

# Does Telehealth Really Tele HELP?

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# Does Telehealth Really Tele HELP?

A DATA-INFORMED STRATEGY TO IMPROVE HEALTH OUTCOMES FOR INDIVIDUALS WITH COMORBID SMI AND CHRONIC MEDICAL CONDITIONS

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### Presenters

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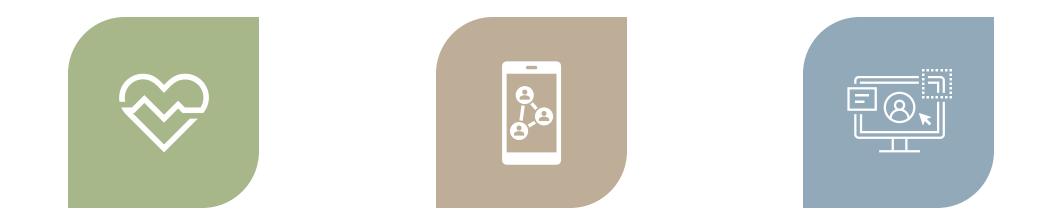
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MD – Primary Care Physician

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MD, JD, MBA – Psychiatrist, Clinic Medical Director

## Objectives



EXAMINE HOW USE OF TELEHEALTH TECHNOLOGY IN A POPULATION WITH COMORBID SERIOUS MENTAL ILLNESS (SMI) AND DIABETES IMPACTS ENGAGEMENT AND HEALTH OUTCOMES. EXPLORE HOW EXPANDED USE OF TELEHEALTH TECHNOLOGY CAN BE COLLABORATIVELY LEVERAGED IN AN INTEGRATED CARE SETTING. EXPLAIN HOW TO ADDRESS INTERNALAND EXTERNAL BARRIERS TO IMPLEMENTATION OF TELEHEALTH TECHNOLOGY WITHIN AN INTEGRATED CARE SETTING.

## Background

While some of the highest morbidity and mortality rates due to chronic disease persist in Texas, the situation is worse still for residents with Serious Mental Illness (SMI).

The even higher rates of co-morbid chronic medical illness in people with SMI, the unique challenges they face managing their illnesses, and their disproportionately high rates of premature death relative to the general population are well documented. Texas BRFSS (2021)

• 11.5% (Diabetes)

- 36.1% (BMI > 30.0)
- 18.6% (Depressive Disorders)
- 32.2% (High Blood Pressure)

## Background

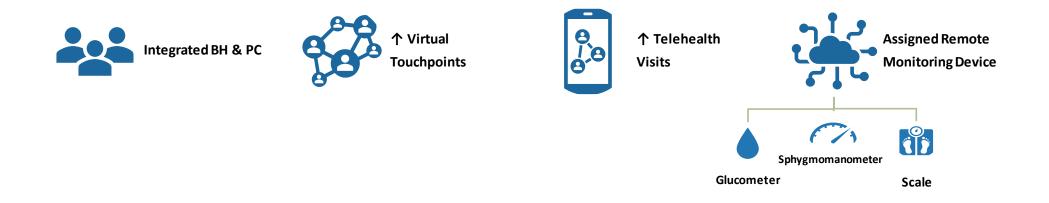


Tropical Texas Behavioral Health (TTBH) is a Certified Community Behavioral Health Center (CCBHC) and Local Mental Health Authority (LMHA) for the region in South Texas known as the Rio Grande Valley and is composed of 1.3 million residents, with about 90% Hispanic population.

To address the high prevalence, and associated risks, of diabetes, prediabetes, and obesity, TTBH implemented a grant funded project with a focus on those with comorbid SMI and chronic medical conditions.

## Project Overview

The project's focus was on clients who reside in the mid-Valley who were diagnosed with a SMI and comorbid Type 2 Diabetes or Pre-Diabetes, among other chronic conditions. In addition to program specific interventions, clients continued to receive outpatient behavioral health services in accordance with assessed need.



## **Program Participants**

Data for analysis was pulled from an ongoing evaluation and quality improvement program. Included within the sample were individuals who received program services for greater than six months; those with incomplete data were excluded.

		Prog	ram Particip <sub>N=90</sub>	ants						
Sex		44% Male			56% Female					
Age (years)	1% 18-24	9% 25-34	26% 35-44	43% 45-54						
Ethnicity	94.4	4% White Hispa	anic	5.5% White Non-Hispanic						
Preferred Language		64.4% English			35.6% Spanish	1				

## Program Participants

N=90	MDD	Schizophrenia	Bipolar D/O
Diabetes Status			
DM2	44	3	8
Pre-Diabetes	27	3	5
Hypertension Status			
HTN	54	3	8
No Diagnosis	17	3	5
<b>BMI Category</b>			
18.5-14.9	1	0	0
25-29.9	4	0	1
<u>&gt;</u> 30.0	66	6	12

### Findings

More than half of the clients enrolled in the program experienced a reduction in their A1c

> Over one third experiencing a clinically significant reduction.

➤While over half of individuals experienced a decrease in BMI, most results were clinically insignificant. Summary of Change in Health Outcomes

	▲ BMI	▲ A1c		
		AIC	Systolic	Diastolic
Mean	-0.835	-0.5293	-5.3258	-2.6742
Median	-0.75	-0.2	-4	-3
Mode	-2.5	0	0	0
Range	12.7	11.8	86	50
Minimum	-6.8	-6.5	-54	-26
Maximum	5.9	5.3	32	24
Count	90	90	90	90

## Correlation Coefficient

Size of Correlation	Interpretation
<mark>.90 to 1.00</mark>	Very high positive (negative)
(90 to -1.00)	correlation
<mark>.70 to .90</mark>	High
<mark>.50 to .70</mark>	Moderate
<mark>.30 to .50</mark>	Low
.00 to .30	Negligible



#### Correlation Matrix PreDiabetes

	Age	Days in Program	# of Prescriber Visits	% of Visits via TeleHealth	<b>▲</b> Wt	▲ BMI	▲ A1c	▲ Systolic BP	▲ Diastolic BP	BP Cuff (# Readings)	Scale (# Readings)
Age	1										
Days in Program	-0.12637										
# of Prescriber Visits	0.431875	-0.01573	3 1								
% of Visits via TeleHealth	-0.36681	0.059813	<u>-0.018</u>	1							
▲ Wt	-0.37299	0.01817	3 <u>-0.16112</u>	0.174293	1						
▲ BMI	-0.33377	-0.00463	-0.12061	0.186928	0.985326	1					
▲ A1c	-0.04144	0.084738	3 <u>-0.0826</u>	-0.48669	0.151734	<u>0.155611</u>	1				
▲ Systolic BP	-0.16547	0.465236	0.126487	-0.08804	-0.11614	-0.12286	0.193453	1			
▲ Diastolic BP	-0.08949	0.36016	0.073211	-0.15903	-0.01558	-0.01674	0.183949	0.794708	1		
BP Cuff (#Readings)	0.091187	-0.05412	2 <u>0.148688</u>	-0.06935	0.093063	0.096685	-0.16375	-0.03083	0.344664	1	
Scale (#Readings)	-0.5293	0.320874	4	0.308297	0.172325	0.062401	-0.21846	0.374602	0.304905	0.510924	1

### Pre-Diabetes Findings

- > No strong associations
- Age is positively correlated with the number of Provider Visits
- Age is negatively correlated with the proportion of telehealth visits.

#### Summary of Change in Health Outcomes **Prediabetes** ▲ Wt ▲ BMI ▲ A1c ▲ Systolic BP ▲ Diastolic BP -0.53077 Mean Mean -2.86923 Mean -0.16923 Mean -3.69231 Mean -2.07692 -5 Median Median 0.3 Median -0.05 Median -0.1 Median -1.5 Mode 8.9 Mode #N/A Mode 0 Mode 8 Mode 0 49 Range Range 53.9 Range 8.1 Range 2.2 Range 31 -5.4 Minimum -27 Minimum Minimum -36.6 Minimum -1.4 Minimum -20 Maximum 17.3 Maximum 2.7 Maximum 0.8 Maximum 22 Maximum 11 26 Count 26 Count 26 Count 26 Count 26 Count

### Correlation Matrix DM2: Starting A1c < 7.0%

	Age	Days in Program	# of Prescriber Visits	% of Visits via TeleHealth	<b>▲</b> Wt	▲ BMI	▲ A1c	▲ Systolic BP ▲	Diastolic BP		Glucometer (# Readings)	BP Cuff (# Readings)	Scale (# Readings)
Age	1												
Days in Program	0.254558	1											
# of Prescriber Visits	0.344653	0.34723	1										
% of Visits via TeleHealth	-0.19312	0.153351	0.3584837	1									
▲ Wt	0.312163	-0.3065	0.2699237	-0.1607297	1								
▲ BMI	0.339882	-0.31255	0.2340667	-0.1367501	0.964707	1							
▲ A1c	-0.34285	-0.23897	-0.721296	-0.3684748	-0.15465	-0.15312	1						
▲ Systolic BP	0.091364	0.345996	0.3764662	-0.2652798	0.008231	-0.07541	0.116854	1					
▲ Diastolic BP	0.218968	0.15427	0.1511851	0.2420164	-0.00233	0.145635	0.020739	0.256584	1				
Glucometer (Days Used)	0.321914	0.445042	0.4582481	-0.1920087	-0.05488	-0.06069	-0.24817	7 0.241209	-0.19665	1			
Glucometer (# of Readings)	0.316804	0.287302	0.5420217	-0.1580396	0.083458	0.082136	-0.28946	0.288835	-0.06385	0.956171502	. 1		
BP Cuff (#Readings)	0.276463	0.058119	0.1934606	0.2122024	-0.05024	-0.03123	-0.38609	) -0.47473	-0.10518	0.375862233	0.399629587	1	L
Scale <u>(</u> #Readings)	0.014554	-0.36965	-0.479757	-0.331289	-0.057	-0.07666	0.256946	<u> </u>	0.020825	0.03115577	0.05265597	-0.29061	1

### DM2: Starting A1c < 7.0% Findings

- The number of prescriber visits negatively correlated with A1c
- Prescriber visits positively correlated with increased use of remote monitoring glucometer
- Age is positively correlated with the number of Provider Visits

Summary of Change in Health Outcomes DM2: Starting A1c < 7.0%									
▲ Wt ▲ BMI ▲ A1c ▲ Systolic BP ▲ Diastolic BP									
Mean	-6.25882 Mean	-1.08824 Mean	0.894118 Mean	-4.625 Mean	-1.5625				
Median	-4.2 Median	-1.5 Median	0.4 Median	-2.5 Median	-5				
Mode	#N/A Mode	-2.5 Mode	-0.2 Mode	2 Mode	-10				
Range	56.9 Range	8.8 Range	5.5 Range	57 Range	36				
Minimum	-40 Minimum	-5.6 Minimum	-0.2 Minimum	-37 Minimum	-16				
Maximum	16.9 Maximum	3.2 Maximum	5.3 Maximum	20 Maximum	20				
Count	17 Count	17 Count	17Count	16 Count	16				

#### Correlation Matrix DM2: Starting A1c 7.0% - 9.0%

	Age	Days in Program	# of Prescriber Visits	% of Visits via TeleHealth	▲ Wt	▲ BMI	▲ A1c	▲ Systolic BP		<b>Glucometer</b> (Days of Used)	<b>Glucometer</b> (#Readings)	<b>BP Cuff</b> (# Readings)	<b>Scale</b> (# Readings)
Age	1												
Days in Program	0.079468	1											
# of Prescriber Visits	-0.20993	0.180845	1										
% of Visits via TeleHealth	0.391421	0.158101	-0.1574634	1									
▲ Wt	0.504686	0.084234	0.0138134	-0.0016779	1								
▲ BMI	0.508791	0.263088	0.0284691	0.3214028	0.871964	1							
▲ A1c	0.051115	0.287006	0.0339795	-0.1987026	0.233605	0.100372	1						
▲ Systolic BP	-0.19332	0.253244	-0.0616241	0.0643085	0.073702	0.18666	0.011467	1					
▲ Diastolic BP	-0.4715	-0.02683	0.1813608	-0.0710882	-0.13156	-0.02998	0.106983	0.517104	1				
Glucometer (Days of Readings)	0.50552	0.330665	0.1001106	0.2362678	0.417166	0.565597	-0.11251	0.311136	0.170573	1			
Glucometer (#of Readings)	0.423215	0.218251	0.0366135	0.0043983	0.505991	0.618393	-0.29214	0.22087	0.077813	0.88298889	1		
BP Cuff (#Readings)	0.390173	0.214159	0.3308267	0.1725823	0.101016	0.107642	0.013493	0.027287	0.024254	0.68328486	0.41111213	1	
Scale (#Readings)	0.496502	0.084662	-0.114992	-0.1302146	0.053448	-0.0551	0.442651	-0.0584	-0.08885	0.28908012	0.23118504	0.13797	1

### DM2: Starting A1c 7.0 - 9.0% Findings

- Age is positively correlated with changes in BMI and use of glucometer
- Use of glucometer positively correlated with changes in BMI
- Use of scale positively correlated with changes in A1c

	Summary of Change in Health Outcomes DM2: Starting A1c 7.0 - 9.0%									
▲ W	▲ Wt ▲ BMI ▲ A1c ▲ Systolic BP ▲ Diastolic BP									
Mean	-7.925	Mean	-1.135	Mean	-0.265	Mean	-7.45	Mean	-3.45	
Median	-6.55	Median	-0.85	Median	-0.1	Median	-4	Median	-4	
Mode	#N/A	Mode	#N/A	Mode	1.2	Mode	-2	Mode	4	
Range	122.2	Range	12.7	Range	4.4	Range	46	Range	32	
Minimum	-85.4	Minimum	-6.8	Minimum	-3.1	Minimum	-32	Minimum	-20	
Maximum	36.8	Maximum	5.9	Maximum	1.3	Maximum	14	Maximum	12	
Count	20	Count	20	Count	20	Count	20	Count	20	

#### Correlation Matrix DM2: Starting A1c > 9.0%

	Age	Days in Program	# of Prescriber Visits	% of Visits via TeleHealth	▲ Wt	▲ BMI	▲ A1c	▲ Systolic BP	▲ Diastoli BP	c Glucometer (Days Used)	ιπητ	BP Cuff (# Readings)	Scale (# Readings)
Age	1												
Days in Program	0.149179	1											
# of Prescriber Visits	-0.21341	0.538417	1										
% of Visits via TeleHealth	-0.21612	0.405576	-0.099143	1									
▲ Wt	0.133116	-0.27475	-0.144906	0.1498758	1								
▲ BMI	0.224312	-0.28939	-0.181202	0.0893968	0.902495	1							
▲ A1c	-0.24376	0.078701	-0.251913	0.468966	-0.01747	0.142868	1						
▲ Systolic BP	-0.01096	0.040115	-0.4639	0.4089546	0.038424	0.118219	0.423046	1					
▲ Diastolic BP	-0.11737	-0.26783	-0.326765	0.0460481	0.115739	0.203383	0.005479	0.448925		1			
Glucometer (Days Used)	0.197446	0.580933	0.6905661	-0.0616332	-0.26685	-0.39358	-0.41053	-0.36589	-0.2445	2 1			
Glucometer (#of Readings)	0.159821	0.53466	0.6303664	-0.0355342	-0.34635	-0.41268	-0.18441	-0.34449	-0.2050	1 0.942971	1		
BP Cuff (#Readings)	-0.04841	-0.10911	-0.017245	0.0053227	-0.3692	-0.50842	-0.10825	0.059766	0.06024	2 <u>0.362516</u>	0.39253	1	
Scale (#Readings)	-0.24656	-0.16148	-0.350951	0.4631681	-0.12394	-0.12122	0.531011	0.42225	0.25152	60.11536	-0.01711	0.818	1

### DM2: Starting A1c > 9.0% Findings

- Age is positively correlated with changes in BMI and use of glucometer
- Use of scale positively correlated with changes in A1c
- Significant reduction in A1c

	Summary of Change in Health Outcomes DM2: Starting A1c > 9.0%									
▲ Wt ▲ BMI ▲ A1c ▲ Systolic BP ▲ Diastolic BP										
Mean	-2.20526	Mean	-0.45526	Mean	-2.88421	Mean	(	Mean	-2.21053	
Median	C	0 Median -0.3 Median -2.2 Median 0 Median								
Mode	1	Mode	-1.9	Mode	-1.9	Mode	-4	1 Mode	-8	
Range	38.8	Range	9.2	Range	5.8	Range	79	Range	44	
Minimum	-20.8	Minimum	-6.4	Minimum	-6.5	Minimum	-47	7 Minimum	-20	
Maximum	18	Maximum	2.8	Maximum	-0.7	Maximum	32	2 Maximum	24	
Count	19	Count	19	Count	19	Count	19	Count	19	

### Symptom Scale Findings

Summary of Change									
(Syn	nptom Se	cale Scores	5)						
▲ QIL	)S	▲ BL	DSS						
Mean	-1.30	Mean	0.75						
Median	-1	Median	-4						
Mode	0	Mode	-9						
Range	29	Range	38						
Minimum	-19	Minimum	-9						

QIDS = Quick Inventory of Depressive Symptomatolgy Self-Report, BDSS = Brief Bipolar Disorder Symptom Scale

10 Maximum

71 Count

Maximur

Count

29

12

### Clinician Perspective



### **Bridging Gaps**

Convenience Enhanced Access Efficiency



### **Trade Offs**

Client Setting Privacy Issues Technological Issues Impaired Therapeutic Alliance

- Carlos Alicea, MD (Psychiatrist)

## **Clinician Perspective**

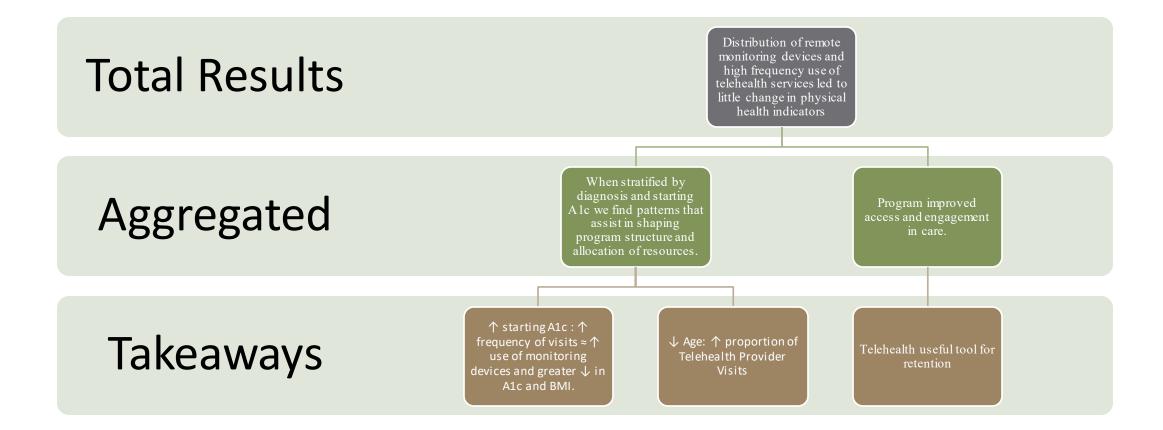
While telehealth has its role in healthcare, I have found, with the population we serve (those with SMI and chronic medical conditions) it's best to see them in person for primary care visits. There are vital pieces of a clinic visit that can't be replicated via telehealth, the physical health exam chief among them. Are there times when telehealth can be beneficial? Yes, as we saw during the pandemic – virtual visits allowed us to continue treating our patients safely, and even now, when someone is unable to come in it can be helpful.

Remote monitoring devices, particularly the glucometers, allowed for additional information that was helpful in making treatment decisions. Patients often forget to bring in their logs, have difficulty recalling results, or just don't check at home. To be able to refer to a dashboard that showed at home results allowed me to provide more immediate adjustments in care and more effectively treat patients.

Some clients experienced significant improvements in physical health outcomes while receiving project services, and I strongly suspect those that didn't were among those that had difficulties in obtaining medication-it would certainly be a contributing factor. Overall, as is the case with clinicians, there is mixed satisfaction with telehealth among my patients. As indicated by the data, there are also mixed results – telehealth is not a one size fits all tool.

-Jose Ledezma, MD (Primary Care)

## Discussion





Provision of additional follow-up training and support regarding utilization of remote monitoring devices.

Y

While frequent virtual touchpoints with nursing and clinic staff will continue, most psychiatric and primary care visits will take place face-to-face within the clinic, with telehealth services reserved for extenuating circumstances.

## Next Steps



Following an additional six months of in-person clinic services, health outcomes (i.e., A1c, BMI, BP, symptom scale scores) will be collected and aggregated. These outcomes will be evaluated against initial and post-telehealth period findings; results will inform future program service structures and modalities.

## Key Takeaways

### Is Telehealth helpful for individuals with comorbid SMI and Diabetes?

- Key to provision of clinical services in pandemic and beyond.
- Facilitates access and continuity of care (i.e., individuals were more likely to keep appointments).
- Greatest impact to physical health indicators were among those with uncontrolled A1c's.
- Regardless of starting A1c, clients' health status remained relatively stable.

### What role did remote monitoring devices play in the provision of care?

- One-to-one training and support prior to distribution was crucial to client buy-in and participation.
- >Improved overall engagement in treatment.
- Real time monitoring of blood glucose readings enabled rapid adjustments to insulin when needed.

### Lessons Learned

Remote monitoring devices to measure blood pressure and weight were ineffective in monitoring health status due to use (and subsequent upload of results) by others in the household.

>Uniform definition and documentation of No-Show visits imperative.

Many individuals served struggled to make space for telehealth visit (e.g., lack of private space, background noise, multiple people in the household, connectivity issues).

Complex interplay of SMI, chronic medical comorbidities, and various psychosocial issues makes faceto-face service provision preferable for individuals whose symptoms and chronic conditions are not yet well controlled.



### Questions?

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