The Border of Change: Evaluating the Impact of the Primary Care Behavioral Health (PCBH) Model in a Predominantly Latino Population

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Faculty Disclosure

The presenters of this session <u>have NOT</u> had any relevant financial relationships during the past 12 months.



Conference Resources

Slides and handouts shared by our conference presenters are available on the CFHA website at https://www.cfha.net/page/Resources 2019 and on the conference mobile app.





Learning Objectives

At the conclusion of this session, the participant will be able to:

- Learn about the mitigation of challenges from implementing the PCBH model in Family Medicine Residency clinics
- Learn about the mitigation of challenges from conducting high-level research and evaluating the PCBH model in a predominantly Hispanic, low-income region
- Outline and discuss the impact of the UTRGV Si Texas Project's findings and its contribution to gaps in PCBH literature



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- Outline and discuss the impact of the UTRGV Si Texas Project's findings and its contributions to gaps in PCBH literature.



Special Thanks:Si Texas Funding Partners









Special Thanks: UTRGV Partners & Leadership





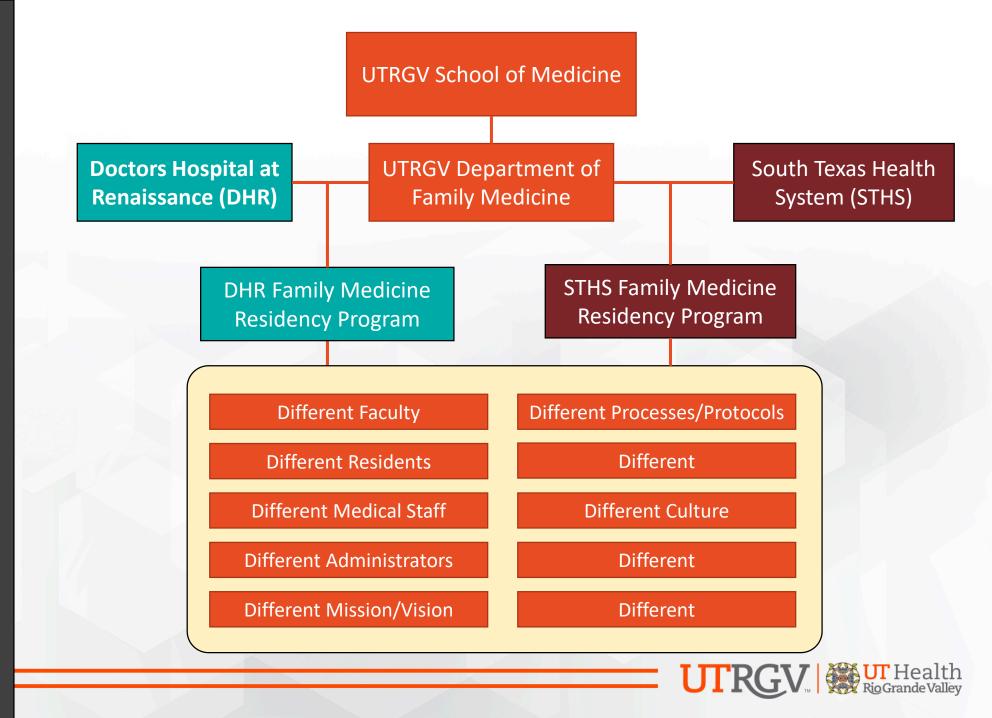


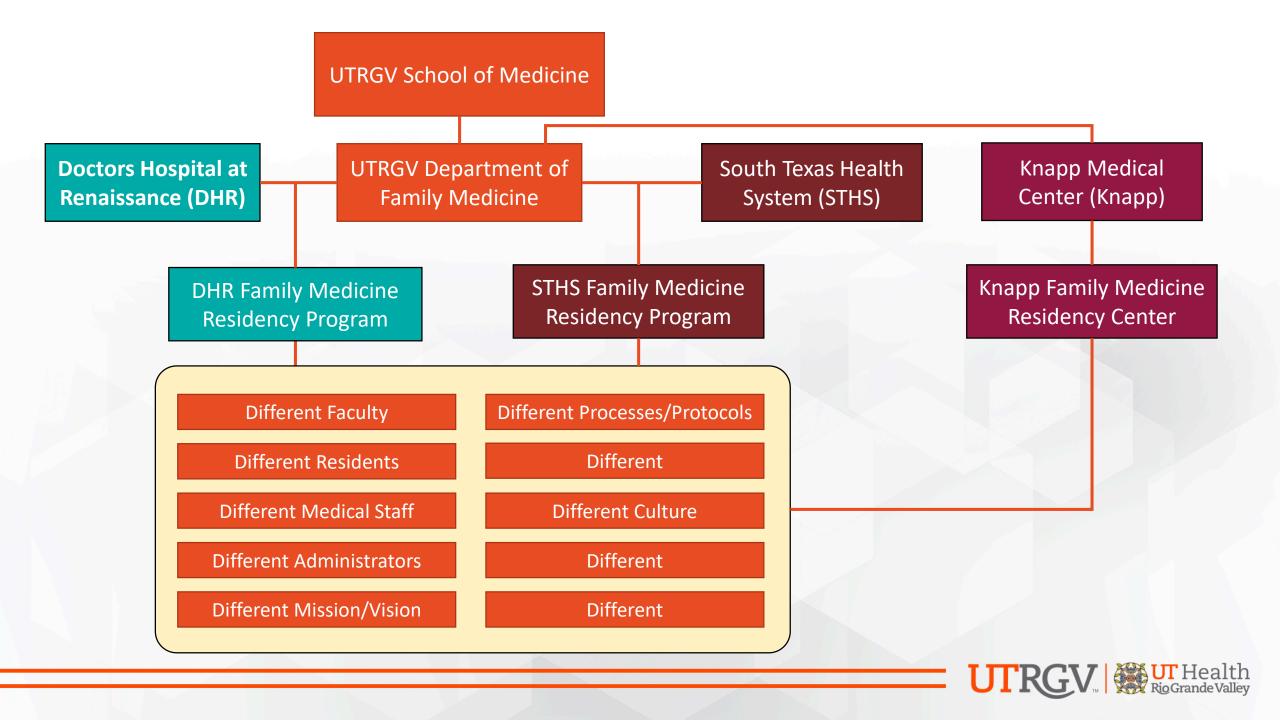
Implementing the PCBH Model in a Residency Setting

MITIGATION STRATEGIES



What
Organizations Did
The Project
Engage?





The UTRGV Department of Family & Community Medicine





Clinical Challenges

- Two clinics to integrate simultaneously
- Training Faculty and Resident providers on PCBH model components in a short amount of time.
- Gaining buy-in from providers to utilize PCBH services.
- Building **buy-in** from **leadership** to push for PCBH services to be supported.







Clinical Solutions

- Bringing the experts in from the start to train BHCs, PCPs and clinic staff.
- Conducting inclusive quality improvement assessments with both clinical sites.
- Multi-faceted, multi-leveled approach to buy-in.



Provider & Staff Trainings

Quality Improvement Projects





Building Buy-In for PCBH Services

CLINIC STAFF Front Office & Medical Assistants

- Provided training on the model from experts
- Engaging clinic staff during clinic specific staff meetings
- Lunch & Learn sessions
 covering a wide range of
 topics (research protocols,
 PCBH language, proper
 delivery of screening tools)

PROVIDERS Faculty & Residents

- Provided continuous training on the PCBH model with related topics
- Monthly exposure to PCBH services via clinical rotation
- Daily exposure in clinical setting for increased uptake in service utilization

ADMINISTRATION Hospital & University Leadership

- Transparency in project goals and research
- Development & alignment of internal strategic plan to organizational strategic plan
- Held strategic meetings with key leadership and stakeholders



Conducting High-Level Research

MITIGATION STRATEGIES



Project Background



Doctors Hospital at Renaissance Family Medicine Residency Clinic



South Texas Health System
Family Medicine Residency Clinic



366 Participants



Eligibility Criteria:

Participants who met with their **Primary Care Provider** and who met with a **Behavioral Health Consultant**

TIMEPOINTS



6

12

ВМІ



Blood Pressure



KEY METRICS

PHQ-9 Score





Project Background



Doctors Hospital at Renaissance Family Medicine Residency Clinic



South Texas Health System
Family Medicine Residency Clinic

PROJECT COMPLETE



OB/GYN Residency Clinic

Expanded Services Site



Research Challenges

• Three (3) IRB Committees





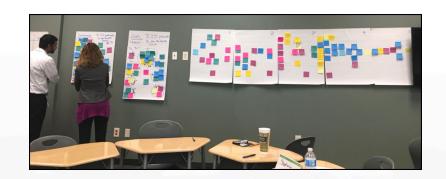


- Integrating the research protocols to two different clinics without disrupting the clinical flow
- Difficulty in retaining participants, due to:
 - The cost of returning to clinic (participants could not afford co-pay & facility fee)
 - 2. Lack of **time** (most participants had hourly jobs)
 - Lack of transportation (some participants had no mode of transportation)
 - 4. Political climate



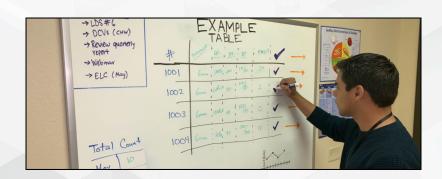
Research Solutions

Transparency to all IRB committees



Identifying areas where research protocol will have least disruption –
 post-QI workflow assessment

- Community Health Worker (CHW)
 - Continued Contact Attempts
 - Conducting Home Visits
 - Offering no-charge Research Visit





Build & Sustain PCBH Model Fidelity

BHC Training

"Ensuring the success of a new BHC requires a multifaceted training approach and finding training resources specific to PCBH, including mentors and/or consultants, is very important." (Robinson, 2016)

- High-level training opportunities for BHCs:
 - Courses by leaders in the field of PCBH
 - Online training and webinars
 - Attending conferences such as CFHA

Management Strategies

"When clinic leaders are unable to anticipate necessary changes to clinic infra-structure, the newly hired and minimally trained BHC will lack the operational foundation for integrating fully." (Robinson, P., Oyemaja, J., Beachy, B. et al., 2018)

Working with clinic leadership has been a key component of building a foundation for BHCs to integrate. It has been equally important to involve and inform leadership of workflow and process changes that lead to better integration of PCBH.



Build & Sustain PCBH Model Fidelity

Clinical Education

"Implementation is an incremental and ongoing process, involving frequent reeducation of PCPs and staff." (Robinson, 2016)

Designing an IBH educational component was a crucial part in building competencies of PCPs and support staff at our Family Medicine Residency sites. In doing so, the clinics were able to support and help shape the BHC's practice to toward model fidelity.

Measuring Impact

"Fidelity metrics help BHCs understand how innovations or changes they make affect their overall service" (Robinson, 2016)

Based on best practices and project funding requirements, the tracking of impact measures has been a priority for implementation at both residency sites since the beginning. The successes and challenges of collecting these metrics has been a tool for our program to help BHCs work toward model fidelity.



The UTRGV Si Texas Project

FINDINGS & CONCLUSIONS



Project Metrics

Demographic Metrics	Health Metrics	Behavioral Metrics			
 Name Age Gender Ethnicity Preferred Language Contact Information City County Level of Education Employment Status Marital Status 	 Health History Diabetes Hypertension Obesity Cholesterol Depression Blood Pressure Systolic Diastolic Body Mass Index (BMI) Height Weight Hemoglobin A1c Diabetic History Only 	 Depression Screening Score - (PHQ-9) Patient Health Questionnaire 9-item Anxiety Screening Score - (GAD-7) Generalized Anxiety Disorder 7-item Quality of Life Screening Score - (DUKE) Duke Health Profile 17-item 			



Sample Demographics

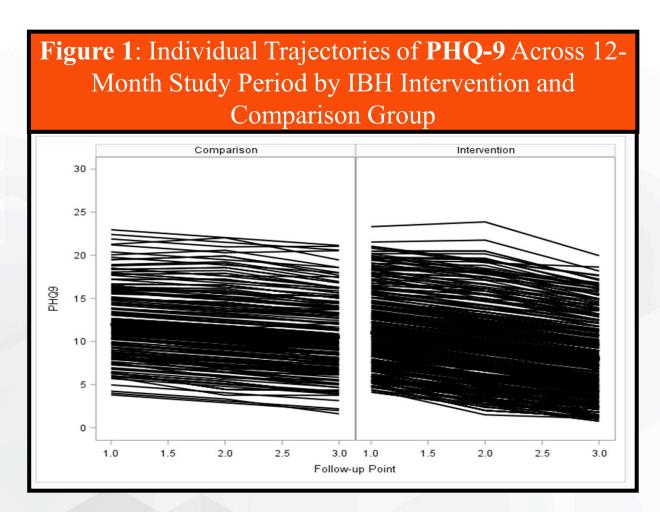
Measure	Full San	Full Sample (n=569)		Intervention (n=364)		Comparison (n=205)	
	n	%	n	%	n		%
Sex							
Male	188	33.0	111	30.5	77	37.6	
Female	381	67.0	253	69.5	128	62.4	
Ethnicit							
Hispanic/Latino	538	94.6	342	94.0	196	95.6	94.6% Hispani
Non-Hispanic/Non-Latino	21	4.8	21	5.8	6	2.9	
Other	4	0.7	1	0.3	3	1.5	
Age							
≤34	151	26.5	88	24.2	63	30.7	
35-44	149	26.2	94	25.8	55	26.8	
45-54	136	23.9	92	25.3	44	21.5	
55-64	92	16.2	58	15.9	34	16.6	
65+	41	7.2	32	8.8	9	4.4	Average Age =
Mean (SD)	44.5 (13.5)		45.5 (13.7)		42.7 (13.2)		45 years
County							
Cameron County	136	23.9	8	2.2	128	62.4	Hidalgo Count
Hidalgo County	418	73.5	341	93.7	77	37.6	(Central Valley)
Other Counties	15	2.6	15	4.1	0	0.0	



PHQ-9 Score

Results indicated:

- PHQ-9 scores of intervention participants which were on average, lower (-1.94 points) than comparison participants at 12-months.
- A greater trajectory of improvement in depression over the 12-month period for intervention participants, which was statistically significant [Figure 1].

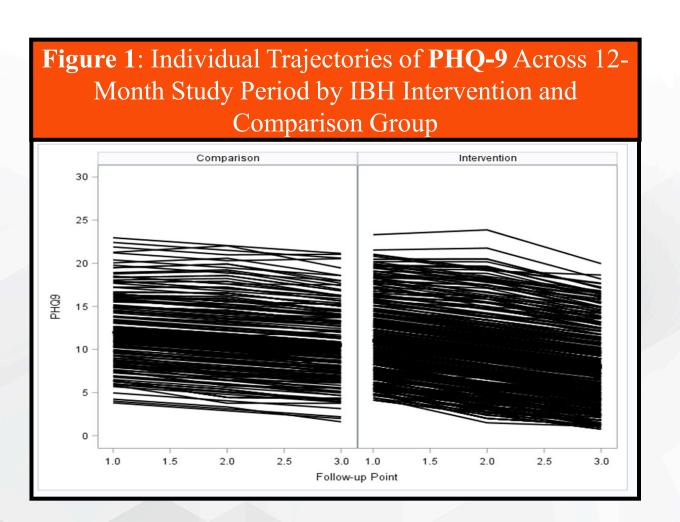




PHQ-9 Score

Results indicated:

• When stratifying for age, findings indicated a significant association of the intervention with a lower PHQ-9 score with participants under the age of 45.

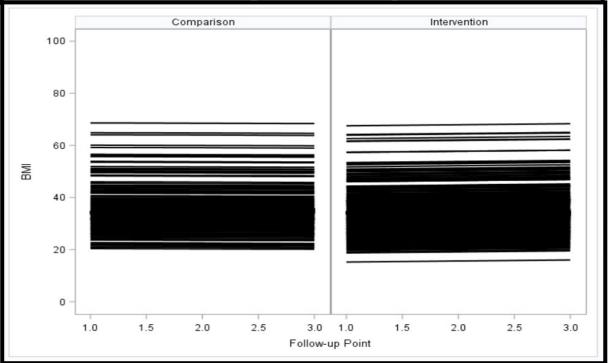




BMI

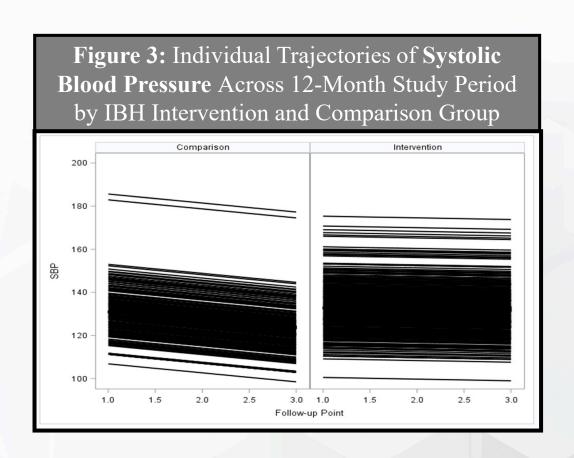
BMI data demonstrated that
 on average intervention
 participants were 1.12
 kg/m² higher after 12 months than comparison
 participants.

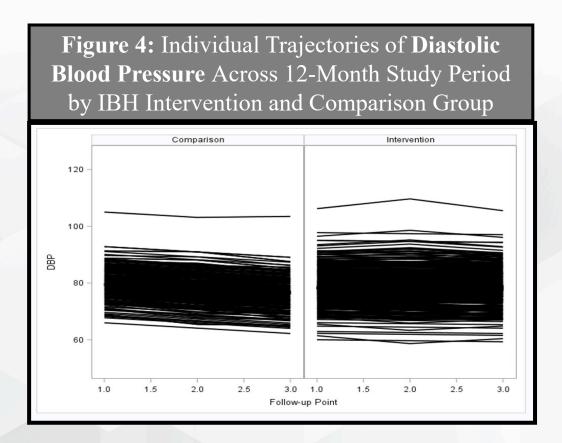






Blood Pressure (Systolic/Diastolic)

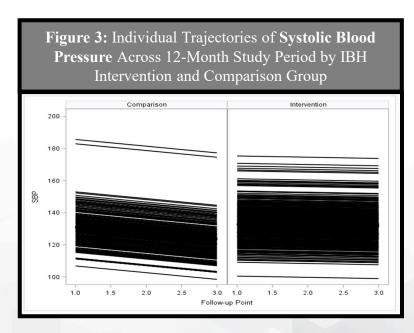


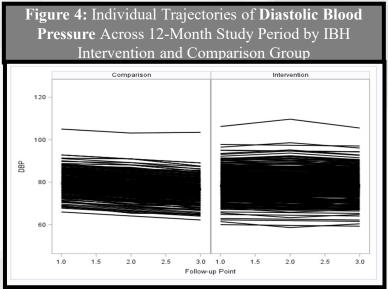




Blood Pressure (Systolic/Diastolic)

• Blood pressure in intervention participants was **higher** in both systolic (+7.56 mmHg) and diastolic (+2.76 mmHg) than the comparison group. *However...*







The UTRGV Si Texas Project

WHAT'S NEXT?



Current Sites

Doctors Hospital at Renaissance
OB/GYN Residency Program



Doctors Hospital at Renaissance Family Medicine Residency Program



UT Health RGV

McAllen Family Medicine Residency Program



1

3

Impact from PCBH Services - 3 Years -

- 2500+ Individual Patients have received PCBH services.
- 100+ Doctors trained in PCBH clinics
 - 75+ UTRGV Residents (Family Medicine & OB/GYN)
 - 25+ UTRGV Faculty (Family Medicine & OB/GYN)
- 60+ Medical Staff trained in PCBH clinics
 - 5+ Clinic Administrators
 - 20+ Front Office Specialists
 - 30+ Medical Assistants
 - 3+ Nurses
 - 2+ Laboratory Staff





Primary Care Behavioral Health (PCBH) & Family Medicine Educator Post-Doctoral Fellowship









Program Description:

- 52-week experience for two (2) trainees: July –
 June
- On-site supervision from an inter-disciplinary team led by behavioral science faculty.
- Innovative curriculum focused on [1] building expertise on the Primary Care Behavioral Health model, and [2] preparation for an academic appointment or clinical career.
- Each fellow will complete a scholarly project, play an active role in resident education, participate in ongoing IBH research and benefit from ample opportunities for other scholarly activities.



Future Sites



UT Health RGV

Employee Health Clinic Edinburg



4

UT Health RGV

Employee Health Clinic Harlingen



5

UT Health RGV

Multispecialty Clinics



6

UT Health RGV

Laguna Vista Clinic



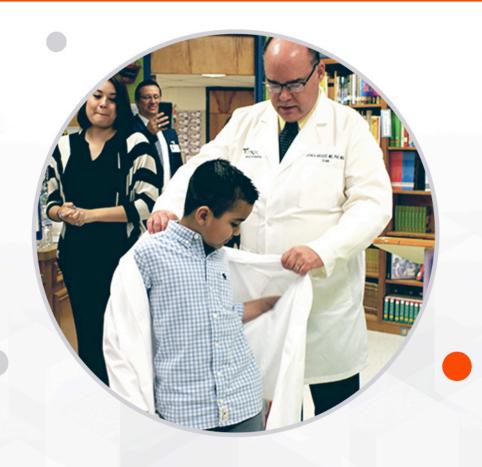
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Questions?









Thank You!



Session Survey

Use the CFHA mobile app to complete the survey/evaluation for this session.





Join us next year in Philadelphia, Pennsylvania! Thank you!