



Health Cognition & Behavior Lab

UNC Men's Health Survey (2009)

The UNC Men's Health Study was conducted via an online survey with a national sample of men ages 18-59 in January 2009.

Preferred Citations:

Reiter, P.L., Brewer, N.T., McRee, A.L., Gilbert, P., & Smith, J.S. (2010). Acceptability of HPV vaccine among a national sample of gay and bisexual men. *Sexually Transmitted Diseases*. 37(3): 197-203. PMID: 20118831.

Brewer, N.T., Ng, T.W., McRee, A.L., & Reiter, P.L. (In press). Men's beliefs about HPV-related disease. *Journal of Behavioral Medicine*. PMID: 20162346.

[...] Brackets indicate text that participants did not see, including source of item, instructions to the programmer or response scale options not seen by participants

Item	Construct	Item	Response Scale
		[Source, Citations are at end of document]	
		Thank you for taking our survey. We ask about topics that some people know a lot about and others know nothing about. If you're unsure of what the correct answer is, please give us your best answer.	
Genital Warts			
		Genital warts are growths that form on the penis, testicles, groin, thighs, or anus. Warts usually do not hurt, and they are different from moles. [Modified from Centers for Disease Control and Prevention, 2007]	
B100	Knowledge	How much would you say you know about genital warts (aside from what you learned from this survey)?	1 = Nothing at all 2 = A little 3 = A moderate amount 4 = Quite a lot [-1 = item not answered]
B110	Worry	Before today, how much did you worry about getting genital warts?	1 = Not at all 2 = A little 3 = A moderate amount 4 = Quite a lot [-1 = item not answered]
B120	Severity	How much do you think having genital warts would	1 = Not at all 2 = A little

		affect your life?	3 = A moderate amount 4 = Quite a lot [-1 = item not answered]
B125	Mental Model	How do you think having HIV or AIDS affects the chances of getting genital warts?	1 = Decreases chances 2 = Has no effect 3 = Increases chances 4 = I don't know [-1 = item not answered]
B130	Mental Model	Which of the following do you think might increase the chances of getting genital warts? Check all that apply.	[Note to programmers: Rotate response options 1-11] 1=Stress 2= Smoking tobacco 3= Drinking alcohol 4 = Unsafe chemicals in food or water 5= Bad family genetics 6= Poor personal hygiene 7= Infection with a virus 8= Having sex (includes oral, vaginal, and anal sex) 9= High number of sexual partners (includes oral, vaginal, and anal sex) 10= Having sex at a young age (includes oral, vaginal, and anal sex) 11= Not using condoms when having sex (includes oral, vaginal, and anal sex) 12= Other, please specify: _____ 13 = I don't know [-1 = item not answered]
Oral Cancer			
C90	Intro	Oral cancers form in the mouth. We will also use oral cancer to refer to cancers that form in the throat just behind the mouth (also called oropharyngeal cancer). [Modified from The American Cancer Society, 2007]	
C100	Knowledge	How much would you say you know about <u>oral</u> cancer (aside from what you learned from this survey)?	1 = Nothing at all 2 = A little 3 = A moderate amount 4 = Quite a lot [-1 = item not answered]
C110	Worry	Before today, how much did you worry about getting <u>oral</u> cancer?	1 = Not at all 2 = A little 3 = A moderate amount 4 = Quite a lot [-1 = item not answered]
C120	Severity	How much do you think	1 = Not at all

		having <u>oral</u> cancer would affect your life?	2 = A little 3 = A moderate amount 4 = Quite a lot [-1 = item not answered]
C125	Mental Model	How do you think having HIV or AIDS affects the chances of getting <u>oral</u> cancer?	1 = Decreases chances 2 = Has no effect 3 = Increases chances 4 = I don't know [-1 = item not answered]
C130	Mental Model	Which of the following do you think might increase the chances of getting <u>oral</u> cancer? Check all that apply.	[Note to programmers: Rotate response options 1-14] 1=Stress 2= Smoking tobacco 3= Using "smokeless" chewing tobacco 4= Drinking alcohol 5 = Unsafe chemicals in food or water 6= Bad family genetics 7=Eating a bad diet 8=Not regularly brushing your teeth and flossing 9=Poor personal hygiene 10= Infection with a virus 11= Having oral sex 12= High number of sexual partners (includes oral, vaginal, and anal sex) 13= Having sex at a young age (includes oral, vaginal, and anal sex) 14= Not using condoms when having sex (includes oral, vaginal, and anal sex) 15= Other, please specify: _____ 16 = I don't know [-1 = item not answered]
Anal Cancer			
D90	Intro	Anal cancer forms in the tissues of the anus. The anus is the opening of the rectum (last part of the large intestine) to the outside of the body. Anal cancer is <u>different</u> from colon cancer and rectal cancer. [Modified from National Cancer Institute, 2008]	
D100	Knowledge	How much would you say you know about <u>anal</u> cancer (aside from what you learned from this survey)?	1 = Nothing at all 2 = A little 3 = A moderate amount 4 = Quite a lot [-1 = item not answered]

D110	Worry	Before today, how much did you worry about getting <u>anal</u> cancer?	1 = Not at all 2 = A little 3 = A moderate amount 4 = Quite a lot [-1 = item not answered]
D120	Severity	How much do you think having <u>anal</u> cancer would affect your life?	1 = Not at all 2 = A little 3 = A moderate amount 4 = Quite a lot [-1 = item not answered]
D125	Mental Model	How do you think having HIV or AIDS affects the chances of getting <u>anal</u> cancer?	1 = Decreases chances 2 = Has no effect 3 = Increases chances 4 = I don't know [-1 = item not answered]
D130	Mental Model	Which of the following do you think might increase the chances of getting <u>anal</u> cancer? Check all that apply. [Modified from Pitts, et al, 2007]	[Note to programmers: Rotate response options 1-14] 1=Stress 2= Smoking tobacco 3= Drinking alcohol 4 = Unsafe chemicals in food or water 5= Bad family genetics 6=Eating a bad diet 7=Poor personal hygiene 8=Not cleaning well enough after having a bowel movement 9= Infection with a virus 10= Having anal sex 11=Tearing or bleeding from having anal sex 12= High number of sexual partners (includes oral, vaginal, and anal sex) 13= Having sex at a young age (includes oral, vaginal, and anal sex) 14= Not using condoms when having sex (includes oral, vaginal, and anal sex) 15= Other, please specify: _____ 16 = I don't know [-1 = item not answered]
Opinions about HPV			
E100	Awareness	Have you heard of HPV or human papillomavirus before today? [Hughes, et al., 2009]	1 = Yes 2 = No 3=I don't know [-1 = item not answered] [IF E100=1 SKIP TO E110] [IF E100=2,3,-1 SKIP TO E200]
E110	Knowledge	Once you complete the next	[Note to programmers:

		<p>few items, you will not be able to return to them. If you're unsure of what the correct answer is, please give us your best answer.</p> <p>Do you think HPV causes health problems for males?</p>	<p>Randomize Items E110 – E190]</p> <p>1=Yes 2=No 3=I don't know [-1 = item not answered]</p>
E120	Knowledge	<p>Do you think you can get HPV from having sex?</p> <p>[Modified from National Cancer Institute, 2005]</p>	<p>1 = Yes 2 = No 3=I don't know [-1 = item not answered]</p>
E130	Knowledge	<p>Do you think HPV can cause genital herpes?</p> <p>[Hughes, et al., 2009]</p>	<p>1 = Yes 2 = No 3=I don't know [-1 = item not answered]</p>
E140	Knowledge	<p>Do you think HPV infection is rare?</p> <p>[Hughes, et al., 2009] [Modified from National Cancer Institute, 2005]</p>	<p>1=Yes 2=No 3=I don't know [-1 = item not answered]</p>
E150	Knowledge	<p>Do you think HPV can cause genital warts?</p> <p>[Hughes, et al., 2009]</p>	<p>1 = Yes 2 = No 3=I don't know [-1 = item not answered]</p>
E160	Knowledge	<p>Do you think HPV can cause <u>oral</u> cancer?</p> <p>[Modified from Hughes, et al., 2009] [Modified from National Cancer Institute, 2005]</p>	<p>1 = Yes 2 = No 3=I don't know [-1 = item not answered]</p>
E170	Knowledge	<p>Do you think HPV can cause <u>anal</u> cancer?</p> <p>[Modified from Hughes, et al., 2009] [Modified from National Cancer Institute, 2005]</p>	<p>1 = Yes 2 = No 3=I don't know [-1 = item not answered]</p>
E180	Knowledge	<p>Do you think HPV can cause <u>penile</u> cancer (cancer of the penis)?</p> <p>[Modified from Hughes, et al.] [Modified from National Cancer Institute, 2005]</p>	<p>1 = Yes 2 = No 3=I don't know [-1 = item not answered]</p>
E190	Knowledge	<p>Do you think only people who have sex with lots of other people get HPV?</p>	<p>1=Yes 2=No 3=I don't know [-1 = item not answered]</p>
E200	HPV statement	<p>HPV is a common sexually transmitted disease (STD) that can cause genital warts and</p>	

		cervical cancer. HPV also causes anal cancer and may cause oral and penile cancer.	
[Note to programmers: Once respondents read the statement in E200, DO NOT allow them to go back to previous items.]			
Opinions about HPV Vaccine			
F90	Intro	The next questions are about the HPV vaccine, also called Gardasil. You may have seen advertisements promoting the vaccine for preventing genital warts and cervical cancer in girls and young women.	
F100	Awareness	Have you ever heard of the HPV vaccine before today? [Hughes, et al., 2009]	1 = Yes 2 = No 3 = I don't know [-1 = item not answered] [IF F100=1 SKIP TO F102] [IF F100=2,3,-1 SKIP TO F155]
F102	Information sources	Have you ever heard about the HPV vaccine from any of these sources? Check all that apply. [Hughes, et al., 2009]	1 = Doctor or health care provider 2 = Friend or family member 3 = Brochure or poster 4 = Commercial or ad from a drug company 5 = None of the above [-1 = item not answered]
F105	Information sources	Now think about what you have heard about the HPV vaccine in news stories or on websites. This does <u>not</u> include advertisements. Have you ever heard about the HPV vaccine from any of these sources? Check all that apply. [Hughes, et al., 2009]	1 = Television 2 = Radio 3 = Internet 4 = Newspaper 5 = None of the above [-1 = item not answered]
F110	Attitude	Is your opinion of the HPV vaccine. . . . [Modified from Hughes, et al., 2009]	1 = Mostly positive 2 = Somewhat positive 3 = Neutral 4 = Somewhat negative 5 = Mostly negative [-1 = item not answered]
F120	Willingness	Before today, have you thought about getting the HPV vaccine? [Hughes, et al., 2009]	1 = Yes 2 = No [-1 = item not answered]
F130	Attitude	Once you complete the next few items, you will not be able to return to them. If you're unsure of what the correct answer is, please give us your	1 = Yes 2 = No 3 = I don't know [-1 = item not answered]

		best answer.	
F140	Attitude	Do you think the HPV vaccine works in males?	1 = Yes 2 = No 3 = I don't know [-1 = item not answered]
F150	Attitude	Do you think the HPV vaccine is only for women?	1 = Yes 2 = No 3 = I don't know [-1 = item not answered]
F155	Intro	<p>Do you think doctors are allowed to give HPV vaccine to men?</p> <p>Researchers recently found that the HPV vaccine protects men from getting most genital warts. Researchers are also studying whether the HPV vaccine protects men against HPV-related cancers.</p> <p>Although the vaccine is not yet approved for men, some doctors are already giving HPV vaccine to men using a legal loop-hole called "off-label use".</p>	
[Note to programmers: Once respondents read the statement in F155, DO NOT allow them to go back to previous items.]			
F160	Cue to Action	<p>Have you ever talked to a doctor or other health care provider about getting the HPV vaccine for yourself or a family member?</p> <p>[Hughes, et al., 2009]</p>	<p>1 = Yes 2 = No [-1 = item not answered]</p> <p>[IF F160=1 SKIP TO F165]</p> <p>[IF F160=2, -1 SKIP TO F170]</p>
F165	Cue to Action	<p>Did you talk about getting the HPV vaccine for.....</p> <p>Check all that apply.</p>	<p>1 = Yourself 2 = Your daughter 3 = Your son 4 = Your wife, girlfriend, or female partner 5 = Your husband, boyfriend, or male partner 6 = Other family member, please specify:_____</p> <p>[-1 = item not answered]</p>
F170	Vaccination	<p>Have you, a family member, or someone else you know gotten the HPV vaccine?</p>	<p>1 = Yes 2 = No [-1 = item not answered]</p> <p>[IF F170=2, -1 SKIP TO F182]</p> <p>[IF F170=1, SKIP TO F173]</p>
F173	Vaccination	<p>Who got the HPV vaccine?</p> <p>Check all that apply.</p>	<p>1 = You 2 = Your daughter 3 = Your son</p>

			<p>4 = Your wife, girlfriend, or female partner 5 = Your husband, boyfriend, or male partner 6 = Other family member, please specify: _____ 7 = A female friend 8 = A male friend 9 = Someone else you know, please specify: _____ [-1 = item not answered]</p> <p>[IF RESPONSE OPTION 1 (you) FOR F173 IS CHECKED, SKIP TO F176.</p> <p>IF 1 IS NOT CHECKED, SKIP TO F182]</p>
F176	Vaccination	<p>The HPV vaccine requires 3 doses given over 6 months. How many shots of the HPV vaccine have you had?</p> <p>pHughes, et al., 2009]</p>	<p>1 = One 2 = Two 3 = Three [-1 = item not answered]</p>
F180	Cost	<p>What did you pay out of pocket for each shot of the HPV vaccine that you got for yourself?</p>	<p>Please enter the dollar amount. \$. _____</p> <p>[-1 = item not answered]</p>
F182	Vaccination attempt	<p>Have you ever tried to get the HPV vaccine for yourself but were unsuccessful?</p>	<p>1 = Yes 2 = No [-1 = item not answered]</p> <p>[IF F182=1 SKIP TO F185]</p> <p>[IF F182=2,-1 AND RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED, SKIP TO F190]</p> <p>[IF F182=2,-1 AND RESPONSE OPTION 1 (you) FOR F173 IS CHECKED, SKIP TO F265]</p>
F185	Objective Barriers	<p>What is the main reason that you were unsuccessful in getting the HPV vaccine for yourself?</p>	<p>1 = Doctor or health care provider did not stock the vaccine 2=Doctor or health care provider would not give the vaccine to males 3=You could not afford the vaccine 4= Other, please specify: _____ [-1 = item not answered]</p> <p>[IF RESPONSE OPTION 1</p>

			<p>(you) FOR F173 IS NOT CHECKED SKIP TO F190]</p> <p>[IF RESPONSE OPTION 1 (you) FOR F173 IS CHECKED SKIP TO F265]</p>
F190	Willingness	<p>For the next questions, please imagine that the HPV vaccine is approved for males. The HPV vaccine requires 3 doses given over 6 months.</p> <p>How willing would you be to get the HPV vaccine?</p>	<p>[Note to programmers: Set a reminder on this question that comes up for people who skip it saying that this question has not been answered.]</p> <p>[IF RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED (i.e., for those who have not been vaccinated)]</p> <p>1= Definitely not willing 2= Probably not willing 3= Not sure 4= Probably willing 5= Definitely willing [-1 = item not answered]</p>
[Note to programmers: Randomize Items F200 – F206]			
F200	Willingness	How willing would you be to get the HPV vaccine if it prevented only genital warts?	<p>[IF RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED (i.e., for those who have not been vaccinated)]</p> <p>1= Definitely not willing 2= Probably not willing 3= Not sure 4= Probably willing 5= Definitely willing [-1 = item not answered]</p>
F202	Willingness	How willing would you be to get the HPV vaccine if it prevented genital warts and <u>anal</u> cancer?	<p>[IF RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED (i.e., for those who have not been vaccinated)]</p> <p>1= Definitely not willing 2= Probably not willing 3= Not sure 4= Probably willing 5= Definitely willing [-1 = item not answered]</p>
F204	Willingness	How willing would you be to get the HPV vaccine if it prevented genital warts and <u>oral</u> cancer?	<p>[IF RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED (i.e., for those who have not been vaccinated)]</p> <p>1= Definitely not willing 2= Probably not willing 3= Not sure 4= Probably willing 5= Definitely willing</p>

			[-1 = item not answered]
F206	Willingness	How willing would you be to get the HPV vaccine if it prevented genital warts and <u>penile</u> cancer?	[IF RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED (i.e., for those who have not been vaccinated)] 1= Definitely not willing 2= Probably not willing 3= Not sure 4= Probably willing 5= Definitely willing [-1 = item not answered]
F210	Cue to action	Please continue to imagine that the HPV vaccine is approved for males. Do you think your doctor or health care provider would recommend that you get the HPV vaccine?	[IF RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED (i.e., for those who have not been vaccinated)] 1=Yes 2=No 3=I don't know [-1 = item not answered]
F215	Transition	For the next questions, if you are unsure, please tell us what you think the answer might be.	OPTION 1 (you) FOR F173 IS NOT CHECKED (i.e., for those who have not been vaccinated)]
F220	Transition	If you decided to get the HPV vaccine, how concerned would you be that...	[IF RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED (i.e., for those who have not been vaccinated)]
F230	Perceived Barriers	...it would be hard to find a health care provider with HPV vaccine available for males.	[IF RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED (i.e., for those who have not been vaccinated)] 1 = Not at all 2 = Slightly 3 = Moderately 4 = Very 5 = Extremely [-1 = item not answered]
F240	Perceived Barriers	...the HPV vaccine costs more than you can pay. [Hughes, et al., 2009]	[IF RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED (i.e., for those who have not been vaccinated)] 1 = Not at all 2 = Slightly 3 = Moderately 4 = Very 5 = Extremely [-1 = item not answered]
F250	Perceived Barriers	...the HPV vaccine might cause short term health problems, like pain or	[IF RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED (i.e., for those who

		discomfort. [Modified from Hughes, et al., 2009]	have not been vaccinated)] 1 = Not at all 2 = Slightly 3 = Moderately 4 = Very 5 = Extremely [-1 = item not answered]
F260	Perceived Barriers	...the HPV vaccine might cause lasting health problems. [Hughes, et al., 2009]	[IF RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED (i.e., for those who have not been vaccinated)] 1 = Not at all 2 = Slightly 3 = Moderately 4 = Very 5 = Extremely [-1 = item not answered]
F265	Transition	For the next questions, if you are unsure, please tell us what you think the answer might be.	
F270	Perceived effectiveness	How much protection do you think the HPV vaccine would give you against <u>genital warts</u> ? [Modified from Hughes, et al., 2009]	1 = No protection 2 = A little protection 3 = A moderate amount of protection 4 = Quite a lot of protection 5 = Complete protection [-1 = item not answered]
F280	Perceived effectiveness	How much protection do you think the HPV vaccine would give you against <u>anal</u> cancer?	1 = No protection 2 = A little protection 3 = A moderate amount of protection 4 = Quite a lot of protection 5 = Complete protection [-1 = item not answered]
F290	Perceived effectiveness	How much protection do you think the HPV vaccine would give you against <u>oral</u> cancer?	1 = No protection 2 = A little protection 3 = A moderate amount of protection 4 = Quite a lot of protection 5 = Complete protection [-1 = item not answered]
F295	Perceived effectiveness	How much protection do you think the HPV vaccine would give you against <u>penile</u> cancer?	1 = No protection 2 = A little protection 3 = A moderate amount of protection 4 = Quite a lot of protection 5 = Complete protection [-1 = item not answered] [IF RESPONSE OPTION 1 (you) FOR F173 IS NOT

			CHECKED, SKIP TO F300] [IF RESPONSE OPTION 1 (you) FOR F173 IS CHECKED, SKIP TO F330]
F300	Perceived likelihood	Without the HPV vaccine, what do you think is the chance that you will get <u>genital warts</u> in the future? [Modified from Hughes, et al., 2009]	[IF RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED (i.e., for those who have not been vaccinated)] 1 = No chance 2 = Low chance 3 = Moderate chance 4 = High chance 5= Certain I will get genital warts [-1 = item not answered]
F310	Perceived likelihood	Without the HPV vaccine, what do you think is the chance that you will get <u>anal</u> cancer in the future?	[IF RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED (i.e., for those who have not been vaccinated)] 1 = No chance 2 = Low chance 3 = Moderate chance 4 = High chance 5= Certain I will get anal cancer [-1 = item not answered]
F320	Perceived likelihood	Without the HPV vaccine, what do you think is the chance that you will get <u>oral</u> cancer in the future?	[IF RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED (i.e., for those who have not been vaccinated)] 1 = No chance 2 = Low chance 3 = Moderate chance 4 = High chance 5= Certain I will get oral cancer [-1 = item not answered]
F325	Perceived likelihood	Without the HPV vaccine, what do you think is the chance that you will get <u>penile</u> cancer in the future?	[IF RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED (i.e., for those who have not been vaccinated)] 1 = No chance 2 = Low chance 3 = Moderate chance 4 = High chance 5= Certain I will get penile cancer [-1 = item not answered] [IF RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED, SKIP TO F352]
F330	Perceived likelihood	Given that you have been vaccinated against HPV, what do you think is the chance that	[IF RESPONSE OPTION 1 (you) FOR F173 IS CHECKED (i.e., for those who have been

		<p>you will get <u>genital warts</u> in the future?</p> <p>[Modified from Hughes, et al., 2009]</p>	<p>vaccinated)]</p> <p>1 = No chance 2 = Low chance 3 = Moderate chance 4 = High chance 5= Certain I will get genital warts [-1 = item not answered]</p>
F340	Perceived likelihood	<p>Given that you have been vaccinated against HPV, what do you think is the chance that you will get <u>anal</u> cancer in the future?</p>	<p>[IF RESPONSE OPTION 1 (you) FOR F173 IS CHECKED (i.e., for those who have been vaccinated)]</p> <p>1 = No chance 2 = Low chance 3 = Moderate chance 4 = High chance 5= Certain I will get anal cancer [-1 = item not answered]</p>
F350	Perceived likelihood	<p>Given that you have been vaccinated against HPV, what do you think is the chance that you will get <u>oral</u> cancer in the future?</p>	<p>[IF RESPONSE OPTION 1 (you) FOR F173 IS CHECKED (i.e., for those who have been vaccinated)]</p> <p>1 = No chance 2 = Low chance 3 = Moderate chance 4 = High chance 5= Certain I will get oral cancer [-1 = item not answered]</p>
F351	Perceived likelihood	<p>Given that you have been vaccinated against HPV, what do you think is the chance that you will get <u>penile</u> cancer in the future?</p>	<p>[IF RESPONSE OPTION 1 (you) FOR F173 IS CHECKED (i.e., for those who have been vaccinated)]</p> <p>1 = No chance 2 = Low chance 3 = Moderate chance 4 = High chance 5= Certain I will get penile cancer [-1 = item not answered]</p> <p>[IF RESPONSE OPTION 1 (you) FOR F173 IS CHECKED, SKIP TO G90]</p>
F352	Anticipated Regret	<p>Imagine that you got genital warts, but the HPV vaccine might have prevented it. How much would you regret that you did NOT get the HPV vaccine?</p> <p>[Modified from Hughes, et al., 2009]</p>	<p>[IF RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED (i.e., for those who have not been vaccinated)]</p> <p>1 = Not at all 2 = A little 3 = A moderate amount 4 = Quite a lot [-1 = item not answered]</p>
F355	Anticipated Regret	<p>Imagine that you got an HPV</p>	<p>[IF RESPONSE OPTION 1</p>

		infection that could lead to oral, anal, or penile cancer, but the HPV vaccine might have prevented it. How much would you regret that you did NOT get the HPV vaccine? [Modified from Hughes, et al., 2009]	(you) FOR F173 IS NOT CHECKED (i.e., for those who have not been vaccinated)] 1 = Not at all 2 = A little 3 = A moderate amount 4 = Quite a lot [-1 = item not answered]
F360	Willingness to Pay	What is the most that you would pay out of pocket to get the complete series of three HPV vaccine shots? This is from your own money, not paid by insurance.	[IF RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED (i.e., for those who have not been vaccinated)] Please enter the dollar amount. \$ _____ [-1 = item not answered]
F365	Information seeking	Imagine you had a strong need to get information about the HPV vaccine <u>for males</u> . Where would you go? Check all that apply.	[IF RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED (i.e., for those who have not been vaccinated)] 1 = Doctor or other health care provider 2 = Family, friend, or coworker 3 = Internet 4 = Magazine or newspaper 5 = Library 6 = Other, please specify: _____ [-1 = item not answered]
F370	Potential Vaccine Source	If you decided to get the HPV vaccine, where would you most likely go? Choose only one answer.	[IF RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED (i.e., for those who have not been vaccinated)] 1 = Primary care provider's office 2 = Urgent care facility 3 = Other private health care provider's office, please specify: _____ 4 = Health department immunization clinic 5 = Sexually transmitted disease (STD) clinic 6 = Other public or community clinic, please specify: _____ 7 = Gay health center 8 = Other, please specify: _____ [-1 = item not answered]
Your Family and Your Health			
G90	Daughter	Do you have any female	1= Yes, aged 9-18

		children aged 9-18 or 19-26?	2= Yes, aged 19-26 3= No [-1 = item not answered] [IF G90=1 SKIP TO G95] [IF G90=2,3,-1 SKIP TO G100]
G95	Daughter	Are you involved in health care decisions for your daughter aged 9-18? If you have several daughters aged 9-18, are you involved in health care decisions for any of them?	[IF G90=1] 1=Yes 2=No [-1 = item not answered]
G100	Health Insurance	Do you currently have any form of health insurance?	1=Yes 2=No [-1 = item not answered]
G110	Smoking	How often do you smoke cigarettes? [Pierce et al., 1998]	1=Every day 2=Some days 3=Not at all [-1 = item not answered]
G130	Hepatitis B Vaccination	The hepatitis B vaccine is a series of three shots. How many hepatitis B vaccine shots, if any, have you had?	0 = None 1 = One 2 = Two 3 = Three 4= At least one shot, but don't know how many 5 = I don't know if I had any shots [-1 = item not answered]
G135	Sexual Orientation	Do you think of yourself as... [NHANES, 2008]	[Note to programmers: Set a reminder on this question that comes up for people who skip it saying that this question has not been answered.] 1=Gay or homosexual (attracted to men) 2=Bisexual (attracted to men and women) 3=Heterosexual or straight (attracted to women) 4=Something else 5=Not sure [-1 = item not answered]
G140	Sexual History	When you first had vaginal, anal, or oral sex, how old were you? [NHANES, 2008]	[Note to programmers: Limit values to \leq current age; If value entered is less than 10, ask the participant to confirm] Enter age in years _____

			<p>98 = I have not had sex</p> <p>[-1 = item not answered]</p> <p>[IF G140=98 (not had sex yet), SKIP TO G192]</p>
G150	Sexual History	<p>In your <u>lifetime</u>, with how many different people have you had vaginal, anal, or oral sex?</p> <p>[Modified from NHANES, 2008]</p>	<p>[Note to programmers: If value entered is more than 100, ask the participant to confirm]</p> <p>Please enter a number or enter zero for none _____</p> <p>[-1 = item not answered]</p>
G160	Sexual History	<p>In the <u>last year</u>, with how many different WOMEN have you had vaginal, anal, or oral sex?</p>	<p>[Note to programmers: Limit values to ≤ response for G150]</p> <p>Please enter a number or enter zero for none _____</p> <p>[-1 = item not answered]</p>
G170	Sexual History	<p>In the <u>last year</u>, with how many different MEN have you had anal or oral sex?</p>	<p>[Note to programmers: Limit values to ≤ G150 minus G160]</p> <p>[Note to programmers: Set a reminder on this question that comes up for people who skip it saying that this question has not been answered.]</p> <p>Please enter a number or enter zero for none _____</p> <p>[-1 = item not answered]</p>
G180	Sexual History	<p>Of the people you had vaginal, anal, or oral sex with in the last year, how many were regular sexual partners? A regular sexual partner is someone who you have been with for six months or longer.</p>	<p>[Note to programmers: Limit values to ≤ sum of G160 and G170 (G160+G170)]</p> <p>Please enter a number or enter zero for none _____</p> <p>[-1 = item not answered]</p> <p>[IF G180=0 SKIP TO G192]</p>
G190	Sexual History	<p>Do any of your regular sexual partners have sex with other people?</p>	<p>1 = Yes 2 = No 3 = I don't know</p> <p>[-1 = item not answered]</p>

G192		The HPV vaccine may be less effective once men are sexually active.	<p>[IF RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED (i.e., for those who have not been vaccinated), SKIP TO G193]</p> <p>[IF RESPONSE OPTION 1 (you) FOR F173 IS CHECKED (i.e., for those who have been vaccinated), SKIP TO G195]</p>
G193	Willingness	Knowing this, how willing would you be to get the vaccine?	<p>[IF RESPONSE OPTION 1 (you) FOR F173 IS NOT CHECKED (i.e., for those who have not been vaccinated)]</p> <p>1= Definitely not willing 2= Probably not willing 3= Not sure 4= Probably willing 5= Definitely willing [-1 = item not answered]</p>
G195	Perceived effectiveness	What do you think is the largest number of sexual partners a man can have before the HPV vaccine is no longer a good idea for him? If you're not sure, provide your best guess.	<p>Please enter a number</p> <p>_____</p> <p>[-1 = item not answered]</p>
G197	STI history	Have you ever tested positive for HIV, the virus that causes AIDS (Acquired Immune Deficiency Syndrome)?	<p>1 = Yes 2 = No [-1 = item not answered]</p>
		[Knowledge Networks, Health Profile Data]	
G200	STI history	When was the last time you had a test for HIV, the virus that causes AIDS?	<p>1 = I have never had one 2 = 0-6 months ago 3 = 7-12 months ago 4 = 13-18 months ago 5 = 19-24 months ago 6 = More than 24 months ago [-1 = item not answered]</p>
G210	STI history	Have you ever been told by a doctor or other health care provider that you ...	<p>1 = Yes 2 = No [-1 = item not answered]</p>
		...had genital warts?	
G220	STI history	...had another sexually transmitted disease such as gonorrhea, Chlamydia, syphilis, or genital herpes?	<p>1 = Yes 2 = No [-1 = item not answered]</p>

G230	STI history	...had oral cancer, penile cancer, penile lesions, anal cancer, or anal lesions? This does NOT include anal fissures.	1 = Yes 2 = No [-1 = item not answered]
Medical Tests			
H95	Screening History	A digital rectal exam is when a doctor inserts a gloved finger into the anus to feel for unusual lumps or growths. Have you ever had a digital rectal exam or DRE?	1=Yes 2=No 3= I don't know [-1 = item not answered]
			[Programmers Note: Ask the remaining questions if G135=1, 2, 4, 5 or G170>0 or if respondent is HIV+ according to Knowledge Network's database. If G135=-1 (answer not provided), also ask the following questions to those who self-identified as gay or bisexual for Knowledge Network's sexual identity question. All others can skip to I100]
H100	Awareness	Have you ever heard of an anal Pap test or anal Pap smear for men?	1=Yes 2=No [-1 = item not answered]
H105	Intro	Doctors can use an anal Pap test to identify anal cancer. An anal Pap test is when a doctor collects cells from the anus using a swab (like an extra long Q-tip) and examines them for changes. An anal Pap test is <u>not</u> the same as a test for anal gonorrhea, a colonoscopy, or a digital rectal exam. [Modified from American Cancer Society, 2007]	
H110	Screening History	If you have had an anal Pap test, when was your most recent one?	1 = I have never had one 2 = 12 months ago or less 3 = 13-24 months ago 4 = 25-36 months ago

			5 = More than 36 months ago (36 months = 3 years) [-1 = item not answered]
H112	Screening Attempt	Have you ever tried to get an anal Pap test but were unsuccessful?	1 = Yes 2 = No [-1 = item not answered] [IF H112=2,-1 SKIP TO H120]
H115	Objective Barriers	What is the main reason that you were unsuccessful in getting an anal Pap test?	1 = Doctor or health care provider did not provide this test 2= You could not afford to get test 3=Were told that you did not need one 4= Other, please specify:_____
H120	Willingness	How willing would you be to get an anal Pap test to screen for anal cancer in the future if it was free?	1= Definitely not willing 2= Probably not willing 3= Not sure 4= Probably willing 5= Definitely willing [-1 = item not answered]
H125	Willingness	How willing would you be to get an anal Pap test if it cost \$150 out of pocket? This would be from your own money, not paid by insurance.	1= Definitely not willing 2= Probably not willing 3= Not sure 4= Probably willing 5= Definitely willing [-1 = item not answered]
H130	Potential Screening Source	If you decided to get an anal Pap test, where would you most likely go? Choose only one answer.	1 = Primary care provider's office 2 = Urgent care facility 3 = Other private health care provider's office, please specify:_____
			4 = Health department immunization clinic 5 = Sexually transmitted disease (STD) clinic 6 = Other public or community clinic, please specify:_____
			7 = Gay health center 8 = Other, please specify:_____
			[-1 = item not answered]
H140	Perceived Barriers	If a local doctor or clinic provided anal Pap tests, what would be your reasons for <u>not</u> getting one? Check all that apply.	1=I don't know enough about it 2=Asking for test or getting it might be embarrassing 3=It might hurt 4=Test might not be accurate 5=Costs too much 6=Don't have transportation to get to doctor's office 9=I don't want this information in my medical chart

			7=Other, please specify:_____ 8=None of these; I am completely willing to get an anal Pap test [-1 = item not answered]
H150	Cue to Action	Do you think doctors recommend that men who have sex with men get anal Pap tests?	1=Yes 2=No 3=I don't know [-1 = item not answered]
H160	Knowledge	How often do you think men who have sex with men should get an anal Pap test to screen for anal cancer? [Adapted from Pitts, et al, 2007]	1 = Every 6 months 2 = Every year 3 = Every 2 years 4 = Every 3 years 5 = Every 4 years 6=Never; Men who have sex with men do not need anal Pap tests 7 = I don't know [-1 = item not answered]
H170	Attitude	How much do you agree or disagree with the following statements: Only people who have anal sex need anal Pap tests.	1=Strongly agree 2=Somewhat agree 3=Neither agree or disagree 4=Somewhat disagree 5=Strongly disagree [-1 = item not answered]
H160	Perceived Effectiveness	If I got regular anal Pap tests, I would trust them to find anal cancer when it is still treatable.	1=Strongly agree 2=Somewhat agree 3=Neither agree or disagree 4=Somewhat disagree 5=Strongly disagree [-1 = item not answered]
H190	Self-test	How willing would you be to use an anal swab on yourself to screen for anal cancer? You would do this test at home by yourself instead of going to a doctor's office.	1= Definitely wouldn't 2= Probably wouldn't 3= Not sure 4= Probably would 5= Definitely would [-1 = item not answered]
H200	Disclosure	If you have had sex with men, have you disclosed this to your primary health care provider?	1=Yes 2=No 3=I have not had sex with men 4=I do not have a primary health care provider [-1 = item not answered]
I100	Closing Statement	Thank you for taking the UNC Men's Health Survey. If you would like more information on HPV and men, please visit www.cdc.gov/std/hpv/STDFact-HPV-and-men.htm .	

References

1. American Cancer Society. (Content Updated April 2007). *Detailed Guide: Anal Cancer*. Retrieved October 9, 2008 from http://www.cancer.org/docroot/CRI/content/CRI_2_4_3X_Can_Anal_Cancer_be_found_early_47.asp?sitearea=.
2. National Cancer Institute. (Content Updated June 2008). *General Information About Anal Cancer*. Retrieved October 9, 2008 from <http://www.cancer.gov/cancertopics/pdq/treatment/anal/Patient#Keypoint1>.
3. American Cancer Society. (Content Updated September 2007). *Detailed Guide: Oral Cavity and Oropharyngeal Cancer*. Retrieved October 9, 2008, from http://www.cancer.org/docroot/CRI/content/CRI_2_4_1X_What_is_oral_cavity_and_oropharyngeal_cancer_60.asp?rnav=cri.
4. Centers for Disease Control and Prevention. (Content Updated December 2007). *CDC Fact Sheet: HPV and Men*. Retrieved October 9, 2008, from <http://www.cdc.gov/std/hpv/stdfact-hpv-and-men.htm>
5. D'Souza, G. (2008). Anal Cancer Screening Behaviors and Intentions in Men Who Have Sex with Men. *J Gen Intern Med*, 23(9), 1452-7.
6. Hughes, J.H., Cates, J.C., Liddon, N., Smith, J.S., Gottlieb, S.L., & Brewer, N.B. (2009) Disparities in how parents are learning about the human papillomavirus vaccine. *Cancer Epidemiology Biomarkers & Prevention* 18(2), 363-372.
7. National Cancer Institute. (2005.) HINTS: Health information national trend survey. Retrieved October 9, 2008 from <http://hints.cancer.gov/questions/section.jsp?section=Cancer+Perceptions+and+Knowledge>.
8. NHANES. (2008). National health and nutrition examination survey 2005-2006: documentation, codebook, and frequencies, sexual behavior questionnaire. Retrieved October 9, 2008 from http://www.cdc.gov/nchs/data/nhanes/nhanes_05_06/sxq_d.pdf
9. Pierce, J. P., Gilpin, E. A., Emery, S. L., Farkas, A. J., Zhu, S. H., Choi, W. S., Berry, C. C., Distefan, J. M., White, M. M., Soroko, S., & Navarro, A. (1998). Tobacco Control in California: Who's Winning the War? An Evaluation of the Tobacco Control Program, 1989-1996. La Jolla, CA: University of California, San Diego.
10. Pitts, M. K., Fox, C., Willis, J., & Anderson, J. (2007). What do gay men know about human papillomavirus? Australian gay men's knowledge and experience of anal cancer screening and human papillomavirus. *Sexually Transmitted Diseases*, 34(3), 170-3.