PREDICTING HUMAN PAPILLOMAVIRUS VACCINATION SERIES COMPLETION RATES: THE CASE OF NEW YORK STATE COUNTIES Nannette Cowen, MS, FNP-BC Lynn Baniak, PhD Candidate A. Serdar Atav, PhD Decker School of Nursing Binghamton University Binghamton, New York



- Main concern is cervical cancer but is also known to cause oral, anal, vulvar, vaginal and penile cancers in addition to genital warts.
- HPV vaccine produces a higher immune response from adolescents ages 11-12 than in older teens.

//www.cdc.gov/std/hpv/ .org/womens-health-policy/fact-sheet/the-hpv-vaccine-access-and-use-in/#endnote_link_126366-2



















Methodology

- Design and Sample: Ex post facto analysis of a secondary data set utilizing a descriptive correlational design. Data set and Data Sources: Data were obtained at the county level for 57 counties, excluding NYC, in NY using public domain websites:
 - New York State Department of Health

 - Census Bureau
 New York State Education Department
 United States Department of Agriculture
 USDA Economic Research Service









Findings & Policy Recommendations

- **D** Rurality: Those counties that are more rural have lower HPV vaccination completion rates.
 - Increase availability, affordability and acceptability of the HPV vaccine in rural counties of New York State.
- Chlamydia: Those counties that have higher chlamydia prevalence rates have higher HPV vaccination completion rates.
 - Offer HPV vaccination during routine STD testing/treatment

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- non-white populations, the lower the HPV vaccination completion rates.
 - Focus on increasing outreach efforts to promote health education among minorities.
 - Reduce perceptions of stigmatization and discrimination.

Findings & Policy Recommendations

- **D** Income: The higher the median income, the lower the HPV vaccination completion rates.
 - Increase availability of the HPV vaccine coverage by private insurance companies.
 Reduce the misconception of non-
- susceptibility among wealthier populations ■ Health Services: The higher the number of
- nurse practitioners, the higher is the HPV vaccination completion rates.
 - Provide funding for increase health work force, particularly for NPs.

Conclusion

- HPV vaccination completion is a complex and multifaceted phenomena.
- Our analyses revealed that AVAILABILITY, ACCESSIBILITY, and ACCEPTABILITY all have to be present to improve completion rates of HPV vaccination.
- This study highlights the significance of the unique nursing perspective in the analyses of aggregate data for public health.



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