Reducing Oral Health Disparities by Training Community Health Champions to Identify Principal Social Determinants



Ileana Maria Ponce-Gonzalez, MD Community Health Workers Coalition for Migrants and Refugees CEO

Allen Cheadle
Director
Center for Community Health and
Evaluation
Kaiser Permanent Research Institute

Stacy Torrance, MPH ARCORA Foundation Senior Program Officer

CHWCMR



Midwest Stream Forum for Agricultural Worker Health

CHWCMR Team

Master Trainers

Giselle Zapata Garcia

Silvia Kennedy

Socorro Garcia

Katherine Newton

Ana Elisa Wilson

Carlos Jiménez

Luz Romero

Lay Leaders

Angelica Rivera

M. Guadalupe Gaitan

Julissa Schneider

Kalli Morales-Donahue

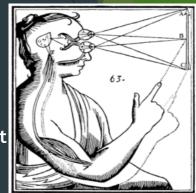
Rosalba Mata

Collaborators

Allen Cheadle Co-Investigator Evaluation consultant



Gino Aisenberg Co-investigator Figure Drawing Assessment



Ileana Maria Ponce-Gonzalez, MD, MPH, Project Director Executive Director of CHW Coalition for Migrants and Refugees Co-Investigator & Sponsor ARCORA

Oral Health Trainings: Origin and Goals



Community based participatory project - CHWCMR & ARCORA

26 % of Hispanic 6- to 9-year old suffered from untreated tooth decay

English and Spanishlanguage focus groups: Seattle and Eastern Washington. Goal: Gain a better understanding of the knowledge, attitudes and behaviors regarding oral health

Good oral health is important to control chronic diseases, and quality of life

Learning Objectives

By the end of this presentation participants will be able to...

- ...describe the content and challenges of developing an oral health curriculum for migrant populations.
- ...explain principles about how to train community health workers to conduct interactive oral health workshops for migrant populations.
- ...discuss the results from the oral health workshops conducted with Washington State migrant populations.
- ...advocate for resources to train community health workers to address health needs in their community

MSFW and Oral Health

- Wealthy WA, but our migrant population has poor oral health, a reflection of fundamental health inequity.
- Important public health priority to educate migrants about how to prevent oral health disease and how to maintain good oral health.
- Poor oral health reduces quality of life and is related to systemic chronic conditions: stroke, heart, and lung disease and diabetes.
- Emerging research also suggests that the relationship between serious gum disease and diabetes is two-way. Not only are people with diabetes more susceptible to serious gum disease, but serious gum disease may have the potential to affect blood glucose control and contribute to the progression of diabetes.

- Migrant workers, most of whom are Spanishspeaking workers, face many barriers to receiving health care in general and dental health care in particular, including lack of transportation, insurance, and sick leave; the threat of wage or job loss; language barriers; lack of regular dental practitioner; and limited clinic hours.
- Many migrant workers lack basic oral health knowledge, including the relationship between sweet foods and caries and the positive effects of good oral hygiene and fluoride dental health and overall health.
- Migrant farmworkers experience 150 to 300 percent more decay

Phase I

Development of the Curriculum/Experts

Recruitment-Outreach Focus Group





Oral Health and Social Determinants of Health Workshops

- Conducted by a lay leader (or two copresenters) who are CHWs trained by CHWCMR
- Learning activities
- Pre-Post surveys

Workshop Modules



- Oral Health Statistics
- Oral Health Conditions
- Oral Health Care
- Social Determinant of Health Affecting Oral Health
- The Relationship about Oral Health and Chronic Conditions
- Oral Health and Social Determinant of Care
- The Role of CHWs in Oral Health
- What Dentists Expect from Patients
- Resources and Tools for Oral Health in your Community
- Being an Advocate for Oral Health

Section	Description	Objective
Presentation topics	Oral Health Conditions Oral Health Care Social Determinant of Health Affecting Oral Health The Relationship about Oral Health and Chronic Conditions Oral Health and Social Determinant of Care The Role of CHWs in Oral Health What Dentists Expect from Patients Resources and Tools for Oral Health in your Community Being an Advocate for Oral Health	Present information in an accessible way about key topics in oral health
Figure drawing exercise	Prompt for drawing: How do you feel about your own <i>oral cavity</i> ? If your oral health is good then: How do you notice how other members of your family feel about their oral health?	Allow participants to express their feelings about their oral health and how it affects them
Gallery	Exercise eliciting participant opinions about key social and other determinants of oral health	Identify key barriers and facilitators of good oral health from a community perspective
Fish Tank	Exercise about how to effectively clean your mouth. Participants take turns cleaning their own teeth and getting advice	Provide hands-on training for good oral health practices

Phase II

1- Resources, funding, partnership

2-Training methods used included case studies, gallery, fish tank, figure drawing, role-playing, and lectures

ARCORA

The Foundation of Delta Dental of Washington



Taller de Salud Bucal en Shelton, WA Sabado 18 de Agosto 2018– 3:00 p.m.- 5:00 pm



Lugar: Family Education & Support Services
Transit Community Center 601 W Franklin St
Shelton, WA 98584

- Conozca medidas de prevención y cuidado de sus dientes
- Barreras culturales, sociales y financieras para un mejor acceso al cuidado bucal
- Aprenda a Identificar cuando está en riesgo de perder su dentadura
- Obtenga respuestas a sus preguntas sobre salud bucal
- Como su salud bucal afecta a su salud en general

SE PROPORCIONARÁ UNA COMIDA LIGERA y tarjeta de regalo \$20 CUPO LIMITADO * Admisión: GRATIS * SOLO ADULTOS



Informes y Registro, favor de comunicarse con: Dr. Carlos Mejia (360 489-7969 Linda Guijosa (360)432-2513





Interactive Learning Experiences

- Figure drawing on a piece of paper:
- How do you feel about your own oral cavity? Identify yourself. If your oral health is good then:
- How do you notice how other member of your family feel about their oral health?
- ► Gallery: Exercise about Social Determinants of Health & Oral Health
- Fish Tank: Exercise about how to clean your mouth

Phase III

1-Analysis of quantitative data and analysis of qualitative data

2-Professional Evaluation



2017 Workshops



- ▶ 12 workshops
- ▶ In-person, two hours long
- Two trainers
- ▶ 311 participants
- Pre/post surveys: ~95% responding

2017 Workshops



Demographics of Education Program Participants

	Percent
Number of respondents	278
Gender Female Male Other	72.1 26.8 1.1
Age <18 years 18-24 25-49 50-64 >65 years	2.2 33.9 42.0 17.1 4.8
Education No formal education Elementary school High school Some college College degree+	4.9 24.2 50.4 12.1 8.4
Country of origin Mexico United States El Salvador Other Latin America	77.8 12.8 5.3 4.1



Survey

		POST-Survey	Your Initials:
		•	Your Month of Birth:
inj as	formation sess part	LHW Coalition for Migrants and Refugees 2017 Oral Health Post-Training Survey to few minutes to respond to the following questions upon the conyou provide is confidential, please do not put your name on this cipant learning and improve training and services in the commissionses to these questions. Your input is valuable.	conclusion of the training. The is sheet. Your answers will help
1.		r familiar with any conditions or illnesses that may be related to ed by poor oral health]? Yes	oral health (or negatively
		No	
	Please p	rovide any examples:	
fulti	iple choic	e: Please pick the best response.	
2.	Dry mo	uth can cause	
		Bad breath	
	_	Tooth decay	
		Problems swallowing	
		Difficulty speaking	
	_	All of the above	
3.	A mout	h infection, like an abscessed tooth	
		A. Needs immediate attention	
		B. Will heal itself with ice or with something hot	
		C. Will be helped by consulting a neighbor	
		D. Can result in very serious complications	
		Both A & D, above	
4.	Oral hea	alth problems may be due to:	
		Having poor oral hygiene alone	
		Lack of economic resources	
		Inability to communicate in the language of my oral health care p	provider (dentist or
		doctor) Living in an area where free or low cost oral health services are u	and the latest and th
	ä	All of the above	navailable
	_	All of the above	
5.	When I	have a cavity or other dental problem:	
		I visit my health center to see my medical doctor	
		I pull my own tooth	
		I visit the dentist so that he or she can pull my tooth	
		I visit the dentist or other provider and follow the instructions	
		I ask my family or neighbors for advice and follow their instruction	ns

POST-Survey					Your Initials:	
				Your Mor	th of Birth:	
ase o	heck the box if the statemen	nt is True or	False			
			True	False		
Children in low-income families experience more tooth decay than other children.						
7. Drinking juice is good for teeth.						
8. People with dentures need to visit the dentist.						
9.	 Fluoride is a naturally occurring mineral that heals and strengthens teeth. 			rengthens		
ise r	ate your level of satisfaction v	Highly satisfied	wing: Satisfied	Neutral	Dissatisfied	Highly dissatisfied
10.	The training leader's knowledge and skill		0	0		
		0	0	0	0	0
11.	knowledge and skill					
11.	knowledge and skill The content of the training The location/timing of the				0	0
11.	knowledge and skill The content of the training The location/timing of the training	0	0	0	0	0

For office use: Date: /__/__(mm/dd/yd) Training Site/Code:_____

	Percent answering correctly			
Question	Pre	Post	Difference	P-value
Multiple choice				
Dry mouth can causedifficulty speaking	57.4%	71.7%	14.3%	<0.01
A mouth infection can result in very serious complications	37.5%	60.5%	23.0%	<0.01
Oral health problems can be due toa number of factors (e.g., lack of economic resources	46.6%	73.8%	27.2%	<0.01
When I have a cavityI visit the dentist or other provider	41.3%	52.4%	11.1%	<0.01
True/False				
Children in low-income families experience more tooth decay (True)	64.6%	86.4%	21.8%	<0.01
Drinking juice is good for teeth (False)	82.3%	88.8%	6.5%	0.05
People with dentures need to visit the dentist (True)	86.8%	97.0%	10.2%	<0.01
Fluoride is a naturally occurring mineral that heals and strengthens teeth (True)	86.5%	94.8%	8.3%	<0.01

Table: Changes in knowledge pre/post the education sessions

Housing of Participants

Housing	Freq	Percent
Apartment	88	35%
House	136	54%
Trailer	23	9 %
Other	4	2%
Total	251	100%





"Chalk Talk"

Three stations with:

- 1. Examples of curriculum slides
- 2. Pre/post results from knowledge survey
- 3. Social determinants results

Visit stations of interest and post stickies in answer to questions:

- What seems important to you?
- How could these results apply in your own work?
- What questions or suggestions do you have?

Come back together and debrief

Table 2

Determinants of health mentioned by education program
participants
Notes:
1 - Number of times mentioned across all of

the education sessions – out of ~200 total mentions

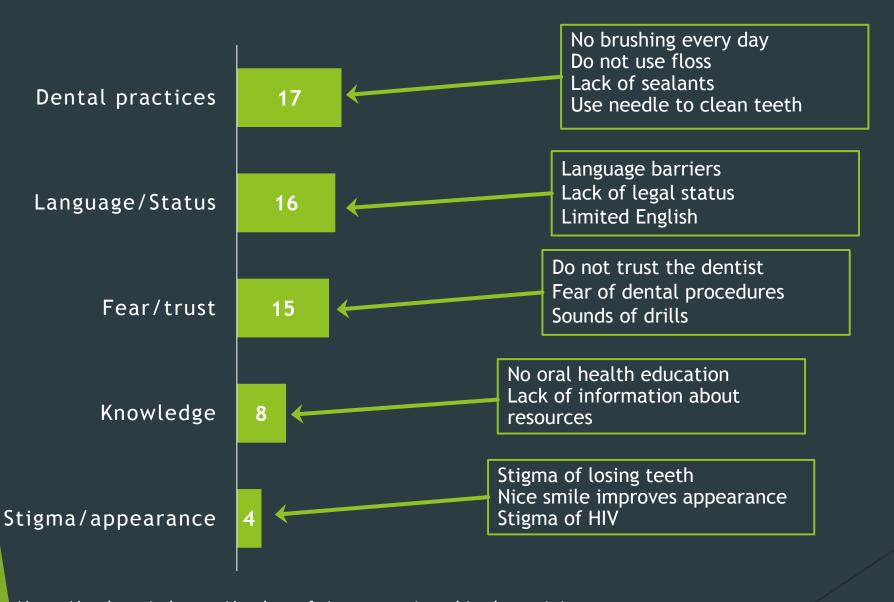
Issue/barrier	# of mentions ¹	Examples of responses
Access	32	Lack of insurance, high cost of services, no access to dental services, no dentist in rural areas
Dental practices	17	Not brushing every day, do not use floss, lack of sealants, use needle to clean teeth
Language/legal status	16	Language barriers, lack of legal status, limited English
Social/Economic status	16	Housing problems, limited education, unemployed, poverty
Fear/trust	15	Do not trust the dentist, fear of dental procedures, sounds of drills
Food behaviors	13	Drink too much soda, eating sweets, junk food, chewing gum all of the time
Cultural	12	Different food cultures, family beliefs, myths, use of home remedies
Transportation	10	Lack of transportation
Knowledge	8	No oral health education, lack of information about resources
Time/energy	8	Lack of time
Substance use	7	Alcohol consumption, use of drugs, smoking
Water quality	5	Lack of safe drinking water, poor quality of water
Stigma/appearance	4	Stigma of losing teeth, nice smile improves appearance, stigma of HIV

Social Determinants -1



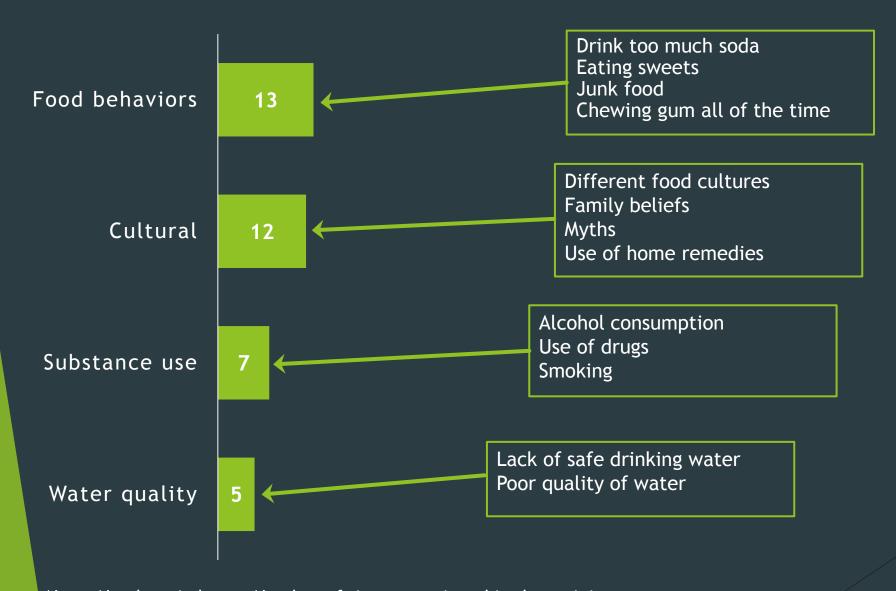
Note: Numbers in bars = Number of times mentioned in the training sessions (out of ~200 total mentions)

Social Determinants - 2



Note: Numbers in bars = Number of times mentioned in the training sessions (out of ~200 total mentions)

Social Determinants -3



Note: Numbers in bars = Number of times mentioned in the training sessions (out of ~200 total mentions)

Regarding the questions we ask to participants about the drawing:

Dental Drawing Prompt

► Good day, we are going to talk about oral and dental health today. Rather than introduce each other, we are going to write our name on the page given to you, then you are going to draw the first thought you have about your own oral and dental health and how you feel about your mouth and teeth.

Tools for Healthy Teeth

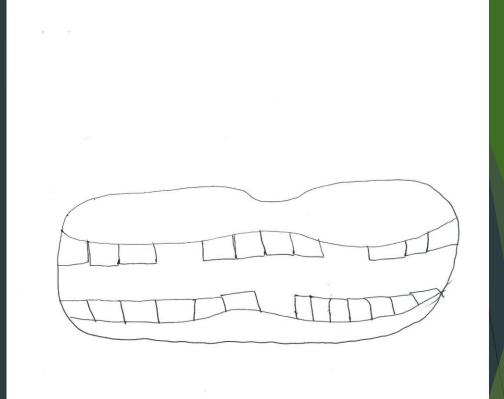




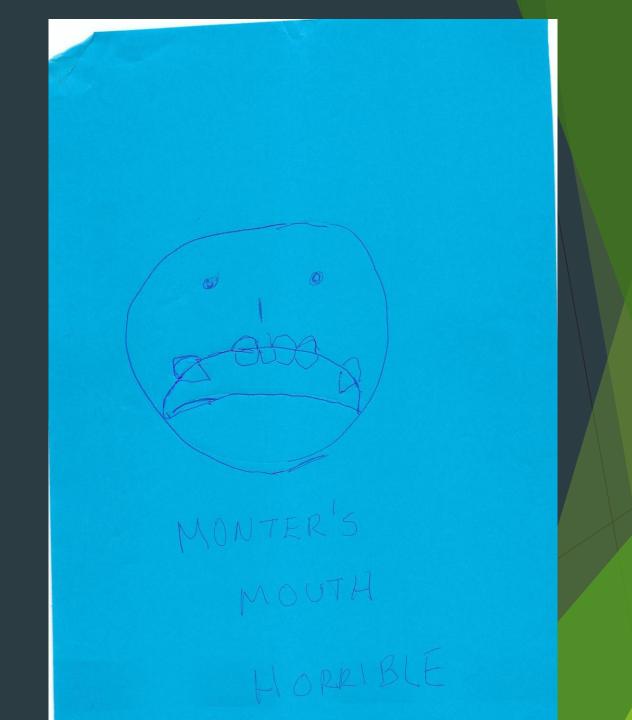




Over time, cost of delay in seeking care.....



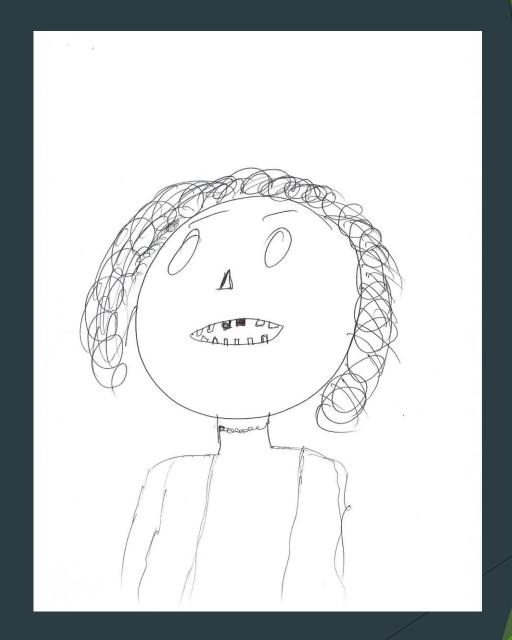
Impact on Sense of Self



Impairs sense of attractiveness



Apprehension to show smile

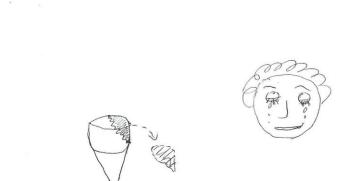


Intense Feelings

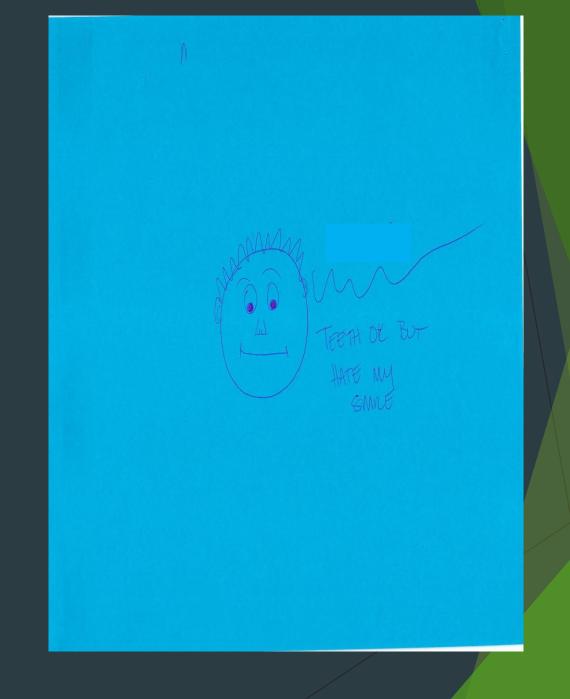


odio mis problemas de salud dental y me deprimen solve manera no poder solucionarlos porque los seguros no cubren para la cura y a veces me dan garras de aborcarme

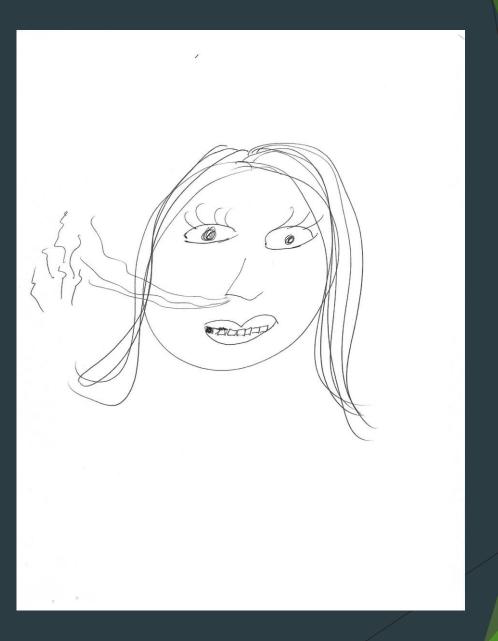
Pain and Suffering



Hate Smile Lack of confidence



Bad Smell



Barriers lack of insurance, poverty, can't afford treatment or meds



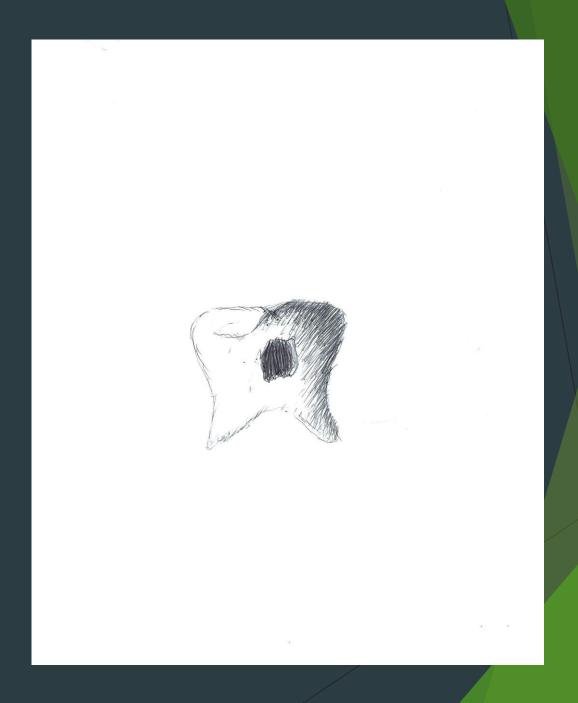
Health impact



Confidence in appearance



Cultural shift in practice



Phase IV

1-ARCORA Foundation program to reduce oral health in migrant's populations

Arcora Foundation

- Determined to change the arc of oral health so that everyone enjoys good oral health.
- ► Funded by nonprofit **Delta Dental of Washington**
- Believes everyone deserves good oral health, with nobody left behind. Equity drives our work. We are improving oral health by partnering with communities and boldly transforming systems.
- Everyone is healthier with a healthy mouth. Oral health affects employment opportunities, wellbeing, and quality of life. That's why everyone should have good oral health and a life free from oral disease and pain.

Overview | CHW Initiative

Designed to reduce oral health disparities among underserved populations.

Soal: To identify and execute the best sustainable ways to engage CHWs to address oral health in their communities, especially linguistically and geographically isolated populations, to address oral health in their communities and connect people to dental care.

In Washington State - Arcora Foundation Can Provide:

- Oral health training for health champions
- Coaching support and assistance with barriers that arise
- Free patient education materials in multiple languages: <u>www.deltadentalwa.com/educational-</u> <u>materials</u>
- Assistance with dental referral sources

DentistLink.org

DentistLink.org is a new technology service operated by Arcora Foundation through an online portal. The goal of DentistLink.org is to increase access to care by connecting patients to dentists who accept their type of insurance and are located near where the patient lives or works.

DentistLink.org



Step 1

Go to DentistsLink.org and tell us how to best communicate (text or phone). Tell us about your dental needs: Preferred location, reason for the visit and insurance type.



Step 2

A DentistLink Referral Specialist will reach out to you in your language (English, Spanish, other).



Step 3

Our Referral Specialists will match you with a local dentist based on your specific needs.



Step 4

Choose an appointment that best suits you and remember it with the help of our personalized reminder service.

