



Carolina HPV Immunization Measurement and Evaluation (CHIME) Project

Updated 04/30/2010

Caregiver Survey (2007)

This survey was implemented from July-October, 2007 in five counties in southeastern North Carolina with caregivers (n=889) of adolescent girls ages 10-18.

Preferred citations:

Reiter, P. L., Brewer, N. T., Gottlieb, S., McRee, A. L., & Smith, J. S. (2009). Parents' health beliefs and HPV vaccination of their adolescent daughters. *Social Science & Medicine*. 69(3): 475-480. PMID: 19540642. [Article abstracted in *Perspectives on Sexual and Reproductive Health*. 2010. 42(1): 65-66].

McRee, A. L., Brewer, N. T., Reiter, P. L., Gottlieb, S., & Smith, J. S. (In press). The Carolina HPV Immunization Attitudes and Beliefs Scale (CHIAS): Scale development and associations with intentions to vaccinate. *Sexually Transmitted Diseases*. PMID: 19940807.

	Construct	Item	Response Scale
	[...] Brackets indicate unread text including instructions to the programmer, interviewer or respondent (e.g., some response scales)		
A100	Sex	[code sex of respondent based on observation and answers to questions above]	1 = female 2 = male
	<i>Transition</i>	First I'd like to ask a few background questions.	
HPV (respondent)			
B100	HPV awareness	Have you heard of HPV or human papillomavirus [PAP PILL O MA VIRUS?]	[1 = yes 2 = no, skip to B200 8 = Refused, skip to B200 9 = Don't know, skip to B200]
	<i>Transition</i>	[If heard of HPV] Next are 8 questions on your opinions about HPV. [Randomize next 8 items]	
B110	General HPV knowledge	Do you think HPV can cause cervical cancer?	[1 = yes 2 = no 8 = Refused 9 = Don't know]

B120	General HPV knowledge	Do you think HPV is a sexually transmitted disease?	"
B130	General HPV knowledge		"
B140	General HPV knowledge	Do you think HPV infection can go away without treatment?	"
B150	General HPV knowledge	Do you think getting regular Pap tests reduces a woman's chances of getting cervical cancer?	"
B160	General HPV knowledge	Do you think HPV can cause abnormal Pap smears?	"
B170	General HPV knowledge	Do you think HPV can cause genital warts?	"
B180	General HPV knowledge	Do you think HPV can cause herpes?	"
<i>HPV Vaccination</i>			
B300	HPV vaccine awareness	<p>HPV is a common sexually transmitted infection that sometimes leads to genital warts, abnormal Pap tests, and cervical cancer. An HPV vaccine is now available that protects against most genital warts and cervical cancer. Sometimes it's called the cervical cancer vaccine, HPV shot, or Gardasil. I'll call it the HPV vaccine.</p> <p>Have you ever heard of the HPV vaccine before today?</p>	[1 = yes 2 = no, skip to B400 8 = Refused, skip to B400 9 = Don't know, skip to B400]
B310	Information sources	[If yes] Have you ever heard about the HPV vaccine from any of these sources? a health care provider	[1 = yes 2 = no 8 = Refused 9 = Don't know]
B320	Information sources	a friend or family member	"
B330	Information sources	a brochure or poster	"
B340	Information sources	a commercial or ad from a drug company	"
B350	Information sources	<p>Now think about what you have heard about the HPV vaccine in news stories or on websites. This does not include advertisements.</p> <p>Have you heard about the HPV vaccine... on TV [Instruction to interviewers: We want to know if heard about in news story, not through advertising]</p>	"

B360	Information sources	on the radio	"
B370	Information sources	on the Internet	"
B380	Information sources	in a newspaper	"
B390	Information sources	[SKIP if B350-B380 are all no or refused] Has what you have heard about the HPV vaccine in the media, say in the newspaper or on TV, been:	1= Mostly positive 2= Mostly negative 3= Or would you say it's been neutral [8 = Refused 9 = Don't know]
B400	Information seeking	Imagine you had a strong need to get information about the HPV vaccine. Where would you go? [PROBE: Where else?]	[Open ended response, interviewer codes into categories below. 1 = Books 2 = Brochures, pamphlets etc. 3 = Doctor or other healthcare provider 4 = Family, friend or coworker 5 = Library 6 = Internet 7 = Magazine 8 = Newspaper 9 = Telephone information (1-800-NUMBER) 10 = Cancer Organization 11 = Other [record] 98 = Refused, SKIP TO B430 99 = Don't know, SKIP TO B430]
B440	Daughters' name/ initials	Could you please tell me the first name of your <<SRU select>> 10-18 year old female child? [PROBE: If declines to give first name, ask for initials]	[Use SRU standard selection procedure to -randomly select one 10-18 year old daughter to be discussed -use SRU wording to describe which daughter it is (e.g., youngest, oldest, etc.) [record name or initials 88 = Refused 99 = Don't know]
B450	Daughter's year of birth	What year was [name or initials] born? [Record month on next screen]	[record year 88 = Refused 99 = Don't know] [Allow only ages 10-18]
B455	Daughter's month of birth	What month was [name or initials] born?	[record month 1 = January... 12 = December 88 = Refused 99 = Don't know] [Allow only ages 10-18]

B460		What is her age?	[Record 10-18 88 = Refused 99 = Don't know]
B500	Cue to action	Thank you. All of the next questions about vaccination will be about [name]. In the past year, has a doctor or health care provider recommended that [name] get the HPV vaccine?	[1 = yes, SKIP to B520 2 = no 8 = Refused 9 = Don't know]
B510	Ask for vaccine	In the past year, have you talked to a doctor or other health care provider about the HPV vaccine for [name]? [Instruction: If resp asks whether it matters if mother or DOCTOR initiated the conversation, say it doesn't matter]	[1 = yes 2 = no 8 = Refused 9 = Don't know]
B520	Vaccination coverage for daughter	Has [name] had any shots of the HPV vaccine?	[1 = yes 2 = no, SKIP to B620 8 = Refused, SKIP to B700 9 = Don't know, SKIP to B700]
B530	Dtr vaccinated - 1	[If 1] What month and year did she get the first shot?	[1 = gave date 2 = don't know, but she got it, SKIP to B560 8 = Refused, SKIP to B560]
B540	Dtr vaccinated - 1 month	[If 1, record month]	[1 = Jan 2 = Feb 3 = Mar... 12 = Dec 88 = Refused 99 = Don't know]
B550	Dtr vaccinated - 1 year	[If 1, record year]	[Range 2006-2007] [8888 = Refused 9999 = Don't know]
B560	Dtr vaccinated - 2	What month and year did she get the second shot?	[1 = gave date 2 = don't know, but she got it, SKIP to B590 3 = she did NOT get a second shot, SKIP to B630 8 = Refused, SKIP to B630]
B570	Dtr vaccinated - 2 month	[record month]	[1 = Jan 2 = Feb 3 = Mar... 12 = Dec 88 = Refused 99 = Don't know]
B580	Dtr vaccinated - 2 year	[record year]	[Range 2006-2007] [8888 = Refused 9999 = Don't know]

B590	Dtr vaccinated - 3	What month and year did she get the third shot?	[1 = gave date 2 = don't know, but she got it, SKIP to B630 3 = she did NOT get a third shot, SKIP to B630 8 = Refused, SKIP to B630]
B600	Dtr vaccinated - 3 month	[record month]	1 = Jan 2 = Feb 3 = Mar... 12 = Dec [88 = Refused 99 = Don't know]
B610	Dtr vaccinated - 3 year	[record year]	[Range 2006-2007] [8888 = Refused 9999 = Don't know] [after any response, SKIP to B630]
B620	Reasons for not vaccinating daughter	[If B520 is 2-not vaccinated] What is the main reason she has not gotten any HPV shots?	[Open ended response. Interviewer checks all that apply BUT steers toward one response. 1 = Provider did not have available 2 = Provider said should not get vaccine 3 = Vaccine cost too much 4 = Not covered by insurance 5 = Concerns about vaccine safety 6 = Did not feel my daughter needed it 7 = Haven't been to the doctor recently 8 = Other, record _____ 98 = Refused 99 = Don't know]
B620oe			[record open end] [After any response, SKIP to B700]
B630- B639	Cue to action	[If B520 = 1- vaccinated] What is the main reason you decided to get [name] vaccinated?	[Open ended response. Interviewer checks all that apply. 1 = to prevent cervical cancer 2 = dtr at high risk for cervical cancer 3 = my doctor said to 4 = other _____ 88 = Refused 99 = don't know]

B650- B659	Cue to action	[If B520 = 1- vaccinated] What concerns did you have when you decided to get [name] the HPV vaccine?	[Open ended response. Interviewer checks all that apply. 1 = Never heard of vaccine 2 = Need more info/don't know enough about it 3 = Vaccine too new 4 = Vaccine unsafe 5 = Vaccine cost too much 6 = Vaccine might make daughter have sex 7 = Daughter is too young 8 = Other, record _____ 98 = Refused 99 = Don't know] [SKIP to 750 after any response.]
B650oe	Cue to action		[record open ended resp] [SKIP to 750 after any response.]
B700	HPV vaccine intentions	[If B520 = 2, 8, or 9-not vaccinated] The HPV vaccine is recommended for all girls aged 11-12. It can also be given as early as age 9 and up to age 26 for those that miss getting it early. It protects against most genital warts and cervical cancer and requires 3 doses or shots over 6 months. Before today, have you thought about getting [name] the HPV vaccine?	[1 = yes 2 = no, SKIP to B 710 8 = Refused 9 = Don't know]
B705	HPV vaccine intentions	[If B520 = 2, 8, or 9-not vaccinated] Which of the following best describes how you feel about getting [name] the HPV vaccine in the next year?	1 = I DON'T want her to get the vaccine 2 = I DO want her to get the vaccine 3 = Undecided [8 = Refused 9 = Don't know]
B710	HPV vaccine intentions	[If B520 = 2, 8, or 9-not vaccinated] How likely are you to get [name] the HPV vaccine in the next year? Would you say you... [PROBE: If DK, ask "Based on what you know today, how likely are you to get [name] the HPV vaccine in the next year?"]	1 = Definitely won't 2= Probably won't 3 = Probably will 4 = Definitely will [8 = Refused 9 = Don't know, no opinion]
B720	HPV vaccine intentions, free	[If B520 = 2, 8, or 9-not vaccinated] If the vaccine were <u>completely FREE</u> , how likely would you be to get the HPV vaccine for her in the next year?	"

B730	HPV vaccine intentions, 1 shot	[If B520 = 2, 8, or 9-not vaccinated] What if the vaccine <u>required only one shot instead of three?</u> How likely would you be to get the HPV vaccine for her in the next year?	" [SKIP to B765 after any response]
B740	HPV vaccine intentions, genital warts and cervical cancer	[If B520 = 2, 8, or 9-not vaccinated] What if the vaccine prevented <u>cervical cancer but not genital warts?</u> How likely would you be to get the HPV vaccine for her in the next year?	"
B750		[If B520 = 1- vaccinated] The HPV vaccine is recommended for all girls aged 11-12. It can also be given as early as age 9 and up to age 26 for those that miss getting it early. It protects against most genital warts and cervical cancer and requires 3 doses or shots over 6 months.	
B765		Please tell me how much you agree or disagree with the following statements. [Randomize order of B770-B890.]	
B770	HPV vaccine - safe	I think the HPV vaccine is unsafe.	1 = strongly agree 2 = somewhat agree 3 = somewhat disagree 4 = strongly disagree [8 = Refused 9 = Don't know, no opinion]
B780	HPV vaccine - short term	The HPV vaccine might cause short term problems, like fever or discomfort.	1 = strongly agree 2 = somewhat agree 3 = somewhat disagree 4 = strongly disagree [8 = Refused 9 = Don't know, no opinion]
B790	HPV vaccine - long term	The HPV vaccine might cause lasting health problems.	" [read only as needed]

B800	HPV vaccine - drug co	The HPV vaccine is being pushed to make money for drug companies	"
B810	HPV vaccine - new	[IF dtr not vacc.] The HPV vaccine is so new that I want to wait awhile before deciding if my daughter should get it.	"
B820	HPV vaccine - 2much	I am concerned about giving [name] too many vaccines.	"
B830	Perceived norms - descriptive	Other parents in my community are getting their daughters the HPV vaccine.	"
B840	Barrier to action	[IF dtr has less than 3 doses of vaccine] I am concerned that the HPV vaccine costs more than I can pay.	"
B850	Time sensitive decision	[IF dtr not vacc.] My daughter will get the most benefit from the HPV vaccine if she gets it sooner rather than later.	"
B860	Reversible decision	The HPV vaccine lasts a person's entire life.	"
B870	Need info	[IF dtr not vacc.] I don't have enough information about the HPV vaccine to decide whether to give it to [name].	"
B880	HPV vaccine - girls	All adolescent girls should get the HPV vaccine.	"
B890	HPV vaccine - boys	If the vaccine is approved for boys, all adolescent boys should get the HPV vaccine.	"
B900	HPV vaccine - more sex	If a teenage girl gets the HPV vaccine, she may be more likely to have sex.	"
B910	HPV vaccine - young	[Name] is too young to get a vaccine for a sexually transmitted infection like HPV.	"
B920	Expected outcome feedback	I would know if [name]'s level of sexual activity increases. [PROBE: If R says that daughter is not sexually active, ask: I would know if [name] becomes sexually active.]	"
B930	Expected outcome feedback	If [name] was diagnosed with an HPV infection that can lead to cervical cancer, I would hear about it.	"
<i>HPV and Cervical</i>			

<i>cancer (daughter)</i>			
C100	Perceived vaccine effectiveness - HPV	How effective do you think the HPV vaccine is in preventing genital warts?	1 = Slightly 2 = Moderately 3 = Very 4 = Extremely [8 = Refused 9 = Don't know]
C110	Perceived vaccine effectiveness- cervical cancer	How effective do you think the HPV vaccine is in preventing cervical cancer?	"
C120	Perceived severity of cervical cancer	How serious would it be if [name] got CERVICAL CANCER?	"
C130	Perceived likelihood of HPV, daughter	[If not vaccinated] Without the vaccine, what do you think is the chance that [name] will get HPV in the future?	1 = No chance, 2 = Low, 3 = Moderate, or a 4 = High chance [8 = Refused 9 = Don't know]
C140	Perceived likelihood of cervical cancer	[If not vaccinated] Without the vaccine, what do you think is the chance that [name] will get CERVICAL CANCER in the future?	"
C150	Perceived likelihood of cervical cancer, average girl daughter's age	[If not vaccinated] What do you think is the chance that North Carolina girls your daughter's age will get CERVICAL CANCER in the future?	"
C160	Perceived likelihood of cervical cancer, average girl daughter's age	[If not vaccinated] Do you think your daughter is more or less likely than other North Carolina girls her age to get CERVICAL CANCER in the future?	1 = Less likely 2 = Just as likely 3 = More likely [4 = Already had it 8 = Refused 9 = Don't know]
C170	Perceived likelihood of HPV - if vacc	What if your daughter DOES get the vaccine. What is the chance that she will get HPV in the future?	1 = No chance, 2 = Low, 3 = Moderate, or a 4 = High chance [8 = Refused 9 = Don't know]
C180	Perceived likelihood of cervical cancer - if vacc	[If not vaccinated] What if your daughter DOES get the vaccine. What is the chance that she will get CERVICAL CANCER in the future?	"

C190	Perceived likelihood of cervical cancer - if vacc	[If vaccinated] Given that your daughter has been vaccinated against HPV, what is the chance that she will get CERVICAL CANCER in the future?	"
C200	Anticipated regret	[if not vaccinated] Imagine that [name] got an HPV infection that could lead to cervical cancer, but the HPV vaccine might have prevented it. How much would you regret that she did NOT get the HPV vaccine?	1 = Not at all 2 = A little 3 = A moderate amount 4 = A lot [8 = Refused 9 = Don't know]
C210	Anticipated regret	Imagine that your daughter became more sexually active earlier than she would have otherwise because she got the HPV vaccine. How much would you regret that she DID get the vaccine?	"
C220	Omission vs. commission	[Participants randomly assigned to receive one of 20 vignettes; in separate document attached]	"
<i>Programmatic issues</i>			
Thank you. That is really helpful. Now I'll ask about [name]'s medical care.			
D100	Physician utilization	How many times did [name] visit a doctor, health care provider, or clinic in the past year?	[record open ended, range 0-100]
D120	Physician utilization	[IF > 0 visits] How many of these visits were for preventive care like a physical, a check-up, or shots? _____	[record open ended, max = total - visits in previous q]
D130	Regular provider	What kind of health care provider does [name] see most often for health care visits?	[Select only one] 1 = Family doctor or general practitioner 2 = Pediatrician 3 = Gynecologist or Ob/Gyn 4 = Emergency room/urgent care provider 6 = Other [record] [8 = Refused 9 = Don't know]
D130oe		[record only one open end response]	
D140	Subjective risk	Do you think [name] is in the age group that health officials recommend get the HPV vaccine?	[1 = yes 2 = no 8 = Refused 9 = Don't know]

D150- D159	Preferences related to HPV vaccine delivery	[if dtr not vacc] If you decided to get [name] the HPV vaccine, where would you go?	[Open-ended response. Interviewer checks all that apply.] [1 = Family doctor or general practitioner 2 = Pediatrician 3 = Gynecologist or Ob/Gyn 4 = Emergency room/urgent care facility 5 = Public or community clinic (record name of clinic) 6 = Family planning clinic 7= School clinic 8 = Other (_____ record open ended) 88 = refused 99 = don't know]
D150oe		[record open end]	
D180- D189	Preferences related to HPV vaccine delivery	[if dtr vacc] Where did you go to get [name] the HPV vaccine?	[Open-ended response. Interviewer checks all that apply.] [1 = Family doctor or general practitioner 2 = Pediatrician 3 = Gynecologist or Ob/Gyn 4 = Emergency room/urgent care facility 5 = Public or community clinic (record name of clinic) 6 = Family planning clinic 7= School clinic 8 = Other (_____ record open ended) 88 = refused 99 = don't know]
D180oe		[record open end]	
D210	Preferences related to HPV vaccine delivery	[if dtr not vacc] If it were available at [name]'s school, would you want her to get it there?	[1 = yes 2 = no 8 = Refused 9 = Don't know]
D220	Barriers, not vacc	[if dtr not vacc] Next are some questions about a health care provider or clinic that could give the HPV vaccine to [name] if you wanted her to get it. How hard do you think it would be to find a provider or clinic that has the vaccine available? [Instruction: If they ask "right now", say yes.]	1 = not hard at all 2 = somewhat hard 3 = very hard [8 = refused 9 = don't know]
D230	Barriers, not vacc	[if dtr not vacc] How hard do you think it would be to find a provider or clinic where you can afford the vaccine?	"

D240	Barriers, not vacc	[if dtr not vacc] How hard do you think it would be to find a provider or clinic that is easy to get to?	"
D250	Barriers, not vacc	[if dtr not vacc] How hard do you think it would be to find a provider or clinic where you don't have to wait long to get an appointment?	"
D260	Barriers, vacc	[if dtr IS vacc] Next are some questions about getting [name] the HPV vaccine. How hard was it to find a provider or clinic that had the vaccine available?	1 = not hard at all 2 = somewhat hard 3 = very hard [8 = refused 9 = don't know]
D270	Barriers, vacc	[if dtr IS vacc] How hard was it to find a provider or clinic where you could afford the vaccine?	"
D280	Barriers, vacc	[if dtr IS vacc] How hard was it to find a provider or clinic that was easy to get to?	"
D290	Barriers	[if dtr IS vacc] How hard was it to find a provider or clinic where you didn't have to wait long to get an appointment?	"
D300	Mandatory vaccination	Some states are trying to pass laws that would require all 11 and 12 year-old girls to get the HPV vaccine before they are allowed to start 6th grade. Please tell me how strongly you agree or disagree with the following statements. I think these laws are a good idea.	1 = strongly agree 2 = somewhat agree 3 = somewhat disagree 4 = strongly disagree [8 = Refused 9 = Don't know]
D310	Mandatory vaccination	This HPV vaccine is too new to have laws like these.	"
D320	Mandatory vaccination	It is okay to have these laws ONLY if parents can opt out if they want to.	"
D330	Mandatory vaccination	The decision to give the HPV vaccine should be the parents' alone.	"
D350	Insurance coverage	Does [name] have any form of health insurance?	[1 = yes 2 = no 8 = Refused 9 = Don't know]
D360		[if yes to insurance] [Is [name] covered by any of the following types of health insurance? Is she covered by... Medicaid (a health insurance program for low-income families)	"
D370		North Carolina Health Choice for Children program	"

D375		Health insurance from the military, or Tricare	
D380		Health insurance obtained through employment	"
D390		Any other kind of health insurance or health care plan	"
D400	Vaccine coverage for daughter	Does [name]'s insurance cover the HPV vaccine?	1 = Yes 2 = No READ: 9 = Don't know [3 = Maybe 8 = Refused]
D410	Paying for vaccine	[If dtr not vaccinated] If you wanted to get [name] the HPV vaccine, do you think it would be...	[Read responses. Open ended. Check ALL that apply.] 1 = fully covered by your insurance 2 = covered by your insurance with a copay by you 2 = fully paid for by you out of pocket 3 = free at a community or public health clinic 4 = free at a private doctor's office 5 = or paid for in some other way [IF 5, PROBE and record response] [8 = Refused 9 = don't know how you'd pay for it]
D410oe	Paying for vaccine	[record open ended response]	
D440	Willingness to pay	The HPV shots cost about \$360 total when paid for out of pocket. What is the most you would pay out of pocket to get [name] the HPV vaccine? This is from your own money, not paid by insurance.	[record open ended \$0-360]
D450	Paying for vaccine	[If dtr IS vaccinated] When you got [name] the HPV vaccine, how much did it cost for the first dose? Again, this is from your own money, not paid by insurance.	[record open ended, not as number to allow verbal responses 8888 = refused 9999 = don't recall/don't know]

D460	Paying for vaccine	[If dtr IS vaccinated] When you got [name] the HPV vaccine, how was it paid for? Was it...	[Read responses. Open ended. Check ALL that apply.] 1 = fully covered by your insurance 2 = covered by your insurance with a copay by you 2 = fully paid for by you out of pocket 3 = free at a community or public health clinic 4 = free at a private doctor's office 5 = or paid for in some other way [IF 5, PROBE and record response] [8 = Refused 9 = don't know how you'd pay for it]
D460oe		[record open end]	
D500	VFC coverage for daughter	To the best of your knowledge, is [name] eligible for the Vaccines for Children program or VFC?	[1 = yes 2 = no 3 = don't know what VFC is 4 = don't know if she is covered 8 = Refused] [PROBE: If resp says DK, probe whether don't know what VFC is or don't know if she is covered. If both, then enter 3]
D510	Dtr grade	What grade in school will [name] be in the fall?	[1 = not in school 3 = third grade 4 = fourth grade 5 = fifth grade 6 = sixth grade 7 = seventh grade 8 = eighth grade 9 = high school 10 = trade school 11 = college 12 = other 88 = don't know 99 = refused]
D510	caretaker role	How are you related to [name]?	[1 = parent or legal guardian 2 = grandparent 3 = other , record open end 8 = don't know 9 = refused]
D510oe	caretaker role	[record open end]	
<i>Paps and Cervical cancer (women respondents only)</i>			

	<i>Transition</i>	[ask E100-E210 if A100 is 1 (female); if 2 (male) SKIP to E230] [Transition read of all respondents] Next are some questions about women's health issues.	
B200	History of CC	[If Male, item will read: Has someone you care about ever had cervical cancer?] Have you or someone you care about ever had cervical cancer?	[1 = yes 2 = no 8 = Refused 9 = Don't know]
B210	History of HPV	[If Male, item will read: Has someone you care about ever had genital warts?] Have you or someone you care about ever had genital warts?	"
E100	History cervical cancer (told by doctor)	[If B210 is 1] Has a doctor or other medical professional ever told you that you had cervical cancer?	[1 = Yes 2 = No 8 = Refused 9=Don't know]
E110	Last pap	A Pap smear is a test for cancer of the cervix done during a pelvic exam. When did you have your most recent Pap test?	1= 3 years ago or less [SKIP to E140] 2 = More than 3 years ago 3 = Never had one [8 = Refused [SKIP to E140] 9 = Don't know [SKIP to E140]]
E120	Hysterectomy	[E110 = 2 or 3/ over 3 years since last pap] Have you had a hysterectomy? [IF NEEDED: A hysterectomy is an operation to remove the uterus (womb).]	[1 = Yes, SKIP to E160 2 = No 8 = Refused 9=Don't know]
E130	New cervical cancer test	[If last pap > 3 years ago] If there were a new type of Pap test that women could give themselves at home, would you be willing to use it?	1 = yes 2 = no [8 = Refused 9 = Don't know]
E140	Pap due	When are you due for your next Pap test?	1=In the next year 2=In the next three years [8 = Refused 9 = Don't know]
E150	Pap intentions	How likely are you to get your next recommended Pap test in the next 3 years? Would you say	1 = Very unlikely 2 = Somewhat unlikely 3 = Somewhat likely 4 = Very likely [8 = Refused 9 = Don't know, no opinion]
E160	History abnormal pap	[IF E110 = 1 oe 2 / had a Pap smear] How many times have you had an abnormal Pap test result?	1 = Never [SKIP to E200] 2 = Once 3 = Twice 4 = Three or more times [8 = Refused [SKIP to E200] 9 = Don't know [SKIP to E200]]

E170	Colposcopy or biopsy	[If E160 = 2, 3 or 4 / "abnormal Pap"] After an abnormal Pap test, some women have a colposcopy [COLE PAW SCOE PEE]. A doctor looks at your cervix with a magnifier and light. Sometimes the doctor does a biopsy [BUY AWP SEE] to remove a small piece of tissue. Have you ever had a colposcopy or biopsy of your cervix?	1 = yes 2 = no, SKIP to E200 9 = don't remember, SKIP to E190 [8 = refused, SKIP to E200]
E180	Colposcopy results	[If E170 = 1, recalls a biopsy or colposcopy] Did the doctor or health care provider tell you that the results of the colposcopy or biopsy were abnormal?	1 = yes 2 = no 3 = don't remember [8 = refused 9 = don't know]
E190	Dysplasia treatment	[If yes or "Don't remember" [colposcopy or biopsy]] Sometimes a colposcopy or biopsy finds a problem. Then, some women have a medical treatment that freezes, burns, or cuts out unhealthy cells in the cervix. Some names for the treatments are "LEEP" or loop, "cryotherapy" [CRIE O THERE UH PEE], laser, and cone biopsy. Did you ever receive one of these treatments after a colposcopy or biopsy?	1 = yes 2 = no 3 = don't remember [8 = refused 9 = don't know]
E200	Negative affect	How anxious are you about getting cervical cancer? Would you say...	1 = Not at all 2 = A little 3 = Moderately 4 = Very [8 = Refused 9 = Don't know]
E210	Trust in pap	[Ask of all women respondents] How much do you trust Pap tests to give accurate information about your health?	1 = not at all 2 = a little 3 = a moderate amount 4 = a lot [8 = refused 9 = don't know]
E230	Cause	[Ask of ALL resp] How much do you think getting regular Pap tests reduces women's chances of getting cervical cancer?	"
E220	Consequences of cervical cancer	[Ask of ALL resp] If you got cervical cancer, how much would it affect your life?	"
<i>Background</i>			
	Transition	We're almost done. I just have a few more background questions	
F100	Age	What is your age?	[record]

F101		[If refused previous item] I'm going to read you some age ranges. Please stop me when I get to the category that applies to you.	1 = Younger than 30 2 = 30-39 3 = 40-40 4 = 50-59 5 = 60 and over [8 = Refused 9 = Don't know]
F102		[If refused F100] Are you 39 or younger?	[1 = yes 2 = no 8 = Refused 9 = Don't know]
F110	Hispanic ethnicity	Are you Hispanic or Latino?	[1 = yes 2 = no 8 = Refused 9 = Don't know]
F120- F126	Race	What is your race or ethnicity?	[read responses only if needed. Check all that apply 1=White 2=Black or African American 3=Asian 4=Native Hawaiian or Pacific Islander 5=American Indian or Alaska Native 6=Other, please specify [open ended]] [never read: 8 = Refused 9 = Don't know]
F120oe	Race		[record open end from F120]
F130	Race	[IF multiple races stated] Which one of these groups would you say best represents your race or ethnicity?	1=White 2=Black or African American 3=Asian 4=Native Hawaiian or Pacific Islander 5=American Indian or Alaska Native [6=Other, please specify [open ended] 8 = Refused 9 = Don't know]
F130oe	Race		[record open end from F130]
F140	Marital status	What is your marital status?	[read responses only if needed: 1=Married or living as married 2=Divorced 3=Widowed 4=Separated 5= Single or never married 6 = A member of an unmarried couple] [never read: 8 = Refused 9 = Don't know]

F150	Shared decision	[If daughter NOT vaccinated] In your household, who would decide if [name] gets the HPV vaccine?	[Check all that apply] 1 = respondent 2 = spouse/partner 3 = child 4 = Other [8 = Refused 9 = Don't know, no opinion]
F160	Shared decision	[If daughter IS vaccinated] In your household, who decided whether [name] got the HPV vaccine?	[Check all that apply] 1 = respondent 2 = spouse/partner 3 = child 4 = Other [8 = Refused 9 = Don't know, no opinion]
F170		[If [name] is vaccinated, use lead in reading "other than"; if [name] is not vaccinated, use lead in reading "not including"] "Lead in" [name], have you or anyone in your family received any doses of the HPV vaccine? [If MALE, other than [name], has anyone in your family received any doses of the HPV vaccine received any doses of the HPV vaccine?	1 = yes 2 = no [8 = Refused 9 = Don't know]
F175		Who was it that received the vaccine?	[Check all that apply] 1 = respondent 2 = Child's mother (if other than R) 3 = Child's sister 4 = Other relative (specify) 8 = Refused 9 = Don't know
F176		[If F170 is 2, 8, or 9 and if F170 is 1 and F175 is not 1] How likely are you to get the HPV vaccine for yourself in the next year? Would you say you....	1 = Definitely won't 2 = Probably won't 3 = Probably will 4 = Definitely will [8 = Refused 9 = Don't know, no opinion]
F180	SES - Education level	What is the highest grade or year of school you completed?	[read responses only if needed: 1=Never attended school or only attended kindergarten 2=Grades 1-8 (Elementary) 3=Grades 9-11 (Some high school) 4=Grade 12 or GED (High school graduate) 5=College one year to three years (some college or technical school) 6=College four years or more (college graduate) [never read: 8 = Refused 9 = Don't know]

F210	SES- Income	Is your total family household income, before taxes, under or over \$20,000?	1 = Under 20K, go to F211 2 = Over 20K, go to F212 [8 = Refused, go to G100 9 = Don't know, go to G100]
F211	"	Is it under \$10,000?	1 = yes, go to G100 2 = no, go to G100 [8 = Refused, go to G100 9 = Don't know, go to G100]
F212	"	Is it over \$30,000?	1 = yes, go to F213 2 = no, go to G100 [8 = Refused, go to G100 9 = Don't know, go to G100]
F213	"	Is it over \$40,000?	1 = yes, go to F214 2 = no, go to G100 [8 = Refused, go to G100 9 = Don't know, go to G100]
F214	"	Is it over \$50,000?	1 = yes, go to F215 2 = no, go to G100 [8 = Refused, go to G100 9 = Don't know, go to G100]
F215	"	Is it over \$60,000?	1 = yes, go to F216 2 = no, go to G100 [8 = Refused, go to G100 9 = Don't know, go to G100]
F216	"	Is it over \$75,000?	1 = yes, go to G100 2 = no, go to G100 [8 = Refused, go to G100 9 = Don't know, go to G100]
F220	Number of phone lines reaching HH	Does your household have more than one phone number?	1 = Yes 2 = No, skip to close [8 = Refused 9=Don't know]
F221	"	What are those numbers used for? [Check all that apply]	1 = Cell phone 2 = Dedicated fax line 3 = Dedicated computer line 4 = Dedicated business line 5 = Additional household number [if yes, go to F410]
F222	"	You said your household has phone numbers that are not for cell phones, or computer, fax, or business lines. How many of these additional numbers do you have?	[Enter numerical value]
G100	Recontact	Thank you so much. That is the end of the survey. What we learn from you and other parents may affect policies about HPV vaccination in North Carolina and help girls in the state get better health care.	

	Close	That's my last question. Everyone's answers will be combined to give us information about parents' vaccination decisions. Thank you very much for helping UNC and the CDC in this important study.	
--	-------	--	--

Caregiver Survey Instrument Continued: Vignettes used for item C220

Vignette	Topic	Req	Vacc	<i>Genital warts</i> (soon hazard from NOT vaccinating)	
1	1	0	0	<p>The HPV vaccine prevents most genital warts.</p> <p>Imagine that [name]'s school will give her a FREE HPV vaccine, but only if you REQUEST it. You choose NOT to get her the vaccine, and during her teens she gets genital warts.</p> <p>How much would you regret that she did NOT get the vaccine?</p>	<i>Vaccination not required, no vaccination</i>
2	1	0	1	<p>The HPV vaccine prevents most genital warts.</p> <p>Imagine that [name]'s school will give her a FREE HPV vaccine, but only if you REQUEST it. You choose for her to go ahead and GET the vaccine, but during her teens she gets genital warts anyway.</p> <p>How much would you regret that she GOT the vaccine?</p>	<i>Vaccination not required, vaccination</i>
3	1	1	0	<p>The HPV vaccine prevents most genital warts.</p> <p>Imagine that [name]'s school REQUIRES students to get a FREE HPV vaccine, but you CAN request that she NOT get it. You choose NOT to get her the required vaccine, and during her teens she gets genital warts.</p> <p>How much would you regret that she did NOT get the vaccine?</p>	<i>Vaccination required, no vaccination</i>
4	1	1	1	<p>The HPV vaccine prevents most genital warts.</p> <p>Imagine that [name]'s school REQUIRES students to get a FREE HPV vaccine, but you CAN request that she NOT get it. You choose for her to go ahead and GET the required vaccine, but during her teens she gets genital warts anyway.</p> <p>How much would you regret that she GOT the vaccine?</p>	<i>Vaccination required, vaccination</i>

Vignette	Topic	Req	Vacc	<i>Abnormal Pap tests</i> (later hazard from NOT vaccinating)	
5	2	0	0	<p>The HPV vaccine prevents most HPV infections that can cause abnormal Pap tests.</p> <p>Imagine that [name]'s school will give her a FREE HPV vaccine, but only if you REQUEST it. You choose NOT to get her the vaccine, and she has an abnormal Pap test later in life.</p> <p>How much would you regret that she did NOT get the vaccine?</p>	<i>Vaccination not required, no vaccination</i>
6	2	0	1	<p>The HPV vaccine prevents most HPV infections that can cause abnormal Pap tests.</p> <p>Imagine that [name]'s school will give her a FREE HPV vaccine, but only if you REQUEST it. You choose for her to go ahead and GET the vaccine, but she has an abnormal Pap test later in life anyway.</p> <p>How much would you regret that she GOT the vaccine?</p>	<i>Vaccination not required, vaccination</i>
7	2	1	0	<p>The HPV vaccine prevents most HPV infections that can cause abnormal Pap tests.</p> <p>Imagine that [name]'s school REQUIRES students to get a FREE HPV vaccine, but you CAN request that she NOT get it. You choose NOT to get her the required vaccine, and she has an abnormal Pap test later in life.</p> <p>How much would you regret that she did NOT get the vaccine?</p>	<i>Vaccination required, no vaccination</i>
8	2	1	1	<p>The HPV vaccine prevents most HPV infections that can cause abnormal Pap tests.</p> <p>Imagine that [name]'s school REQUIRES students to get a FREE HPV vaccine, but you CAN request that she NOT get it. You choose for her to go ahead and GET the required vaccine, but she has an abnormal Pap test later in life anyway.</p> <p>How much would you regret that she GOT the vaccine?</p>	<i>Vaccination required, vaccination</i>

Vignette	Topic	Req	Vacc	HPV → cervical cancer (soon and later hazard from NOT vaccinating)	
9	3	0	0	<p>The HPV vaccine prevents most HPV infections that lead to cervical cancer.</p> <p>Imagine that [name]'s school will give her a FREE HPV vaccine, but only if you REQUEST it. You choose NOT to get her the vaccine, and in her teens she gets an HPV infection that could lead to cervical cancer later in life.</p> <p>How much would you regret that she did NOT get the vaccine?</p>	<i>Vaccination not required, no vaccination</i>
10	3	0	1	<p>The HPV vaccine prevents most HPV infections that lead to cervical cancer.</p> <p>Imagine that [name]'s school will give her a FREE HPV vaccine, but only if you REQUEST it. You choose for her to go ahead and GET the vaccine, but in her teens she still gets an HPV infection that could lead to cervical cancer later in life.</p> <p>How much would you regret that she GOT the vaccine?</p>	<i>Vaccination not required, vaccination</i>
11	3	1	0	<p>The HPV vaccine prevents most HPV infections that lead to cervical cancer.</p> <p>Imagine that [name]'s school REQUIRES students to get a FREE HPV vaccine, but you CAN request that she NOT get it. You choose NOT to get her the required vaccine, and in her teens she gets an HPV infection that could lead to cervical cancer later in life.</p> <p>How much would you regret that she did NOT get the vaccine?</p>	<i>Vaccination required, no vaccination</i>
12	3	1	1	<p>The HPV vaccine prevents most HPV infections that lead to cervical cancer.</p> <p>Imagine that [name]'s school REQUIRES students to get a FREE HPV vaccine, but you CAN request that she NOT get it. You choose for her to go ahead and GET the required vaccine, but in her teens she still gets an HPV infection that could lead to cervical cancer later in life.</p> <p>How much would you regret that she GOT the vaccine?</p>	<i>Vaccination required, vaccination</i>

Vignette	Topic	Req	Vacc	<i>Sexual disinhibition</i> (soon hazard from vaccinating)	
13	4	0	0	<p>Some people think that getting the HPV vaccine encourages sexual activity at an early age.</p> <p>Imagine that [name]'s school will give her a FREE HPV vaccine, but only if you REQUEST it. You choose NOT to get her the vaccine, but she is more sexually active during her teens anyway.</p> <p>How much would you regret that she did NOT get the vaccine?</p>	<i>Vaccination not required, no vaccination</i>
14	4	0	1	<p>Some people think that getting the HPV vaccine encourages sexual activity at an early age.</p> <p>Imagine that [name]'s school will give her a FREE HPV vaccine, but only if you REQUEST it. You choose for her to go ahead and GET the vaccine, and she is more sexually active during her teens than she would have been.</p> <p>How much would you regret that she GOT the vaccine?</p>	<i>Vaccination not required, vaccination</i>
15	4	1	0	<p>Some people think that getting the HPV vaccine encourages sexual activity at an early age.</p> <p>Imagine that [name]'s school REQUIRES students to get a FREE HPV vaccine, but you CAN request that she NOT get it. You choose NOT to get her the required vaccine, but she is more sexually active during her teens anyway.</p> <p>How much would you regret that she did NOT get the vaccine?</p>	<i>Vaccination required, no vaccination</i>
16	4	1	1	<p>Some people think that getting the HPV vaccine encourages sexual activity at an early age.</p> <p>Imagine that [name]'s school REQUIRES students to get a FREE HPV vaccine, but you CAN request that she NOT get it. You choose for her to go ahead and GET the required vaccine, and she is more sexually active during her teens than she would have been.</p> <p>How much would you regret that she GOT the vaccine?</p>	<i>Vaccination required, vaccination</i>

Vignette	Topic	Req	Vacc	<i>Vaccine-related neurological problems</i> (later hazard from vaccinating)	
17	5	0	0	<p>Some people think that the HPV vaccine causes nerve damage.</p> <p>Imagine that [name]'s school will give her a FREE HPV vaccine, but only if you REQUEST it. You choose NOT to get her the vaccine, but later in life she develops nerve damage anyway.</p> <p>How much would you regret that she did NOT get the vaccine?</p>	<i>Vaccination not required, no vaccination</i>
18	5	0	1	<p>Some people think that the HPV vaccine causes nerve damage.</p> <p>Imagine that [name]'s school will give her a FREE HPV vaccine, but only if you REQUEST it. You choose for her to go ahead and GET the vaccine, and later in life she develops nerve damage.</p> <p>How much would you regret that she GOT the vaccine?</p>	<i>Vaccination not required, vaccination</i>
19	5	1	0	<p>Some people think that the HPV vaccine causes nerve damage.</p> <p>Imagine that [name]'s school REQUIRES students to get a FREE HPV vaccine, but you CAN request that she NOT get it. You choose NOT to get her the required vaccine, but later in life she develops nerve damage anyway.</p> <p>How much would you regret that she did NOT get the vaccine?</p>	<i>Vaccination required, no vaccination</i>
20	5	1	1	<p>Some people think that the HPV vaccine causes nerve damage.</p> <p>Imagine that [name]'s school REQUIRES students to get a FREE HPV vaccine, but you CAN request that she NOT get it. You choose for her to go ahead and GET the required vaccine, and later in life she develops nerve damage.</p> <p>How much would you regret that she GOT the vaccine?</p>	<i>Vaccination required, vaccination</i>

References

1. Fazekas, K. I., Brewer, N. T., & Smith, J. S. HPV vaccine acceptability in a rural, Southern area. *Journal of Women's Health*. 17(4), 539-48.
2. Yacobi E., Tennant C., Ferrante J., Pal N., Roetzheim R. (1999). University students' knowledge and awareness of HPV. *Preventive Medicine* 1999 June;28(6):535-41.
3. National Cancer Institute. (2005). HINTS: Health information national trend survey. <http://cancercontrol.cancer.gov/hints/questions/index.jsp>
4. Centers for Disease Control and Prevention (CDC). Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Georgia:
U.S.
Department of Health and Human Services, Centers for Disease Control and Prevention, 2006.
5. Broadbent, E., Petrie, K. J., Main, J., & Weinman, J. (2006). The Brief Illness Perception Questionnaire (BIPQ). *Journal of Psychosomatic Research*, 60, 631-637.
6. The Community Indicators Survey Subtitle: John S. and James L. Knight Foundation Community Indicators. Place of Production: Princeton, NJ Producer: Princeton Survey Research Associates. Date of Production: 08/--/1999 Place of Production: Princeton, NJ Producer: Princeton Survey Research Associates. Date of Production: 12/--/02. Place of Distribution: Chapel Hill, NC.
7. Carolina Poll, Spring 1985. Place of Production: Chapel Hill, NC Producer: Univ. of NC, Sch. of Journalism. Place of Distribution: Chapel Hill, NC.