PATHWAYS TO PROGRESS
Community-Based Research for Improving Rural Community Health

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Community Development Initiatives
Strategies for Community Engagement

THE SOCIAL HEALTH INDEXING PROJECT
- San Angelo Social Health Index
- Children of San Angelo Index
- The ASU Women’s Health Index

The West Texas Violence Index
- Seniors of San Angelo Index
- San Angelo Opportunity Index

PATHWAYS TO PROGRESS MONTHLY COLUMN
- Rights for Disabled Move; More Needed
- Progress Made In Poverty Fight
- Gauging Health Care for Women

Where Kids are at a Disadvantage
- Too Much Violence In West Texas Cities
- Isolation Among The Elderly

COMMUNITY-BASED NEEDS ASSESSMENT
Survey of the Poor & Extremely Poor in West Texas

PARTICIPATION IN COMMUNITY RESPONSES
Health & Behavioral Health Needs of the Poor & Extremely Poor in West Texas

The generous support of Methodist Healthcare Ministries of South Texas and the San Angelo Health Foundation made this project possible.

Principal Investigators
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SUSAN MCLANE, PROJECT COORDINATOR
CERA CANTU, AMERICORPS VISTA PROJECT ASSISTANT
Community Engaged Needs Assessment: Survey of the Poor & Extremely Poor

- 145 Community Contacts
- 72 Collaborating Organizations
- 9 Group Training Sessions for Facilitators (Interviewers)
- 64 Trained Community-Based Facilitators
- 600 Interviews with 32 Items and 178 Variables
- 131 Community Leaders Engaged in Needs Prioritization
Ten Prioritized Needs for Tom Green County

- Prevention to Reduce COPD
- Reduction of PPH from Congestive Heart Failure
- Health Needs of Children & Seniors
- Prevention to Reduce Cancer
- Reduction of PPH from Influenza & Pneumonia
- Improved Case Management for Vulnerable Groups
- Promotion of Healthy Living to Vulnerable Groups
- Reduce Obesity in Vulnerable Groups
- Reduction of PPH from Diabetes
- Prevention to Reduce Heart & Vascular Diseases
Community Coalition Responses

- The Concho Valley VISTA Placement Program
- A Texas Mission of Mercy Concho Valley Mobile Dental Clinic
- Laura W. Bush Institute for Women’s Health Hispanic Outreach
- The Children’s Advocacy Center Collective Impact Initiative
- The Concho Valley Rural Housing Initiative
- The San Angelo Diabetes Coalition
Breast Cancer Detection Rates* from Screening ABCC4WT-CV CPRIT Project Patients Compared to Hospital Outpatients (OPs)

Detection Rates = Breast Cancers Detected per 1,000 Women Screened
Vulnerable women face price and insurance obstacles, as well as barriers arising from non-citizenship, language, rural residence, transportation, and disabilities.

- 2014 Texas BRFSS estimates that 36.9% of women in the ABCC4WT-CV service area “never had a mammogram.
- 26.2% more women have had mammograms, but not within the past year.

Intense outreach spearheaded by Community Health Workers (CHWs).
- Meet patients on their own turf in food pantries, libraries, and schools.
- Network with non-profits and local service coalitions.
- Maintain constant communication with clinicians.
- Provide intense patient navigation.
- Every woman respected and valued.

- 2,264 mammograms by ABCC4WT-CV, January, 2012 - August, 2017
- 44 breast cancers detected.
- Detection rate = 19.4 cancers per 1,000 women screened.
Percentage Distribution of Screening Services by Rural or Urban Residence in the ABCC4WT Service Area, 2012-2015

<table>
<thead>
<tr>
<th>Screening</th>
<th>N</th>
<th>Odds Ratio</th>
<th>95% Confidence Interval</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Lower</td>
<td>Upper</td>
</tr>
<tr>
<td>OP Facilities</td>
<td>70,833</td>
<td>0.680</td>
<td>0.669</td>
<td>0.692</td>
</tr>
<tr>
<td>ABCC4WT</td>
<td>1,383</td>
<td>0.433</td>
<td>0.387</td>
<td>0.484</td>
</tr>
</tbody>
</table>
Percentage Distribution of Screening Services by Race and Hispanic Ethnicity in the ABCC4WT Service Area, 2012-2015

### Odds Ratios: Hispanic & Black to Non Hispanic (NH) White Screening

<table>
<thead>
<tr>
<th>Screening</th>
<th>N</th>
<th>Odds Ratio</th>
<th>95% Confidence Interval</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Lower</td>
<td>Upper</td>
</tr>
<tr>
<td>OP Facilities</td>
<td>61,046</td>
<td>Hispanic/NH White = 0.570</td>
<td>0.558</td>
<td>0.583</td>
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<tr>
<td></td>
<td></td>
<td>Black/NH White = 0.723</td>
<td>0.679</td>
<td>0.770</td>
</tr>
<tr>
<td>ABCC4WT</td>
<td>1,383</td>
<td>Hispanic/NH White = 3.643</td>
<td>3.263</td>
<td>4.068</td>
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<tr>
<td></td>
<td></td>
<td>Black/NH White = 1.715</td>
<td>1.199</td>
<td>2.452</td>
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</tbody>
</table>
Breast Cancer Detection Rates* among Non-Hispanic White and Hispanic Women Resulting from Outpatient (OP) and ABC4WT-CV Screening, 2012-2014

Odds Ratios: ABC4WT to OP Facilities Detection from Screening

<table>
<thead>
<tr>
<th>Group</th>
<th>Odds Ratio</th>
<th>95% Confidence Interval</th>
<th>p =</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Lower</td>
<td>Upper</td>
</tr>
<tr>
<td>White, Non-Hispanic</td>
<td>1.782</td>
<td>0.972</td>
<td>3.268</td>
</tr>
<tr>
<td>Hispanic</td>
<td>1.013</td>
<td>0.469</td>
<td>2.190</td>
</tr>
</tbody>
</table>

*Detection Rates = Breast Cancers Detected per 1,000 Women Screened

OP Facility Screening (N = 37,535)  ABCC4WT Screening (N = 884)
Time Required for the ABCC4WT Project to Reduce the Unscreened Female Population at Risk by at least 50%

*2014 Texas BRFSS results were used to compute the number of adult females at risk based on Texas Demographic Center estimates of the adult female population of the counties served. Adult Female population for 2017 is computed from the from the 2014 Texas Population Projections, Texas Demographic Center.*
Data Sources


Texas Behavioral Risk Factor Surveillance System (BRFSS), 2014, Center for Health Statistics, Texas Department of State Health Services, 1100 West 49th Street, Austin, TX 78756.

Texas Cancer Registry, Cancer Epidemiology and Surveillance Branch, Texas Department of State Health Services, 1100 West 49th Street, Austin, TX 78756.


Texas Outpatient Data, Public Use Data Files, 2012-2014, Texas Health Care Information Collection, Center for Health Statistics, Texas Department of State Health Services, 1100 West 49th Street, Austin, TX 78756.
A parting thought

*Academic research is driven by a researcher’s interests in theories and hypotheses.*

*Community-based research is driven by a community’s interests in solving collective problems.*