

NIH - Funded Project from NIH/NCMHD Community Based Participatory Research (CBPR) Initiative in Reducing and Eliminating Health Disparities. R24 MD0001785-01- 09/01/05- 08/31/08

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Why El Paso?

- Heart disease is leading cause of death & disability for Mexican Americans
- Chronic disease impact many border residents
- Significant barriers to healthcare
- Environmental health challenges
- Promotores are well established in the region
- Strong research & community partners = NIH/UTEP award



The community deserves access to the best resources.

Community Partners

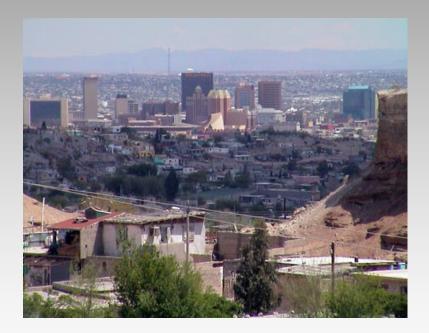
- Community Health Worker (CHW)
- Promotor(a) de Salud (PS):
 CHW/PS
- UTEP, EPCC, CSVC, UT SPH EP
- El Paso Community



Together, we can create strong partnerships in the community to prevent I control chronic disease common in the U.S.-Mexico border region.

Project Goals

The goal of this research is to create and unite strong partnerships in the El Paso community to strengthen our capacity to work together to prevent and control chronic diseases common in the U.S. – Mexico border region.



Project Goals cont.

To engage local **Community Health** Workers/promotores (CHW/P) in networking in order to work together to build the capacity of CHW/Ps in the region and to set the stage for policy change to better support CHW/Ps in the health and human services system

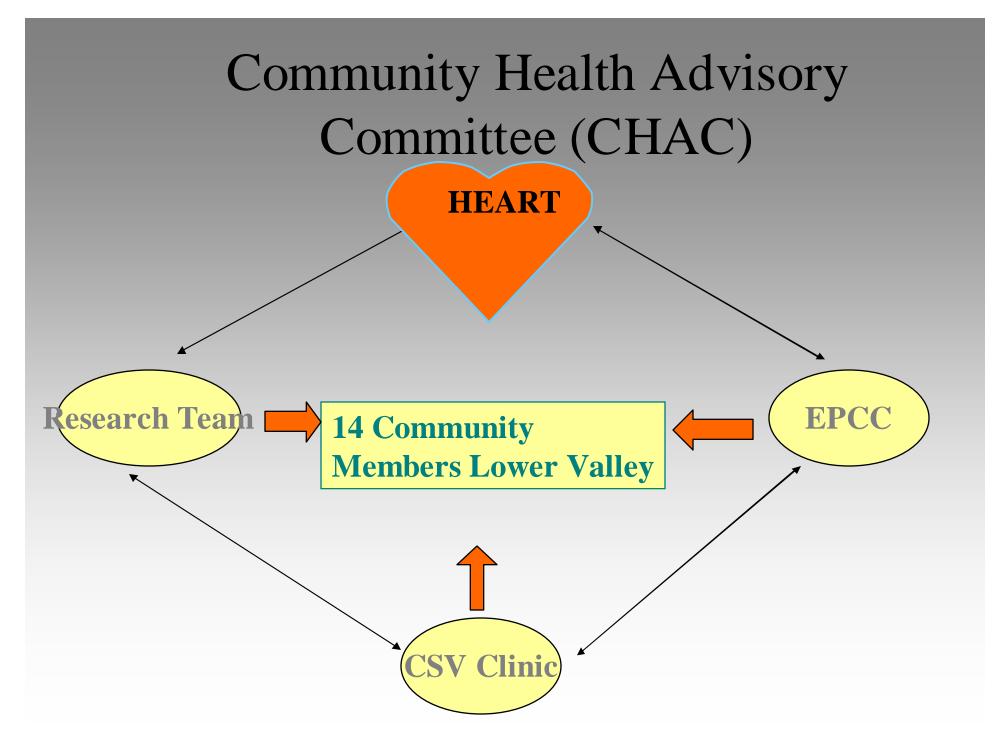


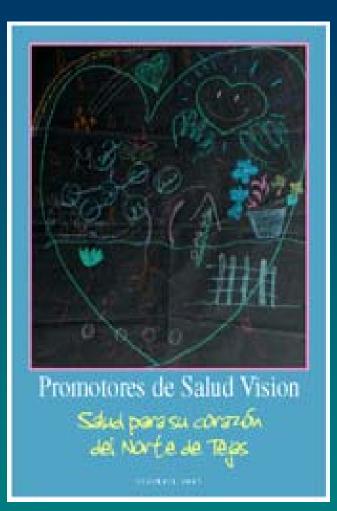
Steps in Building Community Capacity-Major Accomplishments

 Gathered information from the community (3 focus groups, 1 community forum for promotores showcasing "best practice approaches", 1 photo voice activity with team to build momentum for the project)

- Created a Community Health Advisory Committee (CHAC)
- Named the Community Project and Developed Logo
- Created a Promotora Resource Center/Project Website
- Built a Needs Assessment for EL Paso County
- Refined a Promotora Pilot intervention Develop a Cost-Benefit Analysis
- Launched a Community Randomized Promotora Field Trial intervention
- Evaluate the *Promotora* Intervention
- Share findings from the Study

Community Dealth Addisory Committee





Previous Experience in CBPR- with Promotores de Salud La Vision de la Promotora-Es la Vision de la Comunidad



Health Education Awareness Research Team

> LOGO For EL PASO PROJECT HEART

THE VISION OF HEART IS THE VISION OF THE PARTICIPATORY COMMUNITY In El Paso

CORP. Defin Community Capacity for Culler

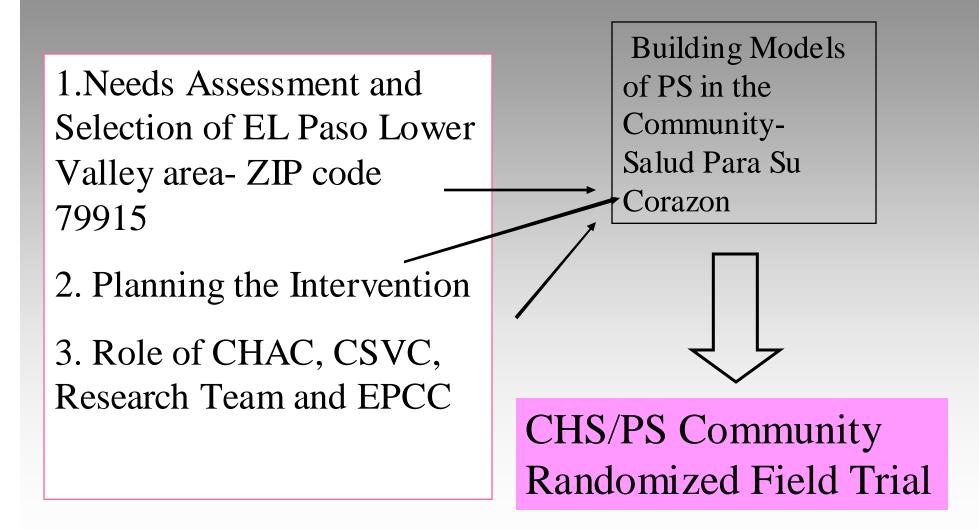
Special project feature: strengthening area promotores and access to health information resources

- A health resource library: at EPCC and on the web
- CHW/P photo reflections on their role in El Paso
- Cost-benefit analysis of CHW/Ps program/s



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Building Further The CBPR HEART PROCESS



Assessing/Evaluating Needs

Census Data for EL Paso, Texas Lower Valley Residents by Zip Code

	79849	79927	79907	79915	79905
Total Population	10,748	54,529	55,133	42,178	28,702
Hispanic or Latino (%)	98.4	92.8	94.5	93.9	96.4
(%) Spanish Spoken at Home (ages 5 to 17)	97.3	88.7	83.7	81.8	91.1
(%) Spanish Spoken at Home (ages 18+)	97.4	87.3	89.0	86.7	90.8
Median Age	22.5	26.0	28.9	32.8	32.3
Median Household Income (dollars)	20,100	26,650	26,447	23,400	17,723

Planning The Intervention- How?

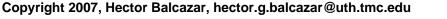
- Community Health Outreach Model
- Su Corazon, Su Vida

RANS FAT

- Centro San Vicente promotores
 - community Involvement







Goals for the community:

 Improved access to healthcare



- Decreased health disparities
- Sustained community health
- Interventions that last!







Role of CHAC, CSVC, EPCC, Research Team

1. SPSC Served as Catalyst For Action Plan to Deliver Intervention 2. Model Of Outreach to Target **330 Hispanic Adults** Four-Month Intervention Guided **By CHW/PS**



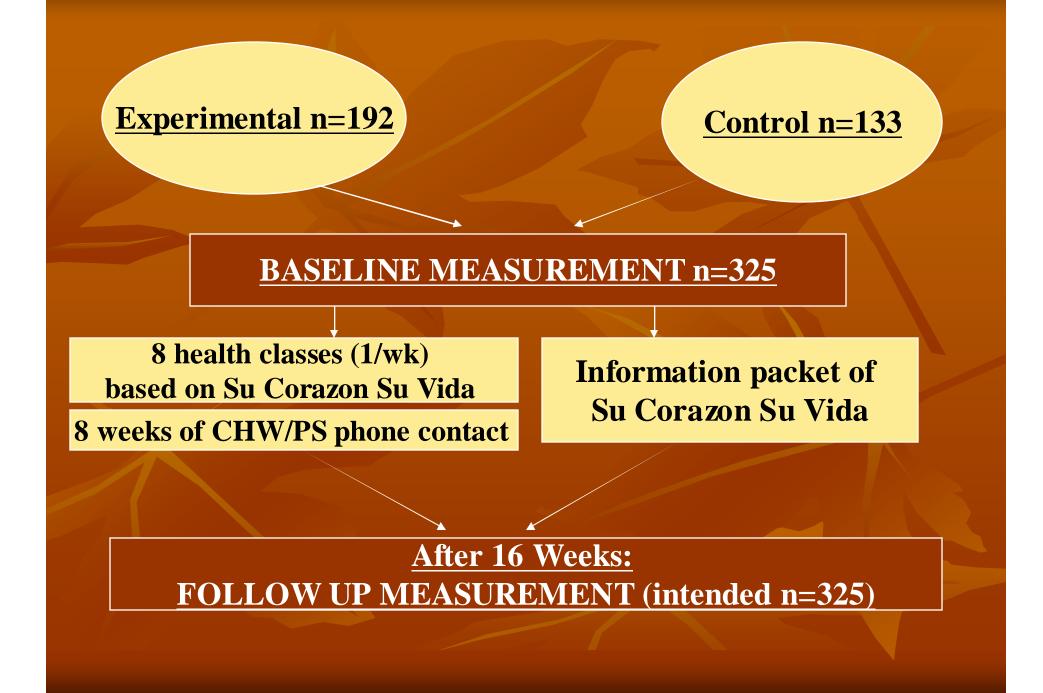
Method Pilot Study

 Random recruitment by 'knocking on 3,969 doors' in selected zipcode

 Random selection of census tract in Experimental or Control condition

 Total of 325 eligible participants agreed to participate and took baseline measurement
 n=133 control

n=192 experimental



Results

Selected Demographic characteristics of the sample:

Ehtnicity and Acculturation

• Ethnicity	100% Hispanic descent			
• Gender	233 females, 92 males			
• Age	54 ±13 years old Lived in US average of 39 years			
• BirthPlace	54.9 % born in Mexico			
• Language	95% speaks Spanish; 48% bilingual			
• <i>'Gyndex'</i> score	Low to Moderately acculturated (2.08 to 2.63 on a 1-5 scale)			

Results

Socioeconomic characteristics of the sample:

SES and Risk Factors					
•Income	72% under \$20,000				
•Employment	67.7% is unemployed				
•Education	76% high school or less				
•Risk Factors for CVD	100% has at least one risk factor for CVD development: •High BP •High Cholesterol •Diabetic •Overweight •Smoking				

Results:

Clinical measures at Baseline

Variable	n	Mean (SD) Control*	n	Mean (SD) Experimental*
Age (yr)	133	53.9(13.2)	185	53.8(13.3)
Height (in)	133	64.5(3.4)	180	63.8(3.9)
Weight (lbs)	133	184.6(42.8)	185	183.7(42.5)
Waist (in)	130	40.4(6.0)	183	40.7(6.0)
BMI (kg/m²)	133	31.0(6.5)	183	31.7(6.9)
Triglycerides (mg/dL)	133	143.9(90.6)	188	157.5(316.4)
LDL Cholesterol (mg/dL)	130	120.1(32.2)	186	126.5(35.7)
HDL Cholesterol (mg/dL)	133	43.3(14.0)	187	40.3(11.6)
Glucose	135	96.8(30.1)	190	102.8(47.1)
HbA1C (%)	133	6.3(1.3)	187	6.6(1.7)
Systolic BP (mmHg)	131	142.2(21.0)	182	135.9(22.1)
Diastolic BP (mmHg)	131	83.3(10.8)	182	80.3(11.7)

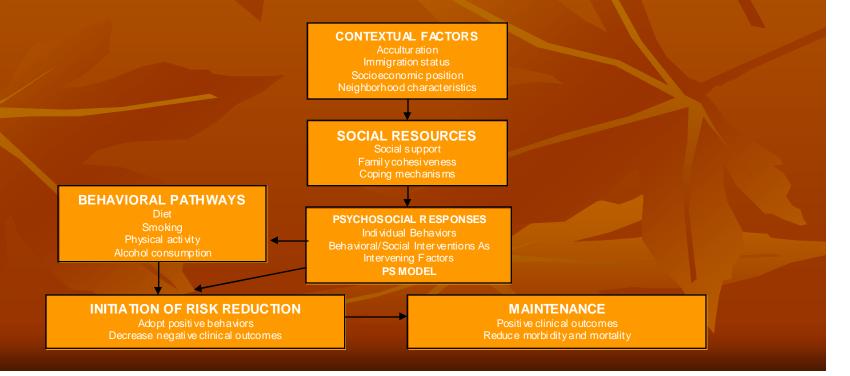
Exp vs Control

Clinical Measures at follow up

<u>Variable</u>	Unit	n	Change Control Mean (SD)	n	Change Experimental Mean (SD)	
Weight	Lbs	115	12(5.57)	145	-1.28 (5.83)	
BMI	kg/m²)	114	.18 (1.48)	144	07 (1.46)	
Waist	in	113	-0.66 (2.85)	140	0.01 (2.38)	
Total Cholesterol	mg/dL	112	0.19 (29.41)	123	-4.76 (33.94)	
Triglycerides	mg/dL	108	-1.06 (52.63)	122	8.74 (54.37)	
LDL Cholesterol	mg/dL	108	-0.05 (24.09)	121	-6.56 (29.06)	
HDL Cholesterol	mg/dL	111	-1.33 (7.39)	122	0.05 (6.60)	
Fasting Glucose	mg/dL	112	3.46 (30.28)	123	2.32 (34.78)	
HbA1C	%	112	0.20 (0.72)	122	-0.04 (1.14)	
Systolic BP	mm/Hg	111	-10.17 (14.74)	136	-5.63 (14.30)	
Diastolic BP	mm/Hg	111	-4.58 (8.82)	136	-2.17 (7.88)	

Community Health Workers and Community-Based Participatory Research

A expanded framework would address the following factors hypothesized to affect health promotion and education among Hispanics residing along the U.S.-Mexico border.



HEART Phase 2

Phase 2 of the project will collaborate with the YWCA and the City Parks & Recreations

- <u>Aim #1</u>- Strengthen our CBPR process
- <u>Aim #2-</u>Conduct an intervention in the Lower Valley of El Paso, Texas
- Aim #3- Evaluate the effectiveness of HEART phase 2
- <u>Aim #4-</u> Work with the CHALC, community partners, and CHWS/PS to plan dissemination of the research findings