Educating About Cervical Cancer Screening Amid the Pandemic

California Primary Care Association Webinar April 29, 2021

Funding for this webinar was provided by the Patient Centered Outcome Research Institute, #15298-UCI

Department of Obstetrics and Gynecology

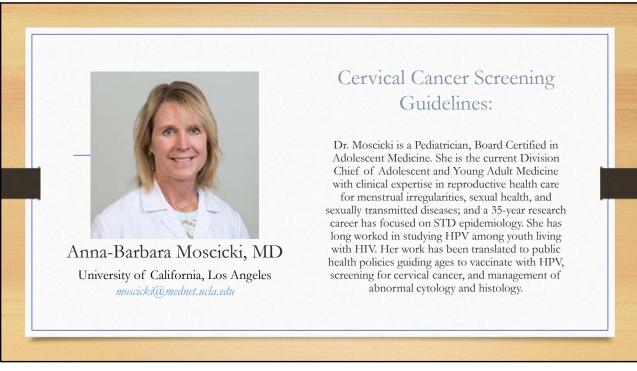
UCI Health

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Heike Thiel de Bocanegra PhD, MPH University of California, Irvine hthiel@bs.uci.edu

Moderator

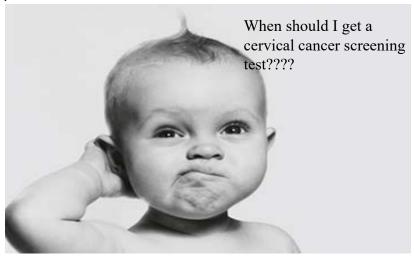
Heike Thiel de Bocanegra, PhD, MPH is Associate Professor and Director, Health Service Research at the University of California, Irvine, Department of Obstetrics and Gynecology. She was co-investigator of a clinic trial funded by the Patient Centered Outcomes Research Institute (PCORI) that developed and tested the effectiveness of the online cervical cancer prevention patient education tool "Decreasing Overtesting but On time (DOTS-O)." She is currently the PI of the PCORI award to disseminate the DOTS-O tool to community stakeholders and providers. The DOTS-O tool is also used in her PCORI engagement award "California's Refugee Reproductive Health Network (ReproNet)" in virtual groups with Dari, Pashto and Arab-speaking refugees.



Updates: Cervical Cancer Screening

Anna-Barbara Moscicki, MD Professor of Pediatrics, UCLA

Cervical cancer screening: It should be so simple.....but its not..



Anna-Barbara Moscicki Chief, Adolescent and Young Adult Medicine, UCLA

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History of CC screening

- 1900; screen nobody
- 1920's Pap smear was developed
- 1940's Pap smear became a recognized "test"
- 1950's introduction of mass screening; age and intervals not specified: done with regular check up
- 1980-2002 screen with Pap smear within 1st year of SA;
- · annual or every 2 yrs if liquid cytology or cotesting
- 2003-2011: start screening within 3 years of SA: annual if Pap; every 2 yrs if liquid cytology or contesting (HPV plus cytology) every 3 years for 30+ yrs
- 2012: ACS recommended no earlier than 21 years; cytology ONLY for 21-29
- 2012: cotesting every 5 years for 30+ years
- 2018: primary HPV testing was added as a choice for 30+

Cervical cancer screening guidelines

	Recommendation	Age to screen (yrs)	Alternative
USPTF ² / ACOG/ASCCP 2018	Cytology q 3 yrs	21-29	
	Cytology q 3 yrs OR Co-testing q 5 yrs OR Primary HPV* q 5yrs	3065	

^{*}must be FDA approved test: Roche Cobas & BD Onclarity

¹Fontham et al CA: A Journal for Clinicians 2020 ²USPTF 2018

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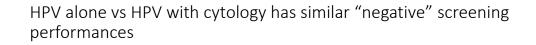
Cervical cancer screening guidelines

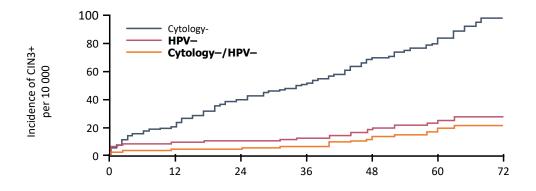
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**Alternative only if primary HPV limited access

^{**}Alternative only if primary HPV limited access

¹ American Cancer Society: Fontham et al CA: A Journal for Clinicians 2020 2US Preventive Task Force guidelines 2018





- 24,295 women from 7 primary HPV screening studies in 6 European countries
- Adding cytology to an HPV test (cotesting) added little further protection

Dillner, et al. BMJ, 2008;337;a1754.

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Comparisons of Strategies in Women \geq 30Y-ATHENA Study Performance measures for detecting CIN 3+ over 3 y*30

Strategy	Sensitivity	Specificity	PPV	NPV
Cytology	40.3	97.9	23.9	99.0
	(34.6-46)	(97.7-98)	(21.0-26.8)	(98.8-99.2)
Cotesting	63.4	95.1	17.8	99.4
	(56.7-70.1)	(94.8-95.3)	(15.8-19.8)	(99.2-99.5)
Primary HPV	64.8	95.2	18.5	99.4
	(58.4-71.1)	(95-95.5)	(16.4-20.6)	(99.2-99.5)

^{*}Verification adjusted over the entire 3 y

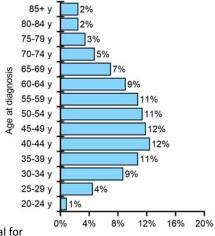
Why not screen 21-24 year olds?

Arguments for not screening:

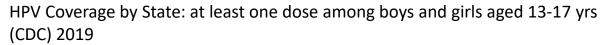
- Lots of abnormal tests
- Lots of unnecessary colposcopies (low rates of CIN 3)
- Little to no cancers
- National Vaccination rates have reached >50% so CIN 3 is expected to drop
- Cytology performs worse in vaccinated women (results in unnecessary referrals)
- Heard effects substantial
- Cost effective

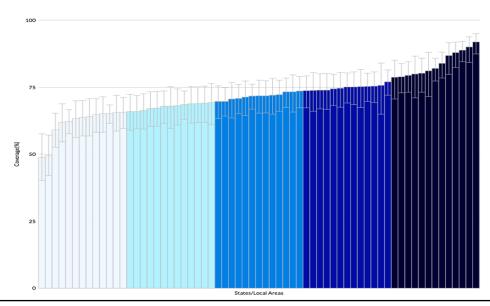
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Percent of Cervical Cancer Cases by Age (ACS)



Fonthan et al Ca: A Cancer Journal for Clinicians; 2020





Cervical Cancer Rates in Sweden by HPV vaccine status

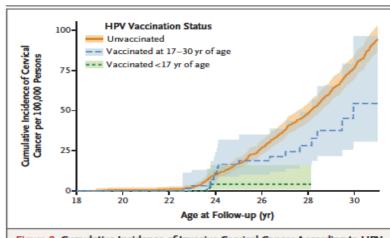


Figure 2. Cumulative Incidence of Invasive Cervical Cancer According to HPV Vaccination Status.

Age at follow-up is truncated in the graph because no cases of cervical cancer were observed in girls younger than 18 years of age.

Lei, J et al NEJM 2020; 383,

Arguments for screening 21-24 years

- CIN 3 peaks in women aged 25-29 years
- I don't have access to primary HPV
- Cytology is not sensitive enough to start screening women who are at high risk of CIN 3 if all i have is cytology
- My population is not HPV vaccinated
- My population is very transient and trying to get someone in at age 25 years is not always possible

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CHOICES for Cervical cancer screening guidelines

	Recommendation	Age to screen (yrs)	Alternative
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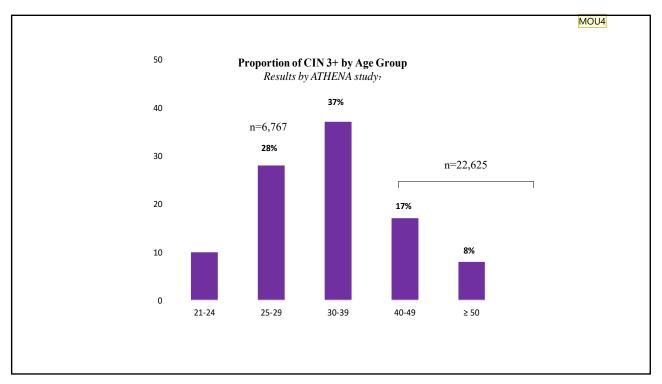
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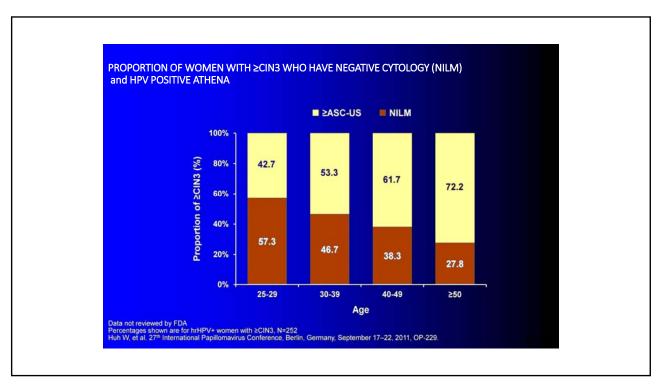
HPV primary screening in 25-29 year olds?

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MOU4 please make title black and % black to read better

Microsoft Office User, 5/15/2018



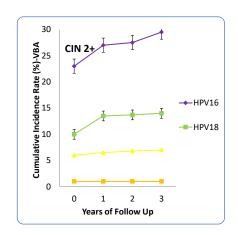
What's the downside with primary HPV testing?

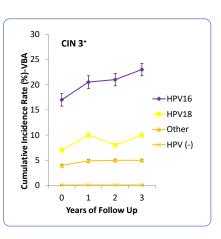
What's the downside with primary HPV testing?

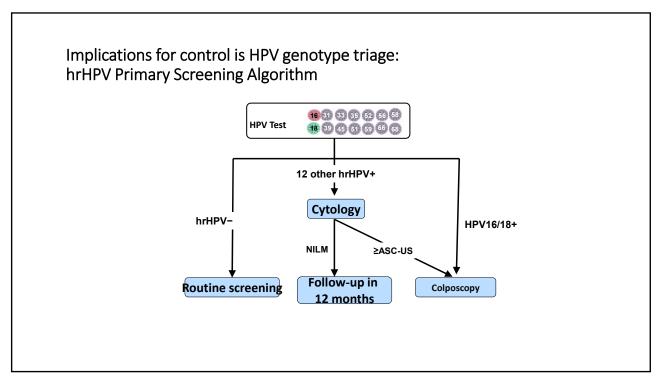
- Lousy PPV: around 15%.....
- Triage test is necessary

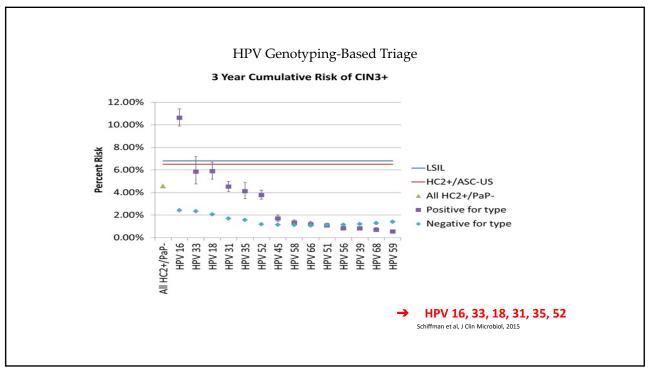
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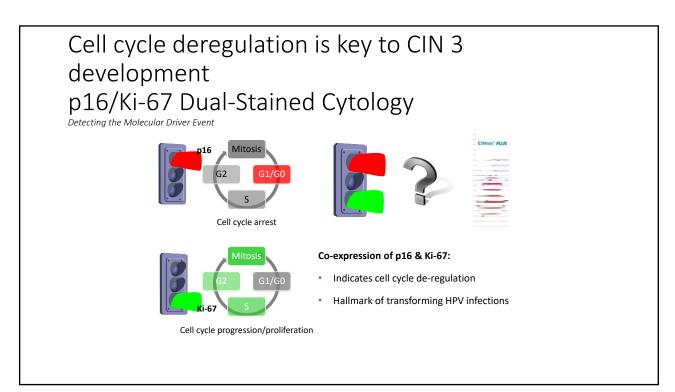
Rate of Clearance \neq Predictor of Progression: Predictive Value of HPV Genotyping 3-y risk of CIN for all women \geq 25 y, ATHENA study

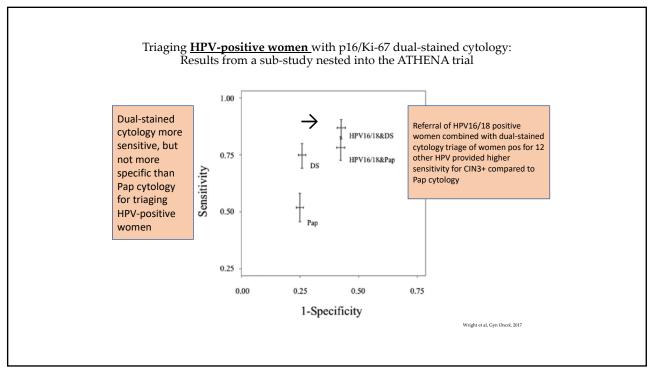






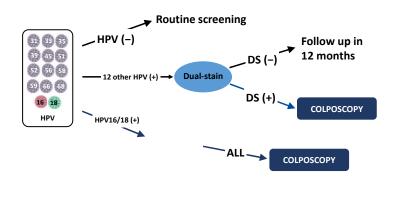






Implication for control: Triage of HPV (+) Women

Use of Dual-Staining for Risk Stratification



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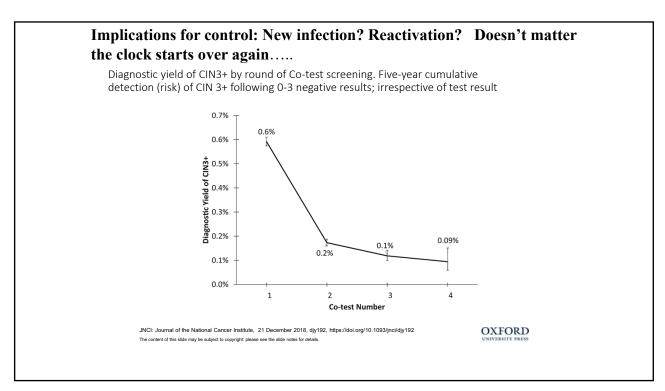
Does past history of abnormal tests make a difference in a screening test today? (ie prevalent vs incident infection

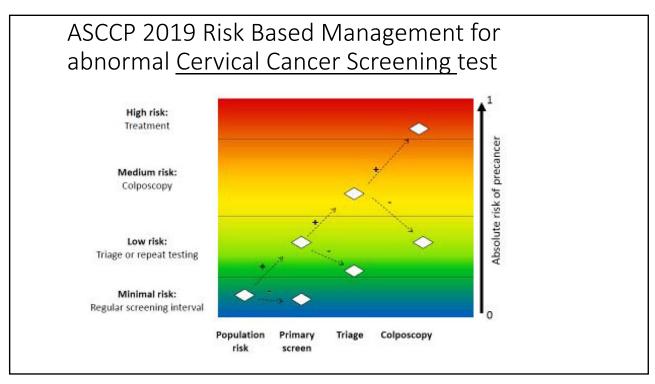
Dear Doctor, my previous screening was negative (ie HPV negative) but my test is positive now. What does that mean?

Discussion Points with patients:

What is my risk for cancer?

Is my partner having an affair?





Implication for control: known incident HPV infection reduce the risk of CIN 3 (KPNC) but not for cytology

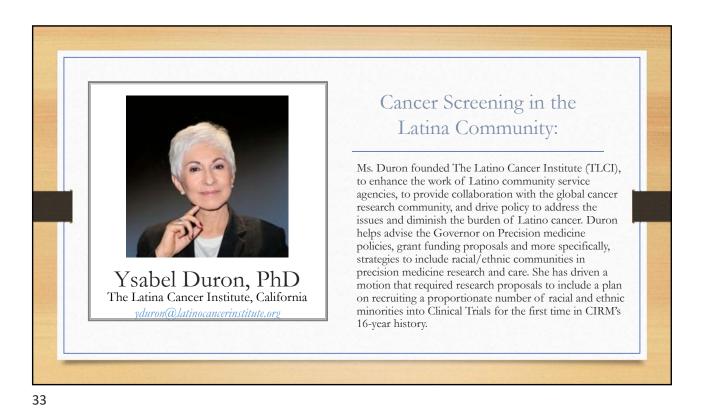
•	•		<u> </u>		
		Immediate risk (%) after	r prior	Imm	ediate risk (%) no prior
HPV	Pap	HPV neg			HPV test
Pos	HSIL+	32.28			48.86
Pos	ASC-H	13.56	LSIL/A	SCUS	25.73
Neg	HSIL+	13.80	no lo		25.21
Pos	LSIL	2.10	me	ets	4.27
Pos	ASC-US	2.03	col		4.45
Pos	NILM	0.74	SCO		2.13
Neg	LSIL	0.44	thres	noia	1.05
Neg	ASC-US	0.014			0.04
Neg	NILM	0.001			0.002

Assuming a risk of 4% for CIN3 is the threshhold

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Summary

- New ACS guidelines: primary HPV testing with triage test (cytology, genotyping, dual staining) starting at age 25
- USPTF recommends starting at age 21 with cytology
- New triage test: Ki67/p16 dual staining for + HPV test
- Past history of HPV test result influences risk management



Cancer Screening
In the
Latina Community

April 29, 2021

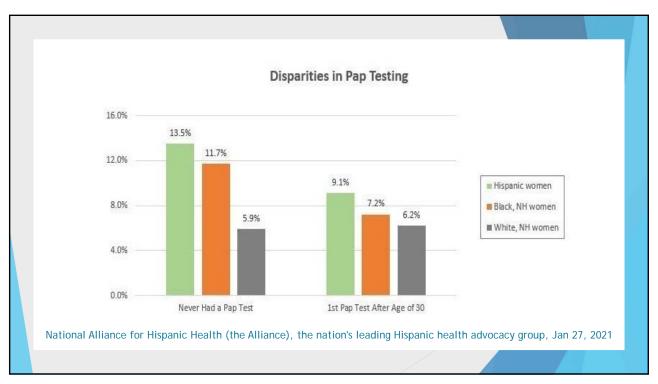
THE LATINO CANCER INSTITUTE
Connect. Convene. Advocate.

Ysabel Duron
Founder/Executive Director
yduron@latinocancerinstitute.org

Latina Cervical Cancer Facts

Hispanic women are 40 percent more likely to be diagnosed with cervical cancer, and 20 percent more likely to die from cervical cancer, as compared to non-Hispanic white women.

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QUICK FAQS - INCIDENCE, DEATH, SCREENING AND HPV VACCINE

	LATINAS	NON-HISPANIC WHITES
INCIDENCE	9.3%	7.3%
DEATHS (per 100,000)	2.6%	2.1%
SCREENING (2015)	79%	85%
Mexican Cubans Uninsured Latinas	78% 84% 67%	Uninsured Whites 61%
HPV VACCINATIONS (13-17)	LATINO ADOLESCENT GIRLS/BOYS	NON-HISPANIC WHITE ADOLESCENT GIRL/BOYS
	72%/60%	68%/50%

Centers for Disease Control/ ACS for 2018

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Persistent Barriers to Care

- Discrimination
- Lack of Culturally and Linguistically Competent Health Care Systems
- Cuts to Federal Safety Net Programs



National Latina Institute for Reproductive Health
CERVICAL CANCER & LATINXS*: THE FIGHT FOR PREVENTION & HEALTH EQUITY, JAN 2017



COMMUNITY HEALTH WORKERS

- *Raise Awareness
- *Diminish Fear, Myth and Misinformation
- *Remove Barriers to Screening
- *Navigate through Screening, Diagnosis and Care

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Community Health Workers on the Job



Assisting with registration paperwork to capture family cancer and screening history



Educating virtually via Facebook about Hereditary Breast Cancer and navigating into genetic testing



Teaching a Spanish language cervical education class in schools, agencies, churches



COVID food lines - passing out screening information



Visiting farmworker families to discover needs



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Understanding Cervical Cancer Prevention Entendiendo Cáncer del Cuello Uterino

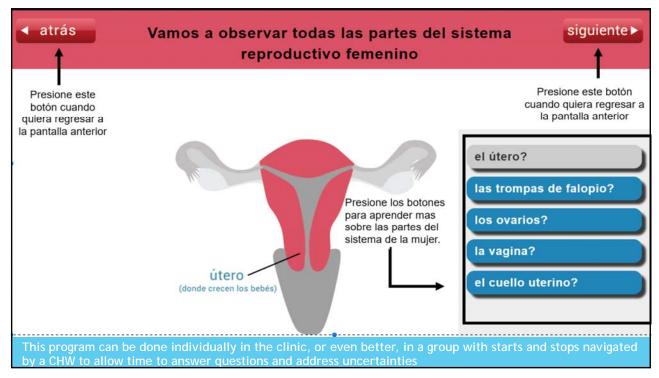
Let's talk about Pap Smears

Hablemos acerca del Papanicolau

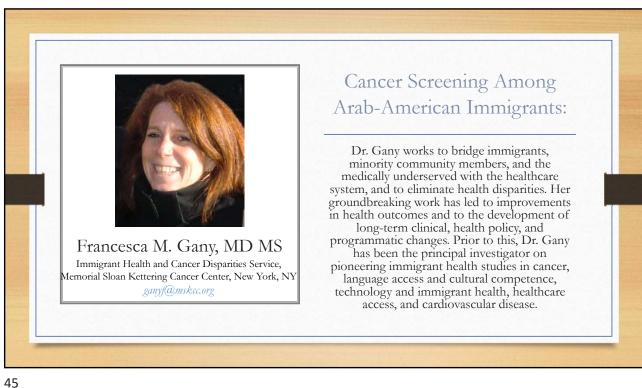
ENTS: The development of this patient education tool was funded through a Patient-Centered Outcomes Research Institute (PCOR ional screening tool for cervical cancer was developed by researchers at the University of California at Los Angeles and Irvine (Ut support of community stakeholders including Latinas Contra Cáncer, National Cervical Cancer Coalition, and ASCCP.

iews, statements, opinions presented in this web-based tool are soley the responsibility of the author(s) and do not necessarily re-

NATIONAL CERVICAL CANCER COALITION - https://www.nccc-online.org/







Cervical Cancer Knowledge, Attitudes, and Beliefs of Arab American Women in NYC

Francesca Gany, M.D., M.S. Claudia Ayash, M.P.H. Noor Raad, M.S. Redwane Gatarny



Background

- Cervical cancer rates high in countries of origin
- Lower uptake of cervical cancer screening among unmarried Arab Americans
- Little is known about Arab Americans' cervical cancer and HPV vaccine health behaviors and beliefs



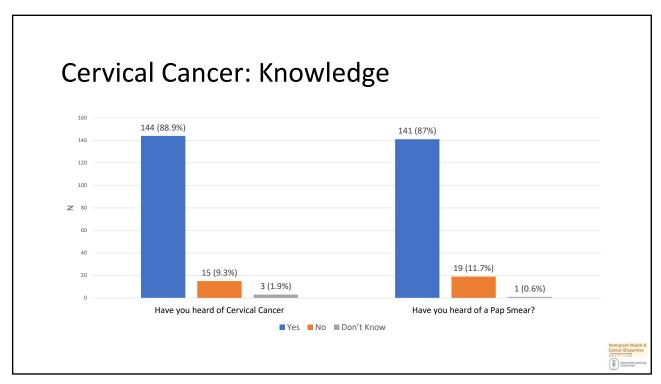
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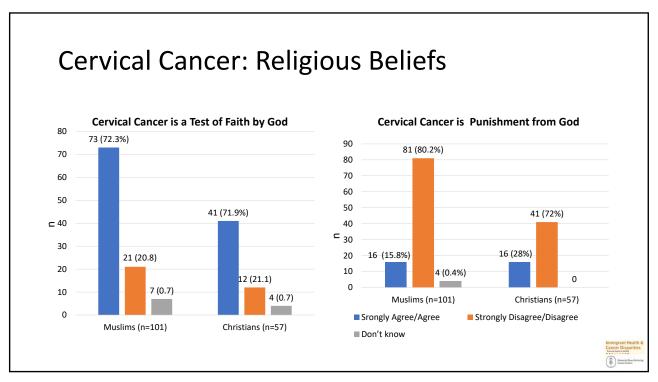
Study Objectives

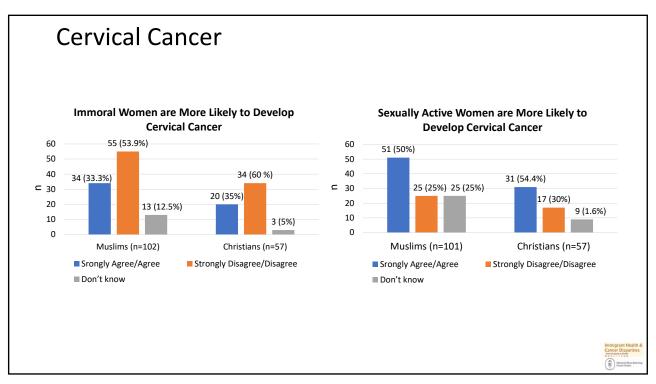
- Determine in Arab immigrant women: knowledge, attitudes, and beliefs around cervical cancer screening and HPV vaccination
- Arab American preliminary feedback on the DOTS-O tool

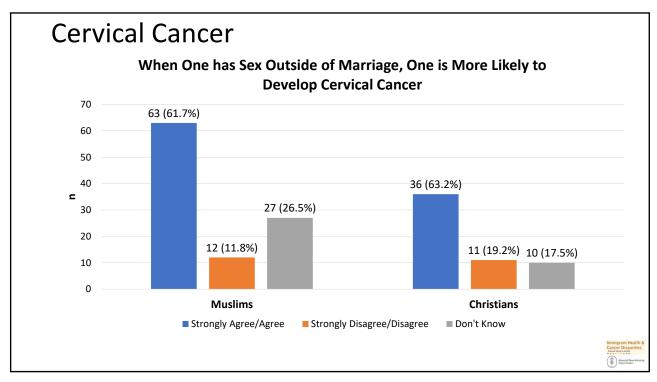


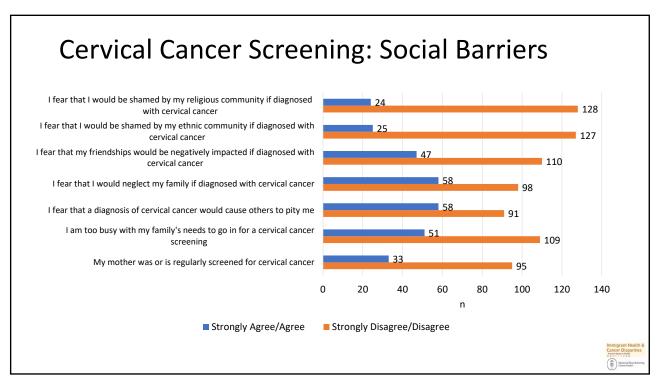
Participant Socio-demograph		
<u>Characteristic</u>		<u>N= 162 (%)</u>
Female		162 (100)
Country of Origin	Yemen Egypt Lebanon Morocco Syria Other	40 (24.7) 38 (23.5) 15 (9.3) 15 (9.3) 13 (8.0) 41 (25.3)
Religion	Muslim Christian	104 (64) 58 (35.8)
Preferred Language	Arabic English	107(66) 55 (34)
Limited English Proficiency		80 (49.3)
Insured		152 (93.8)
Education	≤2 nd grade 3rd to 5th grade 6th to 8th grade some HS/ graduate Some college/ graduate Post college	14 (8.6) 13 (8.0) 21 (12.9) 34 (20.9) 52 (32.1) 28 (17.3)
Never Worked in the U.S.		90 (55.6)

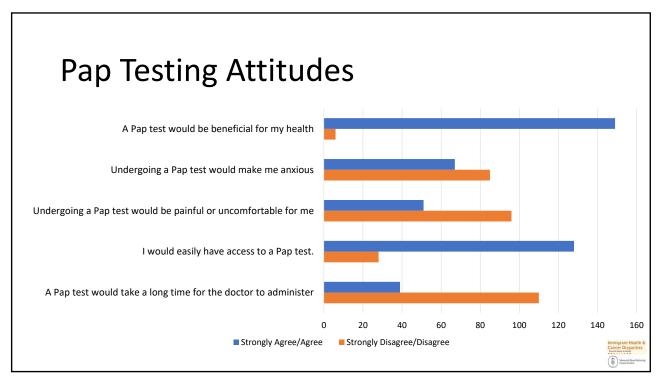


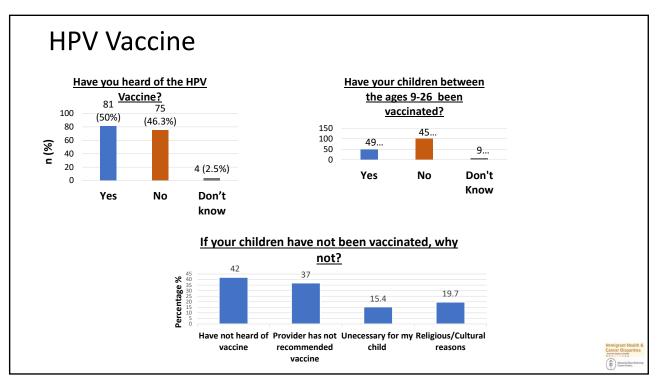




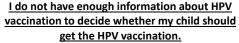


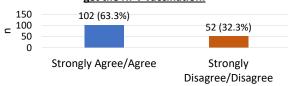






Results: HPV Vaccine







Immigrant Health & Cancer Disparities
Proved Equity in Huell

Americal Stock Extension
Cancer Conter.

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Conclusions

- Need for investigation of provider cervical cancer screening and prevention recommendations, including HPV vaccination, for Arab patients
- Linguistically and culturally tailored education about cervical cancer screening and prevention, including on HPV vaccination, to Arab American communities could bridge the health awareness and action gap
 - The messaging about HPV infection needs to be more nuanced and less stigmatizing



DOTS-O Tool Feedback

Arab Health Initiative and CBO partners

- Great potential resource
- Arabic transcreation, including the audio
 - Request an Arabic speaking doctor in the community to record the audio
 - E.g, Dr. Laila Farhat, a doctor whom everyone in the community knows and trusts
 - Evaluate linguistic register once the content is in Arabic



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DOTS-O Tool Content Feedback

- Content needs to be adapted to be culturally sensitive for the Arab community
 - · E.g.consider removing graphic image of cervix
- Tailor content to address cultural beliefs of Arab women around the Pap
 - For example, most Arab mothers believe that a woman should not get a Pap until marriage due to concerns around rupturing the hymen
 - Address misconception that a woman loses her virginity by doing a Pap
- Add a culturally sensitive explanation as to why a woman should start getting a Pap even before she is sexually active or married
 - Consider adding slide discussing factors that increase risk of getting cervical cancer, including family history, smoking, etc. This could be one way to discuss why it is important to get a Pap starting at 21, even if someone is not sexually active or married



DOTS-O Tool Content Feedback

- Our surveys show that Arab women do not know what the HPV vaccine is or how it is related to cervical cancer
 - Incorporate more HPV information into the DOTS-O Tool



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References

- 1. Koenig, H.G.; Büssing, A. The Duke University Religion Index (DUREL): A Five-Item Measure for Use in Epidemological Studies. Religions 2010, 1, 78-85.
- Jones, C. L., Jensen, J. D., Scherr, C. L., Brown, N. R., Christy, K., & Weaver, J. (2015). The Health Belief Model as an explanatory framework in communication research: exploring parallel, serial, and moderated mediation. Health communication, 30(6), 566–576. https://doi.org/10.1080/10410236.2013.873363
- Miri Cohen & Faisal Azaiza (2008) Developing and testing an instrument for identifying culture-specific barriers to breast cancer screening in Israeli Arab women, Acta Oncologica, 47:8, 1570-1577, DOI: 10.1080/02841860802078069
- 4. Koenig, H.G.; Wang, Z.; Al Zaben, F.; Adi, A. Belief into Action Scale: A Comprehensive and Sensitive Measure of Religious Involvement. Religions 2015, 6, 1006-1016.





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Marissa Leslie Adams
marissa.adams@nau.edu

Health educator and Advocate HOPI Cancer Support Services

Cancer Screening Among Native American Women Experiencing Intellectual and Developmental Disabilities:

Julie is a medical anthropologist who works with communities to address cancer disparities using qualitative and multimethod approaches to research. Her research program is broadly focused on addressing gaps in cancer prevention and treatment for communities that have experienced systemic exclusion from preventive and specialty health care

Marissa is the Program Coordinator for the Partnership for Native American Cancer Prevention project, "Improving Shared Decision-Making about Cancer Screenings Among Native American Women with Disabilities." She has 10 years' experience as a health educator and advocate with HOPI Cancer Support Services and other university-Hopi health promotion initiatives.

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Developing a Breast and Cervical Cancer Screening Education Program for Native American Women with Intellectual/Developmental Disabilities

California Primary Care Association, April 29, 2021

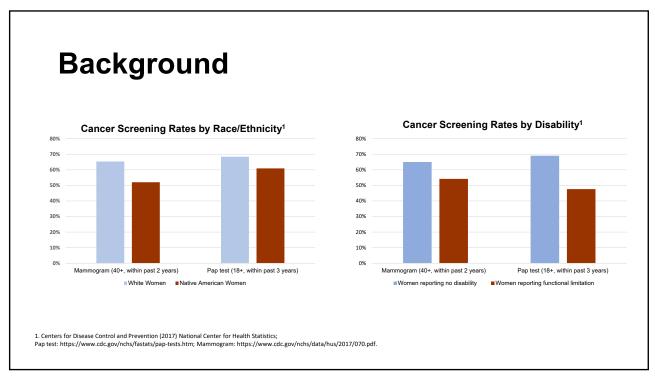
Marissa Adams, B.S., Program Coordinator, Northern Arizona University Julie Armin, PhD, Assistant Professor, Department of Family & Community Medicine, University of Arizona

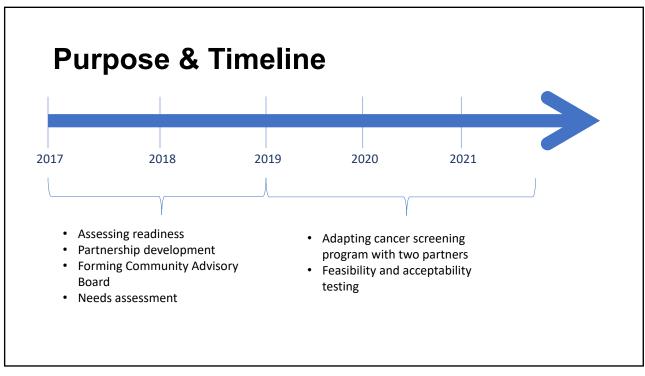












Methods

· Community engaged research project

Annals of International Occupational Therapy

ORIGINAL RESEARCH

Community-Engaged Research to Address Health Disparities of Indigenous Women With Disabilities

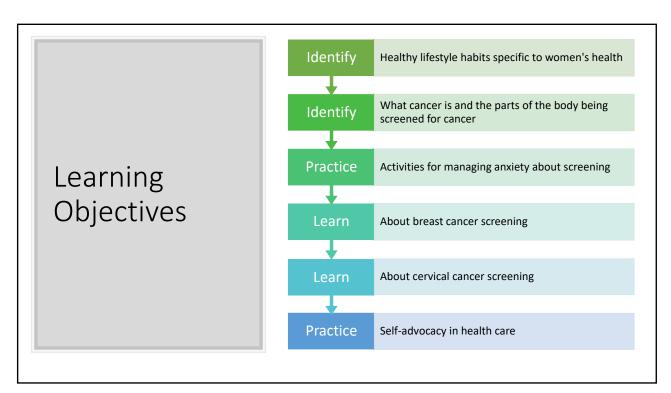
Heather J. Williamson, DrPH, MBA, OTR/L; Julie S. Armin, PhD; Ellen Stakely, OTD; Bonny Nasimi, OTD; Darold H. Joseph, PhD; Jon Meyers; Julie A. Baldwin, PhD

Annals of International Occupational Therapy. https://doi.org/10.3928/24761222-20201202-02
Posted December 14, 2020



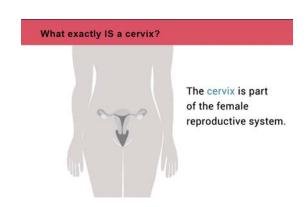


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Adapting Learning Tools – DOTS-O

- Language
 - Hopi words for slides and voiceover in Hopi
 - Provide Native American woman voiceover for the audio file (English)
 - Retain Spanish for Tucson Indian Center



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Adapting Learning Tools - DOTS-O

- Accessibility
 - Increase size of videos for low vision
- Self-Advocacy
 - Add some additional examples of how to do it



Next Steps & Conclusions

- Program materials
 - · Finalizing adapted program for remote delivery
- Feasibility testing summer 2021
 - N=30 dyads



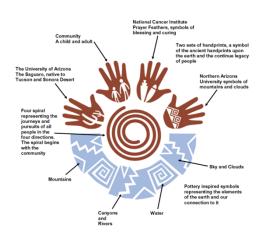
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Acknowledgements & Funding

- Co-PI: Heather J. Williamson, DrPH, Assistant Professor, Northern Arizona University
- National Cancer Institute U54CA143924 (UACC) and U54CA143925 (NAU).
- · Dana Russell, BBA, Hopi Cancer Support Services
- · Vanessa Boone, MPA, Tucson Indian Center
- Julie Baldwin, PhD, NAU (co-I)
- Janet Rothers, PhD, UA (co-I)
- · Additional members of team:
 - Andria Begay, NAU
 - Carlee Brown-McHone, NAU
 - Michele Lee, NAU
 - Bailey Lockwood, UA Celeste Nunez, UA

 - Emile Saad, UA
 - Samantha Sasse, NAU Syndney Schumacher, NAU
 - Leticia Lelli, NAU
 - Tara M. Chico-Jarillo, MPH, UA





Thank You!

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https://www.nccc-online.org/understanding-cervical-cancer-screening/

Please send any questions and comments to Heike Thiel de Bocanegra, University of California, Irvine Hthiel@hs.uci.edu



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