HPV knowled<mark>ge</mark> & HPV vaccine acceptability among Hispanic m<mark>oth</mark>ers of 11-17 year old g<mark>irl</mark>s living along the Texas-Mexico border

Daisy Y. Morales-Campos, PhD Deborah Parra-Medina, Ph.D. Cynthia Mojica, Ph.D.

This study was conducted with funding from the Cancer Prevention Research Institute of Texas grants RP101491 and PP11057.



Presenter Disclosures

Daisy Y. Morales-Campos, PhD

The following personal financial relationships with commercial interests relevant to this presentation existed during the past 12 months:

No relationships to disclose.

Background – Cervical Cancer and HPV

- HPV causal agent for cervical cancer (CC)¹
- CC incidence and mortality rates higher for Hispanic women in Texas' Lower Rio Grande Valley (LRGV) ²⁻⁴
- Early detection of CC possible through Pap test screening
- Prevention of HPV and CC possible with quadrivalent HPV vaccine (GardasilTM)⁵

**Nationary M et al., Human politionarius is increasing class of fractive americal cancer workholds, the bound of frichinology, 1999, 1991;11:129. *Alterious S et al., SEE Control Science Science, 1997, 2009, Seehold, M.N. National Canner institute, 2009, 1997, 19

Background – HPV Vaccine



- Recommended for girls and women ages 11-26⁶
- Most effective if given before sexually active⁶
- Possible lifetime reduction CC risk by 20%-66%^{7,8}
- Studies show Hispanic parents are accepting of the vaccine; but uptake still low

COC, Quadrivalent human papillomavirus vaccine: Recommendations of the advisory committee on immunization practices (ACIP), Morbidity and Mortality Weekly Report, 2007, 56(RR-2), margin was acts as a immunity addition for 500, and Saira AV. Cost effectiveness of a potential vaccine for human papillomavirus. Emerg Infect Dis 2003, 9:37–48.

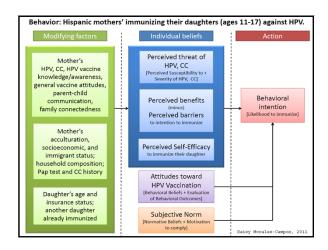
Entre Madre e Hija (EMH) Program

- a cervical cancer prevention and outreach program delivered by promotoras (community health workers) and student peer educators.
- Promotoras also provide referral and navigation support for HPV immunization to Hispanic mothers and their daughters

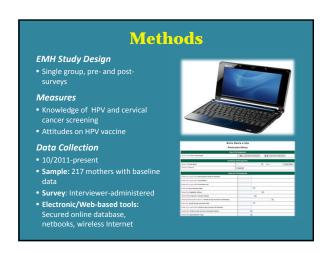


Specific Aims

- Promotoras recruit 1,800 mothers and their daughters (ages 11-17) who never had or have not completed HPV vaccine dose series.
- 2. Promotoras and peer educators deliver the EMH health education program to groups of mothers and daughters and collect data to assess its impact on knowledge of cervical cancer risk factors, screening guidelines, and the
- Research staff assess effectiveness of the EMH program (educations sessions, referrals, and navigation support) on increasing HPV vaccine completion among daughters (goal = 594 immunized).



Baseline Survey							
Constructs	# Items	Constructs	# Items				
HPV • Awareness • Knowledge HPV Vaccine • Knowledge • Perceived susceptibility (daughter) • Perceived severity (daughter)	1 11 2 3	Cervical Cancer Cervical cancer/Pap test history Pap test knowledge Perceived Susceptibility (mother) Cancer Attitudes (mother) Demographics Socioeconomic status	3 1 1 4				
General vaccine attitudes/acceptability Attitudes/acceptability Perceived benefits/barriers Self efficacy Subjective norms Intentions	7 9 7 7 4	Immigrant status Household composition Daughter's age, immunization status Parenting Practices Parent-child communication	3 4				
		Communication openness Family connectedness	12 8				



Demographics of Mothers (n=217)		
Age, years (mean ± SD)	38.3 ± 7.4	
Marital Status		
Married, Common Law	84.7% (183)	
Divorced, Widowed, Separated	12.5% (27)	
Never married	2.8% (6)	
Education		
None	.5% (1)	
Grades 1-8	65.1% (140)	
Grades 9-12	25.5% (55)	
College and more	8.8% (19)	
Household Income		
Less than \$10,000	81.5% (176)	
Greater than \$10,001	18.6% (40)	
Country of Birth		
Mexico	89.4% (194)	
US	9.8% (21)	
Year in US (Foreign-born)	13.1 ± 6.8	
Language read or spoken		
Only Spanish	90.5% (190)	
Both English and Spanish	3.8% (8)	
Only English	5.8% (12)	

HPV Knowledge Gaps

- 93.9% believed HPV is detected through a Pap test
- 73.1% believed HPV is cured with antibiotics
- 68.0% believed condoms protect a person from HPV
- 83.5% believed HPV affects a woman's ability to get pregnant



Cervical Cancer Screening Guidelines

- 94.3% correctly identified cervical cancer screening guidelines
- 20.3% of mothers who completed the program were never or rarely (3 or more years) screened



HPV Vaccine Attitudes

- 43.2% agreed the vaccine is safe
- 9.8% agreed getting the vaccine encourages girls' to become sexually active
- 75.8% agreed they would vaccinate their daughter if their daughter's doctor recommended it



Conclusion

- Preliminary findings suggest :
 - knowledge gaps exist regarding how HPV is detected, cured, prevented and its effects on the body
 - other factors (e.g., lack of insurance and access to care) may be present for never or rarely screened mothers
 - mothers believed the vaccine to be safe and would vaccinate their daughter if a doctor recommended it.

Recommendations

- EMH may address gaps in HPV knowledge in this population
- Promotoras may be an effective delivery channel for providing cervical cancer and HPV education and promoting HPV vaccine uptake and completion
- Future programs/interventions should further investigate the role of the doctor or provider in increasing uptake and completion of the vaccine series

Limitations

- Small sample size
- Respondent burden
- Program initiated prior to recommendation of HPV vaccine for men and boys



Acknowledgements

- Study participants
- EMH Program Partners:
 - Promotoras, Colonias Program, Texas A&M University
 - Peer educators, Kappa Delta Chi Sorority, UT-Pan
- Cancer Prevention Research Institute of Texas (CPRIT) grants RP 101491 and PP110057