

INTRODUCTION

- Human Papillomavirus (HPV) is the most common sexually transmitted disease
- Affects about 20 million Americans
- College students (ages 15 through 24) make up large at-risk population

BACKGROUND AND PURPOSE

- HPV is linked to cervical, anal, oropharyngeal, and penile cancers, as well as genital warts
- Cervical cancer is the 2nd leading cause of cancer deaths worldwide
 - 4,000 women die each year from cervical cancer
- Three vaccines FDA approved to prevent HPV transmission
 - Cervarix = bivalent; HPV-16, 18
 - Gardasil = quadrivalent; HPV-6, 11, 16, 18
 - Protection against 90% of cervical cancers
 - Gardasil-9 = nonavalent; HPV-3, 6, 11, 16, 18, 31, 52, 58.
- Males and females should receive the 3-dose series at age 11 or 12

Purpose:

- Assess the knowledge base and provide education for HPV and its vaccines in a Midwest university population.

MATERIALS AND METHODS

Material and Methods:

- Pre and post test assess current knowledge of HPV in students
- Multiple demographic questions as well as 6 multiple choice questions assessing general HPV knowledge
- After pre-test, a 5 minute educational presentation followed to address multiple choice questions
 - Post-test followed with results compared to pre-test
- Poster board was constructed to reinforce education
- After data collection, results were analyzed to establish trends in knowledge of HPV and the HPV vaccine

Recruitment and Participants:

- Creighton University students (19 years of age or older)

STATISTICAL ANALYSIS

- Two-sided McNemar test (evaluate difference between pre and post-tests)
- P-values < 0.05 = significant
- Organized into nominal data

RESULTS

| Results | Frequency | Percentage |
|---------------------------------------|-----------|------------|
| Demographic Information | | |
| Male | 8 | 30.8 |
| Female | 18 | 69.2 |
| 19 through 21 | 25 | 96.2 |
| 22 through 26 | 1 | 3.8 |
| Provider Discussion about HPV | | |
| Discussed and recommended | 18 | 69.2 |
| Discussed and not recommended | 1 | 3.8 |
| Discussed and no recommendation | 2 | 7.7 |
| Not discussed | 5 | 19.2 |
| Where information was received | | |
| Flu clinic brochure | 1 | 3.8 |
| No information | 1 | 3.8 |
| Health care provider | 17 | 65.4 |
| Internet | 3 | 11.5 |
| Television | 4 | 15.4 |
| Number of doses received | | |
| 1 dose | 3 | 11.5 |
| 2 doses | 6 | 23.1 |
| 3 doses | 12 | 46.2 |
| No doses | 4 | 15.4 |

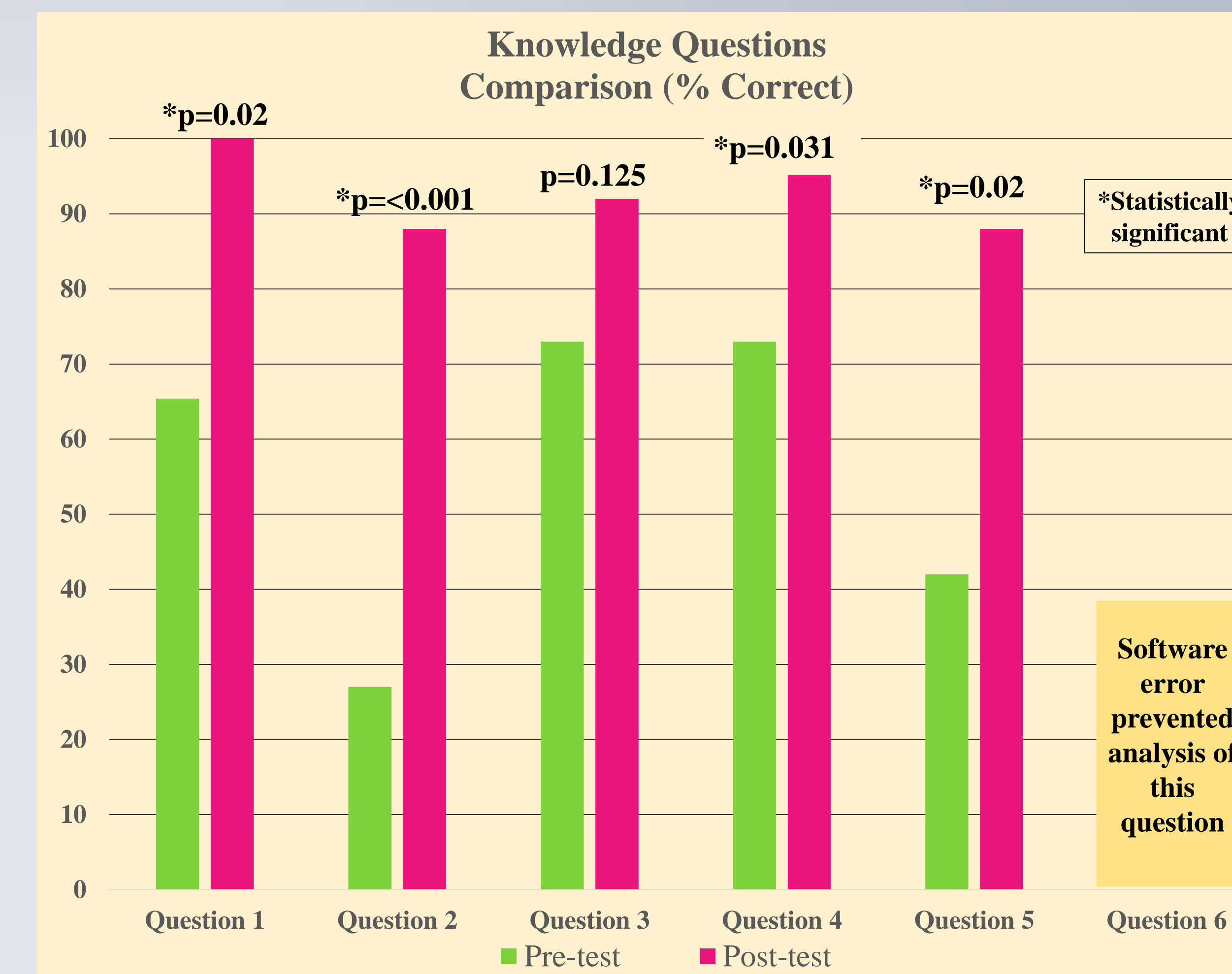
| Results | Frequency | Percentage |
|---|-----------|------------|
| Vaccination Plans (Pre-test) | | |
| Already had series | 16 | 61.5 |
| Maybe | 4 | 15.4 |
| No | 1 | 3.8 |
| Yes | 5 | 19.2 |
| Vaccination Plans (Post-test) | | |
| Not planning before but now considering | 4 | 15.4 |
| Reasons preventing vaccination (Pre-test) | | |
| Provider did not recommend | 1 | 3.8 |
| Already received/am planning on receiving | 20 | 76.9 |
| Believe don't need vaccine | 1 | 3.8 |
| Male and believe don't need | 1 | 3.8 |
| Other | 3 | 11.5 |
| Reasons preventing vaccination (Post-test) | | |
| Already received/am planning on receiving | 24 | 92.3 |
| Believe don't need vaccine | 1 | 3.8 |
| Other | 1 | 3.8 |

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RESULTS (continued)

A total of 26 students were evaluated and analyzed



Knowledge Questions:

1. What is the HPV vaccine FDA approved and indicated for?
2. What is the entire age group the HPV vaccine is indicated for according to the FDA?
3. Which gender is the vaccine approved for?
4. What is the most common way women to get infected with HPV?
5. According to the CDC, how many women in the US are diagnosed with and die from cervical cancer each year?
6. What can this vaccine protect against?

CONCLUSION

- Pre-test scores and numbers of students already receiving 1 dose of HPV vaccine were higher than expected
- Significant difference seen in 5/6 questions
- Some level of education and understanding concerning HPV vaccine present before data collection occurred
- 4 people stated they previously had not wanted to get the vaccine, but were now considering it.
- Findings serve as encouragement that simple and quick education about HPV vaccines can be effective in combating misinformation that may lead to low uptake of people receiving them.

ACKNOWLEDGEMENTS

Yongyue Qi, Statistician, Research Analysis, Pharmacy Health Professions