

1. Cover Page Form

University of South Florida – College of Nursing
NUSRING FACULTY IN PILOT RESEARCH PROJECT
Application for February 2010

Title of Proposal: **Virtual Environments and its use in Viral Sexually Transmitted Infection Prevention**

Name of Principal Investigator: **Versie Johnson-Mallard**

Faculty Rank/Title: **Assistant Professor**

PI's GEMS ID number: **0000054594**

Mo/Yr appointed to this rank: **12/20/2007**

PI's e-mail address: **vejohngo@health.usf.edu**

Tenure Status: tenured/tenure earning **Earning**
non-tenure track

PI's telephone number: **813 974-7210**

Type of contract: 9 month _____ 12 month **x**

PI's Campus mailing address: **MDC 22 CON**

Desired Start Date: **March 2010**

Total Funds Requested: \$ **6500**

Keywords describing the project (up to 5): **Viral STIs, Second Life, Virtual Environments, Education intervention**

Research Integrity & Compliance

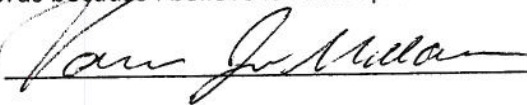
If your project will include the use of human subjects, protected health information, live vertebrates, or biohazardous materials, you must receive approval from the relevant research compliance office prior to initiating the study. **Check all that apply:**

IRB (humans) **x** HIPAA (health information) _____
IACUC (live animals) _____ IBC (biohazards) _____

Waiver

I, **Versie Johnson-Mallard**, with full knowledge of my right of access to any public record made or received in connection with official public business granted by the Florida Constitution (article I, section 24) and Florida Statutes (chapter 119), expressly waive all rights whatsoever that I have to request records containing the identity of the individuals who provide written feedback on this proposal. I voluntarily agree to this waiver of my right of access to these records because I believe it will help ensure a truly candid review of my proposal by my academic peers.

Signature



Date: 1/5/ 2010

PROJECT SUMMARY/ABSTRACT

Principal Investigator Versie Johnson-Mallard

Title of Proposal Virtual Environments and its use in Viral Sexually Transmitted Infection Prevention

Word Count 161

Viral sexually transmitted infections (STIs) in men contribute to viral STIs and disease in women. College students engage in sexual behaviors that put them at risk for contracting STIs. Internet resources have become an increasingly acceptable intervention for dissemination of health information in the US and worldwide. Given the stable increases in the number of reported sexually transmitted infections cases among young adults; Second Life® a virtual environment can be used for getting safer sex messages across. This project has **significance to** the discipline of **nursing** in that a multi-user 3-D online environment(Second Life) represents a viable educational venue for STI prevention messaging and skill building. The **objective** of this proposal is to pilot test a web-based intervention (i.e. Second Life) may enhance knowledge and decrease risky sexual behavior among young adults aged.

The study **hypothesis** is that the Second Life 3-D multi-user education intervention will result in increased knowledge, as well as sustained positive changes in “behavioral”, “normative”, and “control” beliefs regarding consistency of condom use. The anticipated **results** of this study will reflect the importance of integrating innovative technology into research and dissemination of findings into the community, classroom and clinical practice.

Background: Given the stable increases in the number of reported sexually transmitted infections (STIs) cases among young adults; Second Life® a virtual environment can be used for getting safer sex messages across.¹⁻³ Second Life is a simulated 3-dimensional virtual world that can be accessed from any location with a high-speed internet connection.² This state of the art technology avails the opportunity to test knowledge of STIs through quizzes, games and virtual conversations. Second Life is created by multiple users who interact with each other in real time or asynchronized.¹⁻³ Users, called residents, create their own virtual selves, called avatars. Researchers and clinicians can introduce avatars that can be scripted with safer sex messages or simulated scenarios that young adults may encounter during social gatherings.⁴ Additional teaching strategies of Second Life include CDC laboratory tours and sexually health resource centers for STI information.¹⁻⁵ These teaching strategies can also be presented in bulletin, Blackboard and PowerPoint.¹⁻⁵ Young adults of this generation are media savvy and have an appreciation for active learning using technology. This pilot study will use **state of the art** uncomplicated technology as an innovative intervention targeted at limiting the spread of STIs. This technology has the potential to allow researchers and clinicians to **build and create** experiential learning environments through simulated situations. An experiential learning environment can provide distant learning in a safe environment using simulation to practice safer sex communications skills.

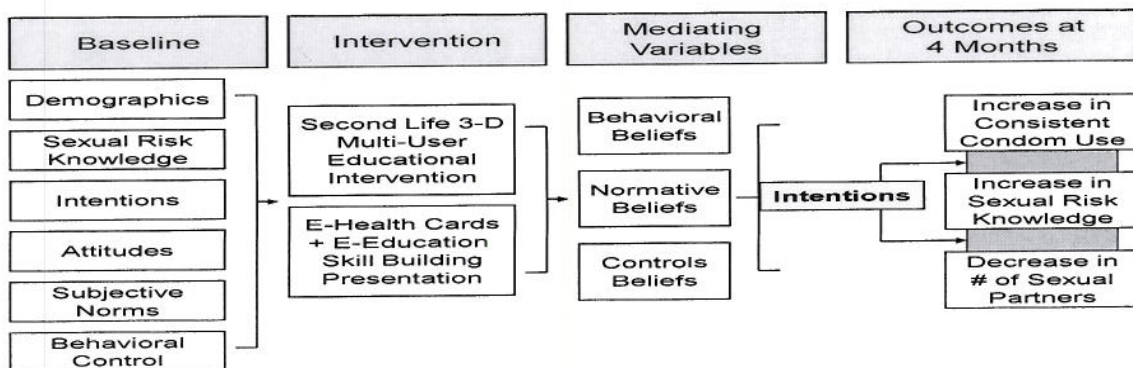
The **significance** of this project to the discipline of **nursing** is the opportunity to introduce a multi-user 3-D online environment representing a viable venue for STI prevention messaging. This project will allow a rich variety of educational experiences that may appeal to young adults and allows researchers and clinicians a venue of reaching unique audiences not adequately reached by other methods.

Specific Aims: The **broad objective** of this proposal is to identify a web-based intervention (i.e. Second Life) that may enhance knowledge and decrease risky sexual behavior among young adults aged 18-25. **Aim 1:** To assess the utility of Second Life for dissemination of STI prevention educational information **Aim 2:** To assess the efficacy of Second Life as an educational intervention in improving knowledge and sexual risk behavior for prevention of viral sexually transmitted infections **Aim 3:** Use the TPB to assess the efficacy of an educational intervention in improving knowledge and favorably altering “behavioral”, “normative”, and

“control” beliefs with respect to prevention of viral STIs through number of sexual partners and consistency of condom use.

Research plan: The research plan, design and conduct of the study will be based on the **Theory of Planned Behavior (TPB)**. This theory posits that performance of a given behavior is determined by a person's intention to perform that behavior. This intention, in turn, is determined by: (i) the person's attitude toward the behavior; (ii) influence of the person's social environment or subjective norms; and (iii) perceived control (e.g. belief) over the opportunities, resources, and skills necessary to perform the behavior. The **study hypothesis** is that the Second Life 3-D multi-user education intervention will result in increased knowledge, as well as sustained positive changes in “behavioral”, “normative”, and “control” beliefs regarding consistency of condom use. Importantly, condom use has been shown to relate to attitudes, normative beliefs, self efficacy, and intentions.⁶⁻⁸ Thus, based on the TPB⁹, Figure 1 depicts a logic model of the variables related to the proposed intervention and outcomes for this study.

Figure 1: Logic Model: Viral STIs an Educational/Behavior Intervention

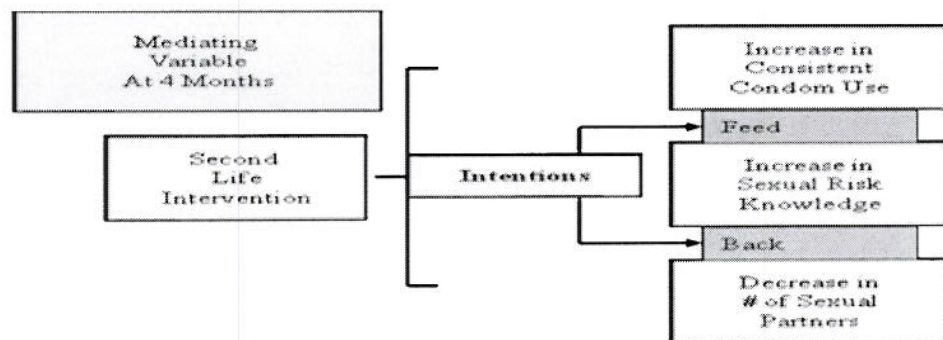


Design: A randomized controlled trial will be used to pilot test Second Life, using Crossover design. The randomized control trial uses 1) a PowerPoint intervention and 2) a PowerPoint plus e-card CDC STI prevention intervention. All students will receive online pretest surveys, followed by a PowerPoint audio educational presentation on knowledge and skill building information for the prevention of viral STIs, followed by posttest surveys. After posttest the participants will then be randomly assigned by computer to one of two

conditions, 1. a weekly e-card from the CDC STI prevention message center for 4 months (experimental group); or 2 a control group who does not receive the e-card. All participants (experimental and control group) will be contacted and asked to complete a 4-month follow-up survey.

Crossover design will be used to pilot test the Second Life intervention. After receiving the PowerPoint audio educational presentation and after 4 months posttest; subjects in the control group (group not receiving the e-cards from the CDC) will be offered the Second Life 3-D Multi-User Educational intervention (Figure 2). Second Life participants will receive a questionnaire (10 questions) asking for feedback about the overall experience and specific features of Second Life. Second Life Participants will be instructed to register for an account online at <http://secondlife.com> and download the free software to run the program. Participants will be directed to tour two virtual islands the Sexual Health Sim and CDC Island

Figure 2. Logic Model: Second Life Intervention



The study will be implemented online at 3 Universities: University of South Florida; Bethune Cookman University (Daytona Beach), and Florida Agriculture and Mechanical University (Tallahassee). **Sample:** Approximately 320 students_ the control group (60% women and 40% men) will be invited to participant in the Crossover design study. Race/ethnicity is projected to be 60% African American and 40% Caucasian.

Recruitment: After IRB design modification request and approval for (Crossover) arm, participants will be invited via e-mail (e.g. control group only). Participants in the experimental and control group will complete the surveys **three** times; at pre-intervention, after intervention, and 4 months following the weekly messaging regimen (CDC e-cards). The control group will complete a one time feedback questionnaire and the survey instruments a fourth time (after Second Life intervention).

Data Collection and Instruments: The *Self-Efficacy Survey of Protective Sexual Behaviors*, is a 22-item, 5-point Likert scale that measures respondents' perception of their ability to refuse sexual intercourse,

question potential sexual partners, and use condoms. Higher total scores indicate higher levels of self-efficacy for protective sex. Cronbach's alpha reliability estimate for the entire survey is 0.80. Reliability estimates for subscales are: Refusing sexual intercourse (0.85); Questioning potential sexual partners (0.80); Condom use (0.81). The *HPV Knowledge Scale* is based on the TPB and uses a 5-point Likert scales. The subscales include; (i) Intention to use condoms (3 items, coefficient alpha = 0.94); (ii) Attitude towards condom use (10 items, coefficient alpha = 0.80); (iii) Subjective norms regarding condom use (4 items, coefficient alpha = 0.86); and (iv) Perceived behavioral control regarding condom use (17 items, coefficient alpha = 0.87). The instruments will be transferred from the paper version to an electronic version using the Ultimate Survey software® (Prezza Technologies, 2007). This program is designed to distribute electronic recruitment messages with survey links, via e-mail, to a large volume of recipients. The software has the ability to track responses, and large-scale invitation distribution. *The Second Life Feedback Questionnaire* is a 10 question instrument. Participants will complete the instruments using a computer with internet access. The provision of informed consent will also occur online prior to completion of any of the survey materials.

Description of Second Life Intervention: The Second Life intervention will occur on virtual education Islands. Major component of the Second Life intervention consist of real world health communication tools such as prepared messages disseminated through interactive information kiosks, poster and bulletin boards, health videos, slideshows and links to Web pages. **The Sexual Health Sim** contains public health information about STIs. This island contains photographs of symptoms of various STIs and a 3-D tour of the testes. Users can read about condoms and safe sex practices, and receive a virtual condom for their avatars to use. The CDC island is a 3-D virtual representation of the US Centers for Disease Control and Prevention. This island contains many displays that link users to discussions and focus groups.

Data Analysis: The survey data retrieved from participants will be exported, in bulk, from the Ultimate Survey® program and analyzed using the SAS System. Descriptive statistics will be used to examine data for missing values and outliers. Aim 1 involve “*within-person*” analyses, that is, does the Second Life intervention increase knowledge and change behavior for prevention of STIs through number of sexual partners and consistency of condom use. Thus, the primary analytic methods will be paired t-tests for continuous variables

and McNemar’s tests for proportions.¹⁰ For Aim #2, we seek to evaluate whether the control group, which will receive the Second Life intervention, exhibits higher knowledge and behavioral after exposure to the education Islands compared to the experimental (i.e. “*between-group*” analyses). The primary analytic method will be mixed models¹⁰ which use random effects to induce correlation over time between observations (i.e. at pre-intervention, post-intervention, 4 months) on the same participant. This approach will allow for a range of possible covariance structures, and the random effects structure described above can account for across-participant heterogeneity regarding rates of change in beliefs, while facilitating estimation of fixed effects, the weekly e-card messaging regimen in particular.

Projected timeline for the completion of pilot project:

| Year 1 Tasks | Month | | | | | | | | | | | |
|--|-------|---|---|---|---|---|---|---|---|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| IRB modification Approval | ■ | ■ | | | | | | | | | | |
| Recruitment | | | ■ | ■ | | | | | | | | |
| Administer pre-test study questionnaires | | | | ■ | | | | | | | | |
| Administer web-based education | | | | ■ | | | | | | | | |
| Administer post-test study questionnaires | | | | ■ | | | | | | | | |
| Weekly E-card messaging | | | | | ■ | ■ | ■ | ■ | | | | |
| Four month crossover study | | | | | | | | ■ | ■ | ■ | | |
| Five month post survey data collection | | | | | | | | | | ■ | ■ | ■ |
| Conduct preliminary data analyses | | | | | | | | | | ■ | ■ | ■ |

Going forward, I seek to (i) transitioning the proposed pilot study into a larger NIH-funded R01 study, by use of a randomized controlled experimental study design; (ii) validating the effectiveness of the Second Life intervention in different populations classified by age, gender, race, ethnicity, and socioeconomic status; (iii) building a nationally and international recognized interdisciplinary program of research and education in prevention of STIs; and (iv) formally enhancing positive beliefs and skill building to the prevention of STIs among adolescents and young adults.

4. Expected Outcomes of Project Form

EXPECTED OUTCOMES OF PROJECT

No word limit. Single-spaced outline format is permitted.

| Plan | Action | Timeline | Metrics |
|--|---|--|---|
| ➤ Presentation and dissemination of research | Attend CANS conference Washington DC ✓ Submit abstract for presentation | January 2011 | Abstract accepted for podium presentation |
| | Attend NPWH Conference Rhode Island ✓ Submit abstract for presentation | October 2010 | Abstract accepted for podium presentation |
| | Develop abstracts into manuscript for publication in practice journals ✓ Virtual Environments and its use in Viral Sexually Transmitted Infection Prevention: <i>Women's Health Care: A Practice Journal for Nurse Practitioners</i> ✓ Innovative Teaching Methods for Computer Savvy Students: <i>Journal of Nursing Scholarship</i> ✓ Using Innovative Technology in the 21 st Century to Decrease Viral STIs in Young Adult Women: <i>The Female Patient</i> ✓ A Survey of Innovative Technology in three university settings Aimed at Decreasing Viral STIs in Young Adults: <i>Journal of Medical Internet Research</i> | November 2010 December 2010 | Manuscript accepted for publication Manuscript accepted for publication |
| ➤ Community Service | Dissemination research findings within the community ✓ narrow the gap of health disparities relating to women and adolescent reproductive health | October 2010- October 2011 | Invitation to present research at <ul style="list-style-type: none"> • Moffitt Cancer Center Nursing Research Education Working Group: • Annual Polk County Advance Practice Nurse Symposium • Tampa Speaking of Women's Annual Health Event |

b. Proposal Plan – Briefly describe how the results of this project might develop into a proposal for external funding. Include the name of potential funding mechanisms and agencies/foundations and submission timelines. Higher priority will be given to plans that show how this study might fit published funding priorities of agencies/foundations.

Submit: 1 April 2011 American Cancer Society Institutional Research Grant, Narrow the gap of health disparities relating to women and adolescent reproductive health, five year budget of \$135,000 per year (direct cost), plus 8% allowable indirect costs.

Submit: 5 May 2011 National Cancer Institute, Adolescent and Future reproductive Health Narrowing the Gap For Cervical Cancer, Awards issued under this FOA are contingent upon the availability of funds and the submission of a sufficient number of meritorious applications. Because the nature and scope of the proposed research will vary from application to application, it is anticipated that the size and duration of each award will also vary. The total amount awarded and the number of awards will depend upon the mechanism numbers, quality, duration, and costs of the applications received.

Budget Form

PROPOSED BUDGET

| Research Assistant Graduate Students (list each individual/position with percentage of effort as FTE & length of employment) | Amt. Requested |
|---|-----------------------|
| | |

| All other Personnel (List each individual/position separately, include length of employment) | Amt. Requested |
|---|-----------------------|
| | |
| SUBTOTAL OF "SALARIES & WAGES" | \$ |

OTHER BUDGET ITEMS

| Equipment (list each item separately) | Amt. Requested |
|---|-----------------------|
| Annually Island cost \$72.00 X 2 Islands (CDC & Sexual Health Sim) | \$144 |
| Supplies | Amt. Requested |
| Full Region (65, 536 sqm) \$1000 | \$1000 |
| Travel (Must be necessary to conduct the study; may not include travel to present results) | Amt. Requested |
| | |
| Operating Expenses | Amt. Requested |
| monthly maintenance fee \$295 x18 months | \$5310 |
| Other | Amt. Requested |
| | |
| SUBTOTAL OF "OTHER BUDGET ITEMS" REQUESTED | \$ 6454 |

| | |
|-------------------------------|----------------|
| TOTAL AMOUNT REQUESTED | \$ 6454 |
|-------------------------------|----------------|

END OF PROJECT FINAL REPORT FORM
Nursing Faculty in Pilot Research Projects
Initiated Spring 2010

Send to:

Kevin E. Kip, Ph.D., FAHA
Associate Professor,
Executive Director, Research Center
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Tampa, FL 33612-4476
(813) 974-9266 (phone)
(813) 974-7903 (fax)
kkip@health.usf.edu

Principal Investigator: _____

Title of Project: _____

Date of Award: _____ Period of Award: _____

Award Amount: _____

Attach the following information to this cover sheet.

1. Provide a 200-word **abstract** describing in non-technical language your project and its results.

2. List the **tangible products/results** of this specific project (i.e., articles, books, exhibitions, papers presented, performances, other grant proposals and/or funding).

3. Write a 1-2 page single-space **summary report** of your project including purpose, methods, findings, recommendations/conclusions. The inclusion of supporting material, such as reprints, slides, etc. is optional.

4. List all **personnel** funded by this grant.

References

1. Kamel Boulos, N., & Toth-Cohert, S., (2009). The University of Plymouth Sexual Health SIM experience in Second Life: evaluation and reflections after 1 year. *Health Information and Libraries Journal*, 26, 279-288.
2. Skiba, D. (2009). Nursing Education 2.0: A Second Look at Second Life. *Emerging Technologies*, 30 (2),129-131.
3. Boulos, M., Ramioll, R., Jones, R., & Toth-Cohen, T. (2008). Web 3D for Public, Environmental and Occupational Health: Early Examples for Second Life. *International Journal of Environmental Research and Public Health*, 5, 291-317.
4. Beard, L., Wilson, K., Morra, D., & Keelan, J. (2009). A Survey of Health Related Activities on Second Life. *Journal Medical Internet Research*, 11 (2), e17
5. Schmidt, B., & Stewart, S. (2009). Implementing the Virtual Reality Learning Environment. *Nursing Education*, 34 (4). 152-155.
6. Ajzen, (1991). Behavioral interventions based on the theory of planned behavior. Retrieved from [www.http://people.umass.edu/aizen/tpb.diag.html](http://people.umass.edu/aizen/tpb.diag.html)
7. O'Leary A, Jemmott LS, Jemmott JB.(2008). Mediation analysis of an effective sexual risk-reduction intervention for women: the importance of self-efficacy. *Health Psychol.* 27 (2 Suppl): S180-4.
8. Lin, J., Whitlock, E., O'Connor, E., & Bauer, V. (2008). Behavioral counseling to prevent sexually transmitted infections: a systematic review for the U.S. preventive task force. *Annals of Internal Medicine*, 147 (7), 497-509.
9. Heeren, G. A., Jemmott, J. B., Mandeya A., & Tyler, J.C., (2007). Theory-based predictors of condom use among university students in the United States and South Africa. *AIDS Education Prevention*, 19 (1), 1-12.
10. Laird NM, & Ware JH. (1982). Random-effects models for longitudinal data. *Biometrics* (4):963-974.

Please take a moment to answer this *Second Life* Questionnaire

1. Do you have past experience with Second Life?

| | |
|---------------------------|--------------------------|
| <input type="radio"/> Yes | <input type="radio"/> No |
|---------------------------|--------------------------|

2. How useful was this place/session for you?

| | | |
|----------------------------|------------------------------|----------------------------------|
| <input type="radio"/> Very | <input type="radio"/> Fairly | <input type="radio"/> Not Useful |
|----------------------------|------------------------------|----------------------------------|

3. Did you learn anything that was new to you?

| | | |
|---------------------------|--------------------------|------------------------------|
| <input type="radio"/> Yes | <input type="radio"/> No | <input type="radio"/> Unsure |
|---------------------------|--------------------------|------------------------------|

4. Do you think what you learnt will change your behavior?

| | | |
|----------------------------------|--------------------------------|----------------------------------|
| <input type="radio"/> Definitely | <input type="radio"/> Possibly | <input type="radio"/> Not at all |
|----------------------------------|--------------------------------|----------------------------------|

5. Would you recommend this place to your friends

| | | |
|---------------------------|--------------------------|--------------------------------|
| <input type="radio"/> Yes | <input type="radio"/> No | <input type="radio"/> Not Sure |
|---------------------------|--------------------------|--------------------------------|

6. What did you like the most? (answer in free text)

7. What did you like the least? (answer in free text)

8. Please make any comments you would like to leave for us here
(answer in free text)

**COLLEGE STUDENT DEMOGRAPHIC DATA FORM
HUMAN PAPILLOMAVIRUS**

Please do not put your name or any self identifying information on this sheet.
Please be completely honest with your response.

Your age_____

What is your gender?

- MALE
- FEMALE

What is your work status? (please check **all** that apply):

- Unemployed
- Unemployed, laid off
- Disabled
- In school
- Employed full time
- Employed part time

What is your marital status? (please check)

- Married
- Separated
- Never married
- Divorced
- Widowed
- Living together
- Other

Do you consider yourself to be Hispanic?

- Yes
- No

What is your ethnic/race group? (please check **all** that apply)

- Caucasian
- African American/Black
- Hispanic
- Native American
- Asian
- Other

What is your class standing?

- Freshman
- Sophomore
- Junior
- Senior
- Graduate Student
- Other

Where do you currently live?

- College dormitory or residence hall
- Fraternity or sorority house
- Other university/college housing
- Off-campus house or apartment
- Parent/guardian's home
- Other

Are you currently in a monogamous relationship (an exclusive relationship with one person)?

- YES
- NO

During the past 30 days, on how many days did you have at least one drink of alcohol?

- 0 days
- 1 or 2 days
- 3 to 5 days
- 6 to 9 days
- 10 to 19 days
- 20 to 29 days
- all 30 days

During the past 30 days, how many times did you drive a car or other vehicle when you had been drinking alcohol?

- 0 times
- 1 time
- 2 or 3 times
- 4 or 5 times
- 6 or more times

During the past 30 days, how many times did you ride in a car or other vehicle driven by someone who had been drinking alcohol?

- 0 times
- 1 time
- 2 or 3 times
- 4 or 5 times
- 6 or more times

How do you describe your status as a cigarette smoker?

- Smoker
- Non-smoker

Did you drink alcohol or use drugs before you had sexual intercourse the last time?

- Yes
- No

What is your annual household income? (Dollars)

- 19,999 or less
- 20,000-29,000
- 30,000-39,000
- 50,000 or more

What is your medical coverage status?

- Medicaid
- Private insurance
- No insurance
- School Insurance
- Other _____

The last time you had sexual intercourse, what method did you or your partner use to prevent pregnancy?

- The Pill Patch
- The shot (depo or lunelle)
- Norplant IUD
- Diaphragm Estrogen ring
- None other
- not applicable have never had sex

Do you use condoms?

- Yes No

Sexual preference

- Heterosexual
- Homosexual
- Bisexual

Does your sex partner use condoms?

- Yes
- No

How old were you the first time you had vaginal sex?

Your age _____

- Never had vaginal sex

Within the last year how many different sex partners have you had? (be serious)

Number of sex partners _____

Have you ever had an abnormal Pap Test?

- Yes
- Don't know
- No
- Male gender

Have you ever refused a vaccine for yourself?

- yes
- No

Have you ever refused a vaccine for any family member?

- yes
- no

Do you have difficulty asking your HealthCare Provider about vaccinations?

- yes
- no

Have you heard of the HPV vaccine (Gardasil)?

- yes
- no

Would you recommend the HPV vaccine to a friend?

- yes
- no

Would you recommend the HPV vaccine to a family member?

- yes
- no

Have been vaccinated with the HPV vaccine (Gardasil)?

- yes
- no
- no plans to be vaccinated against HPV

Would you have your child vaccinated with the HPV vaccine?

- yes
- no
- I don't have a child

Do you have difficulty talking to your child's Health Care Provider about vaccinations?

- yes
- no
- I don't have a child

Do you have difficulty talking to your child about cancer?

- yes
- no
- I don't have a child

Do you have difficulty talking to your child about sex?

- yes
- no
- I don't have a child

Do you know anyone with cervical cancer?

- Yes
- No

INTERVENTION:
COLLEGE STUDENT PRE-INTERVENTION
KNOWLEDGE SURVEY

Date: _____

ID#: _____

Session #: _____

We would like to ask you some questions about your health and knowledge of HPY. Your ideas and feelings are important to us. There are no right or wrong answers. Some of the questions ask about your knowledge of health issues. It's important that you answer every question. Please do not skip any of them.

The survey does not have your name on it, so your answers will be private. The only people who will see them are the research staff. We will not share any of your answers with your friends or parents. Please be honest and answer as best you can.

Male _____

Female _____

First we are going to ask you some questions about what you might have seen or heard about human papilloma virus (HPV) and the HPV shot, also called Gardasil ®

1. Before today, had you ever heard of HPV?

Yes No Don't know

2. Before today, had you ever heard of cervical cancer?

Yes No Don't know

3. Before today, had you ever heard of the HPV shot, also called Gardasil ®?

Yes No Don't know

4. Have you seen or heard any news or ads about the HPV shot?

Yes No Don't know

5. Has what you have learned about the HPV shot from the media in the last 3 months, say in the newspaper or on TV, been mostly good, mostly bad, or both?

Mostly Good Mostly Bad Both Good and Bad I haven't seen anything

6. Has a doctor or nurse talked to you about the HPV shot?

Yes No Don't know

7. Do you know someone who has gotten the HPV shot?

Friend Sister Someone else No one

Now we are going to ask you some questions about HPV and the HPV shot.

8. HPV is the most common STD in the U.S.

True False Don't know

9. HPV causes most cases of cervical cancer and genital warts.

True False Don't know

10. The HPV shot protects against most cases of cervical cancer.

True False Don't know

11. The HPV shot protects against most cases of genital warts.

True False Don't know

12. Women will never need Pap tests if they get the HPV shot.

True False Don't know

13. Everyone who has cervical cancer has HPV.

True False Don't know

14. You cannot get HPV if there is no penetration during sex.

True False Don't know

15. Having sex with more than one person increases your chances of getting HPV.

True False Don't know

16. Using a condom during sex lowers the chance of getting HPV.

True False Don't know

17. Genital warts caused by HPV are always seen on the outside of the vagina or penis.

True False Don't know

18. HPV is most commonly transmitted from unprotected sex.

True False Don't know

19. You can tell if your sexual partner has HPV.

True False Don't know

20. The HPV shot is recommended for girls as young as 9 years old.

True False Don't know

21. Girls who have never had sex do not need to get the HPV shot.

True False Don't know

22. If a girl gets the HPV shot she does not need to use condoms during sex.

True False Don't know

23. Some doctors and nurses offer the HPV shot to girls 18 years of age and younger for free.

True False Don't know

24. All girls need their parent or guardians permission to get the HPV shot.

True False Don't know

25. All three shots of the HPV shot are needed to fully protect against HPV.

- True False Don't know

Now we are going to ask you about some of your thoughts and feelings about HPV and the HPV shot. If you are a male check male gender

26. I plan to get the HPV shot in the next 3 months.

- Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

27. How likely is it that you will decide to get the HPV shot in the next 3 months?

- Very Likely Likely In the Middle Unlikely Very Unlikely Male Gender

28. Who would be happy if you got the HPV shot in the next 3 months? You can check more than one box.

- Me
- My Mother
- My Father
- Other guardian
- My religious leader
- School health center
- My doctor or nurse
- My friends
- My sister
- My partner/sexual partner
- My Grandmother
- No one
- Male Gender
- Other: Who? _____

29. Who would be unhappy if you got the HPV shot in the next 3 months? You can check more than one box.

- Me
- My Mother
- My Father
- Other guardian

- My religious leader
- School health center
- My doctor or nurse
- My friends
- My sister
- My partner/sexual partner
- My Grandmother
- No one
- Male Gender
- Other: Who? _____

30. Who would you talk with if you were trying to decide whether or not to get the HPV shot in the next 3 months? You can check more than one box.

- My Mother
- My Father
- Other guardian
- My religious leader
- School health center
- My doctor or nurse
- My friends
- My sister
- My partner/sexual partner
- My Grandmother
- No one
- Male Gender
- Other: Who? _____

31. I plan to talk to my parent or guardian about HPV and the HPV shot in the next 3 months.

- | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Strongly Agree | Agree | Maybe Agree or Disagree | Disagree | Strongly Disagree | Male Gender |

32. How likely is it that you will decide to talk to your parent or guardian about HPV and the HPV shot in the next 3 months?

- | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Very Likely | Likely | In the Middle | Unlikely | Very Unlikely | Male Gender |

33. I plan to talk to my doctor or nurse about HPV and the HPV shot in the next 3 months.

- | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Strongly Agree | Agree | Maybe Agree or Disagree | Disagree | Strongly Disagree | Male Gender |

34. How likely is it that you will decide to talk to your doctor or nurse about HPV and the HPV shot in the next 3 months?

Very Likely Likely In the Middle Unlikely Very Unlikely Male Gender

35. It is important to have my parent or guardian's OK before I get the HPV shot.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

36. I am comfortable talking to my parent or guardian about the HPV shot in the next 3 months.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

37. If I talk to my parent or guardian about the HPV shot, they'll think I'm having sex.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

38. If I really want to, I can get the HPV shot in the next 3 months.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

39. I am able to get the HPV shot in the next 3 months.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

40. I know enough about the HPV shot to decide if I want to get it in the next 3 months.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

41. I know where I could go to get the HPV shot in the next 3 months.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

42. I could explain to my parent or doctor why I want to get the HPV shot in the next 3 months.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

43. It will be okay to have sex more often if I get the HPV shot.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

44. There is a chance I could get HPV infection.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

45. HPV infection can be prevented.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

46. Getting HPV infection is not a big deal.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

47. Getting the HPV shot would protect me from cervical cancer and genital warts.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

48. It is important to get all three HPV shots.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

49. The HPV shot doesn't work.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

50. I don't know how the HPV shot will affect the body.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

51. Only "dirty girls" (girls who have sex with a lot of people) get HPV.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

52. If I decide to abstain from sex I do not need to get the HPV shot.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

53. I am scared to get the HPV shot because I am afraid of needles.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

54. Even if I don't like needles, it is important for me to get the HPV shot.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

55. I'll get HPV, genital warts or cervical cancer if I get the HPV shot.

- Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

56. The HPV shot is a cure for HPV and other diseases.

- Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

57. If I get the HPV shot I can have sex without worrying about getting any sexually transmitted diseases (STDs).

- Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

58. What would make it hard for you to get the HPV shot in the next 3 months? You can check more than one box.

- Nothing would make it hard
- I do not want to get the HPV shot
- Not knowing enough about it
- Having to go the appointment alone
- Having to get a painful needle
- Needing permission from my parent or guardian
- Being too busy
- Male Gender
- Other: What? _____

59. Would any of these stop you from getting the HPV shot in the next 3 months? You can check more than one box.

- None of these would stop me
- I do not want to get the HPV shot
- Not knowing enough about it
- Having to go the appointment alone
- Having to get a painful needle
- Needing permission from my parent or guardian
- Being too busy
- Male Gender
- Other: What? _____

60. I would get the HPV shot even if I knew I might get side effects.

- Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

61. How easy or hard is it for you to go to the doctor when you need to?

- Very Easy Easy Sometimes Easy or Hard Hard Very Hard

62. How often do you miss doctor's appointments?

- Never Sometimes A lot

63. Why do you miss doctor's appointments? You can check more than one box.

- I don't miss doctor's appointments
- I forget about it
- I don't have transportation / It's hard to get there
- I have something else to do- School
- I have something else to do- Work
- I have something else to do- Something with my friends
- I have something else to do- Family commitment
- No one can go with me
- I don't feel sick
- I don't like going to the doctor
- I was worried I might get a shot
- Other: _____

64. Who do you talk to when you have questions about your health? You can check more than one box.

- My Mother
- My Father
- Other guardian
- My religious leader
- School health center
- My doctor or nurse
- My friends

- My sister
- My partner/sexual partner
- My Grandmother
- No one
- Other: Who? _____

65. Who makes most of the decisions about your health? You can check more than one box.

- I do
- My Mother
- My Father
- Other guardian
- My religious leader
- School health center
- My doctor or nurse
- My friends
- My sister
- My partner/sexual partner
- My Grandmother
- Other: Who? _____

66. Who makes doctor's appointments for you? You can check more than one box.

- I do
- My Mother
- My Father
- Other guardian
- My religious leader
- School health center
- My doctor or nurse
- My friends
- My sister
- My partner/sexual partner
- My Grandmother
- Other: Who? _____

67. Who goes with you to the doctor? You can check more than one box.

- I go alone
- My Mother
- My Father
- Other guardian

- My religious leader
- School health center
- My doctor or nurse
- My friends
- My sister
- My Partner/sexual partner
- My Grandmother
- Other: Who? _____

Sexual Self-Efficacy Survey

You are being asked to respond to statements on a three part questionnaire regarding Sexual Self-Efficacy by marking one of the five spaces.

1. Refuse Sexual Intercourse

On a scale of 1 to 5, indicate how sure you are that you would be able to say **NO** to have sexual intercourse for each item. Please bubble in your response

1= Not at All 2=A Little Sure 3=Somewhat Sure 4=Pretty Sure 5=Very Sure

| | 1 | 2 | 3 | 4 | 5 |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 1. With someone you have known for a few days or LESS? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2. With someone whose sex and drug history is not known to you? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3. With someone you have dated a long time? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4. With someone you want to date again? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5. With someone with whom you have already had sexual intercourse? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6. With someone who you want to fall in love with you? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7. With someone who is pushing you to have sexual intercourse? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8. With someone after you have been smoking marijuana? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9. With someone after you have been drinking alcohol? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Question Potential Sex Partners

On a scale of 1 to 5, indicate how sure you are that you would be able to discuss each of the following with your boyfriend or girlfriend. Please bubble in your response.

1= Not at All 2=A Little Sure 3=Somewhat Sure 4=Pretty Sure 5=Very Sure

- | | 1 | 2 | 3 | 4 | 5 |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 1. Ask your boyfriend/girlfriend if he/she has ever injected drugs such as heroin or cocaine into their veins? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2. Discuss preventing AIDS or sexually transmitted infections (gonorrhea, etc.) or pregnancy with your boyfriend/girlfriend? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3. Ask your boyfriend/girlfriend about sexual relationships that he/she has had in the past? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4. Ask your boyfriend/girlfriend if she has ever had anal (rectal or butt) intercourse? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5. Ask your /boyfriend/girlfriend if he/she has ever had a sexually transmitted infection? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

3. Condom Use

On a scale of 1 to 5, indicate how sure you are that you would be able to perform each of the following. Please bubble in your response.

1= Not at All 2=A Little Sure 3=Somewhat Sure 4=Pretty Sure 5=Very Sure

- | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 1. Use a condom correctly. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2. Use a condom every time you had sexual intercourse? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3. Use a condom during sex after you have been drinking? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4. Use a condom during sex after you have been using marijuana? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5. Insist on using a condom during sex even if your boyfriend/girlfriend does not want to use a condom? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6. Refuse to have sex if your boyfriend/girlfriend will not use a condom? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7. Get the money needed to buy condoms? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8. Walk into a store and buy condoms? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

INTERVENTION: COLLEGE STUDENT POST-INTERVENTION SURVEY

Date: _____

ID#: _____

Thank you for viewing the Web-based education session. We hope that you found it useful when making decisions about your own health. Now, we would like to ask you some questions about what you saw today and how you feel about certain health topics. Your ideas and feelings are important to us. There are no right or wrong answers. Some of the questions ask about your knowledge of health issues. It's important that you answer every question. Please do not skip any of them.

The survey does not have your name on it, so your answers will be private. The only people who will see them are the research staff. We will not share any of your answers with your friends or parents. Please be honest and answer as best you can.

Male _____

Female _____

First we are going to ask you some questions about HPV and the HPV shot.

1. HPV is the most common STD in the U.S.

True False Don't know

2. HPV causes most cases of cervical cancer and genital warts.

True False Don't know

3. The HPV shot protects against most cases of cervical cancer.

True False Don't know

4. The HPV shot protects against most cases of genital warts.

True False Don't know

5. Women will never need Pap tests if they get the HPV shot.

True False Don't know

6. Everyone who has cervical cancer has HPV.

True False Don't know

7. A girl cannot get HPV if there is no penetration during sex.

True False Don't know

8. Having sex with more than one person increases girls chances of getting HPV.

True False Don't know

9. Using a condom during sex lowers the chance of getting HPV.

True False Don't know

10. Genital warts caused by HPV are always seen on the outside of the vagina.

True False Don't know

11. HPV is most commonly transmitted from unprotected vaginal sex.

True False Don't know

12. A girl can tell if her sexual partner has HPV.

True False Don't know

13. The HPV shot is recommended for girls as young as 9 years old.

True False Don't know

14. Girls who have never had sex do not need to get the HPV shot.

True False Don't know

15. If a girl gets the HPV shot she does not need to use condoms during sex.

True False Don't know

16. Some doctors and nurses offer the HPV shot to girls 18 years of age and younger for free.

True False Don't know

17. All girls need their parent or guardians permission to get the HPV shot.

True False Don't know

18. All three shots of the HPV shot are needed to fully protect against HPV.

- True
 False
 Don't know

Now we are going to ask you about some of your thoughts and feelings about HPV and the HPV shot.

68. I plan to get the HPV shot in the next 3 months.

- Strongly Agree
 Agree
 Maybe Agree or Disagree
 Disagree
 Strongly Disagree
 Male Gender

69. How likely is it that you will decide to get the HPV shot in the next 3 months?

- Very Likely
 Likely
 In the Middle
 Unlikely
 Very Unlikely
 Male Gender

70. Who would be happy if you got the HPV shot in the next 3 months? You can check more than one box.

- Me
- My Mother
- My Father
- Other guardian
- My religious leader
- School health center
- My doctor or nurse
- My friends
- My sister
- My partner/sexual partner
- My Grandmother
- No one
- Male Gender
- Other: Who? _____

71. Who would be unhappy if you got the HPV shot in the next 3 months? You can check more than one box.

- Me
- My Mother
- My Father
- Other guardian
- My religious leader

- School health center
- My doctor or nurse
- My friends
- My sister
- My partner/sexual partner
- My Grandmother
- No one
- Male Gender
- Other: Who? _____

72. Who would you talk with if you were trying to decide whether or not to get the HPV shot in the next 3 months? You can check more than one box.

- My Mother
- My Father
- Other guardian
- My religious leader
- School health center
- My doctor or nurse
- My friends
- My sister
- My partner/sexual partner
- My Grandmother
- No one
- Male Gender
- Other: Who? _____

73. I plan to talk to my parent or guardian about HPV and the HPV shot in the next 3 months.

- | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Strongly Agree | Agree | Maybe Agree or Disagree | Disagree | Strongly Disagree | Male Gender |

74. How likely is it that you will decide to talk to your parent or guardian about HPV and the HPV shot in the next 3 months?

- | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Very Likely | Likely | In the Middle | Unlikely | Very Unlikely | Male Gender |

75. I plan to talk to my doctor or nurse about HPV and the HPV shot in the next 3 months.

- | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Strongly Agree | Agree | Maybe Agree or Disagree | Disagree | Strongly Disagree | Male Gender |

76. How likely is it that you will decide to talk to your doctor or nurse about HPV and the HPV shot in the next 3 months?

Very Likely Likely In the Middle Unlikely Very Unlikely Male Gender

77. It is important to have my parent or guardian's OK before I get the HPV shot.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

78. I am comfortable talking to my parent or guardian about the HPV shot in the next 3 months.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

79. If I talk to my parent or guardian about the HPV shot, they'll think I'm having sex.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

80. If I really want to, I can get the HPV shot in the next 3 months.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

81. I am able to get the HPV shot in the next 3 months.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

82. I know enough about the HPV shot to decide if I want to get it in the next 3 months.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

83. I know where I could go to get the HPV shot in the next 3 months.

| | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Strongly Agree | Agree | Maybe Agree or Disagree | Disagree | Strongly Disagree | Male Gender |

84. I could explain to my parent or doctor why I want to get the HPV shot in the next 3 months.

| | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Strongly Agree | Agree | Maybe Agree or Disagree | Disagree | Strongly Disagree | Male Gender |

85. It will be okay to have sex more often if I get the HPV shot.

| | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Strongly Agree | Agree | Maybe Agree or Disagree | Disagree | Strongly Disagree | Male Gender |

86. There is a chance I could get HPV infection.

| | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Strongly Agree | Agree | Maybe Agree or Disagree | Disagree | Strongly Disagree |

87. HPV infection can be prevented.

| | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Strongly Agree | Agree | Maybe Agree or Disagree | Disagree | Strongly Disagree |

88. Getting HPV infection is not a big deal.

| | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Strongly Agree | Agree | Maybe Agree or Disagree | Disagree | Strongly Disagree |

89. Getting the HPV shot would protect me from cervical cancer and genital warts.

| | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Strongly Agree | Agree | Maybe Agree or Disagree | Disagree | Strongly Disagree |

90. It is important to get all three HPV shots.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

91. The HPV shot doesn't work.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

92. I don't know how the HPV shot will affect my body.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

93. Only "dirty girls" (girls who have sex with a lot of people) get HPV.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

94. If I decide to abstain from sex I do not need to get the HPV shot.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

95. I am scared to get the HPV shot because I am afraid of needles.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

96. Even if I don't like needles, it is important for me to get the HPV shot.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

97. I'll get HPV, genital warts or cervical cancer if I get the HPV shot.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

98. The HPV shot is a cure for HPV and other diseases.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

99. If I get the HPV shot I can have sex without worrying about getting any sexually transmitted diseases (STDs).

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

100. What would make it hard for you to get the HPV shot in the next 3 months? You can check more than one box.

- Nothing would make it hard
- I do not want to get the HPV shot
- Not knowing enough about it
- Having to go the appointment alone
- Having to get a painful needle
- Needing permission from my parent or guardian
- Being too busy
- Male Gender
- Other: What? _____

101. Would any of these stop you from getting the HPV shot in the next 3 months? You can check more than one box.

- None of these would stop me
- I do not want to get the HPV shot
- Not knowing enough about it
- Having to go the appointment alone
- Having to get a painful needle
- Needing permission from my parent or guardian
- Being too busy
- Male Gender
- Other: What? _____

102. I would get the HPV shot even if I knew I might get side effects.

- Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree Male Gender

103. Are you currently pregnant?

- Yes No Male Gender

Now we would like to ask you some questions about the Web-based education session you just completed

104. Where did you learn about this web-based session?

- A friend
- A recreation center
- Library
- Community organization
- Church
- Someone who approached me on the street
- Flyer or poster
- School
- Public housing project
- Store
- Newspaper ad in the Metro
- Other: _____

105. How easy was it for you to schedule your session?

- Very Easy Easy Difficult Very Difficult

106. How convenient was the time of your web-based health session?

- Very Convenient Convenient Inconvenient Very Inconvenient

107. How convenient was the health session as web-based?

Very Convenient Convenient Inconvenient Very Inconvenient

108. I learned a lot from the health session.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

109. The health session was fun.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

110. The health session was worth my time.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

111. I understood what was talked about on the web-based PowerPoint health session.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

112. I learned how to make better decisions about my health after viewing the web-based health session.

Strongly Agree Agree Maybe Agree or Disagree Disagree Strongly Disagree

113. The presenter of the web-based health session were respectful of my thoughts.

Strongly Agree Agree Maybe Agree Disagree Strongly Disagree

- | | | | | |
|--|-------|-------------|--|----------|
| | Agree | or Disagree | | Disagree |
|--|-------|-------------|--|----------|
114. The CDC electronic cards were respectful of my thoughts.
- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Strongly Agree | Agree | Maybe Agree or Disagree | Disagree | Strongly Disagree |
115. The presenter knew what she was talking about.
- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Strongly Agree | Agree | Maybe Agree or Disagree | Disagree | Strongly Disagree |
116. I want to talk to my friends and family about what I learned.
- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Strongly Agree | Agree | Maybe Agree or Disagree | Disagree | Strongly Disagree |
117. I want to talk to my partner/sex partner about what I have learned.
- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Strongly Agree | Agree | Maybe Agree or Disagree | Disagree | Strongly Disagree |
118. I would tell my friends to watch the web-based health session.
- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Strongly Agree | Agree | Maybe Agree or Disagree | Disagree | Strongly Disagree |
119. Overall, I really liked this health session.
- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Strongly Agree | Agree | Maybe Agree or Disagree | Disagree | Strongly Disagree |
120. Do you think e-mailing for HPV shot appointment reminders will be helpful?
- | | |
|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> |
| Yes | No |