# Evaluation of a Radionovela to Promote HPV Vaccine Awareness and Knowledge among Rural Hispanic Parents



## Deanna Kepka, 1.2 Gloria Coronado, 2.3 Hector Rodriguez, 4 & Beti Thompson 1.2

\*\*University of Washington, Department of Health Services, Seattle, WA; \*\*Fied Hutchinson Cancer Research Center, Cancer Prevention Program, Seattle, WA; \*\*University of Washington, Department of Epidemiology, Seattle, WA; \*\*University of California - Los Angeles, Department of Health Services



#### Introduction

- To ensure that racial and othric disparities in cervical cancer incidence and mortality do not widen over time, targeted HPV vaccine education programs are needed.
- Latinas have nearly a two fold higher incidence of cervical cancer compared to non-Hispanic white women.
- In 2006 & 2009, the CDC approved new HPV vaccines for young women against HPV-16 and HPV-18 (causes 70% of cervical cancer cases).
- The CDC recommends the HPV vaccine for females at ages 11 and 12 years old but it can also be given at ages 9 - 26.
- An HPV vaccine radionousle may be a culturally-appropriate strategy to increase awareness of and interest in HPV vaccination among Latino parents with lower levels of literacy and English language ability.

#### Study Objective:

This study aims to investigate the efficacy of messages developed in the form of a radionovela to improve HPV and HPV vaccine awareness, knowledge, interest, and attitudes compared to a control radio announcement among rural Latino parents of daughters aged 9-17.

#### Methods

- From July September 2009, Spanish-speaking Latino parents or guardians
  of daughters aged 9-17 were recruited at local community events to
  participate in an evaluation of the efficacy of HPV vaccine education messages
  included in a locally produced radionousla.
- This took place in the Lower Yakima Valley, WA, a region that includes many small agricultural communities that is more than 50% Mexican American.
- Using headsets, participants were randomized to listen to either the radionousla or to control radio programming and completed an audio pretest and posttest designed for low literacy levels.
- In a mini-drama format that includes dialogues between a Latina daughter, her family, a nurse, and a pediatrician, the notionousle highlights facts and concerns about cervical cancer, HPV, and the HPV vaccine and decision making processes related to vaccine untake.
- McNemar chi-square tests were used to investigate changes from pretest to posttest in the intervention and control groups and generalized estimation equations (GEE) were specified to assess group by time differences. STATA to, o was used to conduct all statistical analyses (College Station, Texas).



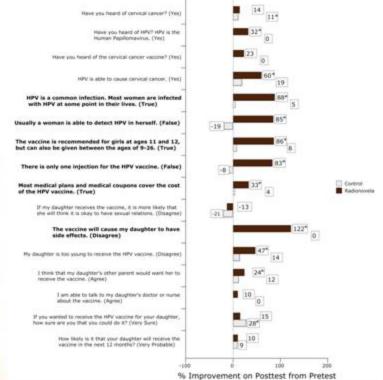
### Results

#### Table 1. Demographic Characteristics of Participants+

	Total (ordis)	Intervention (nº46):	Control (n=42)
April -			
Morry Age (352)	399 (07: 80)	200.002.00	40.27301.0165
App Rarge (ro)	2242 000	22-62(40)	22-00000
anger try			
Female	76	95 (35)	9521400
Agree of Disaggreen and			
Ages (r10)	405 (24)	20% (13)	515(41)
April 11-12	34% (25)	20% (10)	32% (130)
April 19-14	27% (23)	20% (10)	29% (10)
Agris 15-17	20% (50)	305 (10)	42% (CT)
Hammador Elving on Marmon yo			
Yes	T2% (K2)	70% (80)	Tracigno.
Amendor Living or Market to			
Vine	T0% (59)	32% (37)	00% 920
DECEMBER (NO			
sans mendizoonn	. RCK(800)	M96 (21)	58% (22)
\$20,000 - \$15,000	20% (22)	20% (11)	27% (11)
\$15,000 or mon	24% (20)	27% (12)	20% (8)
research Schuckling			
Mean years of extremion (\$12)	9.8 (302:44)	918 (BIZ: 6.15)	8.5 (SZI 4.9)
Annan (ri)	0-10/050	1 - 10 (81)	0-16
During of Mathons			
United States	28% (24)	22% (10)	245(04)
Béruico	T2% (62)	36% (26)	00% (2T)
Surrage Week In LOS			
Hitem years (\$10) Henge (10)	19,2 (827-10.4)	20:3 (NO:0000) 1 - 47 (200	182 (92: 10.9) 2-50 (25)
heros Courses of Birthins			
Linkson States	139 (11)	11% (0)	717% (00)
Ministra	ETS (T1)	1995 (240)	BF5, (52)
Hydrianguage Acodustics	1416.150	4156,1150	40% CT1
Low Linguiste Architectura	51% (36) 50% (52)	505.(27)	60% (25)
MANAGEMENT OF THE PARTY OF THE		- TATA	100.00.00111

"Direguane or triant carried and when appropriate to test for differences between the intersection, and central group by demographic characteristics. The differences were found between the two groups.

#### Pigure 1. Changes in Knowledge and Beliefs from Pretest to Posttest: Radionovela vs. Control



Black Bold: Intervention (Radionovela) had greater improvement from pretex to posttest than the control arm as measured by generalized estimation equation (GEE) methodology at p<.os.

\*Improvement was shown on the positest from the pretest as measured by McNemar's Paired Test (Pretest vs. Positest) at pc.05.

### Yakima County, WA



#### Conclusion:

- These findings indicate that a radionovela improves knowledge of HPV and the HPV vaccine among Latino parents.
- Novelos represent a culturally tailored mechanism to convey HPV and HPV vaccine information in a meaningful style that may significantly raise cervical cancer, HPV, and HPV vaccine awareness and interest among Latino parents.
- Use of culturally-tailored strategies has strong potential for improving HPV vaccine uptake among US Latinas, one of the ethnic groups at high risk for cervical cancer incidence and mortality in the United States. Further evaluation activities are needed.

#### A sless ownland stars and the

Research efforts were supported by the NCI Biobehavioral Cancer Prevention and Control Training Program (R2SCA092408) at the University of Washington and funding from the Agency for Healthcare Research and Quality (T32 H2013855). The Radionavela to Address Cervical Cancer and the HPV Vaccine for Rural Hispanics was a Bupplemental Filot Project to MH/NCI funded by the Community Network Program, Hispanic Community Network to Reduce Cancer Disparities (USI CA114635).

<sup>&</sup>quot;Categories for age of daughters are not maturally enduring