WORKER OR OTHER STAFF THERE)
03	HOSPITAL, HOSPITAL EMERGENCY ROOM OR
	CLINIC (OR DOCTOR, NURSE OR OTHER STAFF
	THERE)
04	DOCTOR'S OFFICE (OR DOCTOR OR OTHER STAFF
	THERE)
05	PHARMACY (OR PHARMACIST OR OTHER STAFF
	THERE)
06	SCHOOL OF CHILD (OR STAFF AT THE SCHOOL)
07	CHURCH (OR CHURCH STAFF)
08	COMMUNITY CENTER (OR STAFF THERE)
09	STORE OR SHOPPING CENTER (OR STAFF THERE)
10	WORK PLACE/YOUR SCHOOL (OR COWORKERS,
	TEACHERS, SUPERVISORS, ETC.)
11	FRIEND OR RELATIVE (OR AT THEIR HOUSE)
12	OTHER PLACE OR PERSON
d	DK
r	REF

2.19 Was the application form written in a language other than English?

01	YES, LANGUAGE OTHER THAN ENGLISH	GO TO 2.21
02	NO, ENGLISH	
d	DK	
r	REF	

2.20 Did a translator or some other professional help translate the application form into a language you could understand?

01	YES	
02	NO	
d	DK	
r	REF	

2.21 (IF 2.20=1) Besides help with translating, did you get other assistance in completing the application?

01	YES	
02	NO	GO TO
d	DK	2.25
r	REF	

(ELSE) Did you get assistance in completing the application?

2.22 Did you get assistance in completing the application from...

	01=YES 02=NO d=DK r=REF	
A		An outreach worker, social worker, or someone else
		coming to your home
В		A person at an agenc y
С		A person at a hospital, a clinic, or a doctor's office
D		A person at a hot or help line
Е		Any other professional

2.22.1 How easy or difficult was it for you to get assistance in completing the application?

Would you say it was...

01	Very easy
02	Somewhat easy
03	Somewhat difficult
04	Very difficult
d	DK
r	REF

2.24.1 How courteous and respectful were the people who assisted you in completing the application?

Would you say they were...

01	Very courteous and respectful
02	Somewhat courteous and respectful
03	Not very courteous and respectful
04	Not at all courteous and respectful
d	DK
r	REF

2.25.1 Were you or someone else required to go to an office to complete the application?

01	YES	GO TO 2.26
02	NO	GO TO 2.28
d	DK	
r	REF	

2.26 Was the location of the office...

01	Very convenient	
02	Somewhat convenient	
03	Not very convenient	
04	Not at all convenient	
d	DK	
r	REF	

2.28 For (CHILD)'s (IF 2.11>1 READ: most recent) application for (SCHIP/MEDICAID), how easy or difficult was it to fill out the application form?

Was it...

01	Very easy
02	Somewhat easy
03	Somewhat difficult
04	Very difficult
d	DK
r	REF

2.29 And, how easy or difficult was it to get the required documents together? Was it...

01	Very easy
02	Somewhat easy
03	Somewhat difficult
04	Very difficult
05	WAS NOT REQUIRED TO GET ANY
	DOCUMENTS
d	DK
r	REF

2.29.1 So overall, based on your experiences and what you know about (SCHIP/MEDICAID), how easy or difficult is it to enroll (CHILD) in (SCHIP/MEDICAID)?

Is it...

01	Very easy
02	Somewhat easy
03	Somewhat difficult
04	Very difficult
d	DK
r	REF

2.30 Again, think about the most recent time (CHILD) was enrolled in (SCHIP/MEDICAID).

After the entire application was completed and submitted, about how many weeks and or months did it take until you were notified that (CHILD) was enrolled in the program?

00	WAS ENROLLED RIGHT	GO TO 2.34
	AWAY	
	WEEKS	
999	NEVER NOTIFIED	GO TO 2.34
d	DK	GO TO 2.30.1
r	REF	GO TO 2.34

2.30.1 Would you say...

01	Less than 1 week	
02	1 but less than 2 weeks	
03	2 but less than 3 weeks	
04	3 but less than 4 weeks	
05	4 but less than 5 weeks	
06	6 but less than 8 weeks	
07	More than 2 months	
08	More than 3 months	
d	DK	
r	REF	

2.34 While (CHILD) is on (SCHIP/MEDICAID), you may have to fill out a form or provide information in some other way that will determine if (CHILD) remains eligible for the program. Based on your experiences and what you know about (SCHIP/MEDICAID), how often do you have to reapply to (SCHIP/MEDICAID) for (CHILD) to stay in the program?

Would you have to reapply...

00	Never	GO TO 2.45
01	Every month	GO TO 2.34.1
02	Every 3 months	
03	Every 6 months	
04	Once a year	
05	Once every 2 years	
06	OTHER TIME PERIOD	
d	DK	
r	REF	

ALL NEW ENROLLEES, GO TO 2.45

2.34.1 While (CHILD) was enrolled in (SCHIP/MEDICAID), were you ever notified that you had to reapply for him/her to stay in the program?

01	YES	
02	NO	GO TO 2.38
d	DK	
r	REF	

2.38 Has (SCHIP/MEDICAID) ever rejected a reapplication for (CHILD) so he/she could not stay in the program?

01	YES	
02	NO	GO TO 2.42
d	DK	
r	REF	

2.39.1-2.39.7

What were the reasons (CHILD)'s reapplication was rejected?

ENTER ALL THAT APPLY

1	DIDN'T PROVIDE ALL PAPER
	WORK/DOCUMENTS NEEDED
2	EARNED TOO MUCH MONEY
3	QUALIFIED FOR (MEDICAID/SCHIP)
4	TOO OLD
5	WAS INSURED BY OTHER
	INSURANCE
6	CHILD NEEDED TO BE LONGER
	UNINSURED TO QUALIFY
7	OTHER REASON
d	DK
r	REF

2.42 Have you ever received a warning that (CHILD) would be terminated from (SCHIP/MEDICAID) if you did not reapply to the program on time?

01	YES
02	NO
d	DK
r	REF

2.43 Have you ever successfully completed a reapplication so (CHILD) could stay in the program?

01	YES	
02	NO	GO TO 2.45
d	DK	
r	REF	

2.44 From your experiences and what you know about (SCHIP/MEDICAID), how easy or difficult is it to complete the reapplication?

Was it...

01	Very easy
02	Somewhat easy
03	Somewhat difficult
04	Very difficult
d	DK
r	REF

MEDICAID SAMPLE GO TO NEXT SECTION

2.45 Did you ever receive a warning that (CHILD)'s coverage in (SCHIP/MEDICAID) would be terminated if the premium was not paid on time?

01	YES	
02	NO	
03	DOES NOT PAY	GO TO NEXT
	PREMIUM	SECTION
d	DK	
r	REF	

2.47 Has (CHILD)'s coverage in (SCHIP/MEDICAID) ever been terminated because a premium was not paid on time?

01	YES
02	NO
d	DK
r	REF

SECTION 3: HEALTH CARE COVERAGE

Now, I am going to ask you some questions about (CHILD)'s (SCHIP/MEDICAID) coverage and any other health insurance he/she may have had in the past.

3.2 First, is (CHILD) covered by (SCHIP/MEDICAID) right now?

01	YES	GO TO 3.7b
02	NO	GO TO 3.3
d	DK	SWITCH TO SHORTENED
		SURVEY
r	REF	GO TO 3.2.1

3.2.1 Thank you very much. I have no more questions at this point. Good-bye.

ESTABLISH LAST ENDDATE

3.3 About how many months has it been since (CHILD)'s (SCHIP/MEDICAID) coverage ended?

	MONTHS (IF LESS	GO TO 3.5
	THAN 1 MONTH,	
	CODE 0	
999	UNSURE, BUT MORE	GO TO
	THAN 6 MONTHS AGO	3.5.1
d	DK	GO TO 3.4
r	REF	

3.4 Would you say it has been about...

01	Less than 1 month	GO TO 3.5
02	1 month but less than 2 months	
03	2 months but less than 3 months	
04	3 months but less than 4 months	
05	4 months but less than 5 months	
06	5 months but less than 6 months	
07	6 months	
08	Longer than 6 months	
d	DK	GO TO 3.5.1
r	REF	

3.5 So, (CHILD) has not been covered by (SCHIP/MEDICAID) since (CURRENT MONTH MINUS MONTHS SINCE COVERAGE ENDED). Is that correct?

01	YES	GO TO 3.7
02	NO	
d	DK	GO TO 3.5.1
r	REF	

3.5.1A AND 3.5.1B

In about what month and year did (CHILD)'s (SCHIP/MEDICAID) coverage end? Your best estimate is fine.

		YEAR
01	JANUARY	
02	FEBRUARY	
03	MARCH	
04	APRIL	
05	MAY	
06	JUNE	
07	JULY	
08	AUGUST	
09	SEPTEMBER	
10	OCTOBER	
11	NOVEMBER	
12	DECEMBER	
d	DK	SWITCH TO
		SHORTENED SURVEY
r	REF	GO TO 3.2.1

BASED ON ANSWERS TO 3.3-3.5.1:

NEW/ESTABLISHED ENROLLEES: IF REPORTED DISENROLLED 6 TO 12 MONTHS THEN INTERVIEW AS DISENROLLEE

DISENROLLEES: IF REPORTED DISENROLLED 12+ MONTHS THEN SWITCH TO SHORTENED SURVEY

ESTABLISH LAST/CURRENT STARTDATE

3.7 (CHILD) IS NOT CURRENTLY COVERED (3.2=02) Before (CHILD)'s (SCHIP/MEDICAID) coverage ended in (LAST ENDDATE), how many months and/or years was he/she covered by (SCHIP/MEDICAID) without any interruption in coverage?

(CHILD) IS CURRENTLY COVERED (3.2=01) How many months and/or years has (CHILD) been covered by (SCHIP/MEDICAID) without any interruption in coverage?

	MONTHS	GO TO 3.9
999	UNSURE, BUT	GO TO
	MORE THAN 6	3.9.1
	MONTHS	
d	DK	GO TO 3.8
r	REF	

3.8 Would you say...

01	Less than 1 month	GO TO 3.9
02	1 month but less than 2 months	
03	2 months but less than 3 months	
04	3 months but less than 4 months	
05	4 months but less than 5 months	
06	5 months but less than 6 months	
07	6 months	
08	Longer than 6 months	
d	DK	GO TO 3.9.1
r	REF	

3.9 So, (CHILD)'s (SCHIP/MEDICAID) coverage started in (LAST ENDDATE MINUS MONTHS OF COVERAGE) or (CURRENT MONTH MINUS MONTHS OF COVERAGE). Is that correct?

01	YES	GO TO 3.11
02	NO	
d	DK	GO TO 3.9.1
r	REF	

3.9.1A AND 3.9.1B

In about what month and year did (CHILD)'s (SCHIP/MEDICAID) coverage start? Your best estimate is fine.

		YEAR
01	JANUARY	
02	FEBRUARY	
03	MARCH	
04	APRIL	
05	MAY	
06	JUNE	
07	JULY	
08	AUGUST	
09	SEPTEMBER	
10	OCTOBER	
11	NOVEMBER	
12	DECEMBER	
d	DK	GO TO 3.2.1
r	REF	

BASED ON ANSWERS TO 3.7-3.9.1

NEW ENROLLEES: IF REPORTED ENROLLED 12+ MONTHS THEN INTERVIEW AS ESTABLISHED ENROLLEE

NEW ENROLLEES: IF REPORTED BORN IN 6 MONTHS BEFORE ENROLLING IN SCHIP/MEDICAID THEN CHANGE (TIMEFRAME1) TO READ: Before (child) was on SCHIP/Medicaid

ESTABLISHED ENROLLEES: IF REPORTED ENROLLED LESS THAN 6 MONTHS THEN CHANGE (TIMEFRAME 1) TO READ: During the time while child has been on SCHIP/Medicaid

DISENROLLEES: IF REPORTED ENROLLED 6+ MONTHS THEN INTERVIEW AS ESTABLISHED ENROLLEE

ESTABLISH PREVIOUS ENDDATE FOR DISENROLLEES WHO DID RE-ENROLL

DISENROLLEES WHO REENROLLED: GO TO 3.11

ALL OTHERS: GO TO 3.24.1

3.11 Now, I am going to ask about the time that (CHILD)'s current (SCHIP/MEDICAID) coverage started in (START DATE) and his/her previous (SCHIP/MEDICAID) coverage ended. How many months were there between these two periods of (SCHIP/MEDICAID) coverage?

	MONTHS (IF LESS	GO TO 3.13
	THAN A MONTH),	
	CODE 0	
999	UNSURE, BUT	
	MORE THAN 6	GO TO 3.13.1
	MONTHS AGO	
d	DK	GO TO 3.12
r	REF	

3.12 Would you say...

01	Less than 1 month	GO TO 3.13
02	1 month but less than 2 months	
03	2 months but less than 3 months	
04	3 months but less than 4 months	
05	4 months but less than 5 months	
06	5 months but less than 6 months	
07	6 months	
08	Longer than 6 months	
d	DK	GO TO 3.13.1
r	REF	

3.13 So, (CHILD)'s previous (SCHIP/MEDICAID) coverage ended in (STARTDATE MINUS MONTHS BETWEEN COVERAGE). Is that correct?

01	YES	GO TO 3.14
02	NO	
d	DK	GO TO 3.13.1
r	REF	

3.13.1A AND 3.13.1B

In about what month and year did (CHILD)'s previous (SCHIP/MEDICAID) coverage end? Your best estimate is fine.

		YEAR
01	JANUARY	
02	FEBRUARY	
03	MARCH	
04	APRIL	
05	MAY	
06	JUNE	
07	JULY	
08	AUGUST	
09	SEPTEMBER	
10	OCTOBER	
11	NOVEMBER	
12	DECEMBER	
d	DK	GO TO 3.2.1
r	REF	

ANSWERS IN 3.13 AND 3.13.1 WILL PROVIDE **PREVIOUS ENDDATE** IN MONTHS AND YEARS FOR DISENROLLEES WHO HAVE ENROLLED AGAIN IN THE PROGRAM.

ESTABLISH PREVIOUS STARTDATE FOR DISENROLLEES WHO DID RE-ENROLL

3.14 Before (CHILD)'s previous (SCHIP/MEDICAID) coverage ended in (PREVIOUS ENDDATE), how many months or years was he/she covered by (SCHIP/MEDICAID) without any interruption in coverage?

	MONTHS (IF LESS	GO TO
	THAN 1 MONTH,	3.16
	CODE 0	
999	UNSURE, BUT	GO TO
	MORE THAN 6	3.16.1
	MONTHS AGO	
d	DK	GO TO
r	REF	3.15

3.15 Would you say...

01	Less than 1 month	GO TO 3.16
02	1 month but less than 2 months	
03	2 months but less than 3 months	
04	3 months but less than 4 months	
05	4 months but less than 5 months	
06	5 months but less than 6 months	
07	6 months	
08	Longer than 6 months	
d	DK	GO TO 3.16.1
r	REF	

3.16 So, (CHILD)'s previous (SCHIP/MEDICAID) coverage started in (PREVIOUS ENDDATE MINUS MONTHS OF PREVIOUS COVERAGE). Is that correct?

01	YES	GO TO 3.24.1
02	NO	
d	DK	GO TO 3.16.1
r	REF	

3.16.1A AND 3.16.1B

In about what month and year did (CHILD)'s previous (SCHIP/MEDICAID) coverage start? Your best estimate is fine.

		YEAR
01	JANUARY	
02	FEBRUARY	
03	MARCH	
04	APRIL	
05	MAY	
06	JUNE	
07	JULY	
08	AUGUST	
09	SEPTEMBER	
10	OCTOBER	
11	NOVEMBER	
12	DECEMBER	
d	DK	GO TO 3.2.1
r	REF	

ANSWERS IN 3.15 AND 3.16.1 WILL PROVIDE **PREVIOUS STARTDATE** IN MONTHS AND YEARS FOR DISENROLLEES WHO HAVE ENROLLED AGAIN IN THE PROGRAM.

COVERAGE QUESTIONS RELATED TO TIMEFRAME 1

REFERENCE ADJECTIVE FOR QUESTIONS RELATED TO PAST COVERAGE. FOR THE REMAINDER OF THE QUESTIONS IN SECTION 2 PLEASE USE:

Current FOR NEW AND ESTABLISHED ENROLLEES STILL ENROLLED

Last FOR NEW AND ESTABLISHED ENROLLEES DISENROLLED

Last FOR DISENROLLEES NOT ENROLLED

Previous FOR DISENROLLEES RE-ENROLLED

FOR MEDICAID SAMPLE GO TO 3.24.1

3.24.1 Does/did the current/last/previous (SCHIP/MEDICAID) coverage include the following services for (CHILD):

	1=YES	
	2=NO	
	d=DK	
	r=REF	
А		Doctors' visits for illness or injuries
В		Well-child visits, routine check-ups, and immunizations
С		Emergency room visits
D		Hospital stays
Е		Prescription drugs
F		Dental care
G		Vision care or eye exams

FOR MEDICAID SAMPLE GO TO 3.25

3.25

NEW ENROLLEES AND ESTABLISHED ENROLLEES WHO ARE CURRENTLY ENROLLED (3.2=1) SKIP TO 3.31

3.26 What was the main reason this (SCHIP) coverage ended?

01CHILD TOO OLD TO BE ELIGIBLE02CHILD OBTAINED MEDICAID/SCHIP COVERAGE03CHILD OBTAINED OTHER INSURANCE04FINANCIAL SITUATION CHANGED/ NOT QUALIFIED FOR (SCHIP/MEDICAID)05(NOT FOR MEDICAID SAMPLE) COULD NOT AFFORD PREMIUM/ CO-PAYMENT06(NOT FOR MEDICAID SAMPLE) FORGOT TO PAY THE PREMIUM07DID NOT LIKE THE DOCTOR(S)/ MEDICAL STAFF/ CLINIC WHERE CHILD RECEIVED SERVICES08DID NOT LIKE THE QUALITY OF THE CARE09SERVICES PROVIDED NOT CONVENIENTLY LOCATED OR NOT AVAILABLE WHEN NEEDED10CHILD DOES NOT GET SICK/DO NOT NEED IT11TOO MUCH PAPER WORK12DID NOT REAPPLY WHEN COVERAGE ENDED13OTHERdDK		
03CHILD OBTAINED OTHER INSURANCE04FINANCIAL SITUATION CHANGED/ NOT QUALIFIED FOR (SCHIP/MEDICAID)05(NOT FOR MEDICAID SAMPLE) COULD NOT AFFORD PREMIUM/ CO-PAYMENT06(NOT FOR MEDICAID SAMPLE) FORGOT TO PAY THE PREMIUM07DID NOT LIKE THE DOCTOR(S)/ MEDICAL STAFF/ CLINIC WHERE CHILD RECEIVED SERVICES08DID NOT LIKE THE QUALITY OF THE CARE09SERVICES PROVIDED NOT CONVENIENTLY LOCATED OR NOT AVAILABLE WHEN NEEDED10CHILD DOES NOT GET SICK/DO NOT NEED IT11TOO MUCH PAPER WORK12DID NOT REAPPLY WHEN COVERAGE ENDED13OTHERdDK	01	CHILD TOO OLD TO BE ELIGIBLE
04FINANCIAL SITUATION CHANGED/ NOT QUALIFIED FOR (SCHIP/MEDICAID)05(NOT FOR MEDICAID SAMPLE) COULD NOT AFFORD PREMIUM/ CO-PAYMENT06(NOT FOR MEDICAID SAMPLE) FORGOT TO PAY THE PREMIUM07DID NOT LIKE THE DOCTOR(S)/ MEDICAL STAFF/ CLINIC WHERE CHILD RECEIVED SERVICES08DID NOT LIKE THE QUALITY OF THE CARE09SERVICES PROVIDED NOT CONVENIENTLY LOCATED OR NOT AVAILABLE WHEN NEEDED10CHILD DOES NOT GET SICK/DO NOT NEED IT11TOO MUCH PAPER WORK12DID NOT REAPPLY WHEN COVERAGE ENDED13OTHERdDK	02	CHILD OBTAINED MEDICAID/SCHIP COVERAGE
(SCHIP/MEDICAID)05(NOT FOR MEDICAID SAMPLE) COULD NOT AFFORD PREMIUM/ CO-PAYMENT06(NOT FOR MEDICAID SAMPLE) FORGOT TO PAY THE PREMIUM07DID NOT LIKE THE DOCTOR(S)/ MEDICAL STAFF/ CLINIC WHERE CHILD RECEIVED SERVICES08DID NOT LIKE THE QUALITY OF THE CARE09SERVICES PROVIDED NOT CONVENIENTLY LOCATED OR NOT AVAILABLE WHEN NEEDED10CHILD DOES NOT GET SICK/DO NOT NEED IT11TOO MUCH PAPER WORK12DID NOT REAPPLY WHEN COVERAGE ENDED13OTHERdDK	03	CHILD OBTAINED OTHER INSURANCE
05(NOT FOR MEDICAID SAMPLE) COULD NOT AFFORD PREMIUM/ CO-PAYMENT06(NOT FOR MEDICAID SAMPLE) FORGOT TO PAY THE PREMIUM07DID NOT LIKE THE DOCTOR(S)/ MEDICAL STAFF/ CLINIC WHERE CHILD RECEIVED SERVICES08DID NOT LIKE THE QUALITY OF THE CARE09SERVICES PROVIDED NOT CONVENIENTLY LOCATED OR NOT AVAILABLE WHEN NEEDED10CHILD DOES NOT GET SICK/DO NOT NEED IT11TOO MUCH PAPER WORK12DID NOT REAPPLY WHEN COVERAGE ENDED13OTHERdDK	04	FINANCIAL SITUATION CHANGED/ NOT QUALIFIED FOR
CO-PAYMENT06(NOT FOR MEDICAID SAMPLE) FORGOT TO PAY THE PREMIUM07DID NOT LIKE THE DOCTOR(S)/ MEDICAL STAFF/ CLINIC WHERE CHILD RECEIVED SERVICES08DID NOT LIKE THE QUALITY OF THE CARE09SERVICES PROVIDED NOT CONVENIENTLY LOCATED OR NOT AVAILABLE WHEN NEEDED10CHILD DOES NOT GET SICK/DO NOT NEED IT11TOO MUCH PAPER WORK12DID NOT REAPPLY WHEN COVERAGE ENDED13OTHERdDK		(SCHIP/MEDICAID)
06(NOT FOR MEDICAID SAMPLE) FORGOT TO PAY THE PREMIUM07DID NOT LIKE THE DOCTOR(S)/ MEDICAL STAFF/ CLINIC WHERE CHILD RECEIVED SERVICES08DID NOT LIKE THE QUALITY OF THE CARE09SERVICES PROVIDED NOT CONVENIENTLY LOCATED OR NOT AVAILABLE WHEN NEEDED10CHILD DOES NOT GET SICK/DO NOT NEED IT11TOO MUCH PAPER WORK12DID NOT REAPPLY WHEN COVERAGE ENDED13OTHERdDK	05	(NOT FOR MEDICAID SAMPLE) COULD NOT AFFORD PREMIUM/
07DID NOT LIKE THE DOCTOR(S)/ MEDICAL STAFF/ CLINIC WHERE CHILD RECEIVED SERVICES08DID NOT LIKE THE QUALITY OF THE CARE09SERVICES PROVIDED NOT CONVENIENTLY LOCATED OR NOT AVAILABLE WHEN NEEDED10CHILD DOES NOT GET SICK/DO NOT NEED IT11TOO MUCH PAPER WORK12DID NOT REAPPLY WHEN COVERAGE ENDED13OTHERdDK		CO-PAYMENT
CHILD RECEIVED SERVICES08DID NOT LIKE THE QUALITY OF THE CARE09SERVICES PROVIDED NOT CONVENIENTLY LOCATED OR NOT AVAILABLE WHEN NEEDED10CHILD DOES NOT GET SICK/DO NOT NEED IT11TOO MUCH PAPER WORK12DID NOT REAPPLY WHEN COVERAGE ENDED13OTHERdDK	06	(NOT FOR MEDICAID SAMPLE) FORGOT TO PAY THE PREMIUM
08DID NOT LIKE THE QUALITY OF THE CARE09SERVICES PROVIDED NOT CONVENIENTLY LOCATED OR NOT AVAILABLE WHEN NEEDED10CHILD DOES NOT GET SICK/DO NOT NEED IT11TOO MUCH PAPER WORK12DID NOT REAPPLY WHEN COVERAGE ENDED13OTHERdDK	07	DID NOT LIKE THE DOCTOR(S)/ MEDICAL STAFF/ CLINIC WHERE
09SERVICES PROVIDED NOT CONVENIENTLY LOCATED OR NOT AVAILABLE WHEN NEEDED10CHILD DOES NOT GET SICK/DO NOT NEED IT11TOO MUCH PAPER WORK12DID NOT REAPPLY WHEN COVERAGE ENDED13OTHERdDK		CHILD RECEIVED SERVICES
AVAILABLE WHEN NEEDED10CHILD DOES NOT GET SICK/DO NOT NEED IT11TOO MUCH PAPER WORK12DID NOT REAPPLY WHEN COVERAGE ENDED13OTHERdDK	08	DID NOT LIKE THE QUALITY OF THE CARE
10CHILD DOES NOT GET SICK/DO NOT NEED IT11TOO MUCH PAPER WORK12DID NOT REAPPLY WHEN COVERAGE ENDED13OTHERdDK	09	SERVICES PROVIDED NOT CONVENIENTLY LOCATED OR NOT
11TOO MUCH PAPER WORK12DID NOT REAPPLY WHEN COVERAGE ENDED13OTHERdDK		AVAILABLE WHEN NEEDED
12DID NOT REAPPLY WHEN COVERAGE ENDED13OTHERdDK	10	CHILD DOES NOT GET SICK/DO NOT NEED IT
13 OTHER d DK	11	TOO MUCH PAPER WORK
d DK	12	DID NOT REAPPLY WHEN COVERAGE ENDED
	13	OTHER
. DEE	d	DK
r REF	r	REF

3.27.1

ALL DISENROLLEES SKIP TO 3.60

COVERAGE QUESTIONS RELATED TO TIMEFRAME 2

3.31 Now, I am going to ask you some questions about the time before (CHILD)'s current/last (SCHIP/MEDICAID) coverage started, that is before (CURRENT/LAST STARTDATE).

Just before his/her current/last period of (SCHIP/MEDICAID) coverage started, was (CHILD) without health insurance coverage or did he/she have health insurance, such as Medicaid or private insurance?

01	WITHOUT HEALTH	GO TO 3.32
	INSURANCE	
02	HAD HEALTH	GO TO 3.36.1
	INSURANCE	
03	CHILD BORN WHEN	NEW ENROLLEE: SWITCH TO
	COVERAGE STARTED	SHORTENED SURVEY
		ESTABLISHED ENROLLEE: GO TO
		3.60
d	DK	GO TO 3.35.1
r	REF	

3.32 How many months or years was (CHILD) without health insurance just before his/her current/last (SCHIP/MEDICAID) coverage started?

	MONTHS
	IF LESS THAN 1 MONTH, CODE 1
	IF ALWAYS, CODE 999
d	DK
r	REF

3.34 What was the main reason (CHILD) was without any health insurance during this period?

01	PARENT LOST JOB OR CHANGED
01	EMPLOYERS
02	PARENT GOT DIVORCED/ SEPARATED/
0-	DEATH OF SPOUSE
03	EMPLOYER STOPPED OFFERING
	INSURANCE
04	CHILD TOO OLD TO BE ELIGIBLE
05	BENEFITS FROM FORMER EMPLOYER RAN
	OUT
06	NO ONE IN FAMILY EMPLOYED
07	EMPLOYER DID NOT OFFER HEALTH
	INSURANCE/NOT ELIGIBLE FOR COVERAGE
	THROUGH EMPLOYER
08	INSURANCE TOO EXPENSIVE/ CAN NOT
	AFFORD THE PREMIUM
09	DID NOT LIKE THE HEALTH INSURANCE
	EMPLOYER OFFERS
10	INSURANCE COST TOO HIGH
11	INSURANCE COMPANY REFUSED
	COVERAGE DUE TO PREEXISTING
	CONDITION OR (CHILD'S) HEALTH STATUS
12	MEDICAID/SCHIP COVERAGE STOPPED/ NO
	LONGER ELIGIBLE
13	FAILED TO REAPPLY/REDETERMINE
14	FORGOT TO PAY THE PREMIUM
15	PLACE WHERE SERVICES WERE OFFERED
	NOT CONVENIENTLY LOCATED OR
	SERVICES NOT AVAILABLE WHEN NEEDED
16	DID NOT KNOW HOW TO GET COVERAGE
17	NEEDED TO BE UNINSURED TO BE ELIGIBLE
	FOR (SCHIP/MEDICAID)
18	OTHER
d	DK
r	REF

NEW ENROLLEES: IF WITHOUT INSURANCE FOR 6 MONTHS OR MORE (IF 3.32 GE 6), GO TO 3.60 OTHERWISE CONTINUE WITH 3.35.1

ESTABLISHED ENROLLEES: GO TO 3.60

3.35.1 Was (CHILD) covered by health insurance such as Medicaid or private insurance at any time during the six months before his/her current/last (SCHIP/MEDICAID) coverage started, that is before (STARTDATE?

01	YES	GO TO 3.36.1A
02	NO	GO TO 3.60
d	DK	
r	REF	

3.36.1 IF 3.31=2 AND NEW ENROLLEE: Now think about the six months before (CHILD)'s last (SCHIP) coverage started.IF 3.31=2 AND ESTABLISHED ENROLLEE: Go to 3.60.

3.36.1A

Was (CHILD) covered by insurance from a current or past employer or union?

01	YES	
02	NO	GO TO
d	DK	3.36.1B
r	REF	

3.36.1AM

How long was (CHILD) covered by this insurance?

	MONTHS
d	DK
r	REF

3.36.1B Was (CHILD) covered by insurance from private insurance purchased directly from an insurance company?

Do not include plans that only provide extra cash while in the hospital or plans for only one type of service, such as dental care, vision care, nursing home care, or accidents?

01	YES	
02	NO	GO TO
d	DK	3.36.1C
r	REF	

3.36.1BM

How long was (CHILD) covered by this insurance?

	MONTHS
d	DK
r	REF

3.36.1C

Was (CHILD) covered by Medicare, the health insurance plan for people 65 years old and older or persons with certain disabilities?

01	YES	
02	NO	GO TO
d	DK	3.36.1D
r	REF	

3.36.1CM

How long was (CHILD) covered by this insurance?

	MONTHS
d	DK
r	REF

3.36.1D Was (CHILD) covered by Medicaid or a Medicaid HMO, the government assistance program for people in need?

01	YES	
02	NO	GO TO
d	DK	3.36.1E
r	REF	

3.36.1DM

How long was (CHILD) covered by this insurance?

	MONTHS
d	DK
r	REF

3.36.1E Was (CHILD) covered by TRICARE, CHAMPUS, CHAMP-VA, VA, or any other military health insurance, service?

01	YES	
02	NO	GO TO
d	DK	3.36.1F
r	REF	

3.36.1EM

How long was (CHILD) covered by this insurance?

	MONTHS
d	DK
r	REF

3.36.1F Was (CHILD) covered by the Indian Health Service?

01	YES	
02	NO	GO TO
d	DK	3.36.1G
r	REF	

3.36.1FM

How long was (CHILD) covered by this insurance?

	MONTHS
d	DK
r	REF

3.36.1G Was (CHILD) covered by (SCHIP)?

01	YES	
02	NO	GO TO
d	DK	3.36.1H
r	REF	

3.36.1GM

How long was (CHILD) covered by this insurance?

	MONTHS
d	DK
r	REF

3.36.1H Was (CHILD) covered by some other type of coverage, I have not yet mentioned?

01	YES	
02	NO	GO TO
d	DK	NEXT
r	REF	SECTION

3.36.1HM

How long was (CHILD) covered by this insurance?

	MONTHS
d	DK
r	REF

ESTABLISHED ENROLLEES:

READ: just before the current/last/previous period of (SCHIP/MEDICAID) coverage started?

NEW ENROLLEES:

IF 3.31=1 (HAD INSURANCE JUST BEFORE SCHIP/MEDICAID) THEN READ: just before the current/last/previous period of (SCHIP/MEDICAID) coverage started?)

IF 3.31=2 (WITHOUT INSURANCE JUST BEFORE SCHIP/MEDICAID) THEN READ: just before (CHILD) became uninsured?

IF ONLY ONE PLAN IN 3.36.1, GO TO 3.38

3.37.1-3.37.8

Of the health insurance plan(s) you just mentioned, which plan(s) did (CHILD) have

- A) just before the current/last/previous period of (SCHIP/MEDICAID) coverage started?
- B) just before (CHILD) became uninsured?

INSURANCE THROUGH
AN EMPLOYER
PRIVATE INSURANCE
MEDICARE
MEDICAID
TRICARE, CHAMPUS,
CHAMP-VA, VA OR
OTHER MILITARY
HEALTH INSURANCE
INDIAN HEALTH SERVICE
(SCHIP)
ANY OTHER TYPE OF
INSURANCE

3.38

ALL ESTABLISHED ENROLLEES SKIP TO 3.44

3.38.2 (IF 3.37 A=2 (NO HEALTH INSURANCE FROM EMPLOYER) GO TO 3.39.1)

(IF ONLY HEALTH INSURANCE FROM EMPLOYER/ NONE OF B THRU H IN 3.37 =YES) Did the employer pay all, some, or none of the premium for this health insurance?

(IF OTHER HEALTH INSURANCE BESIDES FROM EMPLOYER/ANY OF B THRU H IN 3.37 =YES) For the health insurance from an employer, did the employer pay all, some, or none of the premium for this health insurance?

01	ALL
02	SOME
03	NONE
d	DK
r	REF

IF MORE THAN ONE INSURANCE IN 3.37 READ "any of the insurance plans" instead of "insurance coverage" in 3.39.1 to 3.43

- 3.39.1 Did the insurance coverage that (CHILD) had
 - A) just before his/her current/last/previous period of (SCHIP/MEDICAID) coverage started
 - B) just before he/she became uninsured

require (CHILD) to be signed up with a certain primary care doctor or clinic (CHILD) would have to go to for all routine care?

01	YES
02	NO
d	DK
r	REF

- 3.43 Did this health insurance coverage that (CHILD) had:
 - A) just before his/her current/last/previous period of (SCHIP/MEDICAID) coverage started
 - B) just before he/she became uninsured

include the following services?

	1=YES	
	2=NO	
	d=DK	
	r=REF	
А		Doctors' visits for illness or injuries
В		Well-child visits, routine check-up, and immunizations
С		Emergency room visits
D		Hospital stays
Е		Prescription drugs
F		Dental care
G		Vision care or eye exams

IF MEDICAID COVERAGE ONLY GO TO 3.44

3.43.1 (ASK IF 3.43B=YES) Did you have to pay a co-payment for the well-child visits, routine check-ups, and immunizations?

01	YES	
02	NO	GO TO 3.43.3
d	DK	
r	REF	

3.43.3 (ASK IF 3.43E=YES, ELSE GO TO 3.44) Did you have to pay a co-payment to get a prescription drug filled?

01	YES	
02	NO	GO TO 3.44
d	DK	
r	REF	

- 3.44 What was the main reason (CHILD)'s coverage ended
 - A) just before the current/last/previous period of (SCHIP/MEDICAID) coverage started? (ASKED OF THOSE UNINSURED)
 - B) just before (CHILD) became uninsured? (ASKED OF THOSE UNINSURED)

01	PARENT LOST JOB OR CHANGED EMPLOYERS
02	PARENT GOT DIVORCED/SEPARATED/DEATH OF SPOUSE
03	EMPLOYER STOPPED OFFERING INSURANCE
04	CHILD TOO OLD TO BE ELIGIBLE
05	BENEFITS FROM FORMER EMPLOYER RAN OUT
06	NO ONE IN FAMILY EMPLOYED
07	EMPLOYER DID NOT OFFER HEALTH INSURANCE/NOT
	ELIGIBLE FOR COVERAGE THROUGH EMPLOYER
08	INSURANCE TOO EXPENSIVE/CAN NOT AFFORD THE
	PREMIUM
09	DID NOT LIKE THE HEALTH INSURANCE EMPLOYER
	OFFERS
10	INSURANCE COST TOO HIGH
11	INSURANCE COMPANY REFUSED COVERAGE DUE TO
	PREEXISTING CONDITION OR CHILD'S HEALTH STATUS
12	MEDICAID/SCHIP COVERAGE STOPPED/NO LONGER
	ELIGIBLE
13	FAILED TO REAPPLY/REDETERMINE
14	FORGOT TO PAY THE PREMIUM
15	PLACE WHERE SERVICES WERE OFFERED NOT
	CONVENIENTLY LOCATED OR SERVICES NOT
	AVAILABLE WHEN NEEDED
16	DID NOT KNOW HOW TO GET COVERAGE
17	NEEDED TO BE UNINSURED TO BE ELIGIBLE FOR
	(SCHIP/MEDICAID)
18	OTHER
d	DK
r	REF

COVERAGE QUESTIONS RELATED TO TIMEFRAME 3

ALL NEW ENROLLEES: SKIP TO NEXT SECTION

ESTABLISHED ENROLLEE ENROLLED (3.2=1): SKIP TO NEXT SECTION

3.60 (DISENROLLEES DISENROLLED OR ESTABLISHED ENROLLEES

DISENROLLED (3.2=2) Now, I would like to ask you some questions about the time since (CHILD)'s last (SCHIP/MEDICAID) coverage ended, that is since (LAST ENDDATE). Just after his/her last/previous (SCHIP/MEDICAID) coverage ended, was (CHILD) without health insurance, or did he/she have health insurance coverage, such as Medicaid or private insurance?

(DISENROLLEES RE-ENROLLED (3.2=1) Now, I would like to ask you some questions about the time since (CHILD)'s previous (SCHIP/MEDICAID) coverage ended, that is since (PREVIOUS ENDDATE) and before (CHILD) was enrolled again in (CURRENT STARTDATE). Just after his/her last/previous (SCHIP/MEDICAID) coverage ended, was (CHILD) without health insurance coverage or did he/she have health insurance, such as Medicaid or private insurance?

01	WITHOUT HEALTH INSURANCE	GO TO 3.63
02	HAD HEALTH INSURANCE	GO TO 3.64.1
d	DK	GO TO 3.64
r	REF	

3.63 How many months was (CHILD) without any health insurance coverage just after his/her last/previous (SCHIP/MEDICAID) coverage ended?

	MONTHS (IF LESS THAN 1 MONTH,	GO TO 3.63.1
	CODE 1)	
999	WHOLE PERIOD	GO TO 3.63.1
d	DK	GO TO 3.64
r	REF	

3.63.1 What was the main reason (CHILD) was/has been without any health insurance during this period?

01	PARENT LOST JOB OR CHANGED
01	EMPLOYERS
02	PARENT GOT DIVORCED/SEPARATED/
02	
0.0	DEATH OF SPOUSE
03	EMPLOYER STOPPED OFFERING
	INSURANCE
04	CHILD TOO OLD TO BE ELIGIBLE
05	BENEFITS FROM FORMER EMPLOYER RAN
	OUT
06	NO ONE IN FAMILY EMPLOYED
07	EMPLOYER DID NOT OFFER HEALTH
	INSURANCE/NOT ELIGIBLE FOR COVERAGE
	THROUGH EMPLOYER
08	INSURANCE TOO EXPENSIVE/CANNOT
	AFFORD THE PREMIUM
09	DID NOT LIKE THE HEALTH INSURANCE
	EMPLOYER OFFERS
10	INSURANCE COST TOO HIGH
11	INSURANCE COMPANY REFUSED
	COVERAGE DUE TO PREEXISTING
	CONDITION OR (CHILD'S) HEALTH STATUS
12	MEDICAID/SCHIP COVERAGE STOPPED/
	NO LONGER ELIGIBLE
13	FAILED TO REAPPLY/REDETERMINE
14	(NOT FOR MEDICAID SAMPLE) FORGOT TO
	PAY THE PREMIUM
15	PLACE WHERE SERVICES WERE OFFERED
10	NOT CONVENIENTLY LOCATED OR
	SERVICES NOT AVAILABLE WHEN NEEDED
16	DID NOT KNOW HOW TO GET COVERAGE
17	NEEDED TO BE UNINSURED TO BE ELIGIBLE
1/	FOR (SCHIP/MEDICAID)
18	OTHER
10 d	DK
	REF
r	NEF

IF UNINSURED WHOLE PERIOD (3.63=WHOLE PERIOD (999) OR MONTH CHILD DISENROLLED PLUS THE NUMBER OF MONTHS ANSWERED IN 3.63 = CURRENT MONTH) OR RE-ENROLLED, GO TO NEXT SECTION, ELSE GO TO 3.64

3.64 (DISENROLLEES DISENROLLED AND ESTABLISHED ENROLLEES DISENROLLED (3.2=2) Since (CHILD)'s last (SCHIP/MEDICAID) coverage ended, that is since (LAST ENDDATE), has he/she been covered by any health insurance, such as Medicaid or private insurance?

DISENROLLEES RE-ENROLLED (3.2=1) Since (CHILD)'s previous (SCHIP/MEDICAID) coverage ended in (PREVIOUS ENDDATE) and before (CHILD) was enrolled again in (CURRENT STARTDATE), was he/she covered by any health insurance, such as Medicaid or private insurance?

01	YES	GO TO 3.64.1
02	NO	GO TO NEXT
d		SECTION
r		

3.64.1 How many months was (CHILD) covered by health insurance such as Medicaid or private insurance just after his/her last/previous (SCHIP/MEDICAID) coverage ended?

How many months was (CHILD) covered by health insurance such as Medicaid or private insurance?

	MONTHS (IF LESS	
	THAN 1 MONTH,	
	CODE 1)	
999	WHOLE PERIOD	
d		
r		

3.65.A During that time, was (CHILD) covered by insurance from a current or past employer or union?

01	YES
02	NO
d	DK
r	REF

3.65.B Was (CHILD) covered by insurance from private insurance purchased directly from an insurance company?

Do not include plans that only provide extra cash while in the hospital or plans for only one type of service, such as dental care, vision care, nursing home care, or accidents?

01	YES
02	NO
d	DK
r	REF

3.65.C Was (CHILD) covered by insurance from Medicare, the health insurance plan for people 65 years old and older or persons with certain disabilities?

01	YES
02	NO
d	DK
r	REF

3.65.D (DO NOT ASK IF STATUS=MEDICAID) Was (CHILD) covered by Medicaid or a Medicaid HMO, the government assistance program for people in need?

01	YES
02	NO
d	DK
r	REF

3.65.E Was (CHILD) covered by TRICARE, CHAMPUS, CHAMP-VA, VA, or any other military health insurance, service?

01	YES	
02	NO	GO TO
d	DK	3.65F
r	REF	

3.65.F Was (CHILD) covered by the Indian Health Service?

01	YES
02	NO
d	DK
r	REF

3.65.G (DO NOT ASK THIS QUESTION IF STATUS = SCHIP)

Was (CHILD) covered by (SCHIP)?

01	YES
02	NO
d	DK
r	REF

3.65.H Was (CHILD) covered by some other type of coverage I have not yet mentioned?

01	YES	
02	NO	GO TO
d	DK	3.66
r	REF	

3.66.1-3.66.7

IF MORE THAN ONE PLAN IN 3.65: Of the health insurance plan(s) you just mentioned, which plan(s) did (CHILD) have

A) just after the last/previous period of (SCHIP) coverage ended (ASKED OF DISENROLLEES DISENROLLED AND ESTABLISHED ENROLLEES DISENROLLED)

B) just after (CHILD) became uninsured? (ASKED OF DISENROLLEES REENROLLED)

1	INSURANCE THROUGH AN
	EMPLOYER
2	PRIVATE INSURANCE
3	MEDICARE
4	MEDICAID
5	TRICARE, CHAMPUS, CHAMP-VA,
	OTHER MILITARY HEALTH
	INSURANCE
6	INDIAN HEALTH SERVICE
8	ANY OTHER TYPE OF INSURANCE

3.66.2

(IF 3.65=YES b THRU h =NO - ONLY HEALTH INSURANCE FROM EMPLOYER) Did the employer pay all, some, or none of the premium for this health insurance?

(IF 3.65=YES AND ANY b THRU h =YES - OTHER HEALTH INSURANCE BESIDES FROM EMPLOYER) For the health insurance from an employer, did the employer pay all, some, or none of the premium for this health insurance?

01	ALL
02	SOME
03	NONE
d	DK
r	REF

IF MORE THAN ONE INSURANCE IN 3.66 READ "any of the insurance plans" instead of "insurance coverage" in 3.66.3 to 3.71

IF NO HEALTH PLANS FROM 3.65, GO TO NEXT SECTION

SKIP TO 3.66.4 IF COVERED BY (SCHIP/MEDICAID) NOW (3.2=1) OR IF NO HEALTH PLANS IN 3.65.A TO 3.65.H

3.66.3 Is (CHILD) covered by this insurance coverage right now?

01	YES
02	NO
d	DK
r	REF

3.66.4 Does/Did this health insurance coverage require (CHILD) to be signed up with a certain primary care doctor or clinic (CHILD) would have to go to for all routine care?

01	YES
02	NO
d	DK
r	REF

3.71 Does/Did the health insurance include the following services?

	1=YES	
	2=NO	
	d=DK	
	r=REF	
А		Doctors' visits for illness or injuries
В		Well-child visits, routine check-ups, and
		immunizations
С		Emergency room visits
D		Hospital stays
Е		Prescription drugs
F		Dental care
G		Vision care or eye exams

IF MEDICAID COVERAGE ONLY, GO TO NEXT SECTION

3.71.1 (ASK IF 3.71B=YES) Do/Did you have to pay a co-payment for the well-child visits, routine check-ups, and immunizations?

01	YES
02	NO
d	DK
r	REF

3.71.3 (ASK, IF 3.71E=YES ELSE GO TO NEXT SECTION) Do/Did you have to pay a co-payment to get a prescription drug filled?

01	YES	GO TO NEXT
02	NO	SECTION
d	DK	
r	REF	

SECTION 4: CHILD'S HEALTH

The next questions are about (CHILD)'s health.

4.1 In general, would you say (CHILD)'s health is...

01	Excellent
02	Very good
03	Good
04	Fair or poor
d	DK
r	REF

4.2 Compared to 12 months ago, would you say (CHILD)'s health is now... (NOT IN PUBLIC ACCESS FILE)

01	Better
02	Worse
03	Or about the same
D	DK
R	REF

4.3 Does (CHILD) have any impairment or health problem that requires him/her to use special equipment such as a brace, a wheelchair, or a hearing aid? Do not include ordinary eye glasses or corrective shoes. (NOT IN PUBLIC ACCESS FILE)

01	YES
02	NO
d	DK
r	REF

4.4 Does (CHILD) have an impairment or health problem that limits his/her ability to crawl, walk, run, or play? (NOT IN PUBLIC ACCESS FILE)

01	YES	GO TO 4.5
02	NO	GO TO 4.9
d	DK	
r	REF	

4.5 Is this an impairment or health problem that has lasted or is expected to last 12 months or longer? (NOT IN PUBLIC ACCESS FILE)

01	YES
02	NO
d	DK
r	REF

4.6 Because of this impairment or health problem, does (CHILD) need other people to help him/her with personal care needs, such as bathing, dressing, eating, or getting around? (NOT IN PUBLIC ACCESS FILE)

01	YES
02	NO
d	DK
r	REF

4.9 Has a doctor or other health care professional ever said that (CHILD) had asthma?

01	YES	
02	NO	GO TO
d	DK	4.11
r	REF	

4.10 How old was (CHILD) when he/she had his/her first episode of asthma or first asthma attack? (NOT IN PUBLIC ACCESS FILE)

	AGE IN YEARS (IF LESS THAN 1, CODE 0)	
d	DK	
r	REF	

4.10.1 Does (CHILD) take medication or require injections prescribed by a doctor for his/her asthma?

01	YES
02	NO
d	DK
r	REF

4.11 Does (CHILD) take medication or require injections prescribed by a doctor for any other physical condition?

01	YES	
02	NO	GO TO
d	DK	4.13
r	REF	

4.12 Has she/he taken this medication or required these injections for at least 3 months? (NOT IN PUBLIC ACCESS FILE)

01	YES
02	NO
d	DK
r	REF

4.13 Has a doctor or other health professional ever said that (CHILD) had a mental health condition or behavioral problem?

01	YES	GO TO 4.14
02	NO	GO TO 4.16
d	DK	
r	REF	

4.14 How old was (CHILD) when a doctor or other health professional first said that he/she had a mental health condition or behavioral problem? (NOT IN PUBLIC ACCESS FILE)

	AGE IN YEAR (IF LESS THAN 1, CODE 0)
D	DK
R	REF

4.15 Does (CHILD) take medication or require injections for a mental health condition or behavioral problem? (NOT IN PUBLIC ACCESS FILE)

01	YES
02	NO
d	DK
r	REF

4.16 Has a mental health condition or behavioral problem limited (CHILD) in his/her ability to do regular school work or to participate in the usual kind of activities done by most children his/her age?

01	YES
02	NO
d	DK
r	REF

SECTION 5: ACCESS AND BARRIERS TO AND SATISFACTION WITH USUAL PLACE OF CARE

5.1 The next questions are about people and places that children usually go to or would go to for medical care.

During (TIMEFRAME 1), was there a particular doctor's office, clinic, health care center, hospital, or other place that (CHILD) usually did go to or would have gone to if he/she were sick or needed advice about his/her health?

01	YES	GO TO 5.3
02	NO, THERE IS NO	GO TO 5.2
	PARTICULAR PLACE	
d	DK	GO TO 5.80
r	REF	

5.2 What was the main reason (CHILD) did not have a usual place of health care during that time?

01	CHILD SELDOM OR NEVER GETS SICK
02	RECENTLY MOVED TO THE AREA
03	DON'T KNOW WHERE TO GO FOR CARE
04	PLACE CLOSED OR MOVED
05	NO LONGER AVAILABLE IN THIS AREA
06	CAN'T FIND A PROVIDER OR PLACE WHERE MY LANGUAGE
	IS SPOKEN
07	LIKES TO GO TO DIFFERENT PLACES FOR HEALTH CARE
08	HOURS ARE NOT CONVENIENT
09	NO WAY TO GET THERE (TRANSPORTATION PROBLEMS)
10	JUST CHANGED INSURANCE
11	PLACE USED TO GO TO NOT IN PLAN
12	HAVE NOT BEEN ABLE TO FIND PLACE I LIKE
13	COST TOO HIGH
14	OTHER REASON
d	DK
r	REF

SKIP TO 5.7

5.3 What type of place did (CHILD) go to or would have gone to during that time?

Was it a...

01	Private doctor's office or group practice
02	An HMO-run office or facility
03	A clinic or health center
04	A hospital emergency room
05	A hospital outpatient department
06	Another type of clinic or health center
d	DK
r	REF

5.6 During that time, did (CHILD) actually go to the (USUAL PLACE OF CARE) because he/she was sick or needed advice about his/her health?

01	YES	GO TO 5.21
02	NO	
d	DK	
r	REF	

5.7 During that time did (CHILD) go to a doctor, clinic, health center, hospital, or any other place because he/she was sick or needed advice about his/her health?

01	YES	GO TO 5.27B
02	NO	GO TO 5.51
d	DK	
r	REF	

5.21 How long would it usually take to get to the (USUAL PLACE OF CARE)?

	MINUTES	GO TO 5.22.2
d	DK	GOT TO 5.22
r	REF	GO TO 5.22.2

5.22 Would it take...

01	Less than 15 minutes
02	15 minutes but less than 30 minutes
03	30 minutes but less than 45 minutes
04	45 minutes but less than one hour
05	One hour but less than 2 hours
06	Two hours or more
d	DK
r	REF

If 5.3 =4 (EMERGENCY ROOM) SKIP TO 5.51

5.22.2 Would there be a particular doctor or other health provider (CHILD) usually would see at the (USUAL PLACE OF CARE)?

01	YES
02	NO
d	DK
r	REF

5.23.2 If the (USUAL PLACE OF CARE) were closed and (CHILD) got sick would you be able to reach and talk to a doctor or other health care professional from the (USUAL PLACE OF CARE) about (CHILD)'s condition?

01	YES
02	NO
d	DK
r	REF

5.27A Still thinking about the (USUAL PLACE OF CARE) (CHILD) usually would go to for medical care, when he/she arrived on time for an appointment about how long would (CHILD) usually have to wait before getting medical care?

	MINUTES	GO TO 5.32
d	DK	GO TO 5.27.1
r	REF	GO TO 5.32

5.27B Thinking about the places (CHILD) would go to for medical care, when he/she arrived on time for an appointment about how long would (CHILD) usually have to wait before getting medical care?

	MINUTES	GO TO 5.32
d	DK	GO TO 5.27.1
r	REF	GO TO 5.32.1

5.27.1 Would he/she have to wait...

01	Less than 15 minutes
02	15 minutes but less than 30 minutes
03	30 minutes but less than 45 minutes
04	45 minutes but less than one hour
05	One hour but less than two hours
06	Two hours or more
d	DK
r	REF

5.32 How often did the doctors or other health care providers explain things in a way that you could understand?

Would you say...

01	Always
02	Usually
03	Sometimes
04	Never
d	DK
r	REF

5.35.1 How often did the doctors or other health care providers treat you and (CHILD) with courtesy and respect?

Would you say ...

01	Always
02	Usually
03	Sometimes
04	Never
d	DK
r	REF

5.36 How often did the doctors or other health care providers talk with you about how (CHILD) was feeling, growing, and behaving?

Would you say...

01	Always
02	Usually
03	Sometimes
04	Never
d	DK
r	REF

IF NO USUAL PLACE OF CARE (5.1=NO) GO TO 5.41B ELSE CONTINUE

5.39 Would you have recommended the (USUALLY PLACE OF CARE) to family or friends?

01	YES	GO TO
02	NO	5.41A
d	DK	
r	REF	

5.41A (DO NOT ASK IF 5.6=NO) Now, I would like you to rate the features of the health care (CHILD) got in the (USUAL PLACE OF CARE) during (TIMEFRAME1).

How would you rate the ease of getting medical care when (CHILD) was sick or had an accident? Would you rate it as...

01	Excellent	GO TO 5.51
02	Very Good	
03	Good	
04	Fair	
05	Poor	
d	DK	
r	REF	

5.41B Now, I would like you to rate the features of the health care (CHILD) got) in the places (CHILD) went to for medical care during (TIMEFRAME1).

How would you rate the ease of getting medical care when (CHILD) was sick or had an accident? Would you rate it as...

01	Excellent
02	Very Good
03	Good
04	Fair
05	Poor
d	DK
r	REF

5.51

IF 5.1 =NO OR ESTABLISHED ENROLLEES WHO ARE ENROLLED (3.2=YES) GO TO 5.80 ELSE CONTINUE

Now, I am going to ask you about the places of care (CHILD) did go to or would have gone to since (TIMEFRAME2).

Since that time, was there a particular doctor's office, clinic, health care center, hospital, or other place that (CHILD) usually did go to or would have gone to if he/she were sick or needed advice about his/her health?

01	YES	GO TO 5.52
02	NO	GO TO 5.80
d	DK	
r	REF	

5.52 Was this the same (USUAL PLACE OF CARE) as he/she did go to or would have gone to during (TIMEFRAME1)?

01	YES	GO TO 5.80
02	NO	GO TO 5.52A
d	DK	GO TO 5.80
r	REF	

5.52A What type of place did (CHILD) go to or would have gone to during (TIMEFRAME2)?

Was it a...

01	Private doctor's office or group practice
02	An HMO-run office or facility
03	A clinic or health center
04	A hospital emergency room
05	A hospital outpatient department
06	Another type of clinic or health center
d	DK
r	REF

5.52.1.1

What was/has been the main reason (CHILD) does/did not have the same usual place of health care?

01	OLD PLACE NO LONGER AVAILABLE/NOT IN NEW PLAN
02	COST OF OLD PLACE TOO HIGH
03	NEW PLACE BETTER/MORE CONVENIENT
04	OTHER REASON
d	DK
r	REF

CHILDREN LESS THAN 3 YEARS GO TO NEXT SECTION ELSE CONTINUE

5.80 Now, I would like to ask about the places (CHILD) would receive dental care.

During (TIMEFRAME1), was there a particular dentist's office or clinic that (CHILD) usually did go to or would have gone to if he/she needed to see a dentist or a dental hygienist for a check-up, to get his/her teeth cleaned, or for another dental procedure?

01	YES	GO TO 6.2
02	NO	GO TO 5.81
d	DK	Go to 6.2
r	REF	

5.81 What is the main reason (CHILD) did not have a usual place of dental care?

01	CHILD DOES NOT NEED TO SEE
01	
	DENTIST
02	CHILD SELDOM OR NEVER HAS
	PROBLEM WITH TEETH
03	RECENTLY MOVED TO THE
	AREA
04	DON'T KNOW WHERE TO GO FOR
	CARE
05	PLACE CLOSED OR MOVED
06	NO DENTIST ACCEPTS PLAN
07	CAN'T FIND A DENTIST OR
	PLACE WHERE MY LANGUAGE
	IS SPOKEN
08	LIKES TO GO TO DIFFERENT
	PLACES FOR HEALTH CARE
09	HOURS ARE NOT CONVENIENT
11	NO WAY TO GET THERE/
	TRANSPORTATION PROBLEMS
12	JUST CHANGED INSURANCE
13	COST TOO HIGH
14	OTHER
d	DK
r	REF

SECTION 6: CHILD'S USE OF HEALTH CARE SERVICES

The next questions are about different kinds of medical care (CHILD) may have received during (TIMEFRAME1).

6.2 During that time, how many different times did (CHILD) stay in the hospital?

READ IF CHILD BORN DURING TIMEFRAME1: Do not include hospital stays if (CHILD) was born during that time period.

00	NEVER	GO TO 6.6
	TIMES	GO TO 6.2.1
d	DK	GO TO 6.6
r	REF	

6.2.1 During the time(s) (CHILD) stayed in the hospital, how many nights was she/he in the hospital altogether?

	NIGHTS
d	DK
r	REF

6.6 During (TIMEFRAME1), how many times did (CHILD) go to a hospital emergency room?

READ IF 6.2>0: Please, do not include the times when the child was admitted to the hospital through the emergency room.

00	NEVER	GO TO 6.9
	TIMES	
d	DK	GO TO 6.7
r	REF	GO TO 6.9

6.7 Would you say...

01	1 time
02	2 or 3 times
03	4 to 9 times
04	10 to 12 times
05	13 or more times
d	DK
r	REF

- 6.9 Now, I would like to talk about visits to different types of health care professionals.
- During (TIMEFRAME1), how many times did (CHILD) see a doctor or any other health care professionals such as a physician assistant, nurse or midwife altogether?
- Please do not include doctors or health care professionals he/she saw for a mental health condition or behavioral problem.
- Also, do not include doctors or other health professional (CHILD) saw during a hospital stay or in the emergency room.

00	NEVER	GO TO 6.11
	TIMES	IF 1 GO TO 6.10A IF >1 GO TO 6.10C
d	DK	GO TO 6.9.1
r	REF	GO TO 6.11

6.9.1 Would you say...

01	1 time	IF 1 GO TO 6.10A
02	2 or 3 times	IF >1 GO TO 6.10C
03	4 to 9 times	
04	10 to 12 times	
05	13 or more times	
d	DK	GO TO 6.10C
r	REF	GO TO 6.11

6.10A The one time (CHILD) saw a doctor or other health care professional, did he/she see a specialist such as an allergy specialist, ear nose and throat specialist, or other doctor who takes care of special parts of the body?

01	YES
02	NO
d	DK
r	REF

6.10B Did he/she see a doctor or health care professional for preventive care, such as a check-up or well-child visit?

01	YES	GO TO 6.14
02	NO	
d	DK	
r	REF	

6.10C Of the times (CHILD) saw a doctor or other health care professional, how many times did he/she see a specialist such as an allergy specialist, ear nose and throat specialist, or other doctor who takes care of special parts of the body?

00	NEVER
	TIMES
d	DK
r	REF

6.10D And, how many times did he/she see a doctor or health care professional for preventive care, such as a check-up or well-child visit?

00	NEVER	GO TO 6.14
	TIMES	
d	DK	
r	REF	

6.14 During (TIMEFRAME1), did (CHILD) see or talk to a mental health professional, such as a psychiatrist, psychologist, psychiatric nurse, or clinical social worker? (NOT IN PUBLIC ACCESS FILE)

01	YES	GO TO 6.14.1
02	NO	GO TO 6.20
d	DK	
r	REF	

6.14.1 How many times did (CHILD) see or talk to a mental health professional, such as a psychiatrist, psychologist, psychiatric nurse, or clinical social worker? (NOT IN PUBLIC ACCESS FILE)

	TIMES
d	DK
r	REF

DO NOT ASK 6.20 OR 6.20.1 FOR CHILDREN LESS THAN 3 YEARS OLD

6.20 During (TIMEFRAME1), did (CHILD) go to a dentist or dental hygienist for a check-up or to get his/her teeth cleaned?

01	YES
02	NO
d	DK
r	REF

6.20.1 During (TIMEFRAME1), did (CHILD) go to a dentist for a dental procedure, such as having a cavity filled or a tooth pulled?

01	YES
02	NO
d	DK
r	REF

6.23 Now I am going to ask you some questions about experiences (CHILD) may have had in getting care.

During (TIMEFRAME1), was there a time (CHILD) did not get or postponed getting hospital care when you thought he/she needed it?

01	YES	GO TO 6.24
02	NO	GO TO 6.31
d	DK	
r	REF	

6.24 What was the main reason (CHILD) did not get or postponed getting the hospital care when you thought he/she needed it?

-	
01	COULDN'T SCHEDULE APPOINTMENT
	SOON ENOUGH/COULD NOT GET
	THROUGH ON THE PHONE
02	TAKES TOO LONG TO GET THERE/
	TRANSPORTATION PROBLEM
03	DID NOT GET APPROVAL FROM PLAN
04	PLACE DID NOT ACCEPT THE
	INSURANCE COVERAGE
05	DID NOT THINK (CHILD) WAS SICK
	ENOUGH
06	CONDITION CLEARED UP
07	COST TOO MUCH
08	(CHILD) DID NOT WANT TO GO
09	OTHER
d	DK
r	REF

6.31 During (TIMEFRAME1), was there a time (CHILD) did not get or postponed getting care from a specialist when you thought he/she needed it?

01	YES	GO TO 6.32
02	NO	GO TO 6.36
d	DK	
r	REF	

6.32 What was the main reason (CHILD) did not get or postponed getting care from a specialist when you thought he/she needed it?

COULDN'T SCHEDULE APPOINTMENT
SOON ENOUGH/COULD NOT GET
THROUGH ON THE PHONE
TAKES TOO LONG TO GET THERE/
TRANSPORTATION PROBLEM
DID NOT GET APPROVAL FROM PLAN
PLACE DID NOT ACCEPT THE
INSURANCE COVERAGE
DID NOT THINK (CHILD) WAS SICK
ENOUGH
CONDITION CLEARED UP
COST TOO MUCH
(CHILD) DID NOT WANT TO GO
OTHER
DK
REF

6.36 During (TIMEFRAME1), was there a time (CHILD) did not get or postponed getting care from a regular doctor or other health care professional for an illness, accident, or injury when you thought she/he needed it?

01	YES	GO TO 6.37
02	NO	GO TO 6.49
d	DK	
r	REF	

6.37 What was the main reason (CHILD) did not get or postponed getting care from a regular doctor or other health care professional for an illness, accident or injury when you thought he/she needed it?

01	COULDN'T SCHEDULE APPOINTMENT
	SOON ENOUGH/COULD NOT GET
	THROUGH ON THE PHONE
02	TAKES TOO LONG TO GET THERE/
	TRANSPORTATION PROBLEM
03	DID NOT GET APPROVAL FROM PLAN
04	PLACE DID NOT ACCEPT THE
	INSURANCE COVERAGE
05	DID NOT THINK (CHILD) WAS SICK
	ENOUGH
06	CONDITION CLEARED UP
07	COST TOO MUCH
08	(CHILD) DID NOT WANT TO GO
09	OTHER
d	DK
r	REF

DO NOT ASK 6.49 TO 6.52 FOR CHILDREN LESS THAN 3 YEARS OLD

6.49 During (TIMEFRAME1), was there a time (CHILD) did not get or postponed getting dental care when you thought he/she needed it?

01	YES	GO TO 6.50
02	NO	GO TO 6.54
d	DK	
r	REF	

6.50 What was the main reason (CHILD) did not get or postponed getting dental care when you thought he/she needed it?

COULDN'T SCHEDULE APPOINTMENT
SOON ENOUGH/COULD NOT GET
THROUGH ON THE PHONE
TAKES TOO LONG TO GET THERE/
TRANSPORTATION PROBLEM
DID NOT GET APPROVAL FROM PLAN
PLACE DID NOT ACCEPT THE
INSURANCE COVERAGE
DID NOT THINK (CHILD) WAS SICK
ENOUGH
CONDITION CLEARED UP
COST TOO MUCH
(CHILD) DID NOT WANT TO GO
OTHER
DK
REF

6.54 During (TIMEFRAME1), was there a time (CHILD) did not get or postponed getting a prescription drug when you thought she needed it?

01	YES	GO TO 6.55
02	NO	GO TO 6.58
d	DK	
r	REF	

COULDN'T SCHEDULE APPOINTMENT
SOON ENOUGH/COULD NOT GET
THROUGH ON THE PHONE
TAKES TOO LONG TO GET THERE/
TRANSPORTATION PROBLEM
DID NOT GET APPROVAL FROM PLAN
PLACE DID NOT ACCEPT THE
INSURANCE COVERAGE
DID NOT THINK (CHILD) WAS SICK
ENOUGH
CONDITION CLEARED UP
COST TOO MUCH
(CHILD) DID NOT WANT TO GO
OTHER
DK
REF

6.55 What was the main reason (CHILD) did not get the prescription drug?

6.58 During (TIMEFRAME1), was there a time (CHILD) took less than the recommended dosage of a prescription drug or took the drug less frequently so that it would last longer?

01	YES
02	NO
d	DK
r	REF

6.59 During (TIMEFRAME1), how confident were you that (CHILD) could get health care if he/she needed it?

Would you say...

01	Very confident
02	Somewhat confident
03	Not very confident
04	Not at all confident
d	DK
r	REF

6.60 And during (TIMEFRAME1), how satisfied were you with the quality of the health care (CHILD) received?

Would you say...

01	Very satisfied
02	Somewhat satisfied
03	Not very satisfied
04	Not at all satisfied
d	DK
r	REF

6.61 And, how worried were you about meeting (CHILD)'s health care needs...

01	Very worried
02	Somewhat worried
03	Not very worried
04	Not at all worried
d	DK
r	REF

6.62 And during (TIMEFRAME1), how often did you feel stress about meeting (CHILD) health care needs...

01	All the time
02	Very often
03	Not very often
04	Never
d	DK
r	REF

6.63 And during (TIMEFRAME1), how much did (CHILD)'s health care needs create financial difficulties...

01	A lot
02	Somewhat
03	A little
04	Not at all
d	DK
r	REF

SECTION 7: PARENTS' CHARACTERISTICS AND ATTITUDE TOWARDS HEALTH

QUESTIONS ABOUT RESPONDENT

Next, I have a few questions about your health and health related issues.

QUESTIONS ABOUT HEALTH AND ATTITUDES TOWARDS HEALTH

7.3.21 In general, would you say that your health is	7.3.21	In general,	would you	say that your	health is
--	--------	-------------	-----------	---------------	-----------

01	Excellent
02	Very good
03	Good
04	Fair or poor
d	DK
r	REF

7.3.30 Now, I am going to read you some statements about health and health care. For each statement, please tell me if in your opinion the statement is definitely true, mostly true, mostly false, or definitely false.

First, you worry about your health more than other people your age. Is that...

01	Definitely true
02	Mostly true
03	Mostly false
04	Definitely false
d	DK
r	REF

7.3.32 You can overcome most illnesses without help from a medically trained professional. Is that...

01	Definitely true
02	Mostly true
03	Mostly false
04	Definitely false
d	DK
r	REF

01	Definitely true
02	Mostly true
03	Mostly false
04	Definitely false
d	DK
r	REF

7.3.34 Home remedies are often better than drugs prescribed by a doctor. Is that...

7.3.38 Doctors and nurses look down on people who are in (SCHIP/MEDICAID). Is that...

01	Definitely true
02	Mostly true
03	Mostly false
04	Definitely false
d	DK
r	REF

7.3.40 Getting a child enrolled in (SCHIP/MEDICAID) whenever you want is easy if the child is eligible. Is that...

01	Definitely true
02	Mostly true
03	Mostly false
04	Definitely false
d	DK
r	REF

7.3.41 Children on (SCHIP/MEDICAID) get better health care than children with no insurance. Is that...

01	Definitely true
02	Mostly true
03	Mostly false
04	Definitely false
d	DK
r	REF

01	Definitely true
02	Mostly true
03	Mostly false
04	Definitely false
d	DK
r	REF

7.3.42 You are more likely to take risks than the average person. Is that...

7.3.43 Do you think it's better to plan your life far ahead or would you say that life is too much a matter of luck to plan ahead very far?

01	PLAN AHEAD
02	TOO MUCH LUCK
03	BOTH PLAN AHEAD AND LUCK
D	DK
R	REF

QUESTIONS ABOUT YOU AND OTHERS IN HOUSEHOLD

The next questions are about you and other people living in the household with (CHILD).

7.4.A How many people are living in the household right now? Please include yourself and (CHILD).

	NUMBER OF PEOPLE IN
	HOUSEHOLD
d	DK
r	REF

7.4.1.1 Including yourself, how many people in the household are 18 years or older?

	NUMBER OF PEOPLE
d	DK
r	REF

1	BIOLOGICAL PARENT	GO TO 7.4.1.5
2	OTHER RELATIONSHIP	GO TO 7.4.1.3
D	DK	GO TO 7.4.1.3
R	REF	

7.4.1.2 Are you (CHILD)'s biological, step, adoptive parent or legal guardian?

7.4.1.3 Are you (CHILD)'s legal parent or guardian?

01	YES
02	NO
d	DK
r	REF

7.4.1.5 What is your gender?

01	MALE
02	FEMALE
r	REF

7.4.1.6 What was your age at your last birthday?

1	30 OR YOUNGER
2	31 TO 40
3	OLDER THAN 40
d	DK
r	REF

7.4.1.7 What is the highest grade or year of schooling you have completed?

1	HIGH SCHOOL NO DIPLOMA
2	HIGH SCHOOL DIPLOMA OR GED
3	ANY POST-SECONDARY EDUCATION
d	DK
r	REF

7.4.1.8 In what country were you born? (NOT IN PUBLIC ACCESS FILE)

01	USA	SKIP TO 7.4.1.12
02	ANY OTHER COUNTRY	
d	DK	
r	REF	

7.4.1.9 Are you a citizen of the United States?

01	YES
02	NO
d	DK
r	REF

IF 7.4.1.1=1 GO TO 7.60	

7.4.5.1 Does (CHILD) have a/another biological, step, adoptive parent or legal guardian living in the household?

01	YES	
02	NO	GO TO
d	DK	7.60
r	REF	

7.4.5.2 What is his/her relationship to (CHILD)?

1	BIOLOGICAL PARENT	GO TO 7.4.5.6
2	OTHER RELATIONSHIP	GO TO 7.4.5.3
D	DK	GO TO 7.4.5.3
R	REF	

7.4.5.3 Is he/she (CHILD)'s legal parent or guardian?

01	YES
02	NO
d	DK
r	REF

7.4.5.5 (DO NOT ASK IF ALREADY KNOWN) What is this person's gender?

01	MALE
02	FEMALE
r	REF

7.4.5.6 What was his/her age at his/her last birthday?

1	30 OR YOUNGER
2	31 TO 40
3	OLDER THAN 40
d	DK
r	REF

1	HIGH SCHOOL NO DIPLOMA
2	HIGH SCHOOL DIPLOMA OR GED
3	ANY POST-SECONDARY EDUCATION
d	DK
r	REF

7.4.5.7 What is the highest grade or years of schooling he/she has completed?

7.4.5.8 In what country was he/she born? (NOT IN PUBLIC ACCESS FILE)

01	USA	GO TO 7.4.6.0
02	ANY OTHER COUNTRY	
d	DK	
r	REF	

7.4.5.9 Is he/she a citizen of the United States?

01	YES
02	NO
d	DK
r	REF

7.4.6.0

IF TWO LEGAL PARENTS IN HOUSEHOLD (7.4.1.2=1 OR 3
OR 7.4.1.3=1)
AND
(7.4.5.2=1 OR 3 OR 7.4.5.3=1 YES)
OR
ONLY TWO ADULTS IN HOUSEHOLD (7.4.1.1=2)
GO TO 7.60

7.4.6.1 Does (CHILD) have another biological, step, adoptive parent or legal guardian living in the household?

01	YES	
02	NO	GO TO
d	DK	7.60
r	REF	

7.4.6.2 What is his/her relationship to (CHILD)? (NOT IN PUBLIC ACCESS FILE)

01	BIOLOGICAL PARENT	GO TO 7.4.6.5
02	STEP PARENT	GO TO 7.4.6.3
03	ADOPTIVE PARENT	GO TO 7.4.6.5
04	OTHER	GO TO 7.4.6.3
d	DK	
r	REF	

7.4.6.3 Is he/she (CHILD)'s legal parent or guardian? (NOT IN PUBLIC ACCESS FILE)

01	YES
02	NO
d	DK
r	REF

7.4.6.5 (DO NOT ASK IF ALREADY KNOWN) What is this person's gender? (NOT IN PUBLIC ACCESS FILE)

01	MALE
02	FEMALE
r	REF

7.4.6.6 What was this person's age at his/her last birthday? (NOT IN PUBLIC ACCESS FILE)

	AGE
D	DK
R	REF

7.4.6.7 What is the highest grade or year of schooling he/she has completed? (NOT IN PUBLIC ACCESS FILE)

1	HIGH SCHOOL NO DIPLOMA		
	How many grades did he/she complete? 7.4.6.7A		
2	HIGH SCHOOL DIPLOMA		
3	ANY POST SECONDARY EDUCATION		
d	DK		
r	REF		

7.5 In what country was he/she born? (NOT IN PUBLIC ACCESS FILE)

01	USA	GO TO 7.7
02	ANY OTHER COUNTRY	
d	DK	
r	REF	

7.6 Is he/she a citizen of the United States? (NOT IN PUBLIC ACCESS FILE)

01	YES
02	NO
d	DK
r	REF

7.7

LEGAL PARENT DETERMINATION
IF (7.4.1.2=1 OR 3) OR 7.4.1.3=1) THEN LPER1=TRUE
IF LPER1=TRUE AND IF (7.4.5.2=1 OR 3) OR 7.4.5.3=1) THEN LPER2=TRUE.
IF LPER1=FALSE AND IF (7.4.5.2=1 OR 3) OR 7.4.5.3=1) THEN LPER1=TRUE.
IF LPER1=TRUE AND IF LPER=TRUE AND (7.4.6.2=1 OR 3) OR 7.4.6.3=1) THEN
LPER2=TRUE.
IF LPER1=FALSE AND IF (7.4.6.2=1 OR 3) AND 7.4.6.3=1 THEN LPER1=TRUE

HEALTH INSURANCE STATUS OF LEGAL PARENT/GUARDIAN OF CHILDREN CURRENTLY ENROLLED SCHIP/MEDICAID

7.60

IF CHILD NOT CURRENTLY ENROLLED BY (SCHIP/MEDICAID) (2.2=02) OR NOT AN ESTABLISHED ENROLLEE GO TO 7.90 ELSE CONTINUE

REPEAT 7.63-7.79.1 FOR EACH LEGAL GUARDIAN (LPER1-2) LIVING IN HOUSEHOLD

IF RESPONDENT IS LEGAL GUARDIAN OF CHILD CALL THIS PERSON "YOU" ELSE USE THE RELATIONSHIP FROM 7.4.5.2 (FOR LPER1 OR LPER2), OR 7.4.6.2 FOR (LPER2) TO THE CHILD TO IDENTIFY THE PERSON

7.63 (LPER1) AND 7.65 (LPER2)

The next questions are about insurance coverage of the legal parents of (CHILD). Are/Is (LPER1-2) covered by any health insurance, such as Medicaid or SCHIP, right now?

LPER1	LPER2]	
01	01	YES	
02	02	NO	GO BACK TO 7.63
d	d	DK	OR TO 7.81 IF NO OTHER
r	r	REF	LEGAL PARENT

7.66 Is (CHILD)'s (LPER2) covered by the same health insurance as (LPER1)?

01	YES	SKIP REMAINDER OF (LPER2) QUESTIONS
02	NO	
d	DK	
r	REF	

7.70.1-7.70.5 (LPER1) AND 7.70.6-7.70.10 (LPER2)

Are/Is the (LPER1-2) covered by health insurance from an employer, a private insurance purchased directly from an insurance company, Medicaid, SCHIP, or any other health insurance coverage. If (LPER1-2) have/has more than one coverage, please mention all health insurance coverage (LPER1-2) currently have/has?

1	INSURANCE FROM A CURRENT
	OR PAST EMPLOYER OR UNION
2	PRIVATE INSURANCE
	PURCHASED DIRECTLY FROM
	AN INSURANCE COMPANY
3	MEDICAID
4	SCHIP
5	SOME OTHER TYPE OF
	COVERAGE I HAVE NOT YET
	MENTIONED
D	DK
R	REF

IF MORE THAN ONE INSURANCE IN 7.70 READ "any of the insurance plans" instead of "insurance coverage" in 7.71 to 7.76

IF COVERAGE FROM EMPLOYER IN 7.70 (A=YES) GO TO 7.71. ELSE GO TO 7.72

7.71 (LPER1) AND 7.73 (LPER2) (IF ONLY HEALTH INSURANCE FROM EMPLOYER) Does the employer pay all, some or none of the premium for this health insurance?

(IF OTHER HEALTH INSURANCE BESIDES FROM EMPLOYER) For the health insurance from an employer, does the employer pay all, some or none of the premium for this health insurance?

LPER1	LPER2	
01	01	ALL
02	02	SOME
03	03	NONE
d	d	DK
r	r	REF

7.72 (LPER1) AND 7.74 (LPER2) Does the health insurance coverage require (LPER1-2) to be signed up with a certain primary care doctor or clinic, which (LPER1-2) has to go to for all routine care?

LPER1	LPER2	
01	01	YES
02	02	NO
d	d	DK
r	r	REF

7.76 Does this health insurance include coverage for the following services...

	01=YES	01=YES	
	02=NO	02=NO	
	d=DK	d=DK	
	r=REF	r=REF	
	LPER1	LPER2	
A AND A2			Doctors' visits for illness or
			injuries
B AND B2			Physical exams or routine
			check-ups
C AND C2			Emergency room visits
D AND D2			Hospital stays

IF 7.70 =SCHIP THEN GO TO 7.79.1.1 ELSE GO TO 7.79

7.79 (LPER1) AND 7.80 (LPER2)

Could (CHILD) be covered by this health insurance?

LPER1	LPER2		
01	01	YES	GO TO 7.79.1.1
02	02	NO	GO TO 7.90
d	d	DK	
r	r	REF	

7.79.1.1 (LPER1) AND 7.79.1.2 (LPER2)

For the health insurance from an employer, would the employer pay all, some or none of the premium to cover (CHILD)?

LPER1	LPER2	
01	01	ALL
02	02	SOME
03	03	NONE
d	d	DK
r	r	REF

IF 7.70=SCHIP THEN GO TO 7.81	
ELSE GO TO 7.79.1	

7.79.1 (LPER1) AND 7.79.2 (LPER2)

What is the main reason (CHILD) is not covered by this health insurance?

LPER1	LPER2		
01	01	ALREADY COVERED BY IF OTHER	
		OTHER INSURANCE	LEGAL PARENT
02	02	TOO EXPENSIVE	GO BACK TO
03	03	NOT NEEDED/ NOT	7.63
		WANTED	ELSE GO TO 7.81
04	04	SERVICES OFFERED	
		NOT LIKED	
05	05	DOCTORS IN PLAN NOT	
		LIKED	
06	06	DO/DOES NOT BELIEVE	
		IN HEALTH INSURANCE	
		FOR CHILD	
07	07	OTHER]
d	d	DK]
r	r	REF	

OTHER SPOUSE DETERMINATION

CONDITION 1:

(MORE THAN 1 ADULT IN HOUSEHOLD AND LPER1="YOU" AND LEGAL PARENT (respondent) **AND** NO OTHER LEGAL PARENT (no LPER2))

IF 7.4.1.1>1 AND IF 7.4.1.2=1 OR 3 OR 7.4.1.3=YES) AND LPER2=0

CONDITION 2:

(MORE THAN 2 PEOPLE IN HOUSEHOLD AND LPER1="HE/SHE" AND LEGAL PARENT (other adult in household) AND NO OTHER LEGAL PARENT - NO LPER2)

IF 7.4.1.1>2 AND IF 7.4.1.3=NO OR SKIPPED AND (IF 7.4.5.2=1 OR 3 OR 7.4.5.3=YES) AND LPER2=0

IF CONDITION 1=TRUE OR CONDITION 2=TRUE GO TO 7.81 ELSE GO TO 7.90

7.81 Are/Is (LPER1) married to someone else living in the household who is not a legal parent or guardian of (CHILD)?

01	YES	
02	NO	GO TO 7.90
d	DK	
r	REF	

7.82 Is (NONGUARDIAN) covered by any health insurance, such as Medicaid or SCHIP, right now?

01	YES	
02	NO	GO TO 7.90
d	DK	
r	REF	

7.83 (ONLY ASK IF 7.63=1) Is (NONGUARDIAN) covered by the same health insurance as (LPER1)?

01	YES	GO TO 7.90
02	NO	
d	DK	
r	REF	

7.84.1 - 7.84.5

Is this person covered by health insurance from an employer, a private insurance purchased directly from an insurance company, Medicaid, SCHIP or any other health insurance coverage? If this person has more than one coverage, please mention all health insurance coverage this person currently has.

1	INSURANCE FROM A
	CURRENT OR PAST
	EMPLOYER OR UNION
2	PRIVATE INSURANCE
	PURCHASED DIRECTLY
	FROM AN INSURANCE
	COMPANY
3	MEDICAID
4	SCHIP
5	SOME OTHER TYPE OF
	COVERAGE I HAVE NOT YET
	MENTIONED
d	DK
r	REF

IF MORE THAN ONE INSURANCE IN 7.84 READ "any of the insurance plans" instead of "insurance coverage" in 7.85 to 7.89.1

IF COVERAGE FROM EMPLOYER IN 7.84 (A=YES) GO TO 7.85. ELSE GO TO 7.90

7.85 Does the employer pay all, some or none of the premium for this health insurance?

(IF OTHER HEALTH INSURANCE BESIDES FROM EMPLOYER) For the health insurance from an employer, does the employer pay all, some, or none of the premium for this health insurance?

01	ALL
02	SOME
03	NONE
d	DK
r	REF

7.86 Does the health insurance coverage require this person to be signed up with a certain primary care doctor or clinic, which he/she has to go to for all routine care?

01	YES
02	NO
d	DK
r	REF

7.87 Does this health insurance include coverage to pay or help pay for the following services...

	01=YES 02=NO d=DK r=REF	
A		Doctors' visits for illness or injuries
В		Physical exams or routine check-ups
С		Emergency room visits
D		Hospital stays

GO TO 7.89.1

7.89.1 Could (CHILD) be covered by this health insurance?

01	YES	
02	NO	GO TO 7.90
d	DK	
r	REF	

7.89.1.1

For the health insurance from an employer, would the employer pay all, some, or none of the premium to cover (CHILD)?

01	ALL
02	SOME
03	NONE
d	DK
r	REF

01	ALREADY COVERED BY OTHER
	INSURANCE
02	TOO EXPENSIVE
03	NOT NEEDED/NOT WANTED
04	SERVICES OFFERED NOT LIKED
05	DOCTORS IN PLAN NOT LIKED
06	DO/DOES NOT BELIEVE IN HEALTH
	INSURANCE FOR CHILD
07	OTHER
d	DK
r	REF

7.89.2 What is the main reason (CHILD) is not covered by this health insurance?

HOUSEHOLD EARNINGS AND HEALTH CARE SPENDING

7.90 The next questions are about money people living in the household with (CHILD) have earned at a job or through self-employment. Remember this information is completely confidential and will not be reported to any agency or program.

REPEAT FOR EACH LEGAL GUARDIAN LIVING IN HOUSEHOLD (7.4.1.5=1 OR 7.4.5.5=1 OR 7.4.6.5=1)

START WITH RESPONDENT IF (LEGAL GUARDIAN OF CHILD), AND CALL THIS PERSON YOU ELSE USE RELATIONSHIP TO THE CHILD TO IDENTIFY THE PERSON

7.91 (LPER1) AND 7.92 (LPER2)

First/Next, in the past 12 months, did (LPER1-2) work at a job or business, either full-time or part-time, for pay or profit?

LPER1	LPER2	
01	01	YES
02	02	NO
d	d	DK
r	r	REF

HOUSEHOLD INCOME & HEALTH CARE SPENDING

7.93 In addition to earnings from jobs, household members often have other sources of income from the government, from private institutions or from their own savings. Examples are money received from welfare payments, food stamps, SSI, child support payments, unemployment compensation, cash value of vouchers, any money that is directly deposited to your bank account, or dividend or interest from stocks or bonds.

In the past 12 months, what was the total household income from jobs and all other sources of income?

1	LESS THAN \$20,000	GO TO 7.102.1
2	\$20,000 BUT LESS THAN \$30,000	GO TO 7.102.1
3	\$30,000 OR MORE	GO TO 7.102.1
d	DK	GO TO 7.99
r	REF	GO TO 7.103

7.99 Would you say your total household income from all sources was less than \$25,000 or more than \$25,000? (NOT IN PUBLIC ACCESS FILE)

01	Less than \$25,000	GO TO 7.100
02	More than \$25,000	GO TO 7.101
d	DK	GO TO 7.103
r	REF	

7.100 Would you say it was... (NOT IN PUBLIC ACCESS FILE)

01	Less than \$5,000	GO TO 7.102
02	\$5,000 but less than \$10,000	
03	\$10,000 but less than \$15,000	
04	\$15,000 but less than \$20,000	
05	\$20,000 but less than \$25,000	
d	DK	
r	REF	

1	
01	\$25,000 but less than \$30,000
02	\$30,000 but less than \$40,000
03	\$40,000 but less than \$50,000
04	\$50,000 but less than \$60,000
05	\$60,000 but less than \$70,000
06	\$70,000 but less than \$80,000
07	\$80,000 but less than \$90,000
08	\$90,000 but less than \$100,000
09	More than \$100,000
d	DK
r	REF

7.101 Would you say it was... (NOT IN PUBLIC ACCESS FILE)

7.102.1 In the past two years, has anybody in the household received any benefits from TANF which used to be called AFDC? This includes yourself or any children in your household. (NOT IN PUBLIC ACCESS FILE—SEE "TANFORFS")

01	YES	
02	NO	
d	DK	
r	REF]

7.102.2 Including yourself, how many people in the household received food stamps in the past 2 years? (NOT IN PUBLIC ACCESS FILE—SEE "TANFORFS IN ELECTRONIC CODEBOOK")

	NUMBER OF PEOPLE
d	DK
r	REF

7.103 During the past 12 months, about how much did your household spend on health care, that is money you or someone else in the household paid for doctors' visits, hospital stays, or prescription drugs? Please include all out-of-pocket expenses that health insurance does not or will not pay for. Do not include any cost for health insurance premiums or dental care.

0	DID NOT PAY ANYTHING	GO TO 7.109
1	LESS THAN \$500	GO TO 7.109
2	\$500 BUT LESS THAN \$1,000	GO TO 7.109
3	\$1,000 OR MORE	GO TO 7.109
D	DK	GO TO 7.104
r	REF	GO TO 7.109

7.105	Would you say your household spending on health care was (NOT IN
	PUBLIC ACCESS FILE)

01	Less than \$500
02	\$500 but less than \$1,000
03	\$1000 but less than \$2,000
04	\$2,000 but less than \$3,000
05	\$3,000 but less than \$4,000
05	\$4,000 but less than \$5,000
06	\$5,000 or more
d	DK
r	REF

DEMOGRAPHICS OF (CHILD)

I would like to find out a little more about (CHILD)'s background.

7.109 Do you consider him/her to be of Hispanic or Latino origin? (NOT IN PUBLIC ACCESS FILE—SEE "ETH_RACE IN ELECTRONIC CODEBOOK")

01	YES	GO TO 7.110
02	NO	GO TO 7.111
D	DK	
R	REF	

7.110 What Hispanic or Latino group do you consider him/her to belong to? Is it... (NOT IN PUBLIC ACCESS FILE)

01	Mexican
02	Puerto Rican
03	Cuban
04	Some other Hispanic or Latino group
d	DK
r	REF

7.111 - 7.116

Which of the following best describes his/her racial background? Is it... (NOT IN PUBLIC ACCESS FILE—SEE "ETH_RACE IN ELECTRONIC CODEBOOK")

1	White
2	American Indian
3	Alaska Native
4	Black or African American
5	Asian/ Pacific Islander
6	Other
d	DK
r	REF

7.120 What is the main language spoken in this household?

01	ENGLISH
02	OTHER LANGUAGE
d	DK
r	REF

SECTION: 8 QUESTIONS ABOUT TELEPHONE COVERAGE (NOT IN PUBLIC ACCESS FILE)

The last questions are about the telephones in your households. We need this information so that households are correctly represented in our sample.

8.5 During the past 3 months, was there any time when you did not have a working telephone in your household for 2 weeks or more?

01	YES	GO TO 8.6
02	NO	GO TO 8.15.2
d	DK	
r	REF	

8.6 For how many of the past 3 months did your household not have a working telephone?

	NUMBER OF MONTHS
d	DK
r	REF

I have your zip code as (CURRENT ZIP CODE). Is that correct?

01	YES	GO 8.ADDRESS
02	NO	GO TO 8.16.1
d	DK	GO TO 8.ADDRESS
r	REF	

8.15.2 Can I please have your correct zip code?

ZIP CODE
REF

STREET ADDRESS (q8_address)CITY (q8city)STATE (q8_state)	GO TO 8.17
REF	GO TO 8.16.1

8.16.1 Can I please verify your address so we can send you a thank you letter?

8.17 These are all the questions we have. Your opinion is very important to us. Thank you very much for all your time.

SECTION: 9 GLOSSARY OF TERMS USED IN SURVEY INSTRUMENT

CHILD: The child in the household who has been sampled for the survey and is the focus of the interview.

CURRENT MONTH: The month (and year) of the interview.

CURRENT STARTDATE: See STARTDATE.

DISENROLLEE: One of three possible classifications of CHILD for purposes of assigning the timelines of interest (see TIMELINE) during the interview. This classification includes CHILD sampled as a recent disenrollee for the survey and not switched to an established enrollee survey because they report being on the SCHIP/MEDICAID for 6 months or more. (Note that a CHILD reported disenrolled 12+ months is assigned to an abbreviated questionnaire; see SWITCH TO SHORTENED SURVEY). See Appendix B for additional information on the survey questions that disenrollees received.

ENDDATE: The date (month and year) that CHILD most recently disenrolled from SCHIP/MEDICAID. For a DISENROLLEE who reports being reenrolled, this is the PREVIOUS ENDDATE; for all other children this is the LAST ENDDATE.

ESTABLISHED ENROLLEE: One of three possible classifications of CHILD for purposes of assigning the timelines of interest (see TIMELINE) during the interview. This classification includes: CHILD sampled as an established enrollee for the survey; and CHILD sampled as a recent enrollee or disenrollee but switched to this classification because they were reported to have been enrolled, respectively, for 12 or 6 months or more. (Note that if CHILD is reported disenrolled 12+ months, an abbreviated questionnaire is completed; see SWITCH TO SHORTENED SURVEY). See Appendix B for additional information on the survey questions that established enrollees received.

NEW ENROLLEE: One of three possible classifications of CHILD for purposes of assigning the timelines of interest (see TIMELINE) during the interview. This classification includes CHILD sampled as a new (recent) enrollee for the survey and not switched to an established enrollee survey because they report being on the SCHIP/MEDICAID for 12 months or more. (Note that if CHILD is reported disenrolled 12+ months, an abbreviated questionnaire is completed; see SWITCH TO SHORTENED SURVEY). See Appendix B for additional information on the survey questions that new enrollees received.

LAST ENDDATE: See ENDDATE.

LPER1: The first legal parent or guardian of CHILD that is identified during the interview. LPER1 is generally the survey respondent. The only exception is if the survey respondent does not meet the definition of legal parent or guardian. See Question 7.7 of the survey for additional details.

LPER2: The second legal parent or guardian of CHILD, if any, that is identified during the interview. See Question 7.7 of the survey for additional details.

MEDICAID/SCHIP: The program that the sampled child DID NOT currently participate in (if sampled as an enrollee), or recently disenroll from (if sampled as a disenrollee), at the time of sampling. If this program is Medicaid, the name of the state's Medicaid program (for example, Medi-Cal) is used in the interview; if this program is SCHIP, the name of the state's SCHIP (for example, Healthy Families) is used in the interview.

MONTHS SINCE COVERAGE ENDED: Length of time since SCHIP/MEDICAID coverage ended. It is calculated as the number of months between the CURRENT MONTH and ENDDATE. Applies only to CHILD reported to be disenrolled. For DISENROLLEE who re-enrolled, see MONTHS BETWEEN COVERAGE.

MONTHS OF COVERAGE: Length of SCHIP/MEDICAID coverage. For NEW ENROLLEE and ESTABLISHED ENROLLEE reported still enrolled, it is calculated as the number of months between CURRENT MONTH and STARTDATE. For CHILD reported to have disenrolled, it is calculated as the number of months between STARTDATE and ENDDATE. For DISENROLLEE who re-enrolled, see MONTHS OF PREVIOUS COVERAGE.

MONTHS OF PREVIOUS COVERAGE: Similar to MONTHS OF COVERAGE but applies to DISENROLLEE who re-enrolled. It is calculated as number of months between PREVIOUS STARTDATE and PREVIOUS ENDDATE.

MONTHS BETWEEN COVERAGE: Similar to MONTHS SINCE COVERAGE ENDED but applies to DISENROLLEE who re-enrolled. It is calculated as number of months between CURRENT STARTDATE and PREVIOUS ENDDATE.

PREVIOUS ENDDATE: See ENDDATE.

PREVIOUS STARTDATE: See STARTDATE.

SCHIP/MEDICAID: The program, either SCHIP or Medicaid, that the sampled child currently participated in (if sampled as an enrollee) or recently disenrolled from (if sampled as a disenrollee) at the time of sampling. If this program is SCHIP, the name of the state's SCHIP (for example, Healthy Families) is used in the interview this program; if this program is Medicaid, the name of state's Medicaid program (for example, Medi-Cal) is used in the interview.

STARTDATE: The month and year that the CHILD enrolled in SCHIP/MEDICAID. For DISENROLLEES who are reported to have reenrolled, there are two start dates of interest—the one pertaining to their current enrollment (called CURRENT STARTDATE) and the one pertaining to their prior enrollment (called PRIOR STARTDATE). For all others, the start date of interest is the most recent. This is either referred to as CURRENT STARTDATE if they are reported to still be enrolled or PRIOR STARTDATE if they are reported to be disenrolled.

SWITCH TO SHORTENED SURVEY: Finish the survey with an abbreviated set of questions related to the demographic characteristics of the CHILD and LPER1. This may result, for example, because CHILD is reported to be disenrolled for 12 or months (placing them well outside the three sample domains—new enrollee, established enrollee, and disenrollee—for the survey).

TERMINATE: Indicates that the survey interview is ended (before completing the questionnaire in full). This may result, for example, because the respondent refuses to provide information on whether CHILD is covered by SCHIP/MEDICAID at the time of interview.

TIMEFRAME: This term refers to the period of interest for a particular question. The timeframe varies by section and by a combination of the classification of the child for purposes of completing the survey (see NEW ENROLLEE, ESTABLISHED ENROLLEE, or DISENROLLEE) and whether or not they are on SCHIP/Medicaid at the time of the interview. There are five timelines specified in the survey questionnaire; they include:

(1) **TIMEFRAME1, Section 3** (**Coverage**): Pertains to the period of SCHIP/MEDICAID coverage. (The length of the timeframe is specified in each question). Specifically, the timeframe applies to the different sample classifications as follows:

NEW/ESTABLISHED ENROLLEES WHO ARE STILL ENROLLED: Timeframe is the current period with SCHIP/Medicaid coverage.

NEW/ESTABLISHED ENROLLEES WHO ARE DISENROLLED: Timeframe is the last period with SCHIP/Medicaid coverage.

DISENROLLEES WHO ARE STILL DISENROLLED: Timeframe is the last period with SCHIP/Medicaid coverage.

DISENROLLEES WHO REENROLLED: Timeframe is the prior period with SCHIP/Medicaid coverage.

(2) **TIMEFRAME2, Section 3** (**Coverage**): Pertains to the period *before* the start of the SCHIP/MEDICAID coverage. (The length of the timeframe is specified in each question). DISENROLLEES are not asked questions related to this timeframe. Specifically, the timeframe applies to the different sample classifications as follows:

NEW/ESTABLISHED ENROLLEES WHO ARE STILL ENROLLED: Timeframe is the period before current SCHIP/Medicaid coverage.

NEW/ESTABLISHED ENROLLEES WHO ARE DISENROLLED: Timeframe is the period before last Medicaid/SCHIP coverage.

(3) **TIMEFRAME3, Section 3** (**Coverage**): Pertains to the period *after* the end of SCHIP/MEDICAID coverage. (The length of the timeframe of is specified in each question). Only DISENROLLEES, and ESTABLISHED ENROLLEES who report being disenrolled, are asked questions related to this timeframe. Specifically, the timeframe applies to the different sample classifications as follows:

ESTABLISHED ENROLLEES WHO DISENROLLED: Timeframe is the period after last SCHIP/Medicaid coverage.

DISENROLLEES WHO ARE STILL DISENROLLED: Timeframe is the period after last SCHIP/Medicaid coverage.

DISENROLLLEES WHO ARE REENROLLED: Timeframe is the period after prior SCHIP/Medicaid coverage.

(4) TIMEFRAME1, Sections 5 & 6 (Health Care): Pertains to the focal period of interest for measuring the health care experiences of children in the sample. For NEW ENROLLEES, this is the period *before* the SCHIP/MEDICAID coverage. For ESTABLISHED ENROLLEES and DISENROLLEES, this is the period *after* the start of SCHIP/MEDICAID coverage. The exact timeframe of interest in both these periods is the most recent six months unless it is shorter than six months in length for some reason (in which case it is the full length of the period). For example, for a NEW ENROLLEE born three months before enrolling, Timeframe1 is this three month period before enrolling. Specifically, the timeframe applies to the different sample classifications as follows:

NEW ENROLLEES WHO ARE STILL ENROLLED: Timeframe is before the current period with SCHIP/Medicaid coverage.

NEW ENROLLEES WHO ARE DISENROLLED: Timeframe is before the last period with SCHIP/Medicaid coverage.

ESTABLISHED ENROLLEES WHO ARE STILL ENROLLED: Timeframe is the current period with SCHIP/Medicaid coverage.

ESTABLISHED ENROLLEES WHO ARE DISENROLLED: Timeframe is the last period with SCHIP/Medicaid coverage.

DISENROLLEES WHO ARE STILL DISENROLLED: Timeframe is the last period with SCHIP/Medicaid coverage.

DISENROLLEES WHO REENROLLED: Timeframe is the prior period with SCHIP/Medicaid coverage.

(5) **TIMEFRAME2, Sections 5 & 6 (Health Care):** Pertains to the secondary period of interest for measuring the health care experiences of selected children in the sample. For NEW ENROLLEES, this is the period *after* the start of the start of the SCHIP/Medicaid coverage on which the child was sampled for the survey. For DISENROLLEES, AND ESTABLISHED ENROLLEES who have disenrolled, this is the period *after* the end of their SCHIP/MEDICAID coverage. ESTABLISHED ENROLLEES who are still enrolled are not asked about this timeframe. The exact timeframe of interest in both these periods is the most recent six months or the full length of the period if it is less than 6 months. The timeframe applies to the different sample domains as follows:

NEW ENROLLEES WHO ARE STILL ENROLLED: Timeframe is the current period with SCHIP/Medicaid coverage.

NEW ENROLLEES WHO ARE DISENROLLED: Timeframe is after the last period with SCHIP/Medicaid coverage.

ESTABLISHED ENROLLEES WHO ARE STILL ENROLLED: Not applicable.

ESTABLISHED ENROLLEES WHO ARE DISENROLLED: Timeframe is after the last period with SCHIP/Medicaid coverage.

DISENROLLEES WHO ARE STILL DISENROLLED: Timeframe is the after the last period with SCHIP/Medicaid coverage.

DISENROLLEES WHO REENROLLED: Timeframe is after the prior period with SCHIP/Medicaid coverage.

USUAL PLACE OF CARE. The location that CHILD usually would go to seek medical care as defined by Question 5.1.

APPENDIX B

METHODS FOR CONDUCTING THE 2002 CONGRESSIONALLY MANDATED SURVEY OF SCHIP ENROLLEES AND DISENROLLEES IN 10 STATES AND MEDICAID ENROLLEES AND DISENROLLEES IN 2 STATES

The surveys of State Children's Health Insurance Program (SCHIP) and Medicaid enrollees and disenrollees took place in 2002. They were conducted by telephone but included an inperson follow-up component. Interviews were completed with the parents or guardians of 17,296 SCHIP enrollees and recent disenrollees in 10 states, and with 2,666 Medicaid enrollees and recent disenrollees in 2 of the 10 states. This appendix describes sample design, instrument design, survey management, data collection methods, and the development of sampling weights for these surveys.

A. SAMPLE DESIGN AND SELECTION

For this evaluation, we sampled two distinct groups. The first and most central group consisted of samples of recent and established SCHIP enrollees and recent SCHIP disenrollees in 10 states. As detailed below, this sample was designed to make inferences about SCHIP enrollees and disenrollees in each of the 10 states, and to make comparisons across the states. The second group included samples of recent and established Medicaid enrollees and recent Medicaid disenrollees in 2 of the 10 states in which we drew our SCHIP samples. The sample of recent Medicaid disenrollees was designed similarly to the first sample, to make inferences about Medicaid enrollees and disenrollees in the two states. It was also designed to draw comparisons between Medicaid SCHIP enrollees and disenrollees in those states.

The high costs of face-to-face interviews led to our adoption of a dual-frame sample design. The dual-frame design combined an unclustered sample that was interviewed by telephone only (when a telephone number could be found, using centralized locating efforts) with a clustered sample that was interviewed by telephone but had in-person field followup for locating of nontelephone households. With this approach, we could achieve the greater precision associated with the unclustered design, while retaining the enhanced response and coverage rates of the face-to-face approach. For all sample members, the interview was conducted with the person most knowledgeable about the health care needs and services received for the sampled child. Typically, that person was either a parent or a legal guardian of the child. For in-person interviewing, the field locator provided the individual with a cell phone for completing the interview, thus ensuring a consistent mode of interview (phone) for all sample members.

Here, we provide additional detail on the sample design, focusing on (1) the state selection process, (2) the target population to be surveyed in the states, (3) the sample frame from which this target population was sampled for interview, and (4) the dual-frame sample design.

1. State Selection

The state selection process flowed from three criteria specified in the legislation for the evaluation—that the 10 states were to (1) include a significant portion of uninsured low-income children, (2) use diverse programmatic approaches to providing child health assistance, and (3) represent various geographic areas. In addition, consistent with guidelines of the Assistant Secretary for Planning and Evaluation (ASPE), we selected the 10 states from a list of 25 states provided by ASPE and gave priority to states that were participating in a separate focus group study funded by ASPE.

Guided by these selection criteria, we chose the following states to participate in the SCHIP evaluation:

- California
- Colorado
- Florida
- Illinois
- Louisiana

- Missouri
- New Jersey
- New York
- North Carolina
- Texas

For the survey of Medicaid enrollees and recent disenrollees, we chose California and North Carolina. We chose those states based on three criteria: (1) the size of the low-income population covered by Medicaid and SCHIP, (2) the integration of the Medicaid and SCHIP enrollment systems, and (3) the interest of ASPE in conducting the Medicaid survey in states that had adopted a separate SCHIP program.

2. Target Population Within States

For each state, the SCHIP and Medicaid samples were drawn from a particular target population. To identify these populations, we used the following operational definitions of SCHIP and Medicaid enrollees and disenrollees:

- *Recent Enrollees:* Individuals enrolled in the given program (SCHIP or Medicaid) for at least 1 month but less than 3 months at the time of sample frame construction.¹ The enrollment spell was preceded by at least 2 months of no coverage in the program.
- *Intermediate Enrollees:* Individuals enrolled in the program for more than 2 months but less than 5 months at the time of sample frame construction
- *Established Enrollees:* Individuals enrolled for 5 or more months in the program at the time of sample frame construction
- *Recent Disenrollees:* Individuals disenrolled from the program at the time of sample frame construction but enrolled in the preceding 2 months

As noted, the target population for both the SCHIP and Medicaid samples was limited to the following three of those four domains: (1) recent enrollees, (2) established enrollees, and (3) recent disenrollees. Intermediate enrollees were not included in the evaluation, because they would be too far from their enrollment date to recall their preenrollment experience with a high degree of reliability but would not have been enrolled for sufficient time to acquire experience with the program. In order to focus on children, the target population in both samples was

¹The sampling frame for the study was developed from SCHIP and Medicaid enrollment data provided by the states. The frame was used to identify the target population members for sample selection. The "time of sample frame construction" refers to the most recent month for which a state provided its enrollment data.

further limited to individuals age 18 or younger in the two enrollee domains, and to individuals 19 or younger in the recent disenrollee domain. (The age limit of 19 years was set for disenrollees in order to capture any children who had lost eligibility due to age restrictions.) Sampled children who were found to have died or moved out of state were not of interest for the evaluation and were ineligible for data collection. We recorded the event leading to the ineligibility of these children in order to allow for complete reporting of the events leading to disenrollment.

For the Medicaid samples in California and North Carolina, several additional groups of children were excluded from the target population in order to create samples that, aside from differences in income eligibility, were equivalent (and therefore comparable) to the SCHIP samples in the two states. Examples of these exclusions include children who resided in foster care or institutions; received Social Security Income payments; qualified as Medically Needy (California only); or received partial benefits because of dual eligibility for Medicare, immigrant status, or other reasons. In total, these exclusions led to the removal of about 56 percent and 10 percent of children from the eligibility files in California and North Carolina, respectively.

In several states, the domain definitions were refined further, based on two guiding factors: (1) the enrollment process used by the state, and (2) the logistical constraints of the SCHIP enrollee databases used to select the sample (discussed in the sample frame section below). The goal of these refinements was to classify the child's enrollment status based on when the parent believed the child's health care services would be covered—a date that might differ from the date on which the state actually began paying for services. For example, some states retrospectively enroll children as of the first day of the month in which the parent applied for SCHIP, but they might not determine the children to be eligible until 1 or more months after the application was received. As a result, the date that services began to be covered by the state

might be month(s) earlier than the date on which the parent is notified of the child's enrollment. To address this discrepancy, when defining the enrollment status, we used the child's determination/authorization date (the date on which eligibility is granted) as the start date for coverage; we did so because the determination/authorization date was likely to be the date that the parent would perceive as the start of coverage. Other states (such as New York) enroll children at the time of application; thus the database may contain "presumptive eligibles" that may later have been determined to be ineligible. In those states, the target population included only children for whom the determination process was completed and eligibility was confirmed. Furthermore, as in the states with retroactive enrollment, we assumed that enrollment began at the determination date.

3. Sampling Frame

The *sampling frame* for a survey is the list, or mechanism, used to identify population members for sample selection purposes. For this study, we used data from the state SCHIP and Medicaid eligibility and enrollment files to construct the frames for each state and program.

Acquisition and use of these data required frequent and detailed interactions with state program staff. The process began when staff from Mathematica Policy Research, Inc. (MPR) contacted senior state staff to introduce themselves, and to explain the purpose of the study, why and how the state was selected for the study, and the need for a memorandum of understanding (MOU) detailing the data needs and confidentiality requirements and documents. Subsequent discussions with program staff focused on data elements that would support sampling criteria and analytic criteria, the source of program data, the format of the data available for our use, the timeliness of the data, and periodic data extracts and delivery. Data elements needed to support the survey sampling and analytic effort included:

- 1. Application date(s) and their associated status codes
- 2. Eligibility determination dates and their associated reason codes
- 3. Retroactive or presumptive eligibility status codes
- 4. Enrollment start and end dates
- 5. Disenrollment dates and their associated reason codes
- 6. Individual and household identifiers
- 7. Parent/guardian names
- 8. Street addresses
- 9. City, state, and zip code
- 10. Telephone numbers
- 11. Parent/guardian social security numbers
- 12. Children's demographic characteristics, including age, race, and sex

Timeliness of the data was an important issue to capture the populations of recent enrollees and disenrollees. Time-related issues included the time required by state and local agencies for processing initial applications and redeterminations and the use of retroactive or prospective enrollment (that is, enrollment dates set to the application date or a date prior to the application date). Our concern was that delays in updating the eligibility histories could affect the timely construction of sampling frames and sampling selection. In our discussions with state program staff, we requested delivery of data by the state within 2 weeks of the specified data extract cutoff date. With few exceptions, the states were timely in their delivery of data.

To support survey sampling and analysis, a uniform data structure was designed. The uniform structure reduced the need for unique, state-specific programming of sample selection. It also provided a consistent format for analytic programming. The uniform file contained only one record per client based on the state-level client recipient number. In the single uniform record, a client's participation in SCHIP (or Medicaid) was indicated for each month up to the file extract date. In the two states with combination programs (Illinois and New Jersey), the uniform record described client participation in both the separate SCHIP component and the Medicaid-expansion SCHIP component; in the two states with Medicaid-expansion programs (Louisiana and Missouri) and in the two states included in the Medicaid study (California and North Carolina), the uniform record included information on the clients' participation in both SCHIP and Medicaid. The same data element naming convention and data definitions were used in all files.

Three notable problems occurred during the development of the sample frame, which were addressed to the greatest extent possible:

- 1. Client contact information needed to facilitate high survey response rates, such as telephone numbers and addresses, was limited and of poor quality in three states. We requested supplemental data but were successful in acquiring those data in only one of the three states.
- 2. In three states, data elements used to determine application and/or determination dates were not available. As noted, this limitation, along with variation in the process of enrollment across states, led to refinements in the sample definitions used for the study. In all instances, however, the operational definitions used for purposes of sampling remained quite close to the general or targeted definitions defined previously.
- 3. In one state, there were no recipient identifiers that could be used to link across different files. In three other states, case identifiers used to relate children with one another were either not present or not reliable. In all cases, best efforts were made to proxy for these identifiers, using additional information on the file.

4. Sample Design

The sample for the survey was separated into two types of households, based on the availability of telephone information:

- *Telephone households* were defined as households with telephone service for which telephone numbers could be located.
- *Nontelephone households* were defined as (1) households without telephone service, and (2) households for which a telephone number could not be located.²

To interview the households as efficiently as possible, we used a variation of the classic subsampling-for-nonresponse-follow-up design. In each state (except New Jersey), two independent samples were selected for the SCHIP survey and for the Medicaid survey—one clustered and one unclustered.³ (We also drew two independent samples for the Medicaid survey in two states.) Telephone households were interviewed in both samples. Nontelephone households were interviewed only in the clustered sample. Across both samples, telephone households were interviewed by telephone only. This restriction was necessary for the integration of the two samples; it also reduced mode effects across samples, because telephone households were always interviewed by telephone, regardless of the sample design (clustered or nonclustered) from which they were drawn.

Each sample design was replicated with up to three different sample rounds and was fielded in each state. Each sample round was composed of sampled children from each SCHIP enrollment domain and, when applicable, from each Medicaid enrollment domain. The staged fielding of the sample was particularly important in reducing the time between sample frame construction and data collection. In addition, for states with the smallest populations of enrollees, the multiple rounds were needed to ensure that sufficient sample sizes of recent enrollees and recent disenrollees were obtained from each program. The sample for the last

² The latter group included households with unlisted numbers whose current numbers were not recorded in the SCHIP or Medicaid enrollment files.

³ For New Jersey, we used only an unclustered design because the state is sufficiently geographically small that the use of a clustered sample was deemed unnecessary.

round for each state included a reserve sample from which additional sample cases were released for data collection if response or eligibility rates were unexpectedly low.

Because of the large population of enrollees in California and Texas, the full sample was selected from the March 2002 enrollment files. For six states (Florida, Illinois, Missouri, New Jersey, New York, and North Carolina), two sample rounds, which were based on the January and March 2002 enrollment files, were used. The samples for Colorado and Louisiana, which had the smallest enrollment populations, were selected using three sample rounds (using January, March, and May 2002 enrollment files). We avoided sampling multiple children from the same household or sampling households in more than one sample round. Each sample draw was derived from the universe existing at the time of sampling but took into account whether a household was in the sampling frame or the sample of the prior round(s).

In each sample round, we classified children into the three domains (recent enrollees, established enrollees, and recent disenrollees), using the databases provided by the states. In states with multiple sample rounds, the populations of established enrollees overlapped extensively; however, by definition, recent enrollees and recent disenrollees were unique to a specific sample round. Enrollment status for a given child could vary from one sampling round to another. (For example established enrollees at one time could become recent disenrollees at the next time.)

In each round, the sample consisted of a clustered sample and an unclustered sample of children in the SCHIP domain (except for New Jersey) and the Medicaid domain (in California and North Carolina). We used sampling procedures that prevented the selection of the same child or household at subsequent rounds while preserving the probability structure of the two independent samples in each round. The resulting sample design included 38 separate samples across the 10 states (see Table B.1).

TABLE B.1

	Extract		Field Sample Used for
State	File Date(s)	Samples ^a	Nontelephone Households
		HIP Samples	
California	March	2	Subsample in each domain
Colorado	January, March, May	6	All cases
Florida	January, March	4	All recent disenrollees;
			Subsample of other domains
Illinois	January, March	4	All cases
Louisiana	January, March, May	6	All cases
Missouri	January, March	4	All cases
New Jersey	January, March	2	All recent disenrollees;
			Subsample of other domains
New York	January, March	4	Subsample in each domain
North Carolina	January, March	4	Subsample in each domain
Texas	March	2	Subsample in each domain
	Mee	licaid Samples	
California	March	2	Subsample in each domain
North Carolina	January, March	4	Subsample in each domain

SAMPLE DESIGN CHARACTERISTICS, BY STATE AND STUDY POPULATION

Note: For New Jersey, only an unclustered sample was used; all other states had both a clustered sample and an unclustered sample.

^aThe samples represent the count of state-level samples selected for the survey. Each sample contained three domains: (1) recent enrollees, (2) established enrollees, and (3) recent disenrollees.

a. Selecting the Clustered Sample

For the clustered design, which included in-person tracking and locating, the first step in sample selection for each program was to define primary sampling units (PSUs) for each state. These PSUs were geographic areas that met a specified minimum number of total enrollees and recent disenrollees. The areas were defined based on one or more counties and, in some highly populated areas, such as Miami, Florida, and Denver, Colorado, zip code areas. The same set of PSUs was used for all sample rounds for both the Medicaid and SCHIP samples.

A composite size measure strategy was used to select sample PSUs, as well as households and children for interview.⁴ As the first step, we defined a composite size measure, S(h, i, j), for each household *j* from PSU *i* in state *h* (*h* = 1,2, ...10) containing one or more eligible children from the three SCHIP domains and (where appropriate) the three Medicaid enrollment domains.

Let $C_d(h, i, j)$ be the total number of domain *d* children in household *j* from PSU *i* of state *h*. Let $f_d(h)$ be the desired sampling rate for domain *d* members in state *h*, or:

(1)
$$f_d(h) = \frac{m_d(h)}{C_d(h, +, +)}$$

where $m_d(h)$ is the desired sample from domain $d (d = 1, 2, ..., D)^5$ in state h and $C_d(h, +, +)$ is the total number of domain d members in state h.⁶ The composite size measure S(h, i, j) for household j from PSU i of state h is then defined as:

⁴ See Folsom et al. (1987) for a discussion of composite size measures.

⁵ The domains are composed of the three SCHIP enrollment groups and, for the subset of two states, the three Medicaid enrollee groups. Thus, D = 3 for eight states and D = 6 for two states.

⁶ The "+" sign denotes summation over all households and PSUs in state *h*.

(2)
$$S(h,i,j) = \sum_{d=1}^{D} f_d(h) C_d(h,i,j)$$

This composite size measure was summed over all households in PSU *i* and state *h* to produce the size measure S(h, i, +) for PSU *i* in state *h*, which was used in selecting the first-stage sample of PSUs.⁷

In most states, 30 PSUs were selected, with probability proportional to this composite size measure and with minimal replacement, using Chromy's (1979) procedure.⁸ In selecting the sample PSUs from the frame of $N_1(h)$ PSUs in state h, Chromy's procedure partitioned each state's $N_1(h)$ total PSUs into sampling zones of approximately equal size, based on the composite size measure S(h,i,+). Exactly one PSU was selected from each zone. The zones were defined so that all pairs of PSUs had a chance of appearing together in the sample (a requirement for unbiased estimation of sampling variances).⁹ Using a controlled ordering of the PSUs, this "zoned sequential selection" made possible an implicit stratification of PSUs that ensured that sample PSUs were representative of selected variables of interest. Two of these variables were the urbanicity and the geographic location of the PSU, which ensured selection of both urban and rural PSUs and the distribution of the sample across the state.

For each domain within a state, we used a composite size measure to ensure that the desired sample sizes were achieved. The composite size measure for PSU i in state h was defined as:

⁷ The "+" sign in S(h, i, +) denotes summation over all households *j* within PSU *i*.

⁸ In California, 60 PSUs were selected; in New Jersey, no PSUs were selected.

⁹ This requirement was accomplished by selecting a random starting point and treating the frame as a circular list.

(3)
$$S(h,i,+) = \sum_{j} S(h,i,j) = \sum_{d=1}^{D} \sum_{j} f_d(h) C_d(h,i,j),$$

where $C_d(h, i, j)$ is the number of children in domain *d* of household *j* of PSU *i* in state *h*, and $f_d(h)$ is the desired overall sampling rate for domain *d* in state *h*. Prior to selection, we again used a controlled ordering procedure, this time for the households within each PSU. Some of the variables for ordering were the sampling domains and, when available, the race of the children in the household.

For each selection of the *i*th PSU from the *h*th state, $n_2(h)$ households were selected, with probability proportional to the households' composite size.¹⁰ When multiple enrollee types were present within a household, we randomly determined the enrollee type to interview, using differential probabilities based on the desired state *h* sampling rates $f_d(h)$ for domain *d*. If multiple children were present in the sampled household for the enrollee domain selected, we randomly selected one child from the selected enrollee domain to be interviewed. Using the composite size measure for each household enabled us to oversample households with multiple eligible children while ensuring that the selection probabilities were equal within enrollment domains, regardless of household size.

In states for which we included a second (or third) sampling round, we followed procedures designed to avoid selection of households already chosen in a previous sample round, and to account for enrollees who were in the sampling frame for a prior round. By definition, recent enrollees and recent disenrollees were unique populations in each sample round. However,

¹⁰ For some sample rounds for some states, a household was selected with certainty if the number of enrollees of a specific type (most often, recent disenrollees) was large enough to produce a composite size measure above a threshold.

established enrollees could have had their status across multiple survey rounds (for example, in both January 2002 and March 2002). In order to maintain nearly equal sampling rates across the rounds, the established enrollees in round two and (as needed) in round three were divided into separate sampling strata depending on the number of rounds for which they had that status. The sample for the later rounds was then allocated to each stratum accounting for the sampling rate in the prior round(s) of established enrollees who appeared in both the later round and an earlier round.

The composite size measure was also adjusted to ensure that households were not selected multiple times across sample rounds. We made the adjustment by creating a household-level weight for each sample round after the first round that reflected the probability of *not* being selected in the previous round. The probability was constructed as follows:

- Households that were sampled for a prior round received a score of zero.
- Households that were on the frame(s) in prior round(s) were assigned a probability equal to the likelihood of not being selected in those prior round(s).
- Households not on the frames for the prior round(s) received a probability score of 1.

The modified composite size measure defined for each household was then the product of the probability score and the round-specific composite size measure for the household. Households were then selected according to the procedures outlined above, but with this modified composite size measure. This approach prevented the multiple selection of the same household while ensuring nearly equal selection probabilities across sample rounds.

b. Selecting the Unclustered Sample

For the unclustered, telephone-only design, we first sampled households; if the household included children in two or more domains, we then selected the domain for which a child would be selected and, finally, selected the child within the domain. Among households with multiple children eligible for interview, one child was randomly selected for interview. Prior to sample selection, the households were sorted by the various combinations of enrollment domain(s) to which their eligible children belonged (recent enrollee only, recent enrollee and established enrollee, recent enrollee and recent disenrollee, established enrollee only, and so forth). Then, within each combination, the households were further sorted by their race/ethnicity, metropolitan status, and geographic area. Through this process, we created an implicit stratification of the households from which to draw the sample for each domain and state.

A composite size measure was defined for each household that reflected the number of eligible children in the household (including Medicaid enrollees for the two states where they were to be sampled for the Medicaid analysis), as well as their desired, overall selection probabilities for the unclustered design. Households were selected with probability proportional to their composite size measures. For sampled households with multiple children eligible for survey, we used the desired subsampling rates for the enrollee domains in randomly sampling one child for interview. This composite size measure approach ensured that we achieved nearly equal selection probabilities within each state for each enrollee domain, regardless of the household's size. Similar to the approach used for the clustered sample, the selection process for the unclustered sample prevented selection of the same household in multiple rounds.

To account for individuals and households already selected for the clustered sample, we divided the sampling frame for the unclustered sample into two strata: (1) individuals in the geographic areas included in the sampled PSUs for the clustered sample, and (2) individuals in the rest of the state. We allocated the unclustered sample across these two strata. In the stratum of individuals in the PSUs of the clustered sample, we had to account both for households and individuals selected in any prior rounds and for the households and individuals selected in the

clustered sample (for the current round and for any prior rounds). In the stratum of individuals not in the PSUs of the clustered sample, we had to account only for households and individuals selected in any prior rounds. In most states and most rounds of data collection, adequate numbers of households and individuals were available to enable us to select separate unclustered and clustered samples. In North Carolina, the number of recent disenrollees in the March extract was very small. All recent disenrollees in the North Carolina PSUs were selected for the sample. Respondents among those recent disenrollees were included as part of both the clustered sample and the unclustered sample.

B. SURVEY QUESTIONNAIRE

The survey questionnaire addressed a broad range of topics related to the ease of application and enrollment in SCHIP/Medicaid—redetermination in and disenrollment from the program, health care coverage for the child, the child's health, experiences with and use of care for the child, the respondent's attitude toward health, and the parents' demographic characteristics. Whenever possible, we used survey questions that had been validated from existing surveys, including the Evaluation of Five Section 1115 Medicaid Reform Demonstrations Survey, the National Survey of America's Families, Consumer Assessment of Health Plans Survey, and Kaiser Family Foundation National Medicaid Survey Barriers to Medicaid for Children. Table B.2 summarizes, by section, the topics included in the questionnaire. (For a complete version of the questionnaire, see Appendix A of the main report.) On average, the questionnaire took about 40 minutes to administer.

As shown in Table B.3, survey respondents were asked different questions, depending on the enrollment domain in which they were sampled (recent enrollee, established enrollee, recent

TABLE B.2

SURVEY QUESTIONNAIRE CONTENT

Section 1: Introduction

Confirm child lives in household Confirm child lives in target state Confirm respondent is the person most familiar with the child's health care Read confidentiality statement

Section 3: Application, Enrollment, Redetermination, and Disenrollment^a

How respondent heard about program Was how heard about program an important part of the decision to enroll child in SCHIP/Medicaid? Experiences with enrollment process Experience with rejection of application Number of times successfully enrolled Age of child when first enrolled Reason for enrollment Was assistance with application process necessary? Application and enrollment processes and comparisons between SCHIP and Medicaid Coverage available prior to notification Renewal process and experience with rejection of renewal

Section 2: Health Care Coverage^a

Current enrollment status Establish end date(s) of coverage Establish last or current start date Establish previous end date and start date for disenrollees who enrolled again Features of current, last, or previous SCHIP/Medicaid coverage Premiums Types of service provided **Co-payments** Prescription drug coverage Period before SCHIP/Medicaid began coverage If insured, features of plan If uninsured, how long and why Period after SCHIP/Medicaid coverage ended If uninsured, how long and why If insured, features of plan

Type of service provided Co-payments Prescription drug coverage

Section 4: Child's Health

Child's health status
Child's health status versus 12 months ago
Any impairment(s) requiring special equipment or limiting mobility
Existing health conditions that have been diagnosed
Diabetes
Asthma
Any need for doctor-prescribed medications or injections
Mental health or behavioral problems
Any need for prescription medications or injections
Do mental health or behavioral problems limit child's abilities at school?

Section 5: Access to, Barriers to, and Satisfaction with Usual Place of Care

Usual place for care child actually went to or would have gone to if sick or needed advice If no usual place, why not, what type of place child would have gone to, what type of place visited If usual place for care, rate features of place Distance Waiting time Transportation Particular doctor How child was treated Ease of care Where to get advice if usual place closed How long a wait for care If place of care changed, main reason for change Type of new place Reason for visit Features of this place of care How well treated Usual place for dental care child actually went to or would have gone to If no usual place, why not

Section 6: Child's Use of Health Care Services

Health care services child used Number of hospital visits Number of nights in hospital Number of emergency room visits Number of times child saw a doctor. PA. nurse. or midwife Use of specialists Number of visits for preventive care Use of mental health professionals Number of times used mental health professionals Use of dentists Was needed care delayed? Did child take less than prescribed dose of medication? Confidence that child could get needed health care Satisfaction with health care received How worried was respondent about meeting child's health care needs? Stress about meeting child's health care needs Financial problems in meeting health care needs

Section 7: Parents' Characteristics and Attitudes About Health

How respondent perceived own health Attitude about health and health care Establish household composition Establish who is legal guardian of child Respondent's age Respondent's education level Respondent's place of birth Other legal guardian of child in household Other legal guardian's education level Other legal guardian's place of birth Health insurance status of legal parents or guardians in household If insured, why is child not insured by same? Features of legal guardian's health insurance Is legal parent/guardian married to another person who is not the legal guardian of child? Can child be covered by this person's insurance? Household earnings for past 12 months TANF recipient for past 2 years

Food stamp recipient for past 2 years Health care spending in past 12 months Child's racial or ethnic background and language spoken in home

Section 8: Telephones in Household

Number of other telephone numbers used in household Number working in past 3 months Verify address

^aOrder of these sections was reversed during survey administration.

PA = physician's assistant.

TABLE B.3

SURVEY QUESTIONS ANSWERED BY RESPONDENT, BY THE SAMPLE MEMBER'S ENROLLMENT DOMAIN

Definition	Introduction (Section 1)	Application, Enrollment Predetermination, Disenrollment (Section 2)	Child's Health Care Coverage (Section 3)	Child's Health (Section 4)	Time Frame for Sections 5-6	Access and Barriers to Care (Section 5)	Child's Use of Health Care Services (Section 6)	Parent Characteristics (Section 7)	Telephone Coverage (Section 8)
			Statuse	s Within the Re	cent Enrollee Doma	ain			
Recent Enrollee Who Has Been Enrolled for Fewer than 12 Months	Yes	Yes	2.1-2.9.1B, 2.20-2.44	Yes	The 6 months before (child)'s current SCHIP coverage started	Yes	Yes	Yes	Yes
Recent Enrollee Who Was Born in the 6 Months Before SCHIP Started	Yes	Yes	2.1-2.9.1B, 2.20-2.44	Yes	Before (child) was on SCHIP	Yes	Yes	Yes	Yes
Recent Enrollee Who Obtained Coverage at Birth and Has Been Enrolled for 12 Months or More	Yes	Yes	2.1-2.9.1B, 2.20-2.31	Yes	Past 6 months	Yes	Yes	Yes	Yes
Recent Enrollee Who Obtained Coverage at Birth and Has Been Enrolled for Fewer than 12 Months	Yes	Yes	2.1-2.9.1B, 2.20-2.31	Yes		No	No	7.4.a-7.4.1.9, 7.109-7.120	8.15 to end
Recent Enrollee Who Has Been Enrolled for 12 Months or Longer	Yes	Yes	2.1-2.9.1B, 2.20-2.44	Yes	Past 6 months	Yes	Yes	Yes	Yes
Recent Enrollee Who Has Been Disenrolled for 6 Months but Fewer than 12 Months	Yes	Yes	2.1-2.9.1B, 2.20-2.44	Yes	The 6 months before (child)'s last SCHIP coverage ended	Yes	Yes	Yes	Yes
Recent Enrollee Who Has Been Disenrolled for 12 Months or Longer	Yes	Yes	2.1-2.51	Yes		No	No	7.4.a-7.4.1.9, 7.109-7.120	8.15 to end

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TABLE B.3 (continued)

Definition	Introduction (Section 1)	Application, Enrollment Predetermination, Disenrollment (Section 2)	Child's Health Care Coverage (Section 3)	Child's Health (Section 4)	Time Frame for Sections 5-6	Access and Barriers to Care (Section 5)	Child's Use of Health Care Services (Section 6)	Parent Characteristics (Section 7)	Telephone Coverage (Section 8)
			Statuses V	Within the Estal	olished Enrollee Do	main			
Established Enrollee Who Has Been Enrolled 6 Months or More	Yes	Yes	2.1-2.9.1B, 2.20-2.44	Yes	Past 6 months	Yes	Yes	Yes	Yes
Established Enrollee Who Obtained Coverage at Birth	Yes	Yes	2.1-2.9.1B, 2.20-2.31	Yes	Past 6 months	Yes	Yes	Yes	Yes
Established Enrollee Enrolled for Fewer than 6 Months	Yes	Yes	2.1-2.9.1B, 2.20-2.44	Yes	While the (child) was on SCHIP	Yes	Yes	Yes	Yes
Established Enrollee Who Has Been Disenrolled 6 Months but Fewer than 12 Months	Yes	Yes	2.1-2.9.1B, 2.20-2.25, 2.60 to end	Yes	The 6 months before (child)'s last SCHIP coverage ended	Yes	Yes	Yes	Yes
Established Enrollee Who Has Been Disenrolled for 12 Months or More	Yes	Yes	2.1-2.51	Yes		No	No	7.4.a-7.4.1.9, 7.109-7.120	8.15 to end
			Statuses	Within the Rec	ent Disenrollee Don	nain			
Disenrollee Who Has Been Disenrolled for Fewer than 12 Months	Yes	Yes	2.1-2.9.1B, 2.20-2.25, 2.60 to end	Yes	The 6 months before (child)'s last SCHIP coverage ended	Yes	Yes	Yes	Yes
Disenrollee Who Has Been Currently Enrolled for 6 Months or More	Yes	Yes	2.1-2.9.1B, 2.20-2.25, 2.60 to end	Yes	Past 6 months	Yes	Yes	Yes	Yes
Disenrollee Who Has Been Disenrolled for 12 Months or More	Yes	Yes	2.1-2.51	Yes		No	No	7.4.a-7.4.1.9, 7.109-7.120	8.15 to end
Disenrollee Who Has Been Disenrolled for 12 Months or More—Recontacted and Completed Interview	Yes	Yes	2.1-2.5, 2.26, 2.60-2.65	Yes		No	No	7.4.a-7.4.1.9, 7.109-7.120, 7.4.5.1-7.4.5.6, 7.90-7.101	8.15 to end

TABLE B.3 (continued)

Definition	Introduction (Section 1)	Application, Enrollment Predetermination, Disenrollment (Section 2)	Child's Health Care Coverage (Section 3)	Child's Health (Section 4)	Time Frame for Sections 5-6	Access and Barriers to Care (Section 5)	Child's Use of Health Care Services (Section 6)	Parent Characteristics (Section 7)	Telephone Coverage (Section 8)
Statuses That Apply to All Domains									
No Information on Whether Sample Child Is Enrolled	Yes	Yes	2.1	Yes		No	No	7.4.a-7.4.1.9, 7.109-7.120	8.15 to end
Missing Date(s) to Determine Duration of Enrollment	Yes	Yes	2.1-2.51	Yes		No	No	7.4.a-7.4.1.9, 7.109-7.120	8.15 to end

disenrollee) and on the information provided during the interview about the child's start and end dates for coverage. In addition, the wording of questions varied, depending on responses to prior questions, most notably, the dates of coverage. For example, several questions about children's service use and other topics were anchored to a specific time frame that varied both by the children's enrollment domain and the self-reported dates of enrollment. For instance, in the case of a recent enrollee who reported a start date consistent with the sample frame drawn from state administrative data, the specified time frame was the 6 months prior to entry in SCHIP (or Medicaid, in the case of the Medicaid sample); whereas, in the case of an established enrollee who confirmed having been covered for at least 6 months, the specified time frame was the most recent 6 months during which the child had been covered by the program.

C. SURVEY MANAGEMENT

1. Training

MPR conducted all the telephone interviewing from its Columbia, Maryland, telephone center. One hundred and seventy-nine interviewers worked on and completed interviews on the project. Thirty-one percent of the interviewers conducted interviews in both Spanish and English.

Newly hired interviewers first received a 12-hour general training to acquire the knowledge and skills necessary to collect accurate and complete data using computer-assisted telephone interviewing (CATI). MPR telephone center staff conducted general training that covered the concept of samples, the importance of reaching the correct respondent, confidentiality, listening, understanding bias and neutral probing, persuasion, recording responses carefully and completely, and learning standardized recording of calls or call attempts.

After general training, all interviewers participated in a 16-hour, two-part, project-specific training session. The session was conducted by MPR project staff and telephone center staff. To

ensure that all interviewers received the same training, a series of overheads and a training protocol were developed and used for all training sessions. The objective of the first part of the project-specific training was to ensure that the interviewers had a general understanding of the project. In this part of the training, interviewers were first introduced to the purpose of the study, the study's funding source, various data collection components, data collection methods, and planned use of the data. Interviewers then learned about the characteristics of SCHIP and Medicaid, the people who were covered by the programs, and the different strategies that states used to implement the programs. In addition, interviewers were informed about the state selection process for the survey, criteria for selecting enrollees and disenrollees, and how the sample would be released to the study.

The objective of the second part of the project-specific training was to ensure that interviewers became familiar with the survey instrument, and that they became confident about their ability to contact respondents and to administer the questionnaire. First, the trainers discussed the various sections of the survey and the topics covered in each section. Next, the discussion covered respondent characteristics and the contact information that would be available. Because the sample included three types of respondents (recent enrollees, established enrollees, and recent disenrollees) who would be responding to different sets of questions, depending on how long their children had been covered or not covered by SCHIP or Medicaid, the training covered three question-by-question reviews of the survey instrument. The first review involved a practice session of the questions asked of a respondent with a child who had been in the program for more than 6 months at the time of the interview (an established enrollee). This review was followed by two additional reviews: (1) a practice session interviewing a respondent with a recently enrolled child, and (2) a practice session interviewing a respondent with a recently disenrolled child. Role-playing was used to enable interviewers to practice contact procedures (including locating the correct respondent), as well as methods of persuasion and refusal avoidance. Interviewers practiced using the CATI instrument until the system and its navigation between screens became so familiar that they could spend all their time and attention listening, recording, and responding to respondents' concerns, without "technical" distractions.

In training, particular attention was paid to techniques designed to help respondents focus on their experiences with the program (SCHIP or Medicaid), and to help all sample members recall as accurately as possible the time period or periods during which their child had been covered by health insurance. Although the state-specific name of SCHIP (and Medicaid) was programmed into the instrument for each sample member, not all respondents were expected to recognize the program by that name. In the event that respondents did not recognize the state-specific program name, interviewers were trained to use the generic name of the program or any other possible name for the program used in the state. If the name of the health plan in which the child was enrolled was available, that name was used to help the respondent recognize the program. Since accurate recollection of the time period(s) during which the child was or was not covered by SCHIP, Medicaid, or other health insurance programs was so important for the survey, an additional set of confirmatory questions was administered. These questions, based on previous responses, were designed to ensure that the respondents remembered and reported time frames correctly. If the respondents could not confirm their responses, the program allowed the interviewer to record changes in the time frames reported by the respondents. The training emphasized how to deal with respondents who were hesitant about time frames and how the questions in the instrument could help respondents resolve those ambiguities.

After data collection started, each interviewer received an additional 5 hours of training that included debriefings on survey questions and responses that interviewers identified as being particularly challenging, as well as reviews of answer categories. There were also sessions

devoted to refusal-conversion training and to morale boosting. Interviewers who conducted interviews in Spanish received an additional 4-hour training and practice to become familiar with the Spanish version of the interview.

Field locators participated in a 2-hour telephone training session. This training was an abbreviated version of the telephone interviewer training that did not include training on the survey instrument. In addition, field locators received special training in methods of locating sample members in the field, how to introduce the study after they had contacted sample members in person, and how to connect sample members with a telephone interviewer in MPR's call center to complete the interview. Since every case selected for in-person locating had to have an equal chance of being completed, field locators were trained to attempt contacting a household at least two times on two different days (one of which had to be a weekend) at two different times of the day.

2. Monitoring

To ensure the highest possible quality of data collection, approximately five percent of the interviews were monitored by telephone supervisory staff. Special monitoring sessions were scheduled for interviewers who were new to the project and for interviewers with high refusal or low productivity rates. The monitoring system enabled supervisors to listen to interviews without either the interviewers or the respondents being aware that monitoring was occurring. (Both interviewers and respondents were informed that interviews might be monitored.) The monitoring system also enabled supervisors to view the interviewers' input screens to monitor the accuracy of recording of responses.

Monitoring concentrated on identifying such problems as inaccurate presentation of information about the study, errors in reading questions, biased probes, inappropriate use of feedback in responding to questions, inappropriately interrupting the respondent, and offering opinions about specific questions or about the survey as a whole. After each monitored interview, a supervisor reviewed the observations with the interviewer. Results of the monitoring were maintained electronically to evaluate interviewers' progress over time. If necessary, additional training was provided; if performance problems persisted, interviewers were removed from the project. Supervisors with Spanish-language capabilities monitored interviews conducted in Spanish.

3. Performance

Interviewers completed an average of 108 interviews. The number of completed interviews by interviewer varied considerably, with 19 percent of the interviewers completing more than 200 interviews, 20 percent of the interviewers completing between 100 and 200 interviews, and over 40 percent completing fewer than 50 interviews. Interviewers worked an average of 6.5 months on the project, with about 11 percent working fewer than 2 months and about 9 percent of the interviewers working on the survey for the duration of the study. Interviewers who conducted interviews in both Spanish and English completed about the same number of interviews in English as did interviewers who conducted interviews in English as did interviews, Spanish interviewers completed an average of 67 interviews in Spanish. The higher number of completed interviewers among the dual-language interviewers can be partially attributed to the fact that those interviewers generally remained longer on the project (an average of 7.7 months, compared with an average of 6.5 months for interviewers who interviewed in English only).

D. DATA COLLECTION METHODS

All interviews were completed using CATI. Because of the complexity of the survey instrument, we did not consider any other method of interviewing respondents. However, a

variety of methods were used to optimize our ability to contact sample members as quickly as possible, including prelocating of the sample, optimal scheduling of call attempts, using a sophisticated locating database, and field locating with cell phone interviewing.

1. Initial Locating and Advance Mailings

Information to be used to contact the families came from the state SCHIP and Medicaid management information systems (MISs). For most states, we were able to obtain the first and last name of the child in the program, the first and last name of a parent, and an address. In most instances, we also obtained telephone numbers and, for some states, the social security number of at least one parent. (Table B.4 provides an overview, by state, of the contact information obtained from the MISs.)

To ensure that the contact information was as current as possible, we sent contact information to a commercial search firm to match the contact information obtained from the states with address, telephone, and name information in the firm's databases. This initial locating procedure resulted in additional telephone numbers and revised telephone numbers, as well as confirmation that the telephone numbers we had obtained from the states matched the telephone numbers in the commercial databases. The initial locating also yielded updated addresses of sample members. In states such as Texas, we initially obtained at least one telephone number for each sample member from the state's MIS, and the percentage of confirmed, new, or changed telephone numbers as a result of prelocating was also quite high (54 percent). In New Jersey, where no telephone numbers were available from the state, the initial locating resulted in obtaining telephone numbers for 37 percent of the sample. However, in the California Medicaid sample, where no telephone numbers were provided by the state, only 21 percent of the sample's telephone numbers were obtained as a result of initial locating.

TABLE B.4

	Cases with Recent Social Security Numbers Available	Cases with Any Telephone Number in State Files	Cases with Telephone Numbers Verified Through Initial Locating Efforts
		SCHIP	
California	60	98	29
Colorado	50	97	38
Florida	100	56	25
Illinois	70	85	39
Louisiana	100	77	50
Missouri	0	38	35
New York	0	85	29
New Jersey	0	0	37
North Carolina	0	30	36
Texas	0	100	54
		Medicaid	
California	0	0	21
North Carolina	0	28	29

CHARACTERISTICS OF CONTACT INFORMATION AND INITIAL LOCATING RESULTS (Percentages)

In addition to initial locating, we sent all sample members an advance letter about 1 week before interviewing started. The letter introduced the study, encouraged participation, and included a toll-free number that people could use to call the telephone interviewing center. The letters were mailed with "Address Service Requested" so that undelivered letters would be returned with forwarding addresses, when available. A sample letter is attached as Exhibit 1.

2. Sample Release Strategies

As described in Section A.4, we released sample in one round in two states, in two rounds in six states, and in three rounds in two states. Table B.5 summarizes, for each state, the releases, by the month of the sample round, as well as the month that the release was made available for interviewing.

3. The CATI System

Blaise software, developed by Statistics Netherlands, was used to collect the interview data. Blaise is a powerful survey processing tool that has been used in a variety of household surveys with cross-sectional as well as longitudinal designs. Blaise is designed for the Windows operating system, has a powerful but simple questionnaire definition language, and uses clear screen layouts that can be customized if necessary. The system allows interviewers to move backward to previously answered questions with little effort, add a note to a response, and switch between the English and Spanish versions of the questionnaire.

4. Call Scheduler

The scheduling of telephone calls was controlled by the Blaise CATI scheduler. The scheduling program randomly assigned telephone numbers to interviewers who were signed in to the system, based on a calling algorithm. The algorithm tracked the number and types of calls in time slots that covered different parts of the day and different days of the week. After a time slot

TABLE B.5

	January 2002 Extract	March 2002 Extract	May 2002 Extract
		SCHIP	
California		September	
Colorado	March	July	September
Florida	May	June	
Illinois	April	July	
Louisiana	March	August	September
Missouri	April	September	
New York	June	July	
New Jersey	May	July	
North Carolina	April	October	
Texas	May		
		Medicaid	
California		September	
North Carolina	April	October	

SAMPLE RELEASE DATES, BY FILE EXTRACT DATA AND STATE

for a particular case had reached the maximum number of calls, that time slot was no longer available for the case. If the maximum number of calls was reached for all time slots, and if the sample member had not been reached by phone, the case was flagged for additional actions. Calls contacting an answering machine were coded separately; case interviewers would leave a scripted message after a maximum number of these calls was reached. Firm appointments were scheduled within a 20-minute window of the appointment, while other, more tentative appointments were scheduled within a 60-minute time window. The system was also capable of overruling the scheduling program to prioritize cases based on other criteria, such as cases belonging to a specific state or specific sampling group. In addition, cases could be flagged so that they could be accessed only by interviewers specially trained to handle the circumstances of the case. For example, some cases were assigned to Spanish-speaking interviewers or to interviewers specially trained to handle reluctant participants. Interviewers used a standard set of disposition codes to code all call attempts. Information from the call attempts was included in daily reports that tracked the status of cases, completion rates, and interviewer productivity.

5. Telephone Locating

If a case did not have a telephone number or, as a result of call attempts, was determined to have a wrong or nonworking telephone number, it was coded as eligible for additional centralized locating effort and was automatically removed from the call scheduler. In total, about 46 percent of all cases became eligible for centralized locating, with a substantially larger share in the Medicaid sample (63 percent) than in the SCHIP sample (42 percent). The centralized locating was assisted by a computerized tracking system that, for each case, stored and tracked the dates and types of locating attempts and all newly acquired contact information. Information about mailings to sample members and whether the mailing had been returned with or without forwarding addresses was stored and tracked in the same system. The system was

able to prioritize the locating of cases by state, date of entry into the system, and type of locating effort completed on the case. A series of daily reports was produced from this system that recorded the number of outstanding and completed cases in locating.

6. Closeout

The design of the study required that a case that could not be reached by centralized locating efforts be classified as a "closeout" case and made potentially eligible for in-person locating. Closeout cases included those for which we were unable to obtain working telephone numbers and those for which were unable get a person in the household to respond to our call attempts. We developed a computer algorithm to identify those cases based on the disposition codes of the call attempts, whether a case had been in locating, and the elapsed time since the case had been released. Before finalizing closeout, we reviewed the interviewers' comments on all call and locating attempts of the cases identified by the algorithm to ensure that records had been coded correctly, and that the appropriate locating efforts had been completed. Overall, 22 percent of the released SCHIP cases and 42 percent of the Medicaid cases were classified as closeout cases. Rates of closeout were similar across the 10 states in the SCHIP sample; in the Medicaid sample, they were somewhat higher for California than for North Carolina.

In the unclustered sample, all cases identified for closeout were terminated from the study. In the clustered sample, however, some or all of these cases were classified for in-person locating, depending on the state (Table B.6).¹¹

¹¹ In states in which only some of the closeout cases had to be released, we chose a random sample. In New Jersey, where we adopted only an unclustered sample design, we randomly selected from the closeout cases 50 percent of the recent and established enrollees for in-person contacting, as well as all of the disenrollees.

TABLE B.6

	Recent Enrollees	Established Enrollees	Recent Disenrollees			
SCHIP						
California	50	50	50			
Colorado	100	100	100			
Florida	50	50	100			
Illinois	100	100	100			
Louisiana	100	100	100			
Missouri	100	100	100			
New York	50	50	50			
North Carolina	50	50	75 ^a			
Texas	50	50	50			
Medicaid						
California	50	50	50			
North Carolina	50	50	75			

CLOSEOUT CASES SELECTED FOR IN-PERSON CONTACTING IN THE CLUSTERED SAMPLE (Approximate Percentages)

Note: In New Jersey, 50 percent of the closed out enrollee samples and 100 percent of the disenrollee sample were selected for in-person contacting.

^a50 percent January file and 100 percent March file.

7. In-Person Locating

We hired and trained 43 field locators to locate and contact sample members who had been classified for in-person locating. The number of locaters used in a given state depended on the state's size and on the distribution and number of sample members released for in-person locating. Once contacted, sample members had the option of completing the interview with a telephone interviewer at MPR's call center by dialing a toll-free number using their own telephone (if they had one) or by using the field locator's cell phone. In total, about 30 percent of the cases released for locating were successfully interviewed, which constituted about 5 percent of all completed cases in the study. For the vast majority of the cases not interviewed, the field locators were not able to locate the sample members.

8. Refusal Conversions

Roughly 10 percent of the sample refused to participate in the survey when initially contacted for interview. (Over 80 percent of these households were English-speaking.) Specially trained interviewers were assigned to attempt to "convert" these cases, and to complete the interview. The interviewers were successful about half the time. Interestingly, they experienced somewhat greater success with households that spoke Spanish (61 percent) than spoke English (46 percent).

9. Follow-Up Interview for Children Disenrolled for More than 12 Months

At the start of the survey, we chose to conduct an abbreviated version of the questionnaire with respondents who reported that their children were disenrolled from SCHIP or Medicaid for more than 12 months. However, because this group proved to be far larger than expected (roughly one-third of the total disenrollee sample), we decided to re-contact these respondents, and to ask them a series of new, additional questions. (The additional questions asked about the

reasons that the respondent's child was disenrolled from SCHIP, the child's insurance coverage just after leaving the program, household composition, and income.) During a 2-week period in March 2003, we were able to contact and interview 615 of the 1,334 cases in this group.

E. SAMPLING WEIGHTS

As described previously, the samples were selected using complex multistage and multiphase procedures. For unbiased survey estimates, the sampling weights have to reflect the various stages of sampling. Our basic approach to calculating the sampling weights was to first compute design-specific sampling weights for each design (clustered and unclustered) for each sample round and state. These within-sample round, within-design sampling weights were calculated using the product of the sampling weight of the household multiplied by the conditional sampling weight of the child, given that his or her household was selected.¹² We then combined the design-specific sample weights across rounds to create a single base sampling weight for each sampled child for each design for each state.¹³ The two sets of weights (one for the unclustered sample and one for the clustered sample) were poststratified to the same average monthly enrollment population (computed from enrollment counts for data collection round enrollment files) for each domain in each state.

We then conducted a nonresponse analysis to assess the response patterns for the samples. We used data available from the sampling frame, such as the age and race of the sampled child, and county-level information from the Area Resource File (ARF), such as the percentage of children living in households with family incomes under the poverty level, the percentage of

¹² The sampling weight of the household is the inverse of the probability of selection of the household. The conditional sampling weight of the child is the inverse of the probability of selection of the child, given that his or her household was selected.

¹³ Recall that, for California and for Texas, only one round was used, and that, for New Jersey, only the unclustered design was used.

households with female head of the household, and a 10-level scale denoting urbanicity (Bureau of Health Professions 2003). Using the results of the nonresponse analysis, we developed logistic regression models to compute response propensity scores to compensate for nonresponse. The nonresponse-adjusted weight was the product of the combined-round base weight and the inverse of the response propensity score. We developed response propensity models separately for each sample (clustered and unclustered), for each domain (recent enrollees, established enrollees, and recent disenrollees), for each state, and for each study population (SCHIP and Medicaid). Finally, we used the estimated population counts in each state and each domain to poststratify within each state based on enrollment status at the time of sampling of the child. The poststratification adjustment ensured that the nonresponse-adjusted base weights summed to the estimated enrollment population for that domain in each state.

The following sections describe more fully the computations of the sampling weights. The initial weights were computed in two stages: (1) the round-specific, design-specific weights; and (2) the combined-round, design-specific weights (the base weights). We then used the base weights to compute nonresponse adjustments for each design and each domain for each state. Finally, the nonresponse-adjusted base weights for each design were combined and poststratified to form the final analysis weights.

1. Initial (Round-Specific, Design-Specific) Weights

For California and Texas (which were sampled in a single round) and for the first sample round for the other states, initial weights for the clustered samples were computed from the inverse of the product of the selection probability for the:

- Cluster
- Household within the cluster

- Domain type
- Child

If the household included two or more children, the children could have been either in the same domain (for example, two children in a household both might have been recent enrollees) or in two or more domains (for example, one child might have been a recent enrollee and a second child might have been an established enrollee).¹⁴ For the unclustered samples, the initial weights were computed from the inverse of the product of the selection probability for the:

- Household
- Domain type
- Child

For the second and third sample rounds, the initial weights also included a factor representing the probability that a household had not been selected in the prior round(s).

Because we expected variation in the eligibility and response rates in each state, we selected a reserve sample for use in ensuring an adequate number of complete interviews. The initial weights also included a subsampling rate to reflect the proportion of the full sample (the primary and reserve samples) that was used in the survey. In some states, subsamples of nontelephone households in clustered samples were assigned to field staff for in-person locating. The initial weights accounted for this subsampling. Basically, the initial weight for each round was the inverse of the product of three to six sampling probabilities and subsampling rates. These initial

¹⁴ In California and North Carolina, some children were eligible for the samples as new enrollees in SCHIP and recent disenrollees in Medicaid. Children with this type of concurrent valid classification were accounted for in the sampling design.

weights were then poststratified by sample domain (recent enrollee, established enrollee, and recent disenrollee) to the enrollment population size in the file extract.

2. Base (Combined-Round, Design-Specific) Weights

For the eight states with two or three sample rounds, the initial weights summed to the enrollment population at the time of the extract. For the recent enrollees and recent disenrollees, the enrollment populations for extracts were mutually exclusive (that is, the children could not be classified as recent enrollees in both the January and March file extracts); similarly, the same children could not be recent disenrollees in both the January and March file extracts. To compute design-specific weights for these domains that spanned all sample rounds, we combined the sample weights from the two (or three) sample rounds by multiplying the initial weight by a compositing factor based on the proportion of the sample from all sampling rounds that was used in a specific sample round. That is, if the January sample round included 180 recent enrollees and the March sample round were multiplied by 0.60 (180/300), and the weights for recent enrollees from the March sample round were multiplied by 0.40 (120/300). After the combined round weight was computed, we poststratified the weight to the average enrollment in that domain across the sample rounds to form the base weight.

For the established enrollees, a child in the January extract file might or might not still be an established enrollee in the March extract file. Therefore, for the six states with two sample rounds, we had to account for the enrollment populations, which depended on the extract file in which the child was classified as an established enrollee. In particular, a child could be classified as an established enrollee:

• In January but not in March

- In both January and March
- In March but not in January

The round-specific weights based on the January extract provided unbiased estimates of the established enrollees who were in the January extract file but not in the March one, and of established enrollees who were in both months' extract files. The round-specific weights based on the March extract provided unbiased estimates of the established enrollees who were in both the January and March extract files, and of those who were in the March extract file but not in the March extract file.

To combine these round-specific weights, we tabulated the counts in each extract to determine the exact enrollment counts for each of the three populations (established enrollees in January only, in both January and in March, and in March only). We then poststratified the weighted counts for each sample component to the exact enrollment counts. We scaled the initial weights for the cases in both the January extract and the March extract, using the proportion of the sample in the respective January or March samples. (The initial weights for cases in only the January extract and for those in only the March extract were not changed.) These combined-round initial weights summed to the number of children who were established enrollees in either or both the January and March extract files. In order to compute the base weights for the established enrollees, these weights were then rescaled to the average of the enrollment in the two extracts to achieve comparability with the other states.

The base weights were computed for each design (the clustered and unclustered sample designs) for the eight states with two or three sample rounds. For Colorado and Louisiana, three sample rounds (and, therefore, three extract files) were used. A child could be an established enrollee (1) in January, March, and May; (2) in January only; (3) in January and March but not in

May; (4) in March only; (5) in March and May but not in January; and (6) in May only.¹⁵ We used procedures analogous to those used for the states with only two sample rounds.

3. Nonresponse Adjustments

Nonresponse occurs in all surveys. The standard procedure to account for nonresponse is to adjust the sampling weights, thereby minimizing the potential for nonresponse bias. Weights for respondents who are similar to sample members who do not respond are adjusted to reduce the potential for nonresponse bias. We initially conducted an analysis to identify the factors that might have been related to nonresponse. Because the extract files from the states contained limited data (age and, sometimes, race) for identifying similarities between respondents and nonrespondents, we accessed county-level data from the ARF to supplement the state-provided data. The ARF contains county-level counts and other data compiled from the Census Bureau, the Bureau of Economic Analysis, the U.S Department of Agriculture, the National Center for Health Statistics, and other sources. The data obtained from the ARF included:

- Rural/urban continuum code (10 level code)
- Population percentage for white, black/African American, Asian, American Indian/ Alaskan Native, and other
- Percentage Hispanic or Latino population
- Percentage of people 25 or older with less than 9 years of school
- Percentage of people 25 or older with a high school diploma or more
- Percentage of people 25 or older with 4 or more years of college
- Median family income
- Median household income

¹⁵ Children had to be enrolled for 5 consecutive months. Thus, by definition, a child could not be an established enrollee in January and in May but not in March.

- Percentage of families below the poverty level
- Percentage of people below the poverty level
- Percentage of families with a female head
- Percentage of people in poverty
- Percentage of people ages 0 to 17 in poverty
- Percentage of related children ages 5 to 17 in poverty

These variables were selected as measures of racial and ethnic composition and as measures related to the extent of poverty in the counties in which the sample members resided. We viewed these variables as proxy measures for unobservable factors associated with response, although the variables themselves did not imply any direct relationship with response patterns.

For the response models, we formed categories based on the characteristics of each sample to ensure that there were adequate sample counts in each category, and that the categories were somewhat logical breaks in the distribution of continuous variables. We used stepwise logistic modeling to identify the variables (including both the categorized variables and the stateprovided data on the child's age and race) that best explained the response pattern for each sample. Since the states and the enrollment population differed substantially, no single set of variables was consistently the best one to explain a response pattern. In general, however, response was associated with the degree of urbanicity, with lower response in some urban areas and higher response in rural areas. Other community factors that helped explain the response pattern were ethnicity and race and the percentage of children in poverty.

These response propensity models were developed separately for each domain, for each sample type (clustered and unclustered), and for each state. Separate models were also developed for the Medicaid samples, again for each domain, sample type (clustered and unclustered), and state. More than 80 response propensity models were developed, with 69 developed for the SCHIP samples and 12 developed for the Medicaid samples.

4. Final Analysis Weights

The clustered and unclustered samples were designed so that children from telephone households would have nearly equal probabilities of selection for either design. Because of the possible similarity of responses among sample members in the same cluster (that is, the possibility of a positive intracluster correlation), the sampling variance of estimates computed using the clustered sample was expected to be somewhat larger than the sampling variance of the same estimates computed using the unclustered sample. To develop the combined-design, nonresponse-adjusted sample weight, we used the ratio of the sampling variances computed for selected outcome-related variables as a factor for computing a composite weight factor for the children in telephone households.

Specifically, to compute a survey estimate, Est(Y), combined across the two samples, separate estimates can be computed for each sample and combined using the equation:

(4)
$$Est(Y) = \lambda Y(Clustered) + (1 - \lambda) Y(Unclustered),$$

where Y(Clustered) is the survey estimate from the clustered sample, Y(Unclustered) is the survey estimate from the unclustered sample, and λ (lambda) is an arbitrary constant between 0 and 1. For the sampling variance, V(Y), the estimate is computed using the equation:

(5)
$$V(Y) = \lambda^2 V(Y(Clustered)) + (1 - \lambda)^2 V(Y(Unclustered)),$$

where V(Y(Clustered)) is the sampling variance for the estimate from the clustered sample and V(Y(Unclustered)) is the sampling variance for the estimate from the unclustered sample. Any value of lambda between 0 and 1 will result in an unbiased estimate of the survey estimate, but

not necessarily in an estimate with the minimum sampling variance. A lambda value producing a sampling variance at its minimum value results in the shortest confidence interval and, by implication, the most accurate point estimate.

A value of lambda can be computed in an optimal (minimum variance) sense as:

(6) $\lambda = V(Y(Unclustered)) / [V(Y(Clustered)) + V(Y(Unclustered))].$

In this case, the minimum variance is:

(7) V(Y) = [V(Y(Clustered)) * V(Y(Unclustered))] / [V(Y(Clustered)) + V(Y(Unclustered))].

To compute a combined-sample estimate with minimum variance, survey estimates are derived by first computing the estimates for each sample component, computing a value of lambda for each pair of estimates, and then combining the point and variance estimates. Although producing the minimum variance estimates, the process is computer-intensive and results in some inconsistencies among estimates for percentages and proportions because of differing values among levels of a categorical variable.

For this study, we identified a pool of variables of interest for each domain and computed variance estimates for the clustered and unclustered samples. We used these sampling variances to compute values of lambda and used the median values of the lambdas to develop a single value for computing the combined-sample weights. The lambda values differed for each domain and state but were generally around 0.45, which indicated slightly larger sampling variances in the clustered sample (as expected). The combined weight for each sample member in the clustered sample was computed as:

(8)
$$WT(Combined) = \lambda WT(Clustered Nonresponse-Adjusted Weight),$$

and for sample members in the unclustered sample, by:

(9) $WT(Combined) = (1 - \lambda) WT(Unclustered Nonresponse-Adjusted Weight).$

Children from nontelephone households were eligible for interview only when sampled for the clustered design, so their nonresponse-adjusted weight was used as their combined sample weight. This combined weight was then poststratified again to the domain-specific monthly enrollment count for each state.

5. Sampling Variances

The sampling variance of an estimate derived from survey data for a statistic (such as a total, a mean or proportion, or a regression coefficient) is a measure of the random variation among estimates of the same statistic computed over repeated implementation of the same sample design with the same sample size on the same population. The sampling variance is a function of the constituent variables, the form of the statistic, and the nature of the sampling design. The two general forms of statistics are linear combinations of the survey data (for example, a total) and nonlinear combinations of the survey data. Nonlinear combinations include the ratio of two estimates (for example, a mean or a proportion in which both the numerator and the denominator are estimated) and more complex combinations, such as regression coefficients. For linear estimates with simple sample designs (such as stratified or unstratified simple random samples) or with complex designs (such as stratified multistage designs), explicit equations are available to compute the sampling variance. For the more common nonlinear estimates with simple or complex sample designs, explicit equations are not generally available, and various approximations or computational algorithms are used to provide an essentially unbiased estimate of the sampling variance. A Web site that reviews software for variance estimation from complex surveys, created with the encouragement of the Section on Survey Research Methods of

the American Statistical Association, is now available at http://www.fas.harvard.edu/~stats/ survey-soft/survey-soft.html.

For this study, we used procedures based on the Taylor series linearization of the nonlinear estimator, using explicit sampling variance equations. This procedure is based on classic statistical methods in which a nonlinear statistic can be approximated by a linear combination of the components within the statistic. The accuracy of the approximation is dependent on the sample size and the complexity of the statistic. For most commonly used nonlinear statistics (such as ratios, means, proportions, and regression coefficients), the linearized form has been developed and has good statistical properties under large sample approximations. Once a linearized form of an estimate is developed, the explicit equations for linear estimates can be used to estimate the sampling variance. Because the explicit equations can be used, the sampling variance can be estimated using many of the features of the sampling design (for example, finite population corrections, stratification, multiple stages of selection, and unequal selection rates within strata). This is the basic variance estimation procedure used in SUDAAN, SAS, and Stata to accommodate many simple and complex sampling designs. (For more details on variance estimation using the Taylor series linearization procedure, see Wolter 1985, and, more recently, LaVange et al. 1996.)

To estimate the sampling variance, we defined a stratification variable and a variable to denote the first-stage sampling unit. The stratification variable basically identified for the survey data analysis software the sampled state and whether the sample was from the clustered or unclustered sample. The first-stage sampling unit variable identified the sample cluster in the clustered sample and the individual sampled child in the unclustered sample.

F. RESPONSE RATES

The response rate is a measure of potential for bias in the survey results due to nonresponse. For designs like ours, weighted response rates are preferred. Weighted response rates integrated the differential sampling rates and subsampling that we used in the survey.¹⁶ Our data collection approach was designed to achieve good response rates for each state by each of the three domains. The sample design incorporated a clustered sample with in-person field locating for children in nontelephone households and an unclustered sample with children in nontelephone households and an unclustered sample with children in nontelephone account in order to validly represent the response.

We developed two response rates for assessing response in our study. The first response rate incorporated an average of the response rates for the clustered and unclustered surveys. This response rate is:

(10) RR = 0.50 RR(Clustered Sample) + 0.50 RR(Unclustered Sample),

where RR(Clustered Sample) is the weighted response rate for the clustered sample and RR(Unclustered Sample) is the weighted response rate for the unclustered sample. The response rate for each sample design is computed using weighted totals as follows:

(11) RR = (Completes + Ineligible) / (Completes + Ineligible + Nonrespondents).

These response rates are shown in Table B.7.

¹⁶ Unweighted response rates are designed for simple list frame surveys or telephone surveys. They are discussed in reports by the Council of American Survey Research Organizations (1982) and the American Association for Public Opinion Research (2000). The reports provide useful guidelines for computing response rates.

TABLE B.7

State	Sample/Domain	Full Sample (Count)	Eligible Sample (Count)	Response (Count)	Complete (Count)	Nontelephone Households ^a (Count)	Design- Specific, Weighted Rate (Percent)	State Rate, Average Weighted Rate (Percent)
CA	Unclustered							
CA	Recent Enrollee	402	343	305	303	59	88.9	
	Established Enrollee	400	342	283	279	58	82.7	
	Recent Disenrollee	586	491	362	346	95	73.4	
	Clustered							
	Recent Enrollee	407	379	303	296	28	75.9	82.4
	Established Enrollee	393	364	286	282	29	75.6	79.2
	Recent Disenrollee	425	384	267	260	41	64.8	69.1
CO	Unclustered							
	Recent Enrollee	455	394	334	328	61	84.7	
	Established Enrollee	461	384	324	318	77	84.1	
	Recent Disenrollee	445	344	285	265	101	82.9	
	Clustered							
	Recent Enrollee	452	452	324	316	0	71.3	78.0
	Established Enrollee	466	466	309	300	0	66.9	75.5
	Recent Disenrollee	466	466	353	319	0	76.6	79.7
FL	Unclustered							
	Recent Enrollee	457	374	321	317	83	86.0	
	Established Enrollee	440	357	305	303	83	85.2	
	Recent Disenrollee	551	442	320	301	109	72.3	
	Clustered							
	Recent Enrollee	405	363	291	284	42	77.0	81.5
	Established Enrollee	418	374	296	292	44	74.7	80.0
	Recent Disenrollee	458	458	306	269	0	63.9	68.1
IL	Unclustered							
	Recent Enrollee	524	413	295	291	111	72.6	
	Established Enrollee	527	432	319	305	95	75.1	
	Recent Disenrollee	505	389	272	251	116	70.4	
	Clustered							
	Recent Enrollee	447	447	292	283	0	65.3	69.0
	Established Enrollee	418	418	282	267	0	67.5	71.3
	Recent Disenrollee	504	504	301	280	0	60.1	65.3

DESIGN-SPECIFIC SAMPLE COUNTS AND RESPONSE RATES: SCHIP SAMPLE

TABLE B.7 (continued)

State	Sample/Domain	Full Sample (Count)	Eligible Sample (Count)	Response (Count)	Complete (Count)	Nontelephone Households ^a (Count)	Design- Specific, Weighted Rate (Percent)	State Rate, Average Weighted Rate (Percent)
LA	Unclustered	, ,	× /	,	× /	, ,		
	Recent Enrollee	432	345	289	282	87	83.7	
	Established Enrollee	429	343	291	278	86	83.9	
	Recent Disenrollee	501	400	308	279	101	76.8	
	Clustered							
	Recent Enrollee	403	403	317	309	0	78.7	81.2
	Established Enrollee	399	399	311	298	0	77.7	80.8
	Recent Disenrollee	453	453	330	286	0	72.3	74.6
МО	Unclustered							
	Recent Enrollee	507	390	273	267	117	69.9	
	Established Enrollee	508	373	271	267	135	73.8	
	Recent Disenrollee	551	415	265	251	136	64.2	
	Clustered							
	Recent Enrollee	433	433	292	283	0	67.6	68.8
	Established Enrollee	407	407	301	295	0	74.4	74.1
	Recent Disenrollee	483	483	307	282	0	63.7	64.0
NJ	Unclustered							
	Recent Enrollee	911	795	597	583	116	71.3	71.3
	Established Enrollee	881	782	581	569	99	70.7	70.7
	Recent Disenrollee	998	998	592	536	0	58.3	58.3
NY	Unclustered							
	Recent Enrollee	542	458	327	321	84	72.1	
	Established Enrollee	532	446	322	317	86	71.7	
	Recent Disenrollee	533	417	318	295	116	76.3	
	Clustered							
	Recent Enrollee	409	373	266	260	36	68.9	70.5
	Established Enrollee	416	372	271	259	44	69.5	70.6
	Recent Disenrollee	432	388	264	253	44	64.9	70.6
NC	Unclustered							
	Recent Enrollee	518	377	284	280	141	75.4	
	Established Enrollee	522	403	322	317	119	82.5	
	Recent Disenrollee	631	430	349	332	201	80.6	

TABLE B.7 (continued)

State	Sample/Domain	Full Sample (Count)	Eligible Sample (Count)	Response (Count)	Complete (Count)	Nontelephone Households ^a (Count)	Design- Specific, Weighted Rate (Percent)	State Rate, Average Weighted Rate (Percent)
	Clustered							
	Recent Enrollee	398	348	265	262	50	68.9	72.2
	Established Enrollee	400	349	288	286	51	76.3	79.4
	Recent Disenrollee	416	372	241	230	44	58.3	69.5
TX	Unclustered							
	Recent Enrollee	410	317	259	256	93	81.7	
	Established Enrollee	386	300	266	263	86	88.5	
	Recent Disenrollee	565	448	306	293	117	68.5	
	Clustered							
	Recent Enrollee	454	402	339	336	52	79.9	80.8
	Established Enrollee	447	401	333	332	46	79.0	83.8
	Recent Disenrollee	451	385	296	284	66	72.3	70.4

^aThe count of nontelephone households includes the nontelephone households in the clustered samples that were not released for in-person field locating.

The second response rate is derived by combining the response rates achieved for children in telephone and nontelephone households weighted by the estimated incidence of telephone and nontelephone households in the population. Under this approach, the weighted response rate, *WRR*, is:

where P(Telephone Households) is the survey-based weighted estimate of the proportion of telephone households among all households in the sample, RR(Telephone Households) is the response rate for telephone households, and RR(Nontelephone Households) is the response rate for nontelephone households. Again, the response rate for telephone and nontelephone households is computed using weighted totals as follows:

(13) RR = (Completes + Ineligible) / (Completes + Ineligible + Nonrespondents).

These response rates are shown in Table B.8.

The average weighted response rates ranged in size from 83.8 percent for established enrollees in Texas to 58.3 percent for recent disenrollees in New Jersey. The majority of the response rates were in the range of 75 to 80 percent. For the algorithm for the weighted response rate, *WRR*, rates were generally slightly lower and ranged from 78.6 percent for established enrollees in Texas to 58.3 percent for recent disenrollees in New Jersey. These response rates were generally in the range of 65 to 75 percent. The response rates were higher for the recent and established enrollees and were lower for recent disenrollees.

For comparative analysis between the Medicaid and SCHIP samples in California and North Carolina, the sample counts and response rates are summarized in Tables B.9 and B.10. We

TABLE B.8

State	Domain	Full Sample (Count)	Eligible Sample (Count)	Complete Interviews (Count)	Average Weighted Rate (Percent)	Response in Telephone Households (Percent)	Proportion of Nontelephone Households (Percent)	Response in Nontelephone Households (Percent)	Weighted Rate (Percent)
CA	Recent Enrollee	809	722	599	82.4	86.5	14.0	22.3	77.5
-	Established Enrollee	793	706	561	79.2	82.3	13.9	34.6	75.7
	Recent Disenrollee	1,011	875	606	69.1	74.4	20.0	31.3	65.7
СО	Recent Enrollee	907	846	644	78.0	83.4	15.3	19.7	73.6
	Established Enrollee	927	850	618	75.5	83.9	20.8	13.5	69.2
	Recent Disenrollee	911	810	584	79.7	86.0	22.3	33.3	74.3
FL	Recent Enrollee	862	737	601	81.5	85.9	19.8	45.5	77.9
	Established Enrollee	858	?731	595	80.0	85.1	19.1	33.0	75.2
	Recent Disenrollee	1,009	900	570	68.1	75.3	24.2	27.5	63.7
IL	Recent Enrollee	971	860	574	69.0	73.4	22.0	35.0	64.9
	Established Enrollee	945	850	572	71.3	76.7	19.4	22.8	66.2
	Recent Disenrollee	1,009	893	531	65.3	68.7	22.7	35.3	61.1
LA	Recent Enrollee	835	748	591	81.2	86.9	20.8	36.7	76.5
	Established Enrollee	828	742	576	80.8	84.9	21.4	50.0	77.5
	Recent Disenrollee	954	853	565	74.6	79.8	22.9	40.8	70.8
MO	Recent Enrollee	940	823	550	68.8	73.7	44.0	59.7	67.6
	Established Enrollee	915	780	562	74.1	78.8	27.7	49.8	70.8
	Recent Disenrollee	1,034	898	533	64.0	71.5	30.0	33.4	60.1
NJ	Recent Enrollee	911	795	583	71.3	80.4	22.9	40.5	71.3
	Established Enrollee	881	782	569	70.7	80.6	24.2	39.8	70.7
	Recent Disenrollee	998	998	536	58.3	69.8	24.8	23.1	58.3
NY	Recent Enrollee	951	831	581	70.5	75.6	19.5	34.5	67.6
	Established Enrollee	948	818	576	70.6	75.4	17.5	23.1	66.2

STATE-LEVEL SCHIP COUNTS AND RESPONSE RATES

TABLE B.8 (continued)

State	Domain	Full Sample (Count)	Eligible Sample (Count)	Complete Interviews (Count)	Average Weighted Rate (Percent)	Response in Telephone Households (Percent)	Proportion of Nontelephone Households (Percent)	Response in Nontelephone Households (Percent)	Weighted Rate (Percent)
	Recent Disenrollee	965	805	548	70.6	76.0	22.6	29.3	65.4
NC	Recent Enrollee Established Enrollee Recent Disenrollee	916 922	725 752 802	542 603 562	72.2 79.4	81.1 87.2 80.8	29.0 26.1 34.7	28.7 36.8 22.4	65.9 74.0
		1,047			69.5				60.6
ΤX	Recent Enrollee Established Enrollee	864 833	719 701	592 595	80.8 83.8	85.9 88.6	24.6 21.7	50.8 42.6	77.3 78.6
	Recent Disenrollee	1,016	833	577	70.4	75.9	24.7	43.2	67.8

TABLE B.9

State/ Program	Sample Design/ Domain	Full Sample (Count)	Eligible Sample (Count)	Response (Count)	Complete (Count)	Nontelephone Households ^a (Count)	Design- Specific, Weighted Rate (Percent)	State Rate, Average Weighted Rate (Percent)
	TT 1 / 1							
CA	Unclustered	402	250	212	211	4.4	07.4	
SCHIP	Recent Enrollee	402	358	313	311	44	87.4	
	Established Enrollee	400	359	292	288	41	81.3	
	Recent Disenrollee	586	515	369	353	71	71.6	
	Clustered							
	Recent Enrollee	407	407	304	297	0	74.7	81.0
	Established Enrollee	393	393	293	287	0	74.6	77.9
	Recent Disenrollee	425	425	271	264	0	63.4	67.5
CA	Unclustered							
	Recent Enrollee	599	401	191	183	198	47.4	
1110010010	Established Enrollee	600	418	209	202	182	50.0	
	Recent Disenrollee	600	385	198	196	215	51.2	
	Clustered							
	Recent Enrollee	602	602	237	231	0	39.4	43.4
	Established Enrollee	599	599	197	191	0	32.9	41.4
	Recent Disenrollee	600	600	213	208	0	35.5	43.4
NC	Unclustered							
SCHIP	Recent Enrollee	518	408	294	289	110	72.1	
SCIIIF	Established Enrollee	522	408 424	294 330	324	98	72.1	
	Recent Disenrollee	631	424 509	330	324	122	79.9	
	Recent Diselionee	031	309	370	330	122	11.5	
	Clustered							
	Recent Enrollee	398	398	268	265	0	67.4	69.8
	Established Enrollee	400	400	293	291	0	73.3	76.6
	Recent Disenrollee	416	416	246	235	0	59.2	68.2

DESIGN-SPECIFIC SAMPLE COUNTER AND REFERENCE RATE FOR THE SCHIP—MEDICAID CONFIRMATION ANALYSIS

TABLE B.9 (continued)

State/ Program	Sample Design/ Domain	Full Sample (Count)	Eligible Sample (Count)	Response (Count)	Complete (Count)	Nontelephone Households ^a (Count)	Design- Specific, Weighted Rate (Percent)	State Rate, Average Weighted Rate (Percent)
NC	Unclustered							
Medicaid	Recent Enrollee	522	382	256	243	140	67.6	
	Established Enrollee	530	394	271	261	136	70.9	
	Recent Disenrollee	531	389	230	199	142	59.5	
	Clustered							
	Recent Enrollee	553	553	281	274	0	50.7	
	Established Enrollee	548	548	274	267	0	49.1	
	Recent Disenrollee	553	553	235	211	0	42.7	

^aThe count of nontelephone households includes the nontelephone households in the clustered samples that were not released for in-person field locating.

TABLE B.10

STATE-LEVEL SAMPLE COUNTS AND REFERENCE RATES

State/Program	Domain	Full Sample (Count)	Eligible Sample (Count)	Complete Interviews (Count)	Average Weighted Rate (Percent)	Response in Telephone Households (Percent)	Proportion of Nontelephone Households (Percent)	Response in Nontelephone Households (Percent)	Weighted Rate (Percent)
CA									
SCHIP	New Enrollee	809	765	608	81.0	82.9	9.0	21.4	77.4
	Established Enrollee	793	752	575	77.9	79.3	8.4	34.6	75.5
	Recent Disenrollee	1,011	940	617	67.5	69.8	12.1	31.3	65.1
CA									
Medicaid	New Enrollee	1,201	1,003	414	43.4	44.1	29.6	34.4	41.2
	Established Enrollee	1,199	1,017	393	41.4	41.7	27.2	29.2	38.3
	Recent Disenrollee	1,200	985	404	43.4	44.6	31.0	27.3	39.2
NC									
SCHIP	New Enrollee	916	806	554	69.8	73.5	18.5	28.7	65.2
	Established Enrollee	922	824	615	76.6	79.7	16.9	36.8	72.5
	Recent Disenrollee	1,047	925	591	68.2	73.1	20.7	22.3	62.6
NC									
Medicaid	New Enrollee	1,075	935	517	59.2	62.8	24.5	23.6	53.2
	Established Enrollee	1,078	942	528	60.0	63.4	23.7	20.6	53.3
	Recent Disenrollee	1,084	942	410	51.1	57.1	28.7	15.4	45.1

made a special effort to increase response for these SCHIP and Medicaid samples (particularly for the latter). The response rates for the SCHIP samples in California and in North Carolina were similar to those for the main sample, shown in Tables B.7 and B.8. However, the response rates for the Medicaid samples for those states were considerably lower than were the response rates for the main sample. The Medicaid response rates were similar to those found for other major surveys of the Medicaid population and largely reflect poor or inadequate contact information in administrative records (Ghosh et al. 2001; Ciemnecki et al. 2000).

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APPENDIX C

METHODS USED TO CONDUCT THE ANALYSIS OF SCHIP ENROLLEES AND DISENROLLEES IN 10 STATES

This appendix describes the methods used in the report by Kenney, Trenholm, et al. (2005), "The Experiences of SCHIP Enrollees and Disenrollees in 10 States: Findings from the Congressionally Mandated SCHIP Evaluation." The report is based on data from the 2002 Congressionally Mandated Survey of State Children's Insurance Program (SCHIP) Enrollees and Disenrollees in 10 States and on several related sources.¹ The first section of this six-section appendix summarizes methodological issues that are relevant to most or all of the different analyses presented in the report. The remaining sections describe the analytic methods used in specific chapters of the report (see Table C.1).

A. CROSS-CUTTING METHODS

This section discusses two cross-cutting methodological issues. The first is the sample design on which the overall analysis is based, as well as the rationale for the design. The second is the set of descriptive variables that were used in the report to characterize the SCHIP (or Medicaid) population, define key subgroups, and investigate sources of variation in key outcomes.

1. Sample Design

The 2002 survey of SCHIP enrollees and disenrollees focused on three domains of interest, as defined from the state enrollment files: (1) recent SCHIP enrollees, who, according to the state files, had been enrolled in SCHIP within a month or two prior to sampling; (2) established SCHIP enrollees, who were enrolled in SCHIP for 6 months or more prior to sampling; and (3) recent disenrollees, who had exited SCHIP a month or two prior to sampling. In addition, in

¹The report also draws on data from a companion survey of Medicaid enrollees and disenrollees in two states, as well as on data from various state administrative and enrollment files. See Appendix A for a layout of the full survey instrument. For details on the sample design and administration of the survey, see Appendix B.

TABLE C.1

Appendix Section	Chapter I: Key Survey Findings	Chapter II: Enrollment Experiences	Chapter III: Program Experiences (Access/Use)	Chapter IV: Length of Enrollment	Chapter V: Disenrollee Experiences	Chapter VI: Substitution	Chapter VII: Impacts	Chapter VIII: Medicaid
A. Cross-Cutting Methods	Х	Х	Х		Х		Х	Х
B. Analysis of Recent Enrollees	Х	X						Х
C. Analysis of Established Enrollees	X		Х				X	X
D. Analysis of Disenrollees	Х				Х			
E. Analysis of Substitution and Prior Coverage	X					Х		
F. Analysis of Determinants of Enrollment Lengths	X			Х				

SECTION(S) OF APPENDIX ADDRESSING METHODS FOR EACH REPORT CHAPTER

two states, we conducted a parallel survey of Medicaid enrollees and disenrollees across the three domains.

A central goal in conducting the survey was to reflect the experiences of *all* children and families in the domains so that we could present research findings that were as accurate and as generalizable to the overall SCHIP population as possible. In order to achieve this goal, we developed a highly flexible survey instrument that tailored the interview to the perceptions of the families regardless of the consistency between these perceptions and the state enrollment files. As discussed below, this approach enabled us to retain families in the sample who might otherwise have been dropped because they provided dates of enrollment or disenrollment that were inconsistent with their sample domains. Research demonstrates that many survey respondents have difficulty reporting their insurance histories accurately (Nelson and Miller 2001; Rajan et al. 2000). In light of this research, our approach was essential to retaining as much sample as possible, and to yielding the most credible set of estimates possible about families' experiences with SCHIP.

a. Addressing Sample Domain Inconsistencies

To illustrate the importance of addressing potential inconsistencies between the respondents' perceptions and the assigned sample domains, consider the children whom we selected for our recent enrollee sample. The state program files showed that almost 35 percent of the children across our 10-state sample either had spells of SCHIP coverage prior to enrolling (their short gaps in coverage perhaps resulting from late premium payments or renewals) or had recent spells of Medicaid coverage prior to enrolling (often with no gaps between the two programs). In some instances, the families would not be expected to recognize their recent enrollment in SCHIP, believing instead that they had never left the program (in the case of a short gap in SCHIP).

coverage) or had never switched programs (in the case of a transition from Medicaid). Many of these families would therefore have reported having been covered by SCHIP for longer than indicated by the state files, often significantly so. As a result, when these families reported on key outcomes, such as prior insurance coverage or pre-SCHIP utilization of health care, they were not reporting those data for the period immediately before their current (state-determined) period of enrollment.

To address this problem and others like it, we had two options. The first was to simply drop from the survey sample any cases whose self-reported dates of entry (or exit) were inconsistent with the domains in which they had been sampled. (So, for example, a recent enrollee who reported having been enrolled for, say, a year or more at the time of interview might be classified as ineligible for the survey and dropped from the recent enrollee sample.) This approach was attractive because it was simple and would have yielded an analytic file containing reliable data for all outcomes across all sample members. However, because the approach would remove a large fraction of the children and families originally sampled for survey, it could have led to substantial biases in our estimates of several key outcomes.

For example, suppose we had dropped from the study sample any recent enrollee who had reported being enrolled in SCHIP for an extended period, say, a year or more. This step would have eliminated the problem of interviewing recent enrollees who believed themselves enrolled for a long period of time. However, it probably also would have resulted in the removal of a disproportionate share of recent enrollees who had either transitioned from Medicaid seamlessly, or who had experienced only short gaps in SCHIP coverage. In turn, any estimates of prior coverage among recent enrollees would have been biased, leading to underestimates of the share of recent enrollees with public coverage, and to overestimates of the share with private coverage or no insurance. The second option, which we adopted, was to retain sample that displayed inconsistency between the state enrollment data and the self-reported data and interview families based on the self-reported information, rather than on the information from the state enrollment files. (So, for example, if a recent enrollee had informed us that he or she had been enrolled for more than a year, we interviewed that person as if he or she were an established enrollee, and not a recent enrollee.) As described below, this option required us to use imputation and/or nonresponse adjustment for some outcomes to account for survey data on selected sample members that were either incomplete or incorrect. Nevertheless, because we retained a sample that was fully representative of each study domain, this option was much more likely than the first option to yield unbiased estimates of the experiences of SCHIP enrollees and disenrollees.

As shown in Table C.2, the adoption of this approach led to a complex sample design. In total, the sample included 18 types of sample members across the three domains. For some sample members, survey questions were either skipped because they could not be addressed properly or were replaced by a different series of questions. For example, within the recent-enrollee domain, children reported to have been enrolled at birth were not asked any questions about their pre-SCHIP access, service use, or other experiences for obvious reasons; however, if the newborns were reported to have been enrolled for 12 months or longer at interview, we collected information about their experiences while in the program. Furthermore, we used Medicaid and SCHIP enrollment files to validate reports that children were enrolled in SCHIP at birth. We were thus able to identify children who had actually been enrolled in Medicaid at birth, and had then transferred seamlessly to SCHIP. By adopting these strategies, we were able to collect as much usable information as possible on each member of the sample. In subsequent chapters of the appendix, we describe the methods used to combine interview and

TABLE C.2

SUMMARY OF THE TYPES OF SAMPLE MEMBERS AND THE SURVEY QUESTIONS THEY ANSWERED

Definition (Self-Reported)	Introduction (Section 1)	Application and Enrollment (Section 2)	Child's Insurance Coverage (Section 3)	Child's Health (Section 4)	Time Frame for Sections 5-6	Access to Care (Section 5)	Service Utilization/ Unmet Need (Section 6)	Parent Characteristics (Section 7)	Telephone Coverage (Section 8)
			Statuses W	ithin the Recen	t Enrollee Domain		•		-
Recent Enrollee Who Has Been Enrolled for Fewer than 12 Months	Yes	Yes	2.1-2.9.1B, 2.20-2.44	Yes	The 6 months before child's coverage began	Yes	Yes	Yes	Yes
Recent Enrollee Who Was Born in the 6 Months Before SCHIP Started	Yes	Yes	2.1-2.9.1B, 2.20-2.44	Yes	Before child's coverage began	Yes	Yes	Yes	Yes
Recent Enrollee Who Obtained Coverage at Birth and Has Been Enrolled for 12 Months or More	Yes	Yes	2.1-2.9.1B, 2.20-2.31	Yes	Past 6 months	Yes	Yes	Yes	Yes
Recent Enrollee Who Obtained Coverage at Birth and Has Been Enrolled for Fewer than 12 Months	Yes	Yes	2.1-2.9.1B, 2.20-2.31	Yes		No	No	7.4.a-7.4.1.9, 7.109-7.120	8.15 to end
Recent Enrollee Who Has Been Enrolled for 12 Months or Longer	Yes	Yes	2.1-2.9.1B, 2.20-2.44	Yes	Past 6 months	Yes	Yes	Yes	Yes
Recent Enrollee Who Has Been Disenrolled for 6 Months but Fewer than 12 Months	Yes	Yes	2.1-2.9.1B, 2.20-2.44	Yes	The 6 months before child's last SCHIP coverage ended	Yes	Yes	Yes	Yes
Recent Enrollee Who Has Been Disenrolled for 12 Months or Longer	Yes	Yes	2.1-2.51	Yes		No	No	7.4.a-7.4.1.9, 7.109-7.120	8.15 to end
			Statuses With	in the Establis	hed Enrollee Domair	ı			
Established Enrollee Who Has Been Enrolled 6 Months or More	Yes	Yes	2.1-2.9.1B, 2.20-2.44	Yes	Past 6 months	Yes	Yes	Yes	Yes
Established Enrollee Who Obtained Coverage at Birth	Yes	Yes	2.1-2.9.1B, 2.20-2.31	Yes	Past 6 months	Yes	Yes	Yes	Yes

Definition (Self-Reported)	Introduction (Section 1)	Application and Enrollment (Section 2)	Child's Insurance Coverage (Section 3)	Child's Health (Section 4)	Time Frame for Sections 5-6	Access to Care (Section 5)	Service Utilization/ Unmet Need (Section 6)	Parent Characteristics (Section 7)	Telephone Coverage (Section 8)
Established Enrollee Enrolled for Fewer than 6 Months	Yes	Yes	2.1-2.9.1B, 2.20-2.44	Yes	While the child was on SCHIP	Yes	Yes	Yes	Yes
Established Enrollee Who Has Been Disenrolled 6 Months but Fewer than 12 Months	Yes	Yes	2.1-2.9.1B, 2.20-2.25, 2.60 to end	Yes	The 6 months before child's last SCHIP coverage ended	Yes	Yes	Yes	Yes
Established Enrollee Who Has Been Disenrolled for 12 Months or More	Yes	Yes	2.1-2.51	Yes		No	No	7.4.a-7.4.1.9, 7.109-7.120	8.15 to end
			Statuses Wit	hin the Recent	Disenrollee Domain				
Disenrollee Who Has Been Disenrolled for Fewer than 12 Months	Yes	Yes	2.1-2.9.1B, 2.20-2.25, 2.60 to end	Yes	The 6 months before child's last SCHIP coverage ended	Yes	Yes	Yes	Yes
Disenrollee Who Has Been Currently Enrolled for 6 Months or More	Yes	Yes	2.1-2.9.1B, 2.20-2.25, 2.60 to end	Yes	Past 6 months	Yes	Yes	Yes	Yes
Disenrollee Who Has Been Disenrolled for 12 Months or More	Yes	Yes	2.1-2.51	Yes	—	No	No	7.4.a-7.4.1.9, 7.109-7.120	8.15 to end
Disenrollee Who Has Been Disenrolled for 12 Months or More—Recontacted and Completed Interview	Yes	Yes	2.1-2.5, 2.26, 2.60- 2.65	Yes	_	No	No	7.4.a-7.4.1.9, 7.109-7.120, 7.4.5.1- 7.4.5.6, 7.90- 7.101	8.15 to end
			Statuse	s That Apply t	o Yes Domains				
No Info on Whether Sample Child Is Enrolled	Yes	Yes	2.1	Yes	_	No	No	7.4.a-7.4.1.9, 7.109-7.120	8.15 to end
Missing Date(s) to Determine Duration of Enrollment	Yes	Yes	2.1-2.51	Yes	—	No	No	7.4.a-7.4.1.9, 7.109-7.120	8.15 to end

administrative data to construct key outcome variables, and any steps taken to impute or otherwise account for data that were missing or potentially misreported.

b. Sample Sizes

As described in Appendix B, the sample design for the study allowed children to be selected for the study in either a clustered or unclustered sample. In rare instances, SCHIP children were selected for both samples, leading these children to have two records in the analysis sample rather than one. (Throughout the analysis, we used appropriate sample weights to avoid overrepresenting such cases, and all standard errors are calculated with SUDAAN to reflect the actual sample size, design effects, and weighting.)

The resulting analysis sample for the SCHIP study, summarized in Table C.3, included a total of 16,680 records drawn from a total of 16,580 interviews with the parents of SCHIP enrollees and disenrollees.² The Medicaid analysis sample, summarized in Table C.4, had no instances of this dual sample selection, so that the total sample size reported (2,613) reflects both the number of sample records and the number of completed interviews (conducted with the parents of Medicaid enrollees and disenrollees). For both the SCHIP and Medicaid samples, the size of the unweighted sample was roughly equal across the three sample domains. However, the weighted sample was much larger for the established enrollees, reflecting their larger population in relation to recent enrollees or disenrollees.

Within each domain, the largest subsample was the one that a respondent would generally be expected to self-report. For example, within the domain of recent SCHIP enrollees, the largest subsample consisted of children reported to have been enrolled for fewer than 12 months (3,330

² Throughout this appendix, as well as the main report, we base our sample size numbers on the slightly larger record count in order to make the numbers easier to replicate by users of the forthcoming public use file.

TABLE C.3

	Unweighted				Weighted						
	Sample Size				W OIGHIOU						
Definition		Interviews	% of Sample Domain	% of Total Sample	Sample Size	% of Sample Domain	% of Total Sample				
Recent Enrollees											
Recent Enrollee Who Has Been Enrolled for Fewer than 12 Months	3,330	3,326	59	20	111,658	61	6				
Recent Enrollee Who Was Born in the 6 Months Before SCHIP Started	67	67	1	<1	2,176	1	<1				
Recent Enrollee Who Obtained Coverage at Birth and Is Enrolled for 12 Months or More	164	164	3	1	2,806	2	<1				
Recent Enrollee Who Obtained Coverage at Birth and Is Enrolled for Fewer than 12 Months	37	37	1	<1	1,462	1	<1				
Recent Enrollee Who Has Been Enrolled for 12 Months or Longer	1,761	1,756	31	10	55,317	30	3				
Recent Enrollee Who Has Been Disenrolled for 6 Months but Fewer than 12 Months	84	82	1	1	3,160	2	0				
Recent Enrollee Who Has Been Disenrolled for 12 Months or Longer	76	75	1	<1	2,294	1	0				
No Information on Whether Sample Child is Enrolled	62	62	1	<1	1,870	1	0				
Missing Date(s) to Determine Duration of Enrollment	82	82	1	<1	2,361	1	0				
Subtotal (Recent Enrollees)	5,663	5,651	100	34	183,105	100	10				
	Est	ablished En	rollees								
Established Enrollee Who Has Been Enrolled 6 Months or More	5,010	5,007	86	30	1,373,010	89	77				
Established Enrollee Who Obtained Coverage at Birth	179	178	3	1	30,542	2	2				
Established Enrollee Enrolled for Fewer than 6 Months	109	109	2	1	27,681	2	2				
Established Enrollee Who Has Been Disenrolled 6 Months but Less than 12 Months	167	167	3	1	44,873	3	3				
Established Enrollee Who Has Been Disenrolled for 12 Months or More	112	112	2	1	25,735	2	1				
No Information on Whether Sample Child Is Enrolled	83	83	1	<1	18,398	1	1				
Missing Date(s) to Determine Duration of Enrollment	177	137	2	1	26,863	2	2				
Subtotal (Established Enrollees)	5,797	5,793	100	35	1,547,102	100	86				

	Unweighted					Weighted						
	Sample Size											
Definition	Records	Interviews	% of Sample Domain	% of Total Sample	Sample Size	% of Sample Domain	% of Total Sample					
Disenrollees												
Disenrollee Who Has Been Disenrolled for Less than 12 Months	2,051	2,011	39	12	23,265	40	1					
Disenrollee Who Has Been Currently Enrolled for 6 Months or More	1,762	1,747	33	11	16,980	29	1					
Disenrollee Who Has Been Disenrolled for 12 Months or More	563	550	11	3	6,507	11	<1					
Disenrollee Who Has Been Disenrolled for 12 Months or More—Recontacted and Successfully Reached	630	618	12	4	8,352	14	<1					
No Information on Whether Sample Child Is Enrolled	113	112	2	1	1,122	2	<1					
Missing Date(s) to Determine Duration of Enrollment	201	198	4	1	2,177	4	<1					
Subtotal (Disenrollees)	5,320	5,236	100	32	58,403	100	3					
Total (Full Sample)	16,780	16,680		100	1,788,610		100					

		Unweighted	1		Weighted	
_	Samula	% of Sample	% of Total	Comple	% of	% of Total
Definition	Sample Size	Domain	Sample	Sample Size	Sample Domain	Sample
	Rec	ent Enrolle	es			
Recent Enrollee Who Has Been Enrolled for Fewer than 12 Months	311	34	12	21,972	33	1
Recent Enrollee Who Was Born in the 6 Months Before SCHIP Started	56	6	2	3,873	6	<1
Recent Enrollee Who Obtained Coverage at Birth and Is Enrolled for 12 Months or More	87	10	3	7,543	11	<1
Recent Enrollee Who Obtained Coverage at Birth and Is Enrolled for Fewer than 12 Months	225	25	9	15,581	23	1
Recent Enrollee Who Has Been Enrolled for 12 Months or Longer	186	20	7	13,997	21	1
Recent Enrollee Who Has Been Disenrolled for 6 Months but Fewer than 12 Months	17	2	1	1,581	2	<1
Recent Enrollee Who Has Been Disenrolled for 12 Months or Longer	14	2	1	1,225	2	<1
No Information on Whether Sample Child is Enrolled	9	1	0	1,109	2	<1
Missing Date(s) to Determine Duration of Enrollment	6	1	0	497	1	<1
Subtotal (Recent Enrollees)	911	100	35	67,378	100	3
	Establi	shed Enrollo	ees			
Established Enrollee Who Has Been Enrolled 6 Months or More	461	50	18	863,121	46	44
Established Enrollee Who Obtained Coverage at Birth	345	37	13	755,159	40	38
Established Enrollee Enrolled for Fewer than 6 Months	31	3	1	65,570	3	3
Established Enrollee Who Has Been Disenrolled 6 Months but Less than 12 Months	25	3	1	55,641	3	3
Established Enrollee Who Has Been Disenrolled for 12 Months or More	28	3	1	69,444	4	4
No Information on Whether Sample Child Is Enrolled	16	2	1	38,338	2	2
Missing Date(s) to Determine Duration of Enrollment	16	2	1	37,777	2	2
Subtotal (Established Enrollees)	922	100	35	1,885,048	100	95

THE MEDICAID SURVEY: SAMPLE SIZE AND DISTRIBUTION

		Unweighted	1	Weighted		
-		% of				
Definition	Sample Size	Sample Domain	% of Total Sample	Sample Size	Sample Domain	% of Total Sample
		isenrollees	· · · · ·			· •
Disenrollee Who Has Been Disenrolled for Less than 12 Months	190	24	7	5,970	26	<1
Disenrollee Who Has Been Currently Enrolled for 6 Months or More	456	58	17	13,223	57	1
Disenrollee Who Has Been Disenrolled for 12 Months or More	45	6	2	1,286	6	<1
Disenrollee Who Has Been Disenrolled for 12 Months or More—Recontacted and Successfully Reached	73	9	3	2,386	10	<1
No Information on Whether Sample Child Is Enrolled	5	1	0%	96	0	<1
Missing Date(s) to Determine Duration of Enrollment	11	1	0	351	2	<1
Subtotal (Disenrollees)	780	100	30	23,313	100	1
Total (Full Sample)	2,613	_	100	1,975,738	100	1

of the 5,663 records in that domain). Likewise, within the domain of established SCHIP enrollees, the largest subsample consisted of children reported to have been enrolled for 6 months or more (5,010 of the 5,797 records in that domain). The same pattern also was true for the SCHIP-disenrollee domain, although to a lesser extent. Although the largest subsample reported being disenrolled for fewer than 12 months (2,051 of the 5,320 records in that domain), a nearly equal number reported being enrolled for 6 or more months (1,762).

2. Demographic and Other Cross-Cutting Variables

We constructed a base set of demographic and other variables that were used across all the analyses. These variables were used for three main purposes: (1) to describe the characteristics of the SCHIP population across states and enrollment domains, (2) to form key subgroups for analysis, and (3) to serve as covariates in several types of regression analysis.

Table C.5 displays the source data used to construct the variables and notes important issues with their development or use. All of the variables were constructed as simple indicators that took on a value of 1 if the characteristic was true, or a value of 0 if the characteristic was false. For example, the variable "age 0 to 5" takes on a value of 1 if a given sample member was in that age range, and 0 otherwise. In many instances, these indicator variables reflected one of several related categories. For example, we had four indicator variables for children's ages, reflecting categories of 0 to 5, 6 to 12, 13 to 17, and 18 years and older. (In some analyses, the two older age groups were collapsed into one category that included all children age 13 and older.) In regression analysis, one of the indicator variables is always omitted to serve as the reference category.

	Indicator Variables	Source Data ^a	Notes
	Ch	ild-Level Variab	les
Age	Age 0-5 Age 6-12 Age 13-17 Age 18-20	Q1.16-1.17	
Gender	Female	Q1.15	
Race/Ethnicity ^b	Hispanic White, non-Hispanic Black, non-Hispanic Asian, non-Hispanic Other, non-Hispanic	Q7.109-7.111	If respondent considered child to be of Hispanic or Latino origin, child was categorized as "Hispanic/Spanish origin." For each other child, respondent was also asked to describe the child's racial background. Categories were white, American Indian, Alaskan Native, black or African American, and Asian/Pacific Islander, or respondent could write in an answer. Children with written answers categorized into one of the previous categories if possible. American Indian, Alaskan Native, and children with more than one race listed were added to the "Other" category. Any child who could not be classified was not included in the variable.
Health Status	Health is fair or poor Child has asthma Child has mental health condition	Q4.1 Q4.9 Q4.13	
	Has special health care need	Q4.3-4.10, Q4.11-4.16 Q4.1;Q4.3-	Respondent reported that child met at least one of the following four criteria: (1) child had an impairment or health problem limiting ability to (crawl), walk, run, or play and lasting at least 12 months; (2) a doctor or other health care professional said that child had asthma or child has taken medication or required injections prescribed by a doctor for his/her asthma; (3) child has taken medication or required injections for at least 3 months (excluding asthma); (4) a doctor or other health professional said that child had mental health condition or behavioral problem or child had mental health condition or behavioral problem limiting ability to do regular schoolwork or participate in usual kind of activities done by most children his/her age. Child's health fair or poor or child has special
	has elevated health care need	Q4.1;Q4.3- Q4.10; Q4.11- Q4.16	health care need (see above)

SUMMARY OF DEMOGRAPHIC VARIABLES USED THROUGHOUT ANALYSIS

	Indicator Variables	Source Data ^a	Notes
	Hous	sehold-Level Varia	ables
Main Household Language ^b	English Spanish Other	Q7.120	
Household Structure	Two-parent household Two parents/one working Two parents/none working One parent/working One parent/not working	Q7.4.5.2- 7.4.5.3	 Two constructed variables are combined to , determine household structure: 1. Respondent reported relation to child and those of other adults living in the same household to determine number of parents/legal guardians in the household 2. Respondent reported employment status of one/both parent/legal guardians during past 12 months. If worked at any time during past 12 months, full-time or part-time, for pay or profit, then defined as working
Highest Education Level	No GED or HS diploma GED or HS diploma Some college or college degree	Q7.4.1.7, Q7.4.6.7	The highest education level reported by any parent/legal guardian
Household Income	<150% FPL 150 to 199% FPL >200% FPL	Q7.90-7.101	Household income from jobs and all other sources of income reported by respondent and size of household used to compute income as percentage of FPL
Parent(s) Foreign Born		Q7.4.1.8, Q7.4.5.8	
Urbanicity	MSA	Based on the variable "r_ucc" from 2001 ARF	Metro counties include "central counties of metro areas of 1 million population or more," "fringe counties of metro areas of 1 million population or more," "counties in metro areas of 250,000-1,000,000 population," and "counties in metro areas of 250,000-1,000,000 population."
	Adjacent to MSA	Based on the variable "r_ucc" from 2001 ARF	Adjacent counties include "urban population of 20,000 or more, adjacent to a metro area," "urban population of 2,500-19,999, adjacent to a metro area," and "completely rural (no population of 2,500 or more) adjacent to a metro area."

Indicator Variables	Source Data ^a	Notes
Non-MSA/non-adjacent	Based on the variable "r_ucc" from 2001 ARF	Non-metro/non-adjacent counties include "urban population of 20,000 or more, not adjacent to a metro area," "urban population of 2,500-19,999, not adjacent to a metro area," and "completely rural (no population of 2,500 or more) not adjacent to a metro area."
Home remedies better than drugs	Q7.3.34	Includes response of either "definitely true" or "mostly true"
Can overcome most problems without a doctor	Q7.3.32	Includes response of either "definitely true" or "mostly true"

^aExcept as noted, source data reflect the question number on the survey instrument (see Appendix A).

^bRace/ethnicity and language variables were often combined in the report to form six indicator variables: (1) Hispanic, Spanish-speaking; (2) Hispanic, English-speaking; (3) non-Hispanic, English-speaking white; (4) non-Hispanic, English-speaking black; (5) non-Hispanic, English-speaking other; and (6) non-Hispanic, non-English-speaking (all).

ARF = Area Resource File; FPL = Federal Poverty Level; GED = General Educational Development; HS = High School; MSA = Metropolitan Statistical Area.

B. ANALYSIS OF ENROLLMENT EXPERIENCES

This section discusses the samples and study methods used to analyze enrollment experiences of recent SCHIP and Medicaid enrollees (reported in Chapters I, II, and VIII of the main report). We begin by describing the samples used for the analyses, first for SCHIP enrollment experience and then for Medicaid enrollment experience. We then describe the construction of the key measures that we investigated.

1. SCHIP Sample

The analysis of the experiences of recent SCHIP enrollees focused on two different samples:

- 1. *To examine enrollees' sources of information* about the program and the importance of that information, we analyzed the entire sample of 5,663 recent SCHIP enrollees across the 10 states.
- 2. *To examine experience with the application and enrollment process*, we focused on a subsample of recent enrollees. The subsample included all recent enrollees whose self-reported enrollment months coincided closely with the months shown on the state files for sampling.

Our reason for limiting the latter sample was to ensure that we measured the application and enrollment experiences of recent enrollees at the time they were sampled for the survey—not the application experience at some other time. However, we also recognized that excluding a large number of cases from the analysis might bias our measurement. Most notably, many families whose children transitioned from Medicaid appeared not to have been aware of their entry into SCHIP, resulting in self-reported enrollment dates in SCHIP that more closely corresponded to the children's dates of Medicaid entry months or years earlier. Since the information provided by these families on the surveys did not pertain to the target time frame (or even to the target program), it would not have been appropriate to include it in the analysis. However, we did not want to simply exclude those observations from the analysis, as that step would have led us to understate the extent of such "seamless transitions" into the SCHIP program. As described below, we conducted an imputation for a fraction of the recent enrollees sample in order to retain them in the analysis.

We separated the recent-enrollee sample into four categories based on the survey respondents' perceptions of when their children had enrolled in SCHIP. These categories include:³

- 1. Families whose children's reported enrollment dates were similar to the enrollment dates found in the program data (N = 3,952). This group included a majority of recent enrollees (70 percent) whose families provided enrollment dates that were within 6 months of the enrollment dates indicated in the program enrollment files. Reported experiences among these families were likely to reflect the families' most recent SCHIP enrollment.
- 2. Families whose children were "seamlessly" transferred from Medicaid (N = 942). This group, which included 17 percent of the recent-enrollee sample, included families who reported that their children had enrolled 6 or more months earlier than indicated by the program data, and who transferred to SCHIP directly from Medicaid with no intervening uninsured spells. In all likelihood, most of these families did not report their most recent enrollment in SCHIP because that enrollment required little or no effort and was thus unobserved.
- 3. Families who reported enrollment dates that were far removed from the actual enrollment (N = 625). This group included the families who reported enrollment dates 6 or more months beyond the ones indicated on the enrollment files, but for whom there was no evidence from the state files of seamless Medicaid enrollment.
- 4. Families who were unable to provide enrollment dates because they either could not recall them or refused to answer (N = 144). This group included families who were unable to provide the dates of the sampled children's most recent enrollment.

Our analysis of the application and enrollment experience included the first group, who

reported dates of enrollment similar to the ones contained in the state files. In addition, it

³The four categories corresponded loosely to the subsamples shown in Table C.3 for the recent-enrollee domain. Thus, most of the families who fell into the first category had self-reported program tenures of less than a year, most sample members in the second and third categories had self-reported tenures of more than a year (leading them to be interviewed as established enrollees), and sample members in the final category included those who could not answer the survey questions because they did not provide enrollment dates.

included the second group, which transitioned from Medicaid. (Below, we describe our data imputation for this latter sample.) Together, these two groups accounted for about 85 percent of the full sample of recent SCHIP enrollees. The third group, which included children who did not transfer from Medicaid but still had reported program tenures that were far longer than those contained in the state files, were excluded from the sample for the application and enrollment analysis (along with the small, fourth group). However, in order to reflect the enrollment experiences of the excluded groups in our estimates, we used a nonresponse adjustment whereby the weights in the analysis sample were adjusted based on the excluded groups' observed characteristics.⁴ Estimates of recent enrollee experiences differed little with or without this adjustment, suggesting that our reported outcomes were robust to the loss of this sample.

2. Medicaid Sample

We defined our sample of recent Medicaid enrollees for the analysis of enrollment experiences using an approach parallel to the one we used for recent SCHIP enrollees. Thus, to investigate where families learned about SCHIP, we used the full sample of recent Medicaid enrollees, along with the original sample weights. However, to study the application and enrollment experiences of these families, we limited the analytic sample to recent enrollees with self-reported enrollment dates within 6 months of the state files' dates (the first category in the list above), and to those entering Medicaid "seamlessly" from SCHIP (the second category in the list). Together, these two categories accounted for roughly 80 percent of all children in the Medicaid recent enrollee sample.

⁴The adjustment was based on each enrollee's self-reported health care coverage in the 6 months before enrolling, which may have had a strong influence on reported enrollment experiences. Specifically, within each prior coverage type (uninsured, private, Medicaid, SCHIP), we created a ratio equal to the sum of sampling weights for the dropped sample and the retained sample relative to the sum of the sampling weights for the retained sample only. This ratio was than multiplied by the weight for each retained sample member, by prior coverage type, in order to create a revised weight that accounted for the dropped sample members.

3. Outcome Measures

The analysis of information sources focused on two measures: (1) respondents' source(s) of information on SCHIP/Medicaid, and (2) the importance of this information in the decision of the respondents to enroll their children. These measures were based on responses to 10 survey questions in Section B of the survey instrument (Table C.6, top panel). Open-ended responses were coded to appropriate response categories.

The analysis of enrollment experience focused on five measures (Table C.6, lower panel). For families who experienced seamless transfers of their children from Medicaid (the second group in the list), the reported application experiences most likely pertained to their original Medicaid enrollment, rather than to their more recent enrollment in SCHIP (through transfer from Medicaid). To retain this sample, we assumed that the sample members' program applications and entry involved little or no effort (since they were not even observed by the survey respondents). Based on this assumption, we imputed the following values for this group of recent enrollees:

- *Ease of Enrollment*. Assigned a value of "very easy"
- *Received Application Assistance*. Assigned a value that the enrollee "did not receive assistance" applying for SCHIP
- *Waited 4 Weeks or Less to Enroll.* Assigned a value of "yes," indicating that the wait time was less than 4 weeks after submitting an application

These imputations should lead to a more accurate description of the experiences of recent enrollees than would either simply dropping the sample or using the information provided (which appeared to pertain to the wrong period). Nevertheless, the substantive policy findings are robust to whether we perform the imputation or simply drop the sample from the analysis. For example, even in the absence of an imputation, most enrollees found their application

SUMMARY OF MEASURES USED IN THE ANALYSIS OF ENROLLMENT EXPERIENCE

	Analys	is of Information Sources
"Have You Ever Heard or Received Information About SCHIP from/at?"	Q3.1.2.1: Q3.1.4: Q3.1.5: Q3.1.8: Q3.1.9: Q3.1.12: Q3.1.13: Q3.1.15:	Television or radio Public agencies Child's school Telephone hotline, helpline Healthcare providers Employer Stores, restaurants, malls, etc. Other places
Most Importance Source	Q3.2:	"Was any of this information important in making a decision to enroll your child in SCHIP?" (If YES to Q3.2) Q3.2.1: "Which information was most important in making the decision to enroll your child in SCHIP?"
An	alysis of Ap	plication and Enrollment Process
Easy Enrollment	Q3.29.1:	"So overall, based on your experience and what you know about SCHIP, how easy or difficult is it to enroll your child in SCHIP?"— Affirmative if one of the first two response categories, "Very easy" and "Somewhat easy," was provided.
Received Application Assistance	Q3.20:	"Did a translator or some other professional help translate the application form in a language you could understand?" and Q3.21: "Did you get any (other) assistance in completing the application?"— Affirmative if the response to either question is affirmative.
Waited 4 Weeks or Less to Enroll	Q3.30:	"After the entire application was completed and submitted, about how many weeks or months did it take until you were notified that your child was enrolled in the program?— Affirmative if the response is 4 weeks or less.
Knowledge of Renewal Frequency	Q3.34:	"Based on your experiences and what you know about SCHIP, how often do you have to reapply to SCHIP for your child to stay in the program?" — Respondent has correct knowledge if the response is consistent with state's SCHIP eligibility redetermination frequency at the time.

process to be at least somewhat easy, and most received notification of their eligibility within 4 weeks.

C. ANALYSIS OF SCHIP PROGRAM EXPERIENCES (ACCESS AND USE)

This section discusses the study methodology used for the analysis of SCHIP and Medicaid program experiences related to access and use, unmet needs, and satisfaction with care (presented in Chapters I, III, VII, and VIII of the report). Although the analysis focused mainly on the outcomes of established enrollees, it also examined the preenrollment outcomes of recent enrollees (for comparison) and the outcomes of disenrollees while in the program (for sensitivity testing). Thus, the overall analysis drew on all three domains for the study—established enrollees, recent enrollees, and disenrollees—in both SCHIP and Medicaid.

We begin by describing the analytic samples used, focusing on cases that were excluded and on the reasons for the exclusions. We then provide additional information on the characteristics of the recent- and established-enrollee samples, focusing on any differences between the full sample and the access and use analytic samples. Finally, we describe the construction of measures of access and use used to analyze the experiences SCHIP and Medicaid recent and established enrollees.

1. Established-Enrollee Samples

The sample of established SCHIP (or Medicaid) enrollees formed the basis for assessing children's access, use, and other experiences while in the program. As described here, the analysis samples for SCHIP and Medicaid excluded only a very small fraction of children in the established-enrollee sample. Moreover, the characteristics of excluded sample members differed little from the characteristics of the ones who were retained.

a. SCHIP Sample

The sample eligible for the analysis of access and use experiences of established SCHIP enrollees included 5,797 observations. As summarized in Table C.3, the sample fell into four categories defined by the survey respondents' perception of when their children had enrolled in SCHIP, and on whether the children had subsequently disenrolled. Here, we summarize the four categories and the action taken with respect to each of them in order to construct our measures:

- 1. *Enrolled for 6 Months or More* (N = 5,189). These sample members provided enrollment dates similar to the ones indicated on the enrollment file, suggesting that their reported enrollment information was reliable. We therefore asked them a full series of questions about their access and use experience "in the past 6 months."
- 2. Enrolled for Fewer than 6 Months (N = 109). Because asking about these children's experiences "in the past 6 months" would have covered days in which the children were not enrolled in SCHIP, we asked these respondents about the time "that the child was on SCHIP." We collected a full range of information about these respondents' demographic characteristics and their program experience for the time that their children were in SCHIP. However, we did not include the children in our access and use analysis because the period over which experiences were measured was not comparable to the period for which information was provided by enrollees in the first category. For example, unmet need for doctor care in the past 4 months is not comparable to unmet need for doctor care in the previous 6 months.
- 3. Disenrolled for 6 Months or More (N = 279). Either these children had disenrolled between sampling and the fielding of the survey or their parents erroneously believed that they children had disenrolled. In the case of children whose parents reported that they had been disenrolled for more than 6 but fewer than 12 months (167 observations), we interviewed respondents as parents of "disenrollees" and collected a full range of information about their demographic characteristics and their access and use experience "in the 6 months prior to disenrolling." We included these observations in our analyses of the access and use experiences of SCHIP enrollees prior to disenrolling from the program. For established enrollees whose parents reported that the children had been disenrolled more than 12 months (112 cases), we collected only health and demographic information for these recent enrollees and excluded them from the analytic sample. Because the period being referenced was so distant, it is likely that many of the responses would have been inaccurate.
- 4. Unable to Provide Enrollment Information (N = 220). These sample members included established enrollees whose parents were unable to report when or whether their children had enrolled in SCHIP. As a result, they could not respond to further questions about insurance coverage, and interview questions were limited to basic

information on the children's health and demographic characteristics, and on the characteristics of the household.

The resulting analysis sample included 5,356 records, or about 92 percent of the overall sample of established enrollees, suggesting that any bias introduced by the sample exclusions would be modest. Moreover, the demographic features of the analytic sample and full sample proved to be very similar (see Table C.7).

b. Medicaid Sample

The full sample of established Medicaid enrollees included 922 records—394 in California and 528 in North Carolina. (Like the sample of SCHIP enrollees, this sample fell into four distinct categories, which were defined by the survey respondents' perception of their children's enrollment and disenrollment in Medicaid.) The analysis sample included 830 records, or about 90 percent of the full sample. As with the SCHIP sample, the characteristics of the full sample and analytic sample were very similar.

2. Recent-Enrollee Samples

We used the sample of SCHIP (and Medicaid) recent enrollees to obtain estimates of the access and use experiences of children prior to enrolling in SCHIP (or Medicaid). We expected that, for some cases within this sample, the enrollment and disenrollment dates reported in the survey would differ from those shown in the state files. As we described previously, we refined the survey instrument so that children sampled as recent enrollees whose parents reported different sample statuses than those indicated in the state files could be interviewed in the status perceived by the parent.

Variable	All Established Enrollees	Established Enrollees Used in Access and Use Analysis
Age of Child	2	
Age 0-5	19.3	19.3
Age 6-12	47.9	48.3
Age 13 and older	32.8	32.4
Age 15 and older	52.0	52.4
Child's Race		
Hispanic/Latino	49.2	49.3
White	32.0	32.1
Black	11.6	11.2
Asian	5.6	5.7
All other	1.7	1,.7
Child Has Elevated Health Care Needs	23.9	23.9
Child's Overall Health Is Fair or Poor	8.5	8.2
Child Has Asthma	15.4	15.2
Child Has Mental Health Condition	7.4	7.3
Child Has Weitar Health Condition	/	1.5
Household Structure		
Two parents/both working	28.4	28.7
Two parents/one working	33.4	33.4
Two parents/not working	2.8	2.8
One parent/working	30.8	30.7
One parent/not working	4.5	4.3
Highest Education Level of Parent(s)		
No GED or HS diploma	24.7	24.4
GED or HS diploma	35.0	35.0
Some college or college degree ^a	40.3	40.7
Household Income by FPL Range ^b	(7.0	CD 1
<150% FPL	67.9	68.1
150-199% FPL	23.1	22.9
>200%FPL	9.1	9.1
At Least One Parent Foreign Born	9.1	9.1
Main Language Spoken in Household		
Spanish	28.1	28.6
Other	4.6	4.7
Matropolitan Status		
Metropolitan Status (MSA)	86.3	86.3
	80.5 9.4	88.5 9.4
Adjacent to MSA	9.4 4.3	9.4 4.4
Non-MSA/Non-adjacent Sample Size (Weighted)	4.3	4.4
Sample Size (Unweighted)	5,797	5,394

CHARACTERISTICS OF ALL ESTABLISHED ENROLLEES AND ESTABLISHED ENROLLEES USED IN ACCESS AND USE ANALYSIS

Source: 2002 congressionally mandated survey of SCHIP enrollees and disenrollees in 10 states.

^aIncludes 2-year associate's degree and trade school.

^bHousehold income has a missing rate of 11 percent, which is considerably higher than missing rate for other variables cited.

FPL = Federal Poverty Level; GED = General Educational Development; MSA = Metropolitan Statistical Area.

a. SCHIP Sample

The full sample of recent SCHIP enrollees included 5,663 records, regardless of the reported enrollment and disenrollment dates. As shown in Table C.3, the sample fell into nine distinct categories, which were defined by the survey respondents' perception of when, and whether, their children had enrolled in SCHIP, and whether they had since disenrolled. Only the first category, consisting of those who had been enrolled in SCHIP for fewer than 12 months and had not since disenrolled, was included in the access and use analysis. Respondents in the remaining categories could not be included in the analysis because they did not report on the time frame of interest (the 6 months prior to enrolling).⁵

The resulting analytic sample included 3,095 records, or about 55 percent of the overall sample of recent SCHIP enrollees. Not surprisingly, differences between the full sample and the analytic sample of recent enrollees were a bit larger than were those for the sample of established enrollees. However, none of the *differences* was substantial, despite the relatively significant sample loss (see Table C.8). The most notable difference was the age of the recent enrollees, who were more likely to be under age 5 and less likely to be over age 13 in the analytic sample than in the full sample. A child in the analytic sample was also somewhat more likely to be Hispanic or Latino, and less likely to be black.

b. Medicaid Sample

The full sample for the Medicaid analysis of recent enrollees includes 911 records—408 in California and 503 in North Carolina. However, the analytic sample was considerably smaller,

⁵ For example, in the case of children enrolled in SCHIP since birth, parents could not report on the children's experiences prior to SCHIP because the children did not have any. Similarly, children reported to be covered for more than a year (despite being sampled as recent enrollees) were interviewed as established enrollees, and thus information was obtained on those children's most recent 6 months in the program.

Variable	All Recent Enrollees	Recent Enrollees Used in Access and Use Analysis
Age of Child		
Age 0-5	27.5	31.2
Age 6-12	46.1	44.3
Age 13 and older	26.4	24.5
Child's Race		
Hispanic/Latino	48.6	51.5
White	29.9	29.5
Black	13.7	11.2
Asian	5.8	5.9
All other	2.0	1.9
Child Has Elevated Health Care Need	23.7	22.5
Child's Overall Health Is Fair or Poor	8.3	8.1
Child Has Asthma	14.8	13.0
Child Has Mental Health Condition	8.0	6.7
Household Structure		
Two parents/both working	28.7	29.4
Two parents/one working	31.0	33.1
Two parents/not working	2.2	2.1
One parent/working	32.7	30.0
One parent/not working	5.4	5.4
Highest Education Level of Parent(s)		
No GED or HS diploma	21.2	21.2
GED or HS diploma	34.6	32.7
Some college or college degree ^a	44.2	46.1
Household Income by FPL Range ^b		
<150% FPL	71.4	69.1 20.0
150-199% FPL	18.1	20.9
>200%FPL	10.4	10.0
At Least One Parent Foreign Born	44.3	46.3
Main Language Spoken in Household		
Spanish	28.8	30.3
Other	4.3	4.5
Metropolitan Status		
(MSA)	86.1	86.0
Adjacent to MSA	9.2	9.7
Non-MSA/Non-Adjacent	4.7	4.4
Sample Size (Weighted)	183,156	103,060
Sample Size (Unweighted)	5,663	3,095

CHARACTERISTICS OF ALL RECENT ENROLLEES AND RECENT ENROLLEES USED IN THE ACCESS AND USE ANALYSIS

Source: 2002 congressionally mandated survey of SCHIP enrollees and disenrollees in 10 states.

^aIncludes 2-year associate's degree and trade school.

^bHousehold income has a missing rate of 11 percent, which is considerably higher than other variables cited.

FPL = Federal Poverty Level; GED = General Educational Development; MSA = Metropolitan Statistical Area.

with 144 records in California and 188 in North Carolina. These large differences were driven mainly by the sizable share of recent Medicaid enrollees who obtained coverage at birth (roughly one-third of the total sample).⁶ These children could not be used in the analysis because they did not have access experiences prior to enrolling in the program. Differences between the analytic sample and the full sample were larger than the differences seen for the SCHIP samples, which was not surprising, given the small fraction of cases that could be used (Table C.9).

3. Disenrollee Sample

The disenrollee sample was used in a limited way in the access and use analyses to conduct sensitivity analyses. The analytic sample included 3,813 records, or about 72 percent of the full sample of recent disenrollees. The largest excluded group had parents who reported in the survey that their children were disenrolled for more than 12 months. (These respondents were not asked about their children's access and utilization experiences.) Differences between the analytic sample and the full sample were generally modest.

4. Outcome Measures

To analyze the access and use experiences of SCHIP established enrollees, we constructed a set of outcome measures from the survey items. These variables included measures of service use, unmet needs, parental stress and attitudes, the presence of and type of usual source of care, and characteristics of health care provider communication and accessibility. Table C.10 provides a summary of these variables, including any sample restrictions, sample sizes, and notes on the variables' creation. Each of these variables is based on related questions from the sections of the survey on access, use, satisfaction, and unmet need (see Table C.2).

⁶ As described in Appendix B, the Medicaid sample was limited to children in the poverty-expansion and TANF-related eligibility groups in order to make it as comparable as possible to the SCHIP sample.

Recent Medicaid Access and Use All Recent Medicaid Access Enrollees Enrollees Analysis All Recent Medicaid Access Enrollees Enrollees Analysis Age of Child Age of 2 56.5 45.8 58.6 40 Age of 2 27.9 35.5 23.8 35 Age 13 and older 15.6 18.6 17.6 24 Child's Race Hispanic/Latino 75.7 70.4 14.9 10 White 10.2 14.0 45.7 51 Black 5.0 6.1 30.8 31 Asian 5.5 6.3 1.7 1 All other 3.7 3.3 6.9 5 Child Has Elevated Health Care Needs 20.2 17.1 20.0 20 Child Has Asthma 8.8 12.0 7.5 7.4 6 Child Has Asthma 8.8 12.0 7.4 8 Household Structure Two parents/both working 19.0 18.0 17.2 16 Two parents/both working 15.6		C	California	North	n Carolina
Age 0-5 56.5 45.8 58.6 40 Age 6-12 27.9 35.5 23.8 35 Age 13 and older 15.6 18.6 17.6 24 Child's Race Hispanic/Latino 75.7 70.4 14.9 10 White 10.2 14.0 45.7 51 Black 5.0 6.3 1.7 1 All other 3.7 3.3 6.9 55 Child Has Elevated Health Care Needs 20.2 17.1 20.0 20 Child Has Stathma 8.8 12.0 10.4 14 Child Has Stathma 19.0 18.0 17.2 16 Two parents/one working 19.0 18.0 17.2 16 Two parents/one working 15.6 17.1 <t< th=""><th>Variable</th><th>Recent Medicaid</th><th>Enrollees Used in Access and Use</th><th>Medicaid</th><th>Recent Medicaid Enrollees Used in Access and Use Analysis</th></t<>	Variable	Recent Medicaid	Enrollees Used in Access and Use	Medicaid	Recent Medicaid Enrollees Used in Access and Use Analysis
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Child's Race Hispanic/Latino 75.7 70.4 14.9 10 White 10.2 14.0 45.7 51 Black 5.0 6.1 30.8 31 Asian 5.5 6.3 1.7 1. All other 3.7 3.3 6.9 5 Child Has Elevated Health Care Needs 20.2 17.1 20.0 20 Child's Overall Health Is Fair or Poor 12.0 7.5 7.4 6 Child Has Mental Health Condition 4.5 5.5 7.4 8 Household Structure Two parents/both working 19.0 18.0 17.2 16 Two parents/both working 19.0 18.0 2.6 3 One parent/working 25.3 28.8 39.9 44 One parent/working 15.6 17.1 15.1 13 Highest Education Level of Parent(s) No GED or HS diploma 30.6 35.7 37.8 39 Some college or college degree ^a 25.9 32.0 37.6 39 Household Income by FPL Range ^b $< 150.4 190^{K}FPL 5.0 4.5 11.6 155$ At Least One Parent Foreign Born 66.6 60.3 17.9 15 Main Language Spoken in Household Spanish 55.0 37.2 11.6 8 Other 5.2 8.2 1.0 0 Metropolitan Status (MSA) 96.1 96.1 69.7 69 Adjacent to MSA 3.8 3.5 21.8 23	Age 6-12	27.9	35.5	23.8	35.3
Hispanic/Latino 75.7 70.4 14.9 10 White 10.2 14.0 45.7 51 Black 5.0 6.1 30.8 31 Asian 5.5 6.3 1.7 1 All other 3.7 3.3 6.9 55 Child Has Elevated Health Care Needs 20.2 17.1 20.0 20 Child Soverall Health Is Fair or Poor 12.0 7.5 7.4 6 Child Has Asthma 8.8 12.0 10.4 14 Child Has Asthma 8.8 12.0 10.4 14 Child Has Mental Health Condition 4.5 5.5 7.4 8 Household Structure Two parents/both working 19.0 18.0 17.2 16 Two parents/both working 19.0 18.0 2.6 3 0ne parent/working 25.3 28.8 39.9 44 One parent/working 15.6 17.1 15.1 13 13 Highest Education Level of Parent(s) No GED or HS diploma 30.6 35.7 37.8 39	Age 13 and older	15.6	18.6	17.6	24.3
White 10.2 14.0 45.7 51 Black 5.0 6.1 30.8 31. Asian 5.5 6.3 1.7 1 All other 3.7 3.3 6.9 5 Child Has Elevated Health Care Needs 20.2 17.1 20.0 20 Child S Overall Health Is Fair or Poor 12.0 7.5 7.4 6 Child Has Asthma 8.8 12.0 10.4 14 Child Has Asthma 8.8 12.0 10.4 14 Child Has Mental Health Condition 4.5 5.5 7.4 6 Household Structure Two parents/one working 19.0 18.0 17.2 16 Two parents/one working 19.0 18.0 2.6 3 3 One parent/not working 15.6 17.1 15.1 13 Highest Education Level of Parent(s) No GED or HS diploma 43.5 32.3 24.6 20 No GED or HS diploma 30.6 35.7	Child's Race				
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Asian 5.5 6.3 1.7 1 All other 3.7 3.3 6.9 5 Child Has Elevated Health Care Needs 20.2 17.1 20.0 20 Child's Overall Health Is Fair or Poor 12.0 7.5 7.4 6 Child Has Asthma 8.8 12.0 10.4 14 Child Has Asthma 8.8 12.0 10.4 14 Child Has Mental Health Condition 4.5 5.5 7.4 8 Household Structure Two parents/one working 19.0 18.0 17.2 16 Two parents/one working 19.0 18.0 2.6 3 3 0ne parent/working 15.6 17.1 15.1 13 Highest Education Level of Parent(s) No GED or HS diploma 30.6 35.7 37.8 39 Some college or college degree ^a 25.9 32.0 37.6 39 Household Income by FPL Range ^b -11.6 10.6 11 At Least One Parent Foreign Born 66.6 60.3 17.9 15 Main Language Spoken in Household	-	10.2	14.0	45.7	51.0
All other 3.7 3.3 6.9 5 Child Has Elevated Health Care Needs 20.2 17.1 20.0 20.0 Child S Overall Health Is Fair or Poor 12.0 7.5 7.4 6 Child Has Asthma 8.8 12.0 7.5 7.4 6 Child Has Mental Health Condition 4.5 5.5 7.4 8 Household Structure Two parents/both working 19.0 18.0 17.2 16 Two parents/not working 34.6 31.8 25.2 211 Two parents/not working 19.0 18.0 2.6 3 One parent/working 25.3 28.8 39.9 44 One parent/working 15.6 17.1 15.1 13 Highest Education Level of Parent(s) 80.6 35.7 37.8 39 No GED or HS diploma 30.6 35.7 37.8 39 Some college or college degree ^a 25.9 32.0 37.6 39 Household Income by FPL Range ^b <15.0	Black	5.0	6.1	30.8	31.9
Child Has Elevated Health Care Needs 20.2 17.1 20.0 20 Child Has Overall Health Is Fair or Poor 12.0 7.5 7.4 6 Child Has Asthma 8.8 12.0 10.4 14 Child Has Mental Health Condition 4.5 5.5 7.4 8 Household Structure Two parents/one working 19.0 18.0 17.2 16 Two parents/one working 19.0 18.0 17.2 16 Two parents/one working 19.0 18.0 2.6 3 One parent/working 15.6 17.1 15.1 13 Highest Education Level of Parent(s) No GED or HS diploma 43.5 32.3 24.6 20 Moe parent/working 25.9 32.0 37.6 39 Household Income by FPL Range ^b 2.4 3.1 10.6 11. 5.0 4.5 11.6 15. >200% FPL 2.4 3.1 10.6 11. At Least One Parent Foreign Born 66.6	Asian	5.5	6.3	1.7	1.2
Child's Overall Health Is Fair or Poor 12.0 7.5 7.4 6 Child Has Asthma 8.8 12.0 10.4 14 Child Has Asthma 8.8 12.0 10.4 14 Child Has Mental Health Condition 4.5 5.5 7.4 8 Household Structure Two parents/both working 19.0 18.0 17.2 16 Two parents/both working 19.0 18.0 2.6 3 0ne parent/working 25.3 28.8 39.9 44 One parent/working 15.6 17.1 15.1 13 13 Highest Education Level of Parent(s) No GED or HS diploma 30.6 35.7 37.8 39 Some college or college degree ^a 25.9 32.0 37.6 39 Household Income by FPL Range ^b 2.4 3.1 10.6 11 At Least One Parent Foreign Born 66.6 60.3 17.9 15 Main Language Spoken in Household Spanish 55.0 37.2 11.6 8 Other 5.2 8.2 1.0 0 0<	All other	3.7	3.3	6.9	5.9
Child Has Asthma 8.8 12.0 10.4 14 Child Has Mental Health Condition 4.5 5.5 7.4 8 Household Structure Two parents/both working 19.0 18.0 17.2 16 Two parents/not working 19.0 18.0 2.5.2 21 Two parents/not working 19.0 18.0 2.6 3 One parent/working 15.6 17.1 15.1 13 Highest Education Level of Parent(s) No GED or HS diploma 43.5 32.3 24.6 200 No GED or HS diploma 30.6 35.7 37.8 39 39 Some college or college degree ^a 25.9 32.0 37.6 39 Household Income by FPL Range ^b 2.4 3.1 10.6 11 At Least One Parent Foreign Born 66.6 60.3 17.9 15 Main Language Spoken in Household 55.0 37.2 11.6 8 Other 5.2 8.2 1.0 0 Metropolitan Status 96.1 96.1 69.7 69 (MSA) <td>Child Has Elevated Health Care Needs</td> <td>20.2</td> <td>17.1</td> <td>20.0</td> <td>20.6</td>	Child Has Elevated Health Care Needs	20.2	17.1	20.0	20.6
Child Has Mental Health Condition 4.5 5.5 7.4 8 Household Structure Two parents/both working 19.0 18.0 17.2 16 Two parents/both working 34.6 31.8 25.2 21 Two parents/not working 19.0 18.0 2.6 3 One parent/working 25.3 28.8 39.9 44 One parent/not working 15.6 17.1 15.1 13 Highest Education Level of Parent(s) No GED or HS diploma 43.5 32.3 24.6 20 No GED or HS diploma 30.6 35.7 37.8 39 Some college or college degree ^a 25.9 32.0 37.6 39 Household Income by FPL Range ^b 2.6 92.4 77.9 73 $< 150\%$ FPL 2.6 92.4 77.9 73 $>200\%$ FPL 2.4 3.1 10.6 11 At Least One Parent Foreign Born 66.6 60.3 17.9 15.0 Main Language Spoken in Household 55.0 <td>Child's Overall Health Is Fair or Poor</td> <td>12.0</td> <td>7.5</td> <td>7.4</td> <td>6.6</td>	Child's Overall Health Is Fair or Poor	12.0	7.5	7.4	6.6
Household Structure 19.0 18.0 17.2 16 Two parents/both working 34.6 31.8 25.2 21 Two parents/not working 19.0 18.0 2.6 3 One parent/working 25.3 28.8 39.9 44 One parent/not working 15.6 17.1 15.1 13 Highest Education Level of Parent(s) No GED or HS diploma 43.5 32.3 24.6 20 Mosehold Income by FPL Range ^b 25.9 32.0 37.6 39 Household Income by FPL Range ^b 2.4 77.9 73 150-199% FPL 5.0 4.5 11.6 15 >200% FPL 2.4 3.1 10.6 11 At Least One Parent Foreign Born 66.6 60.3 17.9 15 Main Language Spoken in Household 55.0 37.2 11.6 8 Other 5.2 8.2 1.0 0 Metropolitan Status (MSA) 96.1 96.1 69.7 69 Adjacent to MSA 3.8 3.5 21.8 23<	Child Has Asthma	8.8	12.0	10.4	14.3
Two parents/both working19.018.017.216Two parents/one working34.631.825.221Two parents/one working19.018.02.63One parents/not working25.328.839.944One parent/not working15.617.115.113Highest Education Level of Parent(s)No GED or HS diploma43.532.324.620GED or HS diploma30.635.737.839Some college or college degree ^a 25.932.037.639Household Income by FPL Range ^b 2.43.110.611 $< 150\%$ FPL92.692.477.973 $>200\%$ FPL2.43.110.611At Least One Parent Foreign Born66.660.317.915Main Language Spoken in Household55.037.211.68Spanish55.037.2100Metropolitan Status(MSA)96.196.169.769Adjacent to MSA3.83.521.823	Child Has Mental Health Condition	4.5	5.5	7.4	8.4
Two parents/one working 34.6 31.8 25.2 $21.$ Two parents/not working 19.0 18.0 2.6 3.0 One parent/working 25.3 28.8 39.9 44 One parent/not working 15.6 17.1 15.1 13 Highest Education Level of Parent(s)No GED or HS diploma 43.5 32.3 24.6 20.0 GED or HS diploma 30.6 35.7 37.8 39.9 Some college or college degree ^a 25.9 32.0 37.6 39.9 Household Income by FPL Range ^b 24.6 20.0 37.6 39.9 43.5 32.0 37.6 39.9 Household Income by FPL Range ^b 25.9 32.0 37.6 39.9 45.5 11.6 15.5 >200% FPL 5.0 4.5 11.6 15.5 >200% FPL 2.4 3.1 10.6 11.6 At Least One Parent Foreign Born 66.6 60.3 17.9 15.6 Main Language Spoken in Household 55.0 37.2 11.6 8.6 Other 5.2 8.2 1.0 0.0 Metropolitan Status (MSA) 96.1 96.1 69.7 69.7 Adjacent to MSA 3.8 3.5 21.8 23.9	Household Structure				
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One parent/not working15.617.115.113Highest Education Level of Parent(s) 43.5 32.3 24.6 20No GED or HS diploma 30.6 35.7 37.8 39Some college or college degree ^a 25.9 32.0 37.6 39Household Income by FPL Range ^b 2150% FPL 92.6 92.4 77.9 73 $< 150\%$ FPL 5.0 4.5 11.6 15 $> 200\%$ FPL 2.4 3.1 10.6 11 At Least One Parent Foreign Born 66.6 60.3 17.9 15 Main Language Spoken in Household 55.0 37.2 11.6 8 Other 5.2 8.2 1.0 0 Metropolitan Status (MSA) 96.1 96.1 69.7 69 Adjacent to MSA 3.8 3.5 21.8 23		19.0	18.0	2.6	3.9
Highest Education Level of Parent(s) No GED or HS diploma 43.5 32.3 24.6 $20.00000000000000000000000000000000000$					44.6
No GED or HS diploma 43.5 32.3 24.6 20.6 GED or HS diploma 30.6 35.7 37.8 39.9 Some college or college degree ^a 25.9 32.0 37.6 39.9 Household Income by FPL Range ^b $77.973.150.199\% FPL5.04.511.615.20\% FPL< 200\% FPL2.43.110.611.1611.1611.16At Least One Parent Foreign Born66.660.317.915.0Main Language Spoken in Household55.037.211.68.2Other5.28.21.00.16Metropolitan Status(MSA)96.196.169.769.7Adjacent to MSA3.83.521.823.9$	One parent/not working	15.6	17.1	15.1	13.5
GED or HS diploma 30.6 35.7 37.8 $39.$ Some college or college degree ^a 25.9 32.0 37.6 $39.$ Household Income by FPL Range ^b $92.692.477.973.< 150\% FPL92.692.477.973.150-199\% FPL5.04.511.615.>200\% FPL2.43.110.611.At Least One Parent Foreign Born66.660.317.915.Main Language Spoken in Household55.037.211.68.Other5.28.21.00.Metropolitan Status(MSA)96.196.169.769.7Adjacent to MSA3.83.521.823.$					
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Household Income by FPL Range ^b 92.6 92.4 77.9 73. 150-199% FPL 5.0 4.5 11.6 15. >200% FPL 2.4 3.1 10.6 11. At Least One Parent Foreign Born 66.6 60.3 17.9 15. Main Language Spoken in Household 55.0 37.2 11.6 8 Other 5.2 8.2 1.0 0 Metropolitan Status 96.1 96.1 69.7 69.7 Adjacent to MSA 3.8 3.5 21.8 23.					39.8
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150-199% FPL 5.0 4.5 11.6 15 >200% FPL 2.4 3.1 10.6 11 At Least One Parent Foreign Born 66.6 60.3 17.9 15 Main Language Spoken in Household 55.0 37.2 11.6 8 Other 5.2 8.2 1.0 0 Metropolitan Status 96.1 96.1 69.7 69.7 Adjacent to MSA 3.8 3.5 21.8 23.8					
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At Least One Parent Foreign Born66.660.317.915.9Main Language Spoken in Household Spanish55.037.211.68Other5.28.21.00Metropolitan Status (MSA)96.196.169.769.7Adjacent to MSA3.83.521.823.9					15.0
Main Language Spoken in Household 55.0 37.2 11.6 8 Other 5.2 8.2 1.0 0 Metropolitan Status 96.1 96.1 69.7 69.7 Adjacent to MSA 3.8 3.5 21.8 23.8	>200% FPL	2.4	3.1	10.6	11.3
Spanish 55.0 37.2 11.6 8 Other 5.2 8.2 1.0 0 Metropolitan Status (MSA) 96.1 96.1 69.7 69.3 Adjacent to MSA 3.8 3.5 21.8 23.3	At Least One Parent Foreign Born	66.6	60.3	17.9	15.7
Spanish 55.0 37.2 11.6 8 Other 5.2 8.2 1.0 0 Metropolitan Status (MSA) 96.1 96.1 69.7 69.7 Adjacent to MSA 3.8 3.5 21.8 23.8	Main Language Spoken in Household				
Metropolitan Status 96.1 96.1 69.7 69.7 Adjacent to MSA 3.8 3.5 21.8 23.8	Spanish				8.1
(MSA)96.196.169.769.7Adjacent to MSA3.83.521.823.7	Other	5.2	8.2	1.0	0.6
Adjacent to MSA 3.8 3.5 21.8 23.5		0.5.1	0.6.1	<i>c</i> c 7	<0 7
					69.7
INOII-MISA/INOII-Adjacent U.1 U.4 8.5 6.					23.6
Sample Size (Weighted) 40,516 13,677 28,862 9,814					6.7 9,814
		-			188

CHARACTERISTICS OF RECENT ENROLLEES IN THE MEDICAID SAMPLE AND RECENT ENROLLEES USED IN THE ACCESS AND USE ANALYSIS OF MEDICAID SAMPLE

Source: 2002 congressionally mandated survey of SCHIP enrollees and disenrollees in 10 states.

^aIncludes 2-year associate's degree and trade school.

^bHousehold income has a missing rate of 11 percent, which is considerably higher than other variables cited.

FPL = Federal Poverty Level; GED = General Educational Development; MSA = Metropolitan Statistical Area.

Outcome	Variable	Sample Restriction	Notes on Variable Creation	Sample Size ^a
Service Use	Any physician visit	All children	Any visit to a doctor or other health care professional such as a PA, nurse, or midwife. Excludes visits to doctors or health care professionals seen for mental health condition or behavioral problems ^b	5,336
	Any well-child visit	All children	Saw a doctor or health care professional for preventive care, such as a checkup or well-child visit	5,312
	Dental care	Children 3 years and older	Went to a dentist or dental hygienist for a checkup or cleaning	5,059
	Any mental health visit	All children	Saw or talked to a mental health professional, such as a psychiatrist, psychologist, psychiatric nurse, or clinical social worker	5,337
	Any specialist visit	All children	Saw a specialist such as an allergy specialist, ear/ nose/throat specialist, or other doctor who takes care of special parts of the body	5,319
	Any specialist or mental health visit	All children	Received a specialist visit, a mental health visit, or both	5,317
	Any hospital visit	All children	Stayed in hospital. Excludes hospital stays related to birth	5,351
	Any ER visit	All children	Visited a hospital ER. Excludes times for hospital admission through ER	5,348
Unmet Need	Doctor/other health professional services		At least one time child did not get, or postponed getting, care from a regular doctor or other health care professional for illness, accident, or injury when respondent thought child needed it	5,324
	Dental care	Children 3 years and older	At least one time child did not get, or postponed getting, dental care when respondent thought child needed it	5,053
	Specialist care	All children	At least one time child did not get, or postponed getting, specialist care when respondent thought child needed it	5,321
	Hospital care	All children	At least one time child did not get, or postponed getting, hospital care when respondent thought child needed it.	5,318

SAMPLE DEFINITIONS AND SIZES FOR THE ACCESS AND SERVICE USE MEASURES

		Sample		Sample
Outcome	Variable Prescription drugs	Restriction All children	Notes on Variable Creation At least one time child did not get, or postponed getting, a prescription drug when respondent thought child needed it or at least one time that child took less than recommended dosage of prescription drug or took the drug less frequently so that it would last longer	<u>Size</u> ^a 5,315
	Any of the above services (excluding dental)	All children	Had unmet need for doctor services, specialist care, hospital care, or prescription drugs	5,310
	Any of the above services (including dental)	All children	Had unmet need for doctor services, specialist care, hospital care, prescription drugs, or dental care	5,289
	More than one unmet need	All children	Had unmet need for at least two of the following categories: doctor services, specialist care, hospital care, prescription drugs, or dental care	5,307
Attitudes and Stress	Very confident about ability to meet child's health care needs	All children	Respondent "very confident" child could get health care if child needed it ^c	5,307
	Not stressed about ability to meet child's health care needs	All children	Respondent "a lot" or "somewhat" stressed about meeting child's health care needs ^d	5,289
	Not worried about ability to meet child's health care needs	All children	Respondent "a lot" or "somewhat" worried about meeting child's health care needs ^d	5,299
	Child's health care needs do not cause financial hardship	All children	Respondent reports "a lot" or "somewhat" of the time child's health care needs created financial difficulties ^d	5,303
	Children on SCHIP/Medicaid get better health care than the uninsured	All children	Respondent said statement "Children on SCHIP/Medicaid get better health care than children with no insurance" is either "definitely true or "mostly true." ^e	5,052
	Doctors and nurses look down on SCHIP enrollees	All children	Respondent said statement "Doctors and nurses look down on people who are in (SCHIP/MEDICAID)" is either "definitely true or "mostly true." ^e	5,124

Outcome	Variable	Sample Restriction	Notes on Variable Creation	Sample Size ^a
Presence and Type of Usual Source of Care	Has a usual source for health care that is not an ER	All children	Usually went to, or would have gone to, a particular doctor's office, clinic, health care center, hospital, or other place if child were sick or needed advice about child's health. Respondents who cited ER as a usual source of care coded as not having a USC	5,370
	Usual source is a private doctor's office or group practice	Child has USC ^f	USC a private doctor's office or group practice	4,926
	Usual source is a clinic or health center	Child has USC ^f	USC a clinic or health center	4,926
	Usually sees same provider at usual source of care	Child has USC ^f	Child usually saw a particular doctor or other health provider at USC	4,899
	Has a usual source for dental care	Children 3 years and older	Usually went to, or would have gone to, a particular dentist's office or clinic if child needed to see a dentist or dental hygienist for checkup, cleaning, or other dental procedure	5,046
Provider Communication and Accessibility	Would recommend usual source to others	Child has USC ^f	Respondent reported "yes."	
	Could reach provider after hours	Child has USC ^f	If USC (above) closed and child got sick, respondent could reach and talk to a doctor or other health care professional from USC about the child's condition	4,619
	Provider explained things in understandable ways	Child has USC and received care ^g	Respondent reported that doctors or other health care providers "always" or "usually" explained things in understandable way ^h	3,827
	Provider treated with courtesy and respect		Respondent reported that doctors or other health care providers "always" or "usually" treated respondent and child with courtesy and respect. ^h	3,826
	Provider asked about how child was feeling and growing	and received	Respondent reported doctors or other health care providers "always" or "usually" talked about how child was feeling, growing, and behaving. ^h	3,825

Outcome	Variable	Sample Restriction	Notes on Variable Creation						
	Rated ease of getting care as very good or excellent		Respondent rated ease of getting medical care when child was sick or had an accident as "excellent or "very good." ⁱ	3,795					
	Waiting time was less than 30 minutes for appointments	Child has USC and received care ^g	If arrived on time for appointment, usually had to wait less than 30 minutes for medical care	4,995					
	Travel time was less than 30 minutes	Child has USC ^j	Usually took less than 30 minutes to travel to usual source of care	5,011					
Source:	2002 congressionally mandate	ed survey of SCHI	P enrollees and disenrollees in 10 states.						
Notes:	The reference period is the 6 months prior to the interview. Sample sizes vary due to sample restrictions and missing data.								
	zes reflect the records for estab responses to individual survey of		hly. They varied both because of listed restrictions on the	ne sample					
	1 0	-							
	bles refer to the prior 6 months.	•							
^b All variab	-	-	ent," and "not at all confident."						
^b All variab	bles refer to the prior 6 months.	," "not very confid	ent," and "not at all confident."						
^b All variat ^c Other cho ^d Other cho	bles refer to the prior 6 months.	," "not very confid ill."	ent," and "not at all confident."						
^b All variab	bles refer to the prior 6 months. nices were "somewhat confident, nices were "a little" and "not at a	" "not very confid ill." "mostly false."	ent," and "not at all confident."						
^b All variab ^c Other cho ^d Other cho ^e Other cho ^f Includes t	bles refer to the prior 6 months. ices were "somewhat confident, bices were "a little" and "not at a bices were "definitely false" and	" "not very confid ll." "mostly false." JSC.							
^b All variab ^c Other cho ^d Other cho ^e Other cho ^f Includes t	bles refer to the prior 6 months. bices were "somewhat confident, bices were "a little" and "not at a bices were "definitely false" and hose who reported ER as their U	" "not very confid Il." "mostly false." JSC. use, regardless of v							
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^b All variab ^c Other cho ^d Other cho ^e Other cho ^f Includes t ^g Excludes ^h Other cho ⁱ Other cho	bles refer to the prior 6 months. bices were "somewhat confident, bices were "a little" and "not at a bices were "definitely false" and hose who reported ER as their U those who reported ER on their bices were "sometimes" and "new	" "not very confid ill." "mostly false." JSC. use, regardless of ver." oor."							

D. ANALYSIS OF DISENROLLEE EXPERIENCES

This section discusses the study methodology used for the analysis of SCHIP disenrollees, which is presented in Chapters I and V of the report. We begin by describing the samples used to conduct the analysis. We then discuss the methods used to analyze the experiences of SCHIP disenrollees, focusing in particular on how we measured disenrollees' insurance coverage after leaving the program.

1. Disenrollee Sample

Similar to the other sample domains for the study, the disenrollee sample was designed so that it could be generalized to all children identified on the 10 state files as having recently disenrolled from SCHIP at the time of sampling (spring 2002).⁷ For some disenrollees in this sample, we expected the disenrollment experiences reported in the survey to differ markedly from what was shown on the state files, and that, as a result, we would have to be flexible in conducting the interview. For example, we anticipated that some disenrollees might report still remaining in SCHIP (for a long period) because they had transitioned "seamlessly" to Medicaid and had not observed the transfer, or because they had experienced only a short gap in SCHIP coverage that went unnoticed (during which we had sampled them as recent disenrollees). In order to collect useful information for these cases, the sampled children (if reporting enrollments of 6 months or more) were interviewed as established enrollees, rather than as disenrollees. As discussed below, this approach added complexity to the construction of key outcomes; however,

⁷ A sample of Medicaid disenrollees in two states, California and North Carolina, was also surveyed for this study. However, due to a combination of low response rates for the sampled disenrollees and the sampled disenrollees' very low rates of recognition that they had actually been disenrolled (particularly in California), we did not present analyses of the Medicaid disenrollee sample in the survey report.

it also yielded the most credible estimates possible, given the confusion of some families about whether they had left the program.

The overall sample for the disenrollee analysis included 5,320 records. These observations fell into five groups that were defined by the survey respondents' perception of when, and whether, their children had disenrolled from SCHIP. These groups are important because they determined the type of survey information that we collected on a given disenrollee. The following list summarizes the five groups and the specific outcomes that were analyzed for each one:

- 1. Disenrolled for Fewer than 12 Months (N = 2,051). These sample members provided disenrollment dates that were similar to the ones indicated on the state enrollment files, thus increasing the reliability of their reported disenrollment information. We therefore asked these sample members a full series of questions about their disenrollment experiences, including their reasons for exit, the type of coverage that they obtained after leaving SCHIP, and their reasons for being uninsured after exit (if applicable).
- 2. Enrolled for 6 or More Months (N = 1,762). Since the respondents in this group did not perceive their children as having recently disenrolled (in fact, many reported never having disenrolled), we interviewed them as if the children were established enrollees. We therefore collected a full range of information on their demographic characteristics and their program experiences, but we did not collect information about their recent disenrollment experiences.
- 3. Disenrolled for More than 12 Months, Recontacted (N = 563). We initially considered data from these respondents to be unreliable because the states' reported disenrollment dates significantly preceded the ones on the enrollment files. As a result, we limited the data collection to basic information on the children's health and demographic characteristics, and on the characteristics of the household. Given the sheer number of disenrollees of this type, we decided to recontact them, and to ask a series of additional questions. Key additional questions asked about reasons for leaving SCHIP, the type of coverage that the respondents obtained after exit, and their household income.
- 4. Disenrolled for 12 Months or More, not Recontacted (N = 630). This group included disenrollees similar to ones in the third group, except that we were unable to reach them for a follow-up interview. The available data for this group were therefore limited to basic information on the children's health and demographic characteristics, and on the characteristics of the household.

5. Unable to Provide Disenrollment Information (N = 314). This group included disenrollees who failed to indicate when, or whether, they exited SCHIP. As a result, interview questions were limited to basic information on the children's health and demographic characteristics, and on the characteristics of the household.

Our analysis sample included the first three groups, resulting in a sample size of 4,321 records, or about 80 percent of the overall disenrollee sample.⁸ The last two groups were excluded from the analysis of disenrollee experiences because we lacked sufficient information to construct measures of their experiences either from the survey data or through imputation. Observed differences between the full sample and the analytic sample were generally modest (see Table C.11). Nevertheless, a nonresponse adjustment was applied to the analytic sample in order to reflect the experiences of *all* sample members reported to be disenrolled for more than 12 months (including those in the fourth category), rather than the experiences of only those who could be recontacted.⁹

2. Outcome Measures

The most important measure in the analysis of disenrollees' experiences was the type of insurance coverage after leaving SCHIP. The two other key measures we examined were the reported reason for leaving SCHIP and the reason for being uninsured after leaving (if

⁸A total of 55 sample members who were successfully recontacted were also dropped from the analysis because their self-reported exit dates were very different from the dates in the state files (by 24 months or more). As a result, the analytic samples were slightly smaller than the combined samples in the first three categories shown.

⁹ Based on data from the families who could be recontacted, many children reported to be disenrolled more than 12 months had switched to other coverage, and it appears that the families reported the exit dates of these children from SCHIP as the date of this switch, rather than the date that the state terminated the children's SCHIP coverage. Simply dropping from the analysis families who could not be recontacted would have therefore biased downward estimates of coverage after families left SCHIP (particularly private coverage) and would have biased upward estimates of uninsurance among SCHIP disenrollees. To address this potential source of bias, we applied a nonresponse adjustment that scaled up the sample weight for the disenrollees who could be recontacted to reflect the full population of disenrollees who reported exits more than 12 months prior to the dates recorded by the states. The adjustment was further refined to account for differences in demographic characteristics between families who could and who could not be recontacted.

	5.11.0	Sample Used in Analysis of SCHIP Disenrollee			
Variable	Full Sample	Experiences			
Age of Child					
0-5	20.4	18.1			
6-12	44.1	41.6			
13 and older	35.6	40.3			
Child's Race					
Hispanic/Latino	44.1	47.9			
White	15.4	13.6			
Black	33.7	30.9			
Asian	2.0	2.1			
All other	4.8	5.5			
All other	4.8	3.5			
Child's Overall Health Is Fair or Poor	10.2	10.3			
Child Has Asthma	15.4	15.0			
Child Has Mental Health Condition	6.8	5.7			
Household Structure					
Two parents/both working	27.0	27.0			
Two parents/one working	28.3	28.2			
Two parents/not working	3.1	3.1			
One parent/working	33.8	33.8			
One parent/not working	7.9	8.0			
Highest Education Level of Parent(s)	22.6	25.2			
No GED or HS diploma	22.6	25.3			
GED or HS diploma	35.7	37.3			
Some college or college degree ^a	41.7	37.4			
Household income by FPL range ^b					
<150% FPL	63.3	64.2			
150-199%FPL	15.3	15.6			
>200% FPL	12.7	11.7			
At Least One Parent Foreign Born	35.9	37.4			
Main Language Spoken in Household					
Spanish	24.0	24.0			
Other	3.1	3.9			
Metropolitan Status					
(MSA)	83.2	84.2			
Adjacent to MSA	10.4	9.2			
Non-MSA/Non-Adjacent	6.5	6.6			
Sample (weighted)	58,403	51,543			
Sample (unweighted)	5,320	4,321			

CHARACTERISTICS OF THE FULL SAMPLE OF SCHIP DISENROLLEES AND THE SAMPLE USED IN THE ANALYSIS OF SCHIP DISENROLLEE EXPERIENCES

Source: 2002 congressionally mandated survey of SCHIP enrollees and disenrollees in 10 states.

^aIncludes 2-year associate's degree and trade school.

^bHousehold income has a missing rate of 11 percent, which is considerably higher than other variables cited.

MSA = Metropolitan Service Area; NA = not available.

applicable). Development of these measures, particularly the measure of insurance coverage, was complex and required several steps.

3. Insurance Coverage

Our measure of insurance coverage for two groups of disenrollees—those who had exited within the past 12 months (N = 2,051) and those who had exited more than 12 months ago and were recontacted (N = 563)—was obtained directly from questions on the survey. The specific steps we took were as follows:

Based on responses to Questions 2.60 and 2.63, we determined how many months the disenrollee had been uninsured after leaving SCHIP. Each of these months was coded as uninsured. If the disenrollee reported being uninsured for the "whole period" since leaving SCHIP, all months between disenrollment and the interview date (up to month 6) were coded as uninsured.¹⁰

1. Based on responses to Questions 2.64 and 2.64.1, we then determined how many months the disenrollee had been insured after exit (or after the spell of uninsurance, if reported above). Each of these months was then coded as insured. If the disenrollee reported being insured for the whole period, all months between disenrollment (or the end of uninsurance spell) and the interview were coded as insured.¹¹

¹⁰For disenrollees interviewed within 6 months after leaving SCHIP, all months after the interview month (through month 6) were coded as missing. To understand how the loss of these cases might have biased our coverage estimates in later months, we compared the coverage of these disenrollees in the first month after leaving SCHIP with the coverage of those who reported on the full 6-month period (because they were interviewed 6 or more months after leaving the program). The distributions were very similar, suggesting that our estimates of insurance coverage among disenrollees 6 months after leaving SCHIP were biased little by the loss of sample.

¹¹As noted above, all remaining months for disenrollees interviewed less than 6 months after they had left SCHIP were coded as missing, as the disenrollees' insurance statuses for the remaining months were unknown. For the rare case interviewed after 6 months but providing less than 6 months of coverage information (the combination of the uninsured period and insured period), we coded the remaining months as other/unknown coverage. For the similarly rare case that reported SCHIP coverage without reporting any uninsurance spell in between, we coded the first month after exit as other/unknown coverage.

2. For the months coded as insured, the type of insurance was coded based on responses to Questions 2.65a through 2.65hw. For disenrollees reported to have more than one type of coverage, we chose the first reported type of coverage as given by Question 2.66.

After completing these three steps, the types of coverages were then collapsed into four categories: (1) SCHIP coverage;¹² (2) Medicaid coverage, including Medicaid health maintenance organizations (HMOs); (3) private coverage, which included coverage from a current or past employer/union and coverage from direct purchase of insurance; and (4) other/unknown coverage, which included Medicare, military coverage of any kind, coverage through the Indian Health Service, and any other type of coverage that could not be coded. Fewer than five percent of disenrollees in each state fell into the latter category.¹³

Because those who reported being covered by SCHIP for 6 or more months (N = 1,762) did not appear to recognize that they had been disenrolled from the program, the survey did not collect information about their coverage after exit. For most of these cases, the state files indicated either new spells of SCHIP coverage or Medicaid coverage in the first few months after disenrollment.¹⁴ This information suggests that most of the respondents did not recognize their exit either (1) because they experienced a short gap in SCHIP coverage that apparently

¹²SCHIP coverage was indicated most often by a response that the child was currently enrolled in SCHIP (Question 2.2). For these cases, the insurance questions—and the steps taken above to determine coverage—applied only to the intervening period between the reported SCHIP exit and the reported reentry. All months after the reentry were coded as SCHIP coverage. For disenrollees who were not reported to be in SCHIP, SCHIP coverage could also have been indicated by a "yes" response to Question 2.65.g ("Was [child] covered by SCHIP [during the time s/he had coverage]?").

¹³Only about three percent of disenrollees were reported to have more than one of the four types of coverage. The decision to assign coverage based on the first type reported thus had little effect on overall coverage estimates.

¹⁴Specifically, in the seven states in which both Medicaid and SCHIP enrollment data were available, 59 percent of these disenrollees transitioned to Medicaid with no break in coverage, and an additional 29 percent reentered SCHIP or transitioned to Medicaid within 6 months of leaving SCHIP. Both percentages were several times the rate found for other categories of disenrollees. This finding suggests that simply dropping these cases from the analysis would have led to very substantial underestimates of the extent of public coverage among SCHIP disenrollees, and to very substantial overestimates of the extent of uninsurance.

went unnoticed, or (2) because they experienced a "seamless" transition to the Medicaid program

that likewise appears to have been unrecognized. To retain these cases in the analysis, we drew

on the state SCHIP and Medicaid files and followed a four-step coverage imputation procedure:

- 1. Using the state SCHIP files, we looked at the 6 months after a child's exit and identified each month that the child was shown to be covered. These months were then coded as SCHIP coverage as if the respondent had self-reported them.
- 2. For the seven states for which we had Medicaid enrollment data (California, Florida, Illinois, Louisiana, Missouri, New Jersey, and North Carolina), we looked at the 6 months after the child's exit and identified each month that the child was shown to be covered by Medicaid. If these months had not been previously imputed as SCHIP in Step 1, they were coded as Medicaid as if the respondent had self-reported them.¹⁵
- 3. For the three states for which we did not have Medicaid enrollment data (Colorado, New York, and Texas), we imputed Medicaid coverage after disenrollment, using the sample of disenrollees from three "donor states" that also had separate SCHIP programs (California, Florida, and North Carolina). The imputation was carried out as follows:
 - We separated the disenrollees in the three donor states into groups based on their observed SCHIP coverage during the 6 months after exit.
 - Within each of these groups, we identified all of the possible scenarios of Medicaid coverage and calculated the frequency of each in the donor states.¹⁶ Each scenario was given a probability, p_s , equal to this frequency.
 - For each case subject to imputation, we determined the group to which it belonged based on the observed SCHIP coverage during the 6 months after exit. We then imputed the string of Medicaid coverage by selecting one of the possible scenarios identified in the previous step. The particular scenario chosen was based on the probability, p_s , assigned to it in relation to a random number between 0 and 1.

¹⁵ Overlap between SCHIP and Medicaid coverage during these months was trivial, and the decision to give SCHIP priority over Medicaid (rather than the reverse) had only a miniscule effect on the overall distribution of coverage.

¹⁶ For example, consider the group of disenrollees who showed no SCHIP coverage in the first 2 months after exit and then continual coverage from months 3 through 6. Within this group, four possible scenarios of Medicaid coverage were possible: (1) Medicaid coverage in both of the first 2 months, (2) Medicaid coverage in the first month but not the second, (3) Medicaid coverage in the second month but not the first, and (4) Medicaid coverage in neither month. Not surprisingly, the latter scenario was by far the most common for this group.

- 4. Any months that were not assigned SCHIP or Medicaid coverage based on the state files were imputed a value of either uninsured or private coverage. The imputation was performed as follows:¹⁷
 - If the disenrollee showed any SCHIP or Medicaid coverage during the 6-month period, the undetermined months between exit and coverage (if any) were coded as uninsured. This coding was based on the assumption that very few disenrollees who cycled off and back on public coverage in a short period would have obtained coverage in the intervening months.
 - All other undetermined months were imputed through regression. Using the subsample with valid self-reported data (category 1), we first constructed a dummy variable that equaled 1 if the disenrollee was privately insured in a given month *t*, and o if uninsured in month *t*. This dummy variable was then regressed on a series of covariates measuring key child and family demographics. Based on the coefficients from this model, we then generated the predicted probability of having private insurance in each undetermined month. This predicted value was then compared with a random digit generated between zero and one. If the predicted value was above the random digit, we coded the month as privately insured; it was below the random digit, we coded the month as uninsured.

For some cases, this imputation procedure was likely to assign a coverage type that was different from what would have been reported by the respondent in the survey (had it been possible to collect this information). However, in the aggregate, we expected this procedure to yield a distribution that would be consistent with self-reported data from the survey. To investigate the degree of consistency, we studied the sample of disenrollees in the first group (those who left SCHIP within the last 12 months), whom we expected to report reliably on coverage type after exit. We compared the coverage reported in the survey for this group with the coverage derived from imputation.

Results, shown in Table C.12, indicate similar distributions of coverage for this group of disenrollees whether based on the reported coverage or on the imputation procedure. For example, the percentage of disenrollees who were uninsured 6 months after exit was 56 percent

¹⁷ Fewer than four percent of the disenrollee sample was subject to this imputation, so that it had only a small effect on the reported distribution of coverage after program exit.

Type of Estimate		Total		Uninsured		Medicaid		SCHIP		Private	
Survey Self-Report		12,894	(100)	6,715	(52)	3,584	(28)	451	(3)	2,144	(17)
Imputation Procedure	Uninsured	6,982	(54)	4,175		1,478		200		1,129	
	Medicaid	3,080	(24)	1271		1,478		83		248	
	SCHIP	6,77	(5)	296		94		168		119	
	Private	2,155	(17)	973		534		0		648	

SENSITIVITY TO DATA SOURCE OF COVERAGE ESTIMATES AMONG RECENT DISENROLLEES

Source: 2002 congressionally mandated survey of SCHIP enrollees and disenrollees in 10 states linked with state SCHIP and Medicaid enrollment files.

Note: Numbers in parentheses are percentages. Estimates are based on the weighted sample of disenrollees who reported being disenrolled for 12 months or less from SCHIP. (The unweighted sample size is 2,011 disenrollees.) See text for details on how these estimates were calculated with the survey data and with the imputation.

based on the survey self-reports, and 58 percent based on the imputation. This consistency provided confidence that the imputation produced accurate overall estimates for the second group of disenrollees (who did not report their coverage because they believed they remained enrolled), leading to far more credible estimates than if we had simply dropped these cases.¹⁸

4. Reasons for Exit and Uninsurance

Our measures of reasons for disenrolling and for being uninsured after disenrolling are based on Questions 2.26 and 2.63, respectively. Responses to these questions were open-ended; they were coded into a long list of categories by the interviewers. If response did not fit any of the categories, the interviewers placed them in an "other specify" category and recorded them verbatim. Responses in this category were reviewed by the study team; most were then "backcoded" into existing categories. Subsequently, the response categories were reduced to a smaller number.

"Reasons for leaving SCHIP" were grouped into six categories.¹⁹ Disenrollees were considered more likely to remain eligible for SCHIP if their reasons fell into one of the following three categories:

- 1. *Failure to pay premium*, which included the original categories of "could not afford premium" and "forgot to pay premium"
- 2. *Failure to reapply*, which included the original categories "did not reapply" and "too much paperwork"

¹⁸As noted above, in the seven states for which we had both Medicaid and SCHIP data, 59 percent of these disenrollees transitioned to Medicaid with no break in coverage, and an additional 29 percent had reentered SCHIP or had transitioned to Medicaid within 6 months. Both percentages were several times the rate found for other categories of disenrollees. This finding suggests that simply dropping these cases from the analysis would have severely underestimated the extent of public health insurance among SCHIP disenrollees, and would have overestimated the share without insurance.

¹⁹Families who reported being enrolled for more than 6 months were assigned an additional classification of "family did not know they had exited."

3. *Other reasons,* which included such responses as "did not like doctors/clinic/staff where care provided," "did not like the quality of care," and "child does not get sick." Also included a small number of miscellaneous reasons

Disenrollees whose reasons fell into one of the following three groups were not likely to be

eligible for SCHIP:

- 1. *Child is too old*, which reflected a single category
- 2. *Eligible for other coverage*, which included the original categories of "child obtained Medicaid coverage" and "child obtained other insurance"
- 3. *Change in income or employment,* which reflected a single category ("financial situation changed/not qualified")

The categories for "reasons for being uninsured" were also collapsed into six groups. Those

who reasons fell into any of the following three groups were again considered possibly eligible

for SCHIP:

- 1. *Failure to pay premium,* which included the original categories of "forgot to pay premium" and "cannot afford premium"
- 2. Lack of access to affordable private coverage, which included the original categories of "parent(s) lost/changed job," "employer did not offer insurance," "employer stopped offering insurance," "parents got divorced/death of spouse," "benefits from former employer ran out," "no one in family employed," and "insurance costs too high"
- 3. *Failure to reapply*, which reflected a single category

The following three groups were considered not likely to be eligible for SCHIP:

- 1. *Child is too old*, which reflected a single category
- 2. *Eligible for other coverage*, which reflected a single category
- 3. *Other reasons*, which included "did not like health insurance employer offers" and "needed to be uninsured to be eligible." Also included a few miscellaneous responses

E. ANALYSIS OF COVERAGE PRIOR TO ENROLLMENT, PARENTAL INSURANCE STATUS, AND SUBSTITUTION

This section discusses the methodology used for the analyses of the relationships among SCHIP, private coverage, and uninsured periods among recent and established enrollees, which are presented in Chapters I and VI of the main report. Methods were identical for estimates of substitution among established Medicaid enrollees presented in Chapter VIII, except where noted. Sample sizes given in the text were based on the analyses of SCHIP enrollees. We begin this section by describing the analytic samples and the cases excluded from the analysis of prior insurance coverage among recent enrollees. We then describe the methodology used to assign prior coverage to the recent-enrollee analytic sample. In the third section, we describe the methodology used to classify reasons reported by parents for ending private coverage, and for enrolling their children in SCHIP. Finally, we describe the sample used for the analysis of substitution among established enrollees, and the methods used to classify children based on their parents' coverage.

1. Analytic Sample of Recent SCHIP Enrollees

Our analysis focused on the entire sample of recent enrollees so that we could generalize estimates to all children in the 10 states who had recently enrolled in SCHIP at the time of sampling (spring 2002). As with the other analyses, we expected that this focus would present some challenges for the analysis because the enrollment dates for some children reported in the survey would differ from the dates in the state files. For example, some parents of enrollees might not have accurately reported their dates of SCHIP enrollment because they had failed to recognize that their children had transitioned "seamlessly" into SCHIP from Medicaid. Asking these parents about their children's experiences "prior to enrollment" would have yielded questionable information. As discussed below, to retain these and other cases in our analysis of substitution, we used a series of logical edits and imputations that enabled us to arrive at credible estimates of prior coverage for our sample of recent enrollees.

The overall sample for the recent-enrollee analysis included 5,663 records. Based on the nine categories in Table C.3, we grouped the sample into five distinct categories that were defined by the survey respondents' perceptions of when, and whether, their children had enrolled in SCHIP. The following list summarizes these categories and the information obtained related to prior coverage:

- 1. Enrolled for Fewer than 12 Months (N = 3,397). These sample members provided enrollment dates similar to the ones indicated on the enrollment files, thus increasing the reliability of their reported enrollment information. We therefore asked them a full series of questions about their enrollment experiences, including the type of coverage held "in the 6 months prior to enrolling," the length of time coverage was held, the main reason for ending this coverage (if insured), and the main reason for being uninsured (if uninsured), as well as questions about their access to care and use of services during the same 6-month time frame.
- 2. Enrolled for More than 12 Months (N = 1,761). Since the respondents in this group did not perceive their children as having recently enrolled, we interviewed them as if each one's child were an established enrollee in the program. We therefore collected a full range of information on their demographic characteristics and their program experiences "in the past 6 months" (prior to interview). We asked about their coverage experience prior to enrolling only if the children were uninsured just prior to enrollment. If they were uninsured, we also asked about the duration of their uninsurance and the main reason for the uninsured. As described in more detail below, we used data from state files to determine public coverage patterns experienced by these children and then used imputation to fill in any gaps.
- 3. Disenrolled for 6 or More Months (N = 157). Either these sample members had disenrolled between sampling and fielding of the survey or their parents believed that they had disenrolled. We did not ask any questions about their coverage prior to enrolling, because the period referenced would have been too distant, and the reports would not be sufficiently salient from the respondents' perspective to be reliable.
- 4. **Born on SCHIP** (N = 201). When asked about coverage prior to enrollment, parents were provided the option to report that SCHIP had covered their children since birth. In this case, respondents were skipped out of further questions about prior coverage. The validity of these self-reports was checked against state files, and children deemed to have been born on Medicaid were edited to reflect that determination (see Section 2.d below). After our validity check, only 38 of the 201 cases were deemed born on SCHIP.

5. Unable to Provide Enrollment Information (N = 144). These sample members included recent enrollees whose parents were unable to report when, or whether, the children had been enrolled in SCHIP. As a result, the parents could not respond to further questions about insurance coverage, and interview questions were limited to basic information on the children's health and demographic characteristics, and on the characteristics of the household.

The main analytic sample consisted of all sample members in the first two categories (N = 3,397 + 1,761 = 5,158), as well as those who had been born on SCHIP (N = 201). It includes 5,359 records, or about 95 percent of the full recent-enrollee sample.

2. Prior Coverage Among Recent Enrollees

a. Recent Enrollees Reported in SCHIP Fewer than 12 Months

For sample members who reported being enrolled in SCHIP for fewer than 12 months (the first category in the list), estimates of prior coverage were taken directly from the survey data. We constructed variables characterizing children's coverage in the month just prior to enrolling, and another set characterizing their coverage during the 6 months prior to enrolling.

Only 6.1 percent of the unweighted sample reported two or three types of coverage "just before enrolling." We imposed a hierarchy on types of coverage to assign cases to a single type, for reporting purposes. Because our primary concern was children's access to employer coverage, we assigned a child to employer coverage if any employer coverage was reported; otherwise, we assigned the child to non-group private, Medicaid, SCHIP, and other public coverage, in that order. We collapsed types of coverage into four categories: (1) SCHIP coverage; (2) Medicaid coverage, including Medicaid HMOs; (3) private coverage, which included coverage from a current or past employer/union and coverage from direct purchase of insurance; and (4) other public, which included Medicare, military coverage, and coverage through the Indian Health Service. Combining information, we characterized children's

coverage in the month just prior to enrolling as (1) uninsured, (2) private, (3) Medicaid, (4) other public, and (5) born on SCHIP.

We also characterized children's coverage during the 6 months prior to enrolling as (1) uninsured all 6 months, (2) private with no gap just before enrolling in SCHIP, (3) public with no gap, (4) private with gap, (5) public with gap, and (6) born on SCHIP. We did not seek to characterize the length of uninsured "gaps" but reported them as such only if the gap was less than 6 months and had occurred just prior to enrolling. In characterizing prior coverage, we incorporated only gaps in coverage that occurred immediately before joining SCHIP, even if coverage for all 6 months was not reported. In other words, if a parent reported his or her child as having Medicaid just prior to enrolling in SCHIP, with no intervening gap, but reported being covered by Medicaid for only 3 months, we categorized the coverage as "Medicaid with no gap." We used information on short gaps in coverage in Chapter I to characterize prior coverage, as well as in the impacts analysis to construct control variables.

b. Recent Enrollees Reported on SCHIP for 12 or More Months

For the sizable fraction of recent enrollees who reported coverage of more than 12 months (the second category), we did not ask any questions about the type of coverage prior to enrollment, as those data were expected to be unreliable. In order to retain this sample in the analysis, we determined the sample members' insurance status based on data in the state enrollment files for SCHIP and Medicaid.

To assign coverage during the 6 months prior to SCHIP enrollment, we first compared the SCHIP enrollment month reported by the respondent with the enrollment month from the SCHIP enrollment file. Some respondents with long stays who were interviewed late in the survey fielding period reported lengths of coverage on SCHIP that were consistent. However, we expected some inconsistency between sources due to recall error. In the analytic phase, we therefore divided this group into two categories based on how much earlier the reported enrollment month was from the enrollment month in the state file:

- 1. **Reported Enrollment Month Less than 6 Months Earlier than the Enrollment Month in State Files.** Almost one-third (32 percent) of recent enrollees reporting enrollment in SCHIP for 12 or more months fell into this category. We assumed that a discrepancy in dates of enrollment up to and including 6 months was due to recall error. We did not consider these discrepancies to be problematic because respondents still were referring to a time period prior to enrollment that overlapped with the time period about which we were asking in the survey.
- 2. **Reported Enrollment Month More than 6 Months Earlier than the Enrollment Month in State Files.** Slightly more than two-thirds (68 percent) of recent enrollees reporting enrollment in SCHIP for 12 or more months fell into this category. This group presented an analytic challenge, because respondents were referring to a time period predating the 6-month period prior to their current SCHIP enrollment spells, and they may have been reporting a coverage experience from a prior coverage spell, possibly in Medicaid.

To estimate prior coverage for these two groups, we adopted two separate imputation

procedures. For the first group, which had self-reported data with few discrepancies, we relied

on survey data to estimate prior coverage. For the second group, whose self-reported data were

less likely to credible, we relied on information from the administrative data files.

For the first group, we used the following procedure:

- 1. We used the 6-month period prior to the self-reported enrollment date as the reference period to search the state administrative files.
- 2. From the state administrative file, we determined the number of months the child was enrolled in Medicaid during the self-reported reference period. However, we used survey data to determine whether the transition from Medicaid to SCHIP was accompanied by a gap with no coverage at all.²⁰

²⁰Because our sampling frame required a recent enrollee to show no enrollment in SCHIP for 1 month followed by up to 2 months of enrollment, evidence of enrollment in SCHIP prior to the current episode included at least a short period of noncoverage.

- 3. If the respondent reported being insured immediately before enrollment, we coded the child as being covered by Medicaid if we found administrative evidence of enrollment in Medicaid in the state files during the self-reported period. Otherwise, we coded children who were covered immediately before enrollment as having been covered by private insurance for all 6 months.
- 4. If the respondent reported an uninsured period of less than 6 months immediately before enrollment, we coded the child as moving from Medicaid to that uninsured period and then to SCHIP if we found evidence of enrollment in Medicaid. Otherwise, we coded the child as moving from private coverage to uninsured before enrolling in SCHIP.
- 5. If the respondent reported an uninsured period of 6 months or more immediately before enrollment, we coded the child as uninsured for all 6 months prior to enrollment unless we found evidence of Medicaid enrollment. In that case, we coded the child as moving uninsured to Medicaid and then directly to SCHIP. Our reasoning was that the parent may not have recognized a short spell on Medicaid prior to having been moved to SCHIP, but was otherwise uninsured prior to public coverage.

For the second group, which reported enrollment dates occurring more than 6 months earlier

than the dates in the state files, we used the following procedure:

- 1. We used the 6-month period prior to the administrative enrollment date as the period of reference to search the state file.
- 2. Self-reported information on insurance status was overridden entirely if Medicaid or SCHIP data were found in this period, under the assumption that respondents were referring to reference periods outside our 6-month period, so that their self-reports were less credible.
- 3. We examined the number of months the child was enrolled in Medicaid during the 6month period prior to the month of enrollment, and whether there was a gap in enrollment in the month prior to SCHIP enrollment. This information was used to code the child as either being covered by Medicaid all 6 months or having a period of being uninsured between Medicaid and SCHIP. If we found enrollment data in either both the Medicaid and SCHIP files or the Medicaid file alone, we coded the child as transitioning from Medicaid to SCHIP. If only SCHIP data were found, we coded the child as having a prior SCHIP episode.
- 4. If we found no evidence of Medicaid enrollment in the 6-month period prior to the administrative month of enrollment, we relied on reports of uninsured periods to assign enrollees to private coverage or uninsured status. If the respondent reported some coverage, but no evidence of public coverage was found in the state files, we coded the child as having private coverage for the 6 months before enrollment. If the respondent reported an uninsured spell of 6 months or more prior to enrollment, and

there was no evidence of Medicaid enrollment, we coded the child as being uninsured for all 6 months.

c. Recent Enrollees Reported on SCHIP at Birth

We examined the enrollment records for the 201 recent enrollees who were born on SCHIP and found evidence of Medicaid coverage prior to their SCHIP enrollment dates for 148 of the 201. We therefore assigned insurance coverage for these children as a seamless transition from Medicaid. Children over the age of 5 and therefore born prior to implementation of SCHIP in January 1998, with no evidence of Medicaid or SCHIP enrollment at birth, were coded as missing prior coverage data (N = 15). The remaining 38 cases were coded as "born on SCHIP."

d. States Not Providing Medicaid Data

Colorado, New York, and Texas provided no Medicaid enrollment data from their administrative files. We could therefore use only state SCHIP files to determine the types of coverage for children in those states. In the case of children reported as being insured prior to enrolling in SCHIP but who, according to the state files, did not have SCHIP, we could not turn to Medicaid files to determine whether the coverage was public or private. Instead, we imputed coverage status, using a regression model based on the coverage experience of two other types of recent enrollees: (1) those with complete information covered by SCHIP for more than 12 months in states with Medicaid data, and (2) recent enrollees with complete insurance information in the three states with no Medicaid data. We refer to those cases as "donor cases."

We used regression imputation to predict private or public coverage among those with coverage prior to SCHIP enrollment. The dependent variable was set to 1 if the donor case held any form of private coverage during the 6 months prior to SCHIP enrollment, and to 0 if the donor held only public coverage (Medicaid, SCHIP, or other public). We estimated a logistic regression because of the binary nature of the dependent variable. The model explained insurance status based on parents' work status, family structure, family income, the respondent's age and health status, the child's race/ethnicity, state of residence, and reported length of time on SCHIP. The specification for the regression achieved a high percentage of correctly predicted donor cases. We used this model for children whose prior insurance status was "insured" to assign the children a predicted probability of private coverage. Cases with a high predicted probability of private coverage were assigned private coverage.

Based on the protocol to determine prior insurance coverage within the universe of 5,359 recent enrollees, we could not assign prior coverage to 350 cases and therefore had to drop the cases from the analytic sample. This group included 38 cases coded as born on SCHIP, 258 covered by SCHIP during the 6 months before the current enrollment, and 54 missing sufficient insurance status information to classify. The analytic sample used to estimate substitution at the time of enrollment included 5,009 observations. The sample used to describe prior coverage status in Chapter I excluded those born on SCHIP (N = 38) and those with missing insurance data (N = 54) but included those with prior SCHIP spells (N = 258), for an analytic sample of 5,267.

3. Reasons for Ending Private Coverage and Enrolling in SCHIP

We analyzed reasons for ending prior coverage and enrolling in SCHIP for those with private coverage during the 6 months prior to enrollment (N = 1,349). The reasons were used to determine whether private coverage ended voluntarily or involuntarily, and to produce estimates of substitution at the time of enrollment. The estimates are presented in Chapter VI of the report. This section describes how we assigned reasons for transitions from private insurance in the 6 months prior to enrollment in SCHIP among recent enrollees.

Parents of recent enrollees provided information through one of three survey questions on why private coverage ended. Parents who reported their children as being privately insured just before enrolling were asked a question about why that private coverage had ended. Alternatively, parents who reported their children were uninsured at some point in the 6 months prior to enrolling were asked why their children were uninsured during that time. Many of the responses to that question related to private coverage that had ended. Finally, all respondents were asked why they had enrolled their children in SCHIP. All three questions used similar response categories, and we applied the same coding protocols to any open-ended verbatim responses that parents provided. This technique enabled us to combine responses from all three questions about why private coverage had ended.

For parents who were asked more than one of the questions, we used the responses about why private coverage had ended to assess the parents' ability to have retained private coverage for their children. For those who were asked the question but did not provide a reason, we substituted the reason why the children were uninsured (N = 28). About 18 percent of cases with prior private coverage were not asked why the coverage ended or did not respond to the question about why their children were uninsured (N = 246). This set of cases included primarily recent enrollees who were interviewed as established enrollees. We determined that the children had prior private coverage through our examination of administrative data, logical editing, and imputation. For these cases, we used the response to the survey question on why the parent had enrolled his or her child in SCHIP to assess why private coverage had ended. Only one case was missing responses to all the questions about reasons. Table VI.2, in Chapter VI, displays the full set of response categories, and how they were subsequently classified to determine substitution at the time of enrollment.

4. Measures of Parental Coverage Among Established SCHIP Enrollees

Information on parents' coverage and potential substitution estimates presented in Chapter VI are based on the established SCHIP enrollee sample. Of the 5,797 records, we excluded from

our analytic sample any enrollees who did not provide this information. Among the excluded sample were enrollees who were reported as disenrolled by the time of interview (N = 838), enrollees who could not report enrollment dates for SCHIP (N = 174), and those missing parents' insurance data (N = 80). The analytic sample included 4,705 records, or about 81 percent of the established enrollee sample. Observed characteristics of the analytic sample (for example, income, race, and health status) and those of the full sample were similar.²¹

Parents' coverage information (presented in Table VI.3 of the report) was constructed to reflect the proportion of children living with parents who had certain types of coverage (for example, any parent with employer insurance, any parent who was uninsured). All adults in the household identified by the respondent as parents, legal guardians, or spouses of parents of the enrolled child were asked about the type of coverage they held at the time of interview. Each adult reporting more than one type of coverage was assigned only one form of coverage, using a hierarchical protocol that first classified all adults with any employer-sponsored insurance in this category. Thus, adults reporting both employer insurance and an individually purchased plan and those reporting employer insurance and some form of public coverage were classified as having employer insurance.

In two-parent families, each parent was classified into a category based on the preceding protocol. If the two parents held different forms of coverage, the children were, for example, coded as having both "any parent with employer insurance" and "any parent with public insurance." This coding should not be interpreted to mean that one parent might have had both

²¹ For the Medicaid analysis in two states, the full sample consisted of 922 records. We excluded 162 of the 922 from the analysis sample for reasons similar to the reasons for the exclusions from the SCHIP sample. Of the resulting 760 records in the analytic sample, 317 were from California and 443 were from North Carolina. The analytic sample for the SCHIP comparison included 963 records, 489 of which were from California and 474 of which were from North Carolina. All variables were derived using the same methods explained in the previous section.

employer insurance and public insurance. It means only that one parent had employer insurance, and the other had public insurance. Fifty-five of the children in this analytic sample lived with two parents, each of whom held two different types of insurance, and 595 lived in households with one insured and one uninsured parent (16 percent of weighted sample).

F. ANALYSIS OF THE DETERMINANTS OF LENGTH OF SCHIP ENROLLMENT AND REENROLLMENT

This section discusses the methodology used to analyze the determinants of the length of SCHIP enrollment and reenrollment, presented in Chapter V of the report. In contrast to the other analyses, this analysis drew mainly on data from state SCHIP enrollment files, rather than from the survey. We begin by describing the enrollment history data we obtained from the 10 states in the evaluation. We also summarize the process we followed to construct enrollment and exit spells and other measures using enrollment history data. We then describe the crosswalk between the SCHIP and Medicaid eligibility codes provided by the states and the grouping we used. We end this section by discussing the life table methods we used for the descriptive and multivariate analyses.

1. SCHIP and Medicaid Enrollment History Data

The analysis of the determinants of the length of SCHIP enrollment and time to reenrollment after leaving SCHIP used person-level data provided by the 10 study states. In summer 2002, we requested SCHIP enrollment histories for all children included in our survey samples of recent and established SCHIP enrollees and recent disenrollees from SCHIP. We also requested Medicaid enrollment history data for the 10 SCHIP samples and for the samples in the two states in which we conducted a survey of Medicaid enrollees and recent disenrollees (California and North Carolina). As we describe below, Medicaid data were used to supplement the analysis of SCHIP enrollment and reenrollment.

Between summer 2001 and summer 2002, we requested four types of data from the states' management information systems: (1) contact data, (2) application data, (3) enrollment data, and (4) redetermination (or renewal) and disenrollment data. A separate report identifies the availability and reliability of the required data elements for all 10 study states (Zambrowski et al. 2003).

a. Data Availability

The period for which we obtained enrollment records varied across states. For all 10 states, we obtained SCHIP enrollment history data from the month in which the program began in each state through December 2002. (We selected this cutoff date to coincide with the expected end of the survey field period for all states.) SCHIP enrollment histories were available for a period of 50 to 60 months for nine states, and for 32 months for Texas (see Table C.13).²²

In contrast, Medicaid enrollment history data were available for only seven states (Table C.13).²³ For the SCHIP samples, Medicaid data were available from the beginning of the SCHIP program in five states. The exceptions were California and Florida, for which enrollment history data began in November 2000 and in January 2001, respectively. In addition, Medicaid enrollment histories for the samples of enrollees in Medicaid and of recent disenrollees from Medicaid were available beginning in November 2000 in California, and beginning in October 1998 in North Carolina.²⁴ For all states that provided Medicaid data, these histories were

²²In Texas, the separate SCHIP program began on April 30, 2000, and enrollment began the following month.

²³We did not obtain Medicaid enrollment history data for the SCHIP samples in Colorado, New York, or Texas.

²⁴We obtained SCHIP enrollment history data for the Medicaid sample in North Carolina, but not for the Medicaid sample in California.

TABLE C.13

								Data	a Elements				
Survey	SCHIP Start Date	Enrollment History Start Date	Medicaid Enrollment History ^a	Child's Demographic Characteristics ^b	Whether Child Is U.S. Citizen	Zip Code and County Code ^c	Health Plan History	Eligibility Code	Redetermination Date ^d	Disenrollment Date ^e	Disenrollment Reasons		Enrollment Fee History
CA—SCHIP (SEP)	3/1/98 - Exp 7/1/98 - Sep	Jul-98	Yes ^f	Yes	Yes	Yes	Yes	Yes ^g	No	Yes	Yes	No	n.a.
CA—Medicaid	n.a.	Nov-00	Yes	Yes	No	Yes	No	Yes	No	Yes	Yes	n.a.	n.a.
CO (SEP)	4/22/98	Apr-98	No	Yes	No	Yes	h n.a.	Yes ^g	Yes	Yes	No	n.a.	Yes
FL (SEP)	4/1/98	Apr-98	Yes	Yes ⁱ	No	Yes	Yes	Yes	No	No	No	No	n.a.
IL (COMB)	1/1/98 - Exp 8/12/98 - Sep	Jan-98	Yes	Yes	Yes	Yes	h n.a.	Yes	Yes ^j	Yes	Yes	Yes	n.a.
LA (EXP)	11/1/98	Nov-98	Yes	Yes	Yes	Yes	n.a.	Yes	Yes	Yes	Yes	n.a.	n.a.
MO (EXP)	7/1/98	Feb-98	Yes	Yes	Yes	Yes	Yes ^h	Yes	Yes	Yes	Yes	Yes	n.a.
NJ (COMB)	2/1/98 - Exp 3/1/98 - Sep	Mar-98	Yes	Yes	No	Yes	n.a.	Yes	No	Yes	Yes	Yes	n.a.
NY (SEP)	4/15/98	Apr-98	No	Yes ⁱ	No	Yes	Yes	Yes ^g	No	No	No	Yes	n.a.
NC—SCHIP (SEP)	10/1/98	Oct-98	Yes	Yes	No ^k	Yes	n.a.	Yes	No	Yes	Yes	n.a.	No
NC—Medicaid	n.a.	Oct-98	Yes	Yes	No^{h}	Yes	n.a.	Yes	No	Yes	Yes	n.a.	n.a.
TX (SEP)	4/30/00	May-00	No	Yes	No	Yes	Yes ^h	Yes ^g	Yes	Yes	Yes ¹	No	No
Number with Data	n.a.	n.a.	7 of 10	12 of 12	4 of 12	12 of 12	5 of 6	12 of 12	5 of 12	10 of 12	9 of 12	3 of 7	1 of 3

AVAILABILITY OF DATA ELEMENTS FROM THE SCHIP ENROLLMENT HISTORY DATA FILES

Source: State enrollment history data files for the period January 1998 through December 2002.

^aRefers to the availability of a Medicaid enrollment history for children in the SCHIP sample.

^bThe child's demographic characteristics are date of birth, sex, race, and whether of Hispanic origin.

^cFIPS county codes are available.

^dIn Missouri and Texas, the redetermination date of an ongoing segment is the anticipated date when the child will be redetermined; in Florida, redetermination is passive, but no date is available.

^eOnly a binary indicator of whether a child disenrolled in a given month is included in the analysis file.

^fMedicaid enrollment history data are available only for 67 children in the survey sample.

^gReported as groups defined in terms of the percentage of the Federal Poverty Level.

^hIn Colorado, all children are enrolled in either an HMO or the state's Children's Basic Health Plan network. In Illinois, health plan information is reported voluntarily, but we received a history of managed care enrollment in Cook and St. Clair counties. In Missouri, we identified the managed care counties from the county codes in the monthly records. In New Jersey, all children are enrolled in managed care.

ⁱIn Florida, the demographic variables were extracted from the survey data, and race codes are missing. In New York, the race of the child is not available.

^jIn Illinois, the redetermination date provided by the state is not reliable.

^kIn North Carolina, only refugee status is available.

¹In Texas, the disenrollment reason may be available only for the last enrollment segment in the history.

COMB = SCHIP combination program; EXP = SCHIP Medicaid expansion program; FIPS = Federal Information Processing Standards; HMO = health maintenance organization; n.a. = not applicable; SEP = SCHIP separate program.

available through December 2002. Medicaid enrollment histories were therefore available for a period of 26 to 60 months for seven states.

b. Construction of the Analysis File

Because enrollment files vary in their structure and content across states, we developed uniform files for the analysis of the determinants of length of SCHIP enrollment and reenrollment, as well as for other analyses. The process of creating these files included data quality and consistency checks. In several instances, we contacted the states to clarify anomalies observed in specific data elements.

We used the state enrollment files to create one record for each child included in the SCHIP and Medicaid survey samples and periods noted above for the 10 states. The file contained information on the month-by-month eligibility status of each child, including whether the child was enrolled in Medicaid SCHIP or separate SCHIP programs, or in the Medicaid program (for the seven states that provided these data for the SCHIP and Medicaid samples), and the eligibility group. The file also included one or more of several dates: application, eligibility determination, and eligibility renewal. In addition, the file contained demographic information (age, sex, race/ethnicity, whether the child was a U.S. citizen, and the zip code and county of residence). Finally, in selected states, the file included the reasons for exiting the program, a health plan history, and a premium-payment history.

c. Defining Enrollment and Exit Spells

Figure C.1 illustrates the steps we followed to construct the enrollment and exit spells for the analysis.²⁵ This process applies to all 10 SCHIP samples and to the 2 Medicaid samples in California and North Carolina, unless otherwise noted.

An enrollment spell begins on either the first day of the month when enrollment is first recorded or the first day of the month immediately following a period of disenrollment (for example, $B_{I(Enr)}$ and $B_{2(Enr)}$).²⁶ An enrollment spell ends on the last day of the month immediately before the next disenrollment period (for example, $E_{I(Enr)}$). We took the eligibility category for an enrollment spell from the first month of a spell (for example, $Elig_{I(Enr)}$ and $Elig_{2(Enr)}$).^{27,28} Finally, if an enrollment spell had not ended by December 31, 2002, and an exit reason was not available for that month, we defined the spell as censored (for example, $C_{2(Enr)}$).

An exit spell begins on the first day of the month immediately following a period of enrollment (for example, $B_{I(Ex)}$ and $B_{2(Ex)}$) and ends on the last day of the month immediately before the next enrollment period (for example, $E_{I(Ex)}$).²⁹ We took the eligibility category for an

²⁵Throughout this discussion, we use the term *exit* to denote an exit from the program, regardless of whether a child transferred to Medicaid on private insurance or had been uninsured.

²⁶For the Medicaid enrollment spells in California and North Carolina, because we use a change in the binary indicator of enrollment from 0 to 1, rather than the exact date of enrollment, we cannot identify enrollment spells that began on the first month of the study period.

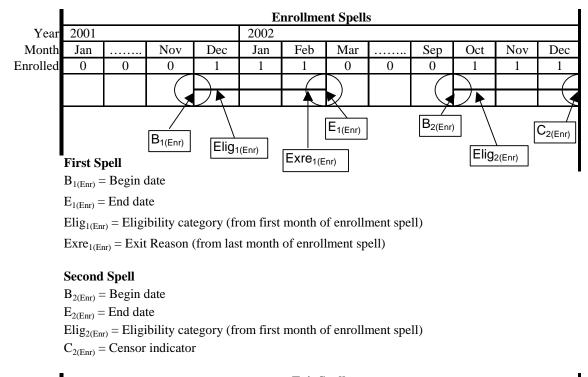
²⁷The eligibility category sometimes changed within an enrollment spell. The percentage of enrollment spells in which the category changed at least once averaged 15 percent across the nine states that use SCHIP eligibility categories. (California does not use eligibility categories for Healthy Families.) Attributing the eligibility category of the first month in which a category appeared to the entire spell greatly simplified the analysis of enrollment by eligibility group because it made the determination of the eligibility group in which a child was enrolled *independent* of the length of the enrollment spell.

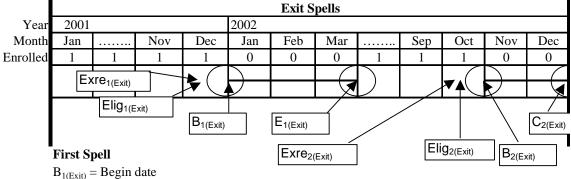
²⁸In New York, we extracted the eligibility code from the month after which the period of presumptive eligibility ended. That period ranged from 1 to 4 months, although the statutory period of presumptive eligibility is 60 days. Finally, we found spells of eight children who exited SCHIP while being presumptively eligible. We used the presumptive eligibility code to classify the spell for those children.

²⁹The same issue regarding the identification of Medicaid enrollment spells that began on the first month of the study period applies in the case of Medicaid exit spells.

FIGURE C.1

DEFINITION OF ENROLLMENT AND EXIT SPELLS





 $E_{1(Exit)} = End date$

 $Elig_{1(Exit)} = Eligibility category (from last month of previous enrollment spell)$ $Exre_{1(Exit)} = Disenrollment Reason (from last month of previous enrollment spell)$

Second Spell

 $B_{2(Exit)} = Begin date$

 $E_{2(Exit)} = End date$

Elig_{2(Exit)} = Eligibility category (from last month of previous enrollment spell)

Exre_{2(Exit)} = Exit reason (from last month of previous enrollment spell)

 $C_{2(Exit)} = Censor indicator$

exit spell from the last month of the previous enrollment spell (for example, $Elig_{I(Ex)}$ and $Elig_{2(Ex)}$). If an exit spell had not ended by December 31, 2002, we defined the spell as censored (for example, $C_{2(Ex)}$).

Table C.14 summarizes the number of spells included in the analysis; the number of transitions from a specific status (for example, reenrollment into SCHIP, in the case of the reenrollment analysis); the number of spells censored as of December 31, 2002; the exit rate (for the enrollment analysis); and the reentry rate (for the reenrollment analysis), for each state.³⁰ Although some children had multiple spells, we analyzed the spell from which a child was sampled only for recent enrollees (in the enrollment analysis) and for recent disenrollees (in the reenrollment analysis); including all spells would have oversampled children with long spells, resulting in biased estimates.

d. Defining Subgroup Variables

We constructed a number of person-level variables to explore variation in durations of exit and reentry, by subgroup. The distribution of these variables is shown, by state, in Table C.15 for recent enrollees and in Table C.16 for recent disenrollees. The categorical variable for the age of the child was defined at the beginning of each spell. The categories of this variable correspond to those used in the analysis of survey data reported in Chapter I. Because states differ in their approaches to collecting data on race and ethnicity in the enrollment records, we used the data on this variable that we had collected in the survey. This convention should enable us to make comparisons of our measures of the length of SCHIP enrollment and reenrollment, by

³⁰Because the analysis uses only the spells from which the recent enrollees and recent disenrollees were sampled, the number of children is the same as the number of spells.

TABLE C.14

ANALYSIS FILE SUMMARY STATISTICS: SCHIP SAMPLES

	CA	СО	FL	IL	LA	МО	NJ	NY	NC	TX	Total
Data Period	7/98 – 12/02	4/98 – 12/02	4/98 – 12/02	1/98 – 12/02	11/98 – 12/02	2/98 – 12/02	3/98 – 12/02	4/98 – 12/02	10/98 – 12/02	5/00 – 12/02	_
Enrollment Analysis											
Number of Spells	598	631	601	496	591	541	534	525	542	591	5,650
Number of Exits	54	93	216	233	174	180	191	227	287	149	1,804
Number of Censored Spells	544	538	385	263	417	361	343	298	255	442	3,846
Total Time at Risk (in Person-											
Years)	510	588	479	402	535	419	458	494	520	456	4,861
Exit Rate (Weighted, per 100											
Person-Years)	10.5	14.6	44.6	59.9	32.1	40.5	43.3	49.1	56.4	32.6	33.5
Reenrollment Analysis											
Number of Spells	458	480	525	447	401	495	381	418	497	519	4,621
Number of Reentries	91	85	231	86	55	153	57	102	89	111	1,060
Number of Censored Spells	367	395	294	361	346	342	324	316	408	408	3,561
Total Time at Risk (in Person-											
Years)	378	394	375	400	340	392	343	344	464	420	3,851
Reentry Rate (Weighted, per 100											
Person-Years)	21.8	21.8	61.5	23.1	13.5	39.5	18.5	29.0	22.7	25.1	29.4

Source: State enrollment history data files for samples of recent enrollees and recent disenrollees from the 2002 congressionally mandated survey of SCHIP enrollees and disenrollees in 10 states linked to data from this survey.

Note: All estimates, with the exception of the exit and reentry rates, are unweighted.

TABLE C.15

DISTRIBUTION OF CHARACTERISTICS OF SPELLS FOR THE ANALYSIS OF THE LENGTH OF SCHIP ENROLLMENT

Characteristic ^a	CA	CO	FL	IL	LA	МО	NJ	NY	NC	TX	Total
Total Number of Enrollment Spells	44,677	4,472	26,682	13,381	7,055	6,515	8,956	11,752	8,671	50,562	182,72
Total Number of Enrollment Spells (Unweighted)	598	631	601	496	591	541	534	525	542	591	5,65
Total Number of Exits (Unweighted)	54	93	216	233	174	180	191	227	287	149	1,804
Child's Race and Main Language											
Hispanic, speaks Spanish	47.9	22.2	20.1	22.4	2.3	0.6	19.4	12.0	7.4	31.5	27.
Hispanic, speaks English	19.2	20.9	14.8	8.3	3.0	3.6	14.5	10.8	5.3	32.4	18.
Non-Hispanic white, speaks English	11.7	43.4	38.1	36.5	43.4	70.4	29.3	39.1	50.1	20.1	28.
Non-Hispanic black, speaks English	3.5	3.2	14.7	20.8	41.6	14.9	21.4	18.3	28.7	9.1	12.
Non-Hispanic other, speaks English	6.6	5.5	4.1	2.9	3.9	3.8	4.9	6.0	5.4	2.4	4.
Non-Hispanic, non-English											
speaking	7.9	1.1	2.1	3.9	0.7	1.0	7.6	7.2	0.6	2.2	4.
Missing race, ethnicity, or language	3.2	3.7	6.1	5.2	5.2	5.6	2.9	6.5	2.4	2.4	3.
Sex											
Female	49.2	48.8	49.2	53.2	50.8	47.4	48.1	47.1	47.4	48.2	48.
Male	50.8	51.2	50.8	46.8	49.2	52.6	51.9	52.9	52.6	51.8	51.
Age (in Years)											
<1	3.7	6.5	0.0	1.0	2.8	2.1	1.9	4.4	0.4	4.6	3.
1 to 5	35.8	33.6	22.8	11.1	23.2	25.7	20.7	25.6	24.9	30.0	27.
6 to 12	38.1	34.3	43.2	54.9	41.7	41.7	39.5	40.6	44.3	37.1	40.
≥13	22.5	25.7	33.9	32.9	32.3	30.6	37.9	29.4	30.5	28.3	28.
Child Has a Special Health Care Need											
Yes	17.9	20.6	29.9	31.4	37.2	34.3	27.6	31.5	36.9	29.2	27.
No	82.1	79.4	70.1	68.6	62.8	65.7	72.4	68.5	63.1	70.8	72.

Characteristic ^a	CA	CO	FL	IL	LA	MO	NJ	NY	NC	TX	Total
Child's Overall Health Status											
Excellent/very good	66.1	77.0	75.6	65.3	69.0	72.1	67.6	76.1	70.0	64.1	68.3
Good	27.1	17.3	19.4	24.4	23.1	19.1	25.0	18.2	20.3	24.5	23.4
Fair/poor	6.9	5.7	5.0	10.3	7.9	8.8	7.4	5.8	9.7	11.3	8.3
Household Income, by FPL Range											
<150% FPL	67.5	73.7	69.0	82.1	77.5	72.5	69.0	62.0	72.2	74.7	71.4
150 to 200% FPL	19.3	19.1	19.4	13.8	16.8	16.9	17.0	22.8	18.7	17.0	18.2
$\geq 200\%$ FPL	13.2	7.2	11.6	4.1	5.7	10.7	14.0	15.3	9.1	8.3	10.4
Highest Education Level of Parent(s)											
No GED or HS diploma	31.4	19.9	11.9	21.9	12.7	7.8	14.7	11.3	12.5	24.5	21.2
GED or HS diploma	31.4	32.3	35.0	39.6	52.8	46.5	41.9	33.8	43.2	40.9	37.8
Some college or college degree ^b	37.2	47.7	53.1	38.5	34.4	45.7	43.4	54.9	44.3	34.6	41.1
Residential Location											
Metropolitan	96.1	76.1	94.4	77.9	67.7	55.9	100.0	89.7	67.2	82.2	86.1
Nonmetropolitan, adjacent	3.6	5.7	5.3	11.9	26.5	14.4	0.0	6.9	21.6	12.8	9.2
Nonmetropolitan, nonadjacent	0.3	18.2	0.3	10.1	5.8	29.7	0.0	3.4	11.2	5.1	4.7
Program Type											
Separate	100	100	100	23.0	0	0	60.9	100	100	100	85.0
Medicaid-expansion	0	0	0	77.0	100	100	39.1	0	0	0	15.0
Eligibility Group (at Enrollment) California < 250% FPL	100.0										
Colorado											
$\leq 100\%$ FPL		34.6									
101 to 150% FPL		42.7									
151 to 185% FPL		22.7									
Florida			15.0								
MediKids			17.9								
HealthyKids			80.7								
CMS			1.4								

TABLE C.15	(continued)
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Characteristic ^a	CA	CO	FL	IL	LA	MO	NJ	NY	NC	TX	Total
Illinois											
KidCare Assist Medicaid expansion SCHIP (< 133% FPL)				77.0							
KidCare Assist Medicaid expansion SCHIP (134 to 150% FPL)				12.8							
KidCare Premium SCHIP (151 to 185% FPL)				10.1							
Louisiana LACHIP I					43.6						
(< 133% FPL) LACHIP II					17.6						
(133 to 150% FPL) LACHIP III (151 to 200% FPL)					38.8						
Missouri											
≤ 185% FPL 186 to 225% FPL 226 to 300% FPL						73.0 21.6 5.4					
New Jersey Plan A (> 133% FPL)							39.1				
Plan B (133 to 150% FPL) Plan C (151 to 200% FPL) Plan D (201 to 350% FPL)							10.7 30.3 19.9				
New York < 151% FPL								49.5			
151 to 222% FPL > 222% FPL Full premium								41.3 8.2 0.9			
North Carolina ≤ 150% FPL 151 to 200% FPL									67.0		

Characteristic ^a	CA	CO	FL	IL	LA	MO	NJ	NY	NC	TX	Total
Texas											
< 100% FPL										16.8	
100 to 150% FPL										48.6	
151 to 185% FPL										29.1	
186 to 200% FPL										5.6	

Source: State enrollment history data files for the sample of recent enrollees from the 2002 congressionally mandated survey of SCHIP enrollees and disenrollees in 10 states linked to data from this survey.

Note: All estimates are weighted unless otherwise noted.

^aExcept age, eligibility group, and program type, all characteristics are based on survey data.

^bIncludes 2-year associate's degree and trade school.

TABLE C.15 (continued)

FPL = federal poverty level; GED = General Educational Development; HS = high school.

TABLE C.16

Characteristic ^a	CA	CO	FL	IL	LA	MO	NJ	NY	NC	TX	Total
Total Number of Exit Spells	10,289	1,339	7,999	4,598	1,724	2,857	1,939	5,757	2,185	13,581	52,268
Total Number of Exit Spells											
(Unweighted)	458	480	525	447	401	495	381	418	497	519	4,621
Total Number of Exits (Unweighted)	91	85	231	86	55	153	57	102	89	111	1,060
Child's Race and Main Language											
Hispanic, speaks Spanish	47.1	24.7	15.3	17.4	1.8	0.7	21.5	8.9	5.8	26.7	22.8
Hispanic, speaks English	18.4	26.9	14.1	11.6	3.4	2.9	12.0	8.3	2.9	37.3	18.9
Non-Hispanic white, speaks English	16.3	33.5	39.1	36.7	43.3	74.1	31.1	54.0	44.0	17.5	32.2
Non-Hispanic black, speaks English	4.8	4.7	17.3	24.5	40.4	9.8	20.3	13.1	29.4	10.5	13.9
Non-Hispanic other, speaks English Non-Hispanic, non-English-	4.0	5.5	5.9	4.0	5.1	5.1	4.5	4.5	7.8	2.1	4.2
speaking	6.2	1.4	2.4	2.2	0.0	1.1	4.4	6.0	3.7	0.0	2.9
Missing race, ethnicity, or language	3.2	3.2	5.9	3.6	6.0	6.2	6.1	5.2	6.4	6.0	5.1
Sex											
Female	51.5	46.0	47.4	50.8	47.2	51.1	46.7	43.2	50.8	46.1	48.0
Male	48.5	54.0	52.6	49.2	52.8	48.9	53.3	56.8	49.2	53.9	52.0
Age (in Years)											
<1	0.4	1.0	0.0	0.0	0.8	0.2	0.3	1.4	0.0	1.6	0.2
1 to 5	32.4	33.3	16.7	9.0	24.4	27.3	21.5	24.8	23.2	29.1	24.9
6 to 12	41.6	37.4	50.5	51.5	41.1	42.6	46.7	43.3	46.4	38.3	43.
≥13	25.5	28.3	32.8	39.5	33.7	29.8	31.5	30.5	30.4	31.0	30.8
Child Has a Special Health Care Need											
Yes	20.6	24.6	31.0	31.3	38.4	35.6	29.3	30.0	39.8	29.9	29.2
No	79.4	75.4	69.0	68.7	61.6	64.4	70.7	70.0	60.2	70.1	70.8
Child's Overall Health Status											
Excellent/very good	63.1	70.3	71.8	66.6	67.2	75.2	65.4	73.7	66.3	59.7	66.2
Good	26.2	22.4	19.2	23.0	20.4	19.5	25.9	21.4	26.0	28.3	24.2
Fair/poor	10.7	7.3	9.0	10.4	12.5	5.3	8.7	4.9	7.7	11.9	9.6
Household Income, by FPL Range											
<150% FPL	62.9	62.5	71.3	79.4	83.3	70.4	59.1	63.9	72.9	74.7	70.4
150 to 200% FPL	20.1	24.8	16.4	13.7	11.6	19.7	18.3	15.2	15.6	16.4	17.0
≥ 200% FPL	16.9	12.7	12.3	6.9	5.1	9.9	22.7	20.8	11.5	8.9	12.0

DISTRIBUTION OF CHARACTERISTICS OF SPELLS FOR THE ANALYSIS OF TIME TO REENROLLMENT

TABLE C.16 (continued)

	CA	CO	FL	IL	LA	MO	NJ	NY	NC	TX	Total
Highest Education Level of Parent(s)											
No GED or HS diploma	27.4	25.5	12.3	18.1	17.2	10.7	17.4	12.3	16.6	33.0	21.9
GED or HS diploma	36.9	40.1	39.0	40.8	47.3	45.9	41.7	37.9	42.4	38.9	39.5
Some college or college degree ^b	35.6	34.5	48.7	41.2	35.4	43.4	40.9	49.8	41.0	28.1	38.6
Residential Location											
Metropolitan	96.7	75.6	94.7	78.1	67.0	52.3	100.0	83.7	65.6	78.0	83.3
Nonmetropolitan, adjacent	3.1	5.5	4.5	10.2	25.1	10.6	0.0	9.3	25.0	15.8	9.9
Nonmetropolitan, nonadjacent	0.2	18.9	0.8	11.7	8.0	37.1	0.0	7.0	9.4	6.3	6.7
Program Type											
Separate	100	100	100	23.2	0	0	66.8	100	100	100	83.2
Medicaid-expansion	0	0	0	76.8	100	100	33.2	0	0	0	16.8
States with Separate Programs	100	100	100	0	0	0	0	100	100	100	78.7
With Medicaid-expansion programs	0	0	0	0	100	100	0	0	0	0	8.8
With combination programs	0	0	0	100	0	0	100	0	0	0	12.5
Eligibility Group (at Enrollment)											
California											
< 250% FPL	100.0										
Colorado											
$\leq 100\%$ FPL		30.5									
101 to 150% FPL		38.6									
151 to 185% FPL		30.9									
Florida											
MediKids			12.8								
HealthyKids			83.9								
CMS			3.3								
Illinois											
KidCare Assist Medicaid											
expansion SCHIP (< 133%											
FPL)				76.8							
KidCare Assist Medicaid											
expansion SCHIP (134 to											
150% FPL)				8.9							
KidCare Premium SCHIP (151				0.7							
to 185% FPL)				14.3							
Louisiana											
LACHIP I (< 133% FPL)					44.4						
LACHIP II (133 to 150% FPL)					23.2						
LACHIP III (153 to 150% FPL)					32.3						

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 TABLE C.16 (continued)

Characteristic ^a	CA	CO	FL	IL	LA	MO	NJ	NY	NC	TX	Total
Missouri											
≤ 185% FPL						74.5					
186 to 225% FPL						16.1					
226 to 300% FPL						9.4					
New Jersey											
Plan A (< 133% FPL)							33.2				
Plan B (133 to 150% FPL)							8.4				
Plan C (151 to 200% FPL)							34.2				
Plan D (201 to 350% FPL)							24.2				
New York											
<151% FPL								53.4			
151 to 222% FPL								37.5			
> 222% FPL								8.1			
Full premium								1.0			
North Carolina											
≤ 150% FPL									62.6		
151 to 200% FPL									37.4		
Texas											
< 100% FPL										20.4	
100 to 150% FPL										44.1	
151 to 185% FPL										28.3	
186 to 200% FPL										7.2	

Source: State enrollment history data files for the sample of recent disenrollees from the 2002 congressionally mandated survey of SCHIP enrollees and disenrollees in 10 states linked to data from this survey.

Note: All estimates are weighted unless otherwise noted.

^aExcept age, eligibility group, and program type, all characteristics are based on survey data.

^bIncludes 2-year associate's degree and trade school.

FPL = federal poverty level; GED = General Educational Development; HS = high school.

race/ethnicity, across states and with other analyses in this report.³¹ The other groups we defined from the survey data included (1) whether the child has special health care needs, (2) the child's health status, (3) the main language spoken in the household, (4) the parents' highest education level, (5) household income, and (6) the residential location of the child's household.³²

e. Classification of SCHIP and Medicaid Eligibility Codes

We classified SCHIP state eligibility codes into broad categories defined by family income and, in one instance, by the age of the child (Florida).

For the Medicaid codes, we classified the state eligibility codes into the four broad eligibility groups of (1) cash assistance, (2) medically needy, (3) poverty related, and (4) other. These codes correspond to the Maintenance Assistance Status (MAS) codes used by the Centers for Medicare & Medicaid Services to report eligibility in the Medicaid Statistical Information Systems. To keep the classification manageable, we did not create subgroups defined by the Basis of Eligibility (BOE) codes. To crosswalk the Medicaid state eligibility codes into the groups used in our analysis, we used the specifications provided by the two states.^{33,34}

The definitions of the SCHIP and Medicaid eligibility codes we used in the analysis are summarized in Table C.17 and Table C.18, respectively.

³¹Florida did not provide data on race/ethnicity in the enrollment history file.

³²We combined the race/ethnicity of the child with the language spoken in the household.

³³For California, the crosswalks are described in "California's MSIS Recipient Crosswalk Beginning FFY 1999 (Revised June 2000)." For North Carolina, the crosswalk is described in "Crosswalk North Carolina 5-Character Schematic to MAS Grouping (Version of August 8, 2001)" and "Descriptions of North Carolina 5 Character Eligibility Code Schematic."

³⁴In North Carolina, children with state aid code of MICLN were coded into a separate category (MAS equal to 0), as they are not eligible for Medicaid. (Children with aid code of MICLN are eligible for the SCHIP program [NC Health Choice for Children] and live in households with incomes of more than 200 percent of the federal poverty level).

TABLE C.17

CROSSWALK OF STATE ELIGIBILITY CODES INTO UNIFORM CODES, BY STATE AND PROGRAM (SCHIP)

		Sta	te Eligibility Code Descrip	tion			
	State Eligibility Code	Program Name	Age Requirement	Income Requirement	MPR Eligibility Code	Unique MPR Eligibility Code	MPR Eligibility Code Description
CA ^a		Healthy Families	0 to 18 years	<150% FPL	1	101	< 250% FPL
		Healthy Families	0 to 18 years	151 to 250% FPL	1	101	< 250% FPL
CO ^b 01/01 to present	Ν	CHP+	0 to 18 years ^c	$\leq 40\%$ FPL	1	201	≤ 100% FPL
	А	CHP+	0 to 18 years ^c	40 to 62% FPL	1	201	$\leq 100\%$ FPL
	В	CHP+	0 to 18 years ^c	63 to 81% FPL	1	201	$\leq 100\%$ FPL
	С	CHP+	0 to 18 years ^c	82 to 100% FPL	1	201	$\leq 100\%$ FPL
	D	CHP+	6 to 18 years	101 to 117% FPL	2	202	101 to 150% FPL
	Е	CHP+	6 to 18 years	118 to 133% FPL	2	202	101 to 150% FPL
	F-	CHP+	0 to 18 years	134 to 150% FPL	2	202	101 to 150% FPL
	F+	CHP+	0 to 18 years	151 to 159% FPL	3	203	151 to 185% FPL
	G-	CHP+	0 to 18 years	160 to 170% FPL	3	203	151 to 185% FPL
	G+	CHP+	0 to 18 years	171 to 185% FPL	3	203	151 to 185% FPL
04/98 - 12/00	Ν	CHP+	15 to 18 years	40 to 62% FPL	1	201	≤ 100% FPL
	А	CHP+	15 to 18 years	63 to 81% FPL	1	201	$\leq 100\%$ FPL
	В	CHP+	15 to 18 years	82 to 100% FPL	1	201	$\leq 100\%$ FPL
	С	CHP+	15 to 18 years	101 to 117% FPL	1	201	$\leq 100\%$ FPL
	D	CHP+	6 to 18 years	118 to 133% FPL	2	202	101 to 150% FPL
	Е	CHP+	6 to 18 years	134 to 150% FPL	2	202	101 to 150% FPL
	F-	CHP+	0 to 18 years	151 to 159% FPL	2	202	101 to 150% FPL
	F+	CHP+	0 to 18 years	160 to 170% FPL	3	203	151 to 185% FPL
	G-	CHP+	0 to 18 years	171 to 185% FPL	3	203	151 to 185% FPL
	G+	CHP+	0 to 18 years	40 to 62% FPL	3	203	151 to 185% FPL
FL	MK	MediKids	0 to 5 years	≤ 200% FPL	1	301	MediKids
	HK	Healthy Kids	5 to 18 years	≤ 200% FPL	2	302	HealthyKids
	CMS	CMS	0 to 18 years	≤ 200% FPL	3	303	CMS

		State E	Eligibility Code Descrip	tion			
	State Eligibility Code	Program Name	Age Requirement	Income Requirement	MPR Eligibility Code	Unique MPR Eligibility Code	MPR Eligibility Code Description
IL	К	Kidcare Assist (MSCHIP)	0 to 18 years ^d	47 to 100% FPL	1	401	KidCare Assist MSCHIP (< 133% FPL)
	L	Kidcare Assist (MSCHIP)	0 to 18 years ^d	47 to 100% FPL	1	401	KidCare Assist MSCHIP (< 133% FPL)
	Н	Kidcare Assist (MSCHIP)	5 to 18 years ^e	101 to 133% FPL	1	401	KidCare Assist MSCHIP (< 133% FPL)
	Ι	Kidcare Assist (MSCHIP)	5 to 18 years ^e	101 to 133% FPL	1	401	KidCare Assist MSCHIP (< 133% FPL)
	Ν	Kidcare Assist (MSCHIP)	0 to 18 years ^d	101 to 133% FPL	1	401	KidCare Assist MSCHIP (< 133% FPL)
	0	Kidcare Assist (MSCHIP)	0 to 18 years ^d	101 to 133% FPL	1	401	KidCare Assist MSCHIP (< 133% FPL)
	4	Kidcare Share (SCHIP)	1 to 18 years old	134 to 150% FPL	2	402	KidCare Share MSCHIP (< 134 to 150% FPL)
	S	Kidcare Share (SCHIP)	1 to 18 years old	134 to 150% FPL	2	402	KidCare Share MSCHIP (< 134 to 150% FPL)
	Z	KidCare Premium (SCHIP)	1 to 18 years old	151 to 185% FPL	3	403	KidCare Premium MSCHIP (< 151 to 185% FPL
LA	007	LACHIP	6 to 18 years	≤ 133% FPL	1	501	LACHIP I (< 133% FPL)
	015	LACHIP Phase II	Birth to 18 years	133 to 150% FPL	2	502	LACHIP II (133 to 150% FPL)
	055	LACHIP Phase III	Birth to 18 years	151 to 200% FPL	3	503	LACHIP III (151 to 200% FPL)
MO	C071	MC+ for Kids	1 to 18 years old	≤ 185% FPL	1	601	≤ 185% FPL
	C072	MC+ for Kids	0 to 18 years old	186 to 225% FPL	2	602	186 to 225% FPL
	C073	MC+ for Kids	0 to 18 years old	126 to 300% FPL	3	603	226 to 300% FPL
NJ	484	NJC	0 to 18 years ^d	≤ 100% FPL	1	701	Plan A (< 133% FPL)
	485	NJC	6 to 18 years	101 to 133% FPL	1	701	Plan A (< 133% FPL)
	486	KidCare	1 to 18 years	134 to 150% FPL	2	702	Plan B (133 to 150% FPL)
	487	KidCare	1 to 18 years	151 to 185% FPL	3	703	Plan C (151 to 200% FPL)
	488	KidCare	Birth to 18 years	186 to 200% FPL	3	703	Plan C (151 to 200% FPL)
	489	KidCare Fee For Service	Birth to 3 months	186 to 200% FPL	3	703	Plan C (151 to 200% FPL)
	493	KidCare	0 to 18 years	201 to 250% FPL	4	704	Plan D (201 to 350% FPL)
	494	KidCare	0 to 18 years	251 to 300% FPL	4	704	Plan D (201 to 350% FPL)
	495	KidCare	0 to 18 years	301 to 350% FPL	4	704	Plan D (201 to 350% FPL)
	496	KidCare	Birth to 3 months	201 to 350% FPL	4	704	Plan D (201 to 350% FPL)
NY ^f Current		Child Health Plus	6 to 18 years old	< 120% FPL	1	801	< 151% FPL
ivi Cuitelli	A B	Child Health Plus	1 to 18 years old	< 120% FPL 120 to 150% FPL	1	801 801	< 151% FPL <151% FPL
	Б С	Child Health Plus	1 to 18 years old	151 to 159% FPL	1 2	801	<131% FPL 151 to 222% FPL
	Н	Child Health Plus	0 to 18 years old	160 to 222% FPL	22	802 802	151 to 222% FPL 151 to 222% FPL
	п I	Child Health Plus	0 to 18 years old	160 to 222% FPL	2	802 802	151 to 222% FPL 151 to 222% FPL
	I L	Child Health Plus	0 to 18 years old	223 to 250% FPL	23	802 803	> 222%
	L M	Child Health Plus	0 to 18 years old	223 to 250% FPL 223 to 250% FPL	3	803	> 222%
	S	Child Health Plus	0 to 18 years old	> 250% FPL	4	803	> 222% Full premium
	g g	Child Health Plus	o to ro years olu	23070 ITL	4 5	804 805	Non-missing, unclassified
	P	Child Health Plus			5	805 806	Presumptive eligibility

		Sta	te Eligibility Code Descrip				
	State Eligibility Code	Program Name	Age Requirement	Income Requirement	MPR Eligibility Code	Unique MPR Eligibility Code	MPR Eligibility Code Description
Oct-98	А	Child Health Plus	6 to 18 years old	<120% FPL	1	801	<151% FPL
	В	Child Health Plus	1 to 18 years old	120 to 150% FPL	1	801	<151% FPL
	С	Child Health Plus	1 to 18 years old	151 to 159% FPL	2	802	151 to 222% FPL
	Н	Child Health Plus	0 to 18 years old	160 to 222% FPL	2	802	151 to 222% FPL
	Ι	Child Health Plus	0 to 18 years old	160 to 222% FPL	2	802	151 to 222% FPL
	L	Child Health Plus	0 to 18 years old	223 to 230% FPL	3	803	> 222% FPL
	М	Child Health Plus	0 to 18 years old	223 to 230% FPL	3	803	> 222% FPL
	S	Child Health Plus	0 to 18 years old	> 230% FPL	4	804	Full premium
	g	Child Health Plus	0 10 10 years one	/ 20070112	5	805	Non-missing, unclassified
	Р	Child Health Plus			6	806	Presumptive eligibility
lay-98	F	Child Health Plus	1 to 18 years old	<151% FPL	1	801	<151% FPL
	С	Child Health Plus	1 to 18 years old	151 to 159% FPL	2	802	151 to 222% FPL
	E	Child Health Plus	1 to 18 years old	151 to 159% FPL	2	802	151 to 222% FPL
	К	Child Health Plus	1 to 18 years old	151 to 159% FPL	2	802	151 to 222% FPL
	G	Child Health Plus	0 to 18 years old	160 to 200% FPL	2	802	151 to 222% FPL
	I	Child Health Plus	0 to 18 years old	160 to 200% FPL	2	802	151 to 222% FPL
	Ĺ	Child Health Plus	0 to 18 years old	160 to 200% FPL	2	802	151 to 222% FPL
	H	Child Health Plus	0 to 18 years old	201 to 222% FPL	2	802	151 to 222% FPL
	J	Child Health Plus	0 to 18 years old	201 to 222% FPL	$\frac{2}{2}$	802	151 to 222% FPL
	M	Child Health Plus	0 to 18 years old	201 to 222% FPL	$\frac{2}{2}$	802	151 to 222% FPL
	S	Child Health Plus	0 to 18 years old	> 222% FPL	4	804	Full premium
	g	Child Health Plus	o to ro years ora	> 222/0112	5	805	Non-missing, unclassified
	Р	Child Health Plus			6	806	Presumptive Eligibility
Oct-97	F	Child Health Plus	6 to 18 years old	<120% FPL	1	801	<151% FPL
	В	Child Health Plus	1 to 18 years old	120 to 150% FPL	1	801	< 151% FPL
	D	Child Health Plus	1 to 18 years old	120 to 150% FPL	1	801	< 151% FPL
	C	Child Health Plus	1 to 18 years old	151 to 159% FPL	2	802	151 to 222% FPL
	Ē	Child Health Plus	1 to 18 years old	151 to 159% FPL	2	802	151 to 222% FPL
	G	Child Health Plus	0 to 18 years old	160 to 200% FPL	2	802	151 to 222% FPL
	I	Child Health Plus	0 to 18 years old	160 to 200% FPL	$\frac{2}{2}$	802	151 to 222% FPL
	H	Child Health Plus	0 to 18 years old	201 to 222% FPL	2	802	151 to 222% FPL
	J	Child Health Plus	0 to 18 years old	201 to 222% FPL	2	802	151 to 222% FPL
	S	Child Health Plus	0 to 18 years old	> 222% FPL	4	804	Full premium
	g	Child Health Plus	o to 10 years old	× 222/0 1112	5	805	Non-missing, unclassified
	Р	Child Health Plus			6	805	Presumptive eligibility
IC	MICJN	NC Health Choice for Children	1 to 18 years old	≤ 150% FPL	1	901	≤ 150% FPL
	MICKN	NC Health Choice for Children	0 to 18 years old	151 to 200% FPL	2	902	151 to 200% FPL
	MICSN	NC Health Choice for Children	0 to 18 years old	151 to 200% FPL	2	902	151 to 200% FPL

		Sta	ate Eligibility Code Descrip	tion			
	State Eligibility Code	Program Name	Age Requirement	Income Requirement	MPR Eligibility Code	Unique MPR Eligibility Code	MPR Eligibility Code Description
TX^h	0	TexCare TexCare	< 19 years old 1 to 18 years old	< 100% FPL 100 to 150% FPL	1	991 992	< 100% FPL/no co-pay 100 to 150% FPL
	2 3	TexCare TexCare	1 to 18 years old 0 to 18 years old	151 to 185% FPL 186 to 200% FPL	2 3 4	993 994	151 to 185% FPL 186 to 200% FPL

Source: Documentation provided by the states for the enrollment history files for the samples of recent enrollees and disenrollees from the 2002 congressionally mandated survey of SCHIP enrollees and disenrollees in 10 states, supplemented with site visit report data summarized in Hill et al. (2003).

^aCalifornia does not have SCHIP eligibility groups.

^bColorado does not have SCHIP eligibility groups. We used the variable "program rate," which is based on income and family size, to determine SCHIP eligibility group.

^cColorado does not count assets when calculating income, whereas Medicaid does. Consequently, certain children under age 18 may not qualify for Medicaid and will be covered by SCHIP. Therefore, children of any age can be found in categories N, A, B, and C (telephone conversation with Joanne Lindsay, of Colorado, on 9/19/2003).

^dChild must be born before 10/01/1983.

^eChild must be born after 9/30/1983.

^fNew York does not have SCHIP eligibility codes. We used the variable "payment category" to determine eligibility group.

^gAll nonmissing eligibility codes in New York that were not classified in the documentation were grouped into a separate eligibility category.

^hTexas does not have SCHIP eligibility groups. We used the co-payment category to determine SCHIP eligibility group.

FPL= federal poverty level; MSCHIP = Medicaid-expansion SCHIP; NA = not applicable; TPL = third-party liability.

TABLE C.18

CROSSWALK OF STATE ELIGIBILITY CODES INTO UNIFORM CODES, BY STATE AND PROGRAM (MEDICAID)

CA	State Eligibility Code 30 32 33 35 60 35 60 3E 3L 3M 3N 3P	MAS Code	MAS Description Individuals receiving cash assistance Individuals receiving cash assistance Individuals receiving cash assistance Individuals receiving cash assistance	BOE Code 4/5 4/5 4/5 4/5 4/5	BOE Description Child/adult Child/adult Child/adult	MPR Eligibility Code 1 1	Unique MPR Eligibility Code 111 111	MPR Eligibility Code Description Individuals receiving cash assistance Individuals receiving cash assistance
CA	32 33 35 60 3E 3L 3M 3N	1 1 1 1 1 1	Individuals receiving cash assistance Individuals receiving cash assistance Individuals receiving cash assistance Individuals receiving cash assistance	4/5 4/5 4/5	Child/adult	1 1		
	33 35 60 3E 3L 3M 3N	1 1 1 1 1	Individuals receiving cash assistance Individuals receiving cash assistance Individuals receiving cash assistance Individuals receiving cash assistance	4/5 4/5		1	111	
	35 60 3E 3L 3M 3N	1 1 1 1	Individuals receiving cash assistance Individuals receiving cash assistance	4/5	Child/adult			individuals receiving cash assistance
	60 3E 3L 3M 3N	1 1 1	Individuals receiving cash assistance Individuals receiving cash assistance			1	111	Individuals receiving cash assistance
	3E 3L 3M 3N	1	Individuals receiving cash assistance		Child/adult	1	111	Individuals receiving cash assistance
	3L 3M 3N	1		2	Blind/disabled	1	111	Individuals receiving cash assistance
	3L 3M 3N	-	Individuals receiving cash assistance	4/5	Child/adult	1	111	Individuals receiving cash assistance
	3N	1	Individuals receiving cash assistance	4/5	Child/adult	1	111	Individuals receiving cash assistance
	3N		Individuals receiving cash assistance	4/5	Child/adult	1	111	Individuals receiving cash assistance
		1	Individuals receiving cash assistance	4/5	Child/adult	1	111	Individuals receiving cash assistance
	.3P	1	Individuals receiving cash assistance	4/5	Child/adult	1	111	Individuals receiving cash assistance
	3R	1	Individuals receiving cash assistance	4/5	Child/adult	1	111	Individuals receiving cash assistance
	3U	1	Individuals receiving cash assistance	4/5	Child/adult	1	111	Individuals receiving cash assistance
	34	2	Medically needy	4/5	Child/adult	2	112	Medically needy
	37	2	Medically needy	4/5	Child/adult	2	112	Medically needy
	64	2	Medically needy	2	Blind/disabled	2	112	Medically needy
	67	$\frac{1}{2}$	Medically needy	2	Blind/disabled	2	112	Medically needy
	82	2	Medically needy	4	Child	2	112	Medically needy
	83	$\frac{1}{2}$	Medically needy	4	Child	2	112	Medically needy
	47	3	Poverty related	4	Child	3	113	Poverty related
	72	3	Poverty related	4	Child	3	113	Poverty related
	7 <u>2</u> 7A	3	Poverty related	4	Child	3	113	Poverty related
	8P	3	Poverty related	4	Child	3	113	Poverty related
	8R	3	Poverty related	4	Child	3	113	Poverty related
	38	4	Other	4/5	Child/adult	4	113	Other
	39	4	Other	4/5	Child/adult	4	114	Other
	40	4	Other	8	Foster care child	4	114	Other
	40	4	Other	8	Foster care child	4	114	Other
	45	4	Other	8	Foster care child	4	114	Other
	58	4	Other	2, 1, 4/5	Blind/disabled	4	114	Other
	59	4	Other	4/5	Child/adult	4	114	Other
	74	4	Other	4/5	Child	4	114	Other
	3T	4	Other	4/5	Child/adult	4	114	Other
	31 3V	4	Other	4/5	Child/adult	4	114	Other
	5F	4	Other	4/3 5	Adult	4	114	Other
	5F 5K	4	Other	8	Foster care child	4	114	Other
	6N	4	Other	2	Blind/disabled	4	114	Other
	7C	4	Other	4	Child	4	114	Other

	-		Federal Eligibility C	ode	MPR Eligibility Code	Unique MPR Eligibility Code	MPR Eligibility Code Description	
	State Eligibility Code	MAS Code						BOE Description
	7J	4	Other	4	Child	4	114	Other
	7K	4	Other	4	Child	4	114	Other
NC	MICLN ^a	0	Separate SCHIP	0		0	910	Separate SCHIP
	AAFCN^b	1, 4	Individuals receiving cash assistance	4, 5, 6, 7		1	911	Individuals receiving cash assistance
	MABCY	1	Individuals receiving cash assistance	2		1	911	Individuals receiving cash assistance
	MADCY	1	Individuals receiving cash assistance	2		1	911	Individuals receiving cash assistance
	MAFCN	1	Individuals receiving cash assistance	4, 5, 6, 7		1	911	Individuals receiving cash assistance
	MAFMN	2	Medically needy	4, 5		2	912	Medically needy
	MADNN ^c	3, 4	Poverty related	2		3	913	Poverty related
	MICNN	3	Poverty related	4		3	913	Poverty related
	MPWFN	3	Poverty related	5		3	913	Poverty related
	MPWNN	3	Poverty related	3		3	913	Poverty related
	HSFNN	4	Other	8		4	914	Other
	IASCN	4	Other	8		4	914	Other
	MAFNN	4	Other	4, 5		4	914	Other

Source: Documentation provided by the states for the enrollment files for the samples of recent enrollees and disenrollees for the 2002 congressionally mandated survey of SCHIP enrollees and disenrollees in 10 states.

^aBased on an email from Marilyn Ellwood on July 3, 2003, these children are part of the separate SCHIP program. As a result, they are given a MAS/BOE code of 00, as they are not Medicaid enrollees.

^bBased on an email from Lorenzo Moreno, of MPR, on 6/24/2003, the MPR eligibility code for AAFCN = 1.

^cBased on an email from Lorenzo Moreno, of MPR, on 6/24/2003, the MPR eligibility code for MADNN = 3.

BOE = basis of eligibility; MAS = maintenance assistance status.

2. Life-Table Methods: Descriptive Analysis

We used the life-table method, a statistical approach for analyzing data on duration of participation in a given status, for the descriptive analyses of enrollment and exit spells (Namboodiri and Suchindran 1987). Specifically, we used the life-table method for estimating the cumulative distribution of children who remained enrolled in SCHIP (and in Medicaid, in California and North Carolina) at specific durations since enrollment (that is, the "survival function" in the parlance of life-table methods). Similarly, we used a life table for estimating the cumulative distribution of children who reenrolled in SCHIP at specific durations since leaving the program.³⁵

The life table is the appropriate approach for overcoming one of the problems of eventhistory data (enrollment histories), that of censoring of the experience of individuals in a specific status. Censoring occurs when enrollment or exit spells are ongoing at the time the investigation ends (that is, the data set is truncated at December 31, 2002; see Figure C.1). Unless censoring present in the sample is adequately factored in, any estimates of the mean duration of enrollment in a specific status will be biased downward.

To estimate the enrollment and reenrollment life-table distributions for each subgroup of interest, for each state, for groups of states, and for all states pooled, we used STATA (StataCorp 2003). To estimate these distributions, we used the sample weights developed for the surveys of SCHIP and Medicaid enrollees and recent disenrollees to account for the fact that the enrollment and exit spells correspond to a representative sample of children in each state.^{36, 37}

³⁵The percentage of children who have reenrolled in SCHIP at selected durations since leaving SCHIP is calculated as $(1 - S_{[x]})$, where $S_{[x]}$ is the cumulative distribution of children who remain disenrolled from SCHIP at selected durations since leaving the program.

³⁶Neither STATA nor SUDAAN—another statistical package for analyzing complex survey data—allow for the specification of the survey design (a two-stage clustered design) for estimating the variances of the life table estimates. However, STATA allows for the use of sampling weights with life-table methods. (SUDAAN allows for

We used the estimates of the quartiles of the enrollment and reenrollment distributions to define the *tri-mean*, a robust measure of central tendency (Tukey 1977). This measure is defined as:

$$T = \frac{P_{25} + 2P_{50} + P_{75}}{4},$$

where P_{25} , P_{50} , and P_{75} denote, respectively, the 25th, 50th, and 75th percentiles of the cumulative survival distribution.³⁸ In some instances, at least one of the quartiles of the cumulative distribution could not be determined because of data censoring, so the tri-mean could not be estimated. In those instances, we reported the longest interval between enrollment and the end of the follow-up period, which can be interpreted as a lower bound of the median and trimean. To test whether the distributions of enrollment (or reenrollment) varied across subgroups, we used a variant of the log-rank test for weighted data, using Cox regression.^{39,40} We also estimated the percentage of children who exited at selected durations from the corresponding

⁽continued)

sampling weights and for the specification of the survey design only for proportional hazards models [see next section]). In our judgment, for a descriptive analysis such as the one presented in this report, it is more critical to use the appropriate weights in our estimates than to account for the survey design. Moreover, the estimator for the variance of life-table estimates is very different from that of simpler estimates, such as means and proportions, so there have been no attempts to calculate the life-table variances under complex sampling designs. Although weighted life-table estimates are unbiased, their variances could potentially be underestimated as the result of not accounting for the survey design.

³⁷We did not present the distribution for a given subgroup's category if it had less than 10 unweighted observations.

³⁸These percentiles correspond to the three quartiles of the distribution. The second quartile, or P_{50} , corresponds to the median of the distribution.

³⁹We used the so-called "Cox" test (StataCorp 2003), which is equivalent to fitting a proportional hazards model (see next section), with binary indicators for each of the subgroups under consideration. The test is whether the coefficients are zero and hinges on the assumption of proportionality between hazards across subgroups. None of the alternative tests to assess the equality of survivor functions across subgroups (such as the Peto-Peto test or the Wilcoxon test) have been developed for weighted data.

⁴⁰We did not present the p-value for this test if any subgroup category had fewer than five unweighted exits (or reentries).

survival distribution. For instance, in states in which eligibility is renewed every 12 months, we estimated the percentage of children who exited at first renewal as $S_{[13]} - S_{[11]}$.⁴¹

The sample size involved in the calculations varies by the duration of the interval between enrollment (or exit) and the end of the study period (December 2002). In the month of enrollment, the sample size is equal to all children in the study sample. However, as children leave the program or as the end of the study period arrives while the children are still in the program, the size of the sample decreases. Consequently, for long intervals since enrollment, the sample size might be too small to obtain robust estimates of the rate at which children exit SCHIP (or reenter it). As a result, the estimate of the percentage who remain in SCHIP at long durations since enrollment might be unstable and must be interpreted cautiously.

3. Life-Table Methods: Analysis of the Determinants of SCHIP Enrollment and Reenrollment

We used multivariate, life-table regression methods to examine the association between program experience and the length of enrollment and length of reenrollment for the samples of recent enrollees and disenrollees, respectively. The determinants and individual- or family-level control variables were constructed from both survey and program data.⁴² This methodology is called the *Cox proportional hazard model*, as this type of model assesses the effects of individual characteristics on the hazard (or conditional event rate) function, one of the life-table distributions (Namboodiri and Suchindran 1987). We used a SUDAAN program to fit this type of regression model to account for the sample weights and survey design. We also used a

⁴¹We allowed for an extra month in our estimate because the eligibility renewal process usually takes several weeks to complete. In Florida, which renews eligibility every 6 months, we estimated this percentage as S_{171} - S_{151} .

⁴²Age and whether the spell is the first ever are from the program data.

STATA program to test a key assumption of these models—whether the hazard function for a subgroup was proportional to the hazard function of another subgroup.⁴³

We report the exponentiated coefficients of the determinants of continuation of coverage or reenrollment. When the assumption that the hazard functions are proportional is violated, the exponentiated coefficient has the interpretation of an *average relative risk (or hazard ratio)*— that is, the average ratio over time of the probability of exiting (reenrolling) SCHIP at any duration since enrollment (exit) for children in a subgroup relative to the probability of exiting (reentering) for children in another subgroup, controlling for individual characteristics.⁴⁴ Therefore, this ratio can be interpreted as an average change in the probability of being in one subgroup relative to being in another, controlling for other characteristics.

⁴³This assumption means that, at any duration since enrollment, both the hazard function and the cumulative distribution of children who exit from (or reenter) SCHIP are parallel for any two subgroups. The difference between the functions for the two subgroups is proportional to the value of the coefficient of the subgroup indicator in the regression model.

⁴⁴We interpret all results in this manner, as doing so applies to cases in which the proportionality assumption is violated and to cases in which it is not violated.

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