

CCI Tech Hub 5/3/2019

ChapCare CareMessage Utilization Patient Engagement

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About ChapCare

MISSION

To provide **Excellent**, **Comprehensive**, **Innovative** healthcare services accessible to the residents of San Gabriel Valley

- Federally Qualified Health Center (FQHC)
- 8 health center locations in the San Gabriel Valley
- Almost 16,000 unduplicated patients annually
- Excellent and Comprehensive Services:
 - Medical

- Dental Care
- Retail Pharmacy

- Telemedicine
- Optometry
- Podiatry
- Behavioral Health and Substance Abuse Counseling

Healthcare Landscape Change

Maximization to Optimization

Healthcare landscape is shifting from an encounter based episodic care to a value based payment system.

Passive to Active



- ChapCare adopted an Engagement Strategy to change the current passive patient and health center culture into an active patient engagement.
- Health Center that do not develop, implement and execute a Patient Engagement
 Strategy will be a casualty of the evolving healthcare landscape shift.
- There has been a great deal of discussion about how to engage patients in their care.
- Patient engagement has always been considered a good thing in practices and health care organizations.
- Today it is vital for health centers engaged patient in their care as active participants in order to bend the healthcare cost curve.

ChapCare's – Patient Engagement

Patient engagement is not just patient communication or education; nor is it simply implementing online patient portals.

True patient engagement refers to:

- 1. The knowledge, skills, ability, and willingness of patients to manage their own and family members' health and care;
- 2. The culture of the health care organization that prioritizes and supports patient engagement; and
- 3. The active collaboration between patients and providers to design, manage and achieve positive health outcomes.

Successfully achievement of Patient Engagement

Five Key Elements

- 1. Define organization's vision for patient engagement.
- 2. Create a culture of engagement.
- 3. Employ the right technology and services.
- 4. Empower patients to become collaborators in their care.
- 5. Chart progress and be ready to change and adapt.



CareMessage Use Cases

<u>Health Insurance</u> <u>Appointment</u> Reminders

Utilized by Outreach Department for health insurance enrollment and annual renewals

Patient Outreach

Group Outreach supports patient through-put through management of new member IPA list

Health Education

Texting education program for chronic disease patients

Patient Retention

Group Outreach used for clinical indicator reminders and management of patients lost to care list (1 year w/o a visit) ChapCare utilizes CareMessage:

- Engage,
- Assist staff manage patients health needs
- and educate at all stages of the healthcare continuum!

Research - Results

UC-Berkeley/CareMessage

- September 2015 February 2016
- Diabetes text-message education program for lowincome, mostly Latino patients at ChapCare's health Centers
- Produced a clinically-meaningful improvement in glycemic control.
- Patients who were more engaged with the program experienced greater HbA1c improvement.
- Interviews with patients revealed that the program provided both instrumental and emotional support.
- Interviews with staff identified that implementation was facilitated by the ability to reach a large number of patients, making it feasible for a resource-limited community clinic.





Key Findings

- with the program experienced greater improvements to HbA1c.
- 3.

Background

- **29.1 million** Americans have diabetes¹
- Prevalence among Latinos is almost **double** that of non-Latino whites ²
- Earlier research has found:
 - Some evidence that text messaging programs can reduce HbA1c ^{3,4,5}
 - But patient engagement and outcomes tend to be worse among lowincome Latino populations ^{6,7,8}

Research Questions

- Is a text messaging program tailored primarily for **low-income Latino** diabetic patients associated with improved glycemic control, body mass index (BMI) or blood pressure?
- 2. What **facilitators and barriers influence implementation** of the program for patients and clinic staff?

Study Design

Mixed-methods quasi-experimental design

- Setting: diabetic patients attending two federally qualified health centers (FQHCs) in Los Angeles, from Sept. 2015-Feb. 2016
- Intervention group (n=50) received **12-week**, bidirectional diabetes education text-messaging program in Spanish or English (77% enrollment)
- Comparison group (n=50) was constructed from diabetic patients attending the same clinics during the same period

Data Collected	Baseline	Follow-up
Intervention Group Only		
Diabetes-related distress (PAID-5)	V	v
Messages sent and response rates		V
Program satisfaction & feedback		v
Comparison & Intervention Groups		
Demographics	V	
Clinical outcomes	v	V
Clinic Staff		
Feedback on implementation		v

Messagin CareMessage YES or NO

areMessage:

Quantitative analysis (using Stata 13):

- Comparison of baseline characteristics with t-tests and chi-squared tests
- Differences in clinical outcomes between groups were estimated using individual fixed effects regression models
- Population-averaged linear models were estimated with generalized estimating equations to identify differential effects of patient engagement on outcomes among the intervention participants

Qualitative analysis:

- Transcription and translation (as needed) of interviews
- Iterative codebook development and coding of transcripts using Atlas.TI
- Identification of common themes and frequencies

"Worrying About Me": Improved Diabetes Care Management Through a Text-Message Intervention for Low-Income Patients

Jessica L. Watterson, Hector P. Rodriguez, Adrian Aguilera and Stephen M. Shortell

1. A diabetes text-messaging program for low-income, mostly Latino patients produced clinically-meaningful improvements in glycemic control. Patients who were more engaged

Interviews with patients revealed that the program provided both instrumental and emotional support.

Interviews with staff identified that implementation was facilitated by the ability to reach a large number of patients, making it feasible for a resource-limited community clinic. Staff and patient recommendations to improve the program include integration into in-person clinical care and tailoring the program to baseline patient knowledge.





• Key facilitator: staff stated that the text-messaging program allowed them to provide health education to patients using relatively few resources, making

Key barrier: staff explained that registration was done by volunteers, and clinical care providers were not involved, limiting the integration of the program into

• Include more clinical care staff to increase "standing" of program

Tailor the program to patients' baseline diabetes knowledge

• To strengthen causal inference, future research should assess the effect of the program in this patient population using a randomized trial design

Future studies should also examine the integration of patient responses to messages into clinical workflow, as the findings suggest an added benefit

The tradeoffs of impact, enrollment and reach for **in-person vs. automatic** enrollment should be assessed to determine any impact on effectiveness of

Given that the findings suggest greater benefits for more engaged patients, future research should test strategies to encourage participation (e.g.,

Centers for Disease Control and Prevention (CDC). National Diabetes Statistics Report: Estimates of Diabetes

2. Beckles G, Chou C. Disparities in the Prevalence of Diagnosed Diabetes — United States, 1999–2002 and

3. Arambepola C, Ricci-Cabello I, Manikavasagam P, Roberts N, French DP, Farmer A. The Impact of Automated Brief Messages Promoting Lifestyle Changes Delivered Via Mobile Devices to People with Type 2 Diabetes: A Systematic Literature Review and Meta-Analysis of Controlled Trials. J. Med. Internet Res. 2016;18:e86. 4. Saffari M, Ghanizadeh G, Koenig HG. Health education via mobile text messaging for glycemic control in adults with type 2 diabetes: A systematic review and meta-analysis. Primary Care Diabetes Europe;

5. Boren SA, Krishna S. Diabetes Self-Management Care via Cell Phone: A Systematic Review. J. Diabetes Sci.

6. Nelson LA, Mulvaney SA, Gebretsadik T, Ho YX, Johnson KB, Osborn CY. Disparities in the use of a mHealth medication adherence promotion intervention for low-income adults with type 2 diabetes. J. Am. Med.

7. Humble JR, Tolley EA, Krukowski RA, Womack CR, Motley TS, Bailey JE. Use of and interest in mobile health 8. Burner ER, Menchine MD, Kubicek K, Robles M, Arora S. Perceptions of successful cues to action and

opportunities to augment behavioral triggers in diabetes self-management: Qualitative analysis of a mobile

The authors wish to acknowledge CareMessage and ChapCare for implementing the program, sharing their data



Epic : CareMessage Integration

<u>Clinical Appointment Reminder Integration</u>

- With OCHIN Epic, clinical appointment reminders will be integrated with CareMessage
- <u>Launch Date</u>: Summer 2018
- Will allow for automated clinical appointment reminders
- <u>Benefits</u>: Decrease no-show rate by facilitating appointment reminders earlier (currently 48 hours before patient visits via phone) and in greater frequency

ChapCare Mobile Systems Collaborations

PointCare

Talking Survey

ICH HEALT

A web-based application used for health insurance screening and enrollment, creation of an individual health insurance record for each patient/consumer, and robust data reporting.

Utilized via tablets to conduct robust patient satisfaction surveys and mini-surveys.

Coming Soon (in Summer 2018). Will integrate with OCHIN Epic via an automated process to make Lyft rides available to patients to attend their medical appointments.



The healthcare industry is experiencing a major shift towards **value-based care**, which is bringing challenges for both **patients and providers**



Imagine a world where patients are **empowered** to prioritize their health, and providers use their knowledge of patient behavior to provide **better quality of care**

What sets CareMessage apart





Our commitment to research & outcomes



Hyper-focused on the high-need patient

Flexible technology & seamless interoperability

A Unique Combination

PEOPLE

Expert staff that acts as advisors and consultants in content development and delivery



PRODUCT

User-friendly interface that allows for easy creation and delivery of messages and campaigns

CareMessage Features



Reduce No-Show Rates Fill Gaps in care through preventive care outreach Automated disease management for high risk patients One-to-one Communication with patients



Thank you