

Closing the Equity Gap in Hospital-to-Home Care Transitions with Automated Post-Discharge Calls, Text Messages, and Tailored Outreach

Background

The Care Transitions Outreach Program

Post-discharge calls are recommended as part of comprehensive care transitions programs, because they reduce patient anxiety and improve clinical outcomes.¹

Since 2013, UCSF has deployed a hospital-wide automated, multilingual post-discharge phone call program as part of the Care Transitions Outreach Program (CTOP). Patient-reported post-discharge concerns are first identified via automated telephonic outreach. Patients who identify a concern receive a call from a nurse to provide symptom triage, teaching, care coordination, and referrals to social work, pharmacy, and/or patient relations.



For certain 'at-risk' patients who fail to answer the automated call, a nurse screens and manually calls those who have not already been contacted by another clinician.



Disparity in Reach Rates

While post-discharge phone calls are a best practice, they are resource-intensive and may not reach patients equitably. Studies have shown that adding a text message option to postdischarge programs can increase post-discharge follow-up in surgical and established primary care patients, but this approach has not been tested in other at-risk populations.²⁻³

In 2022, CTOP called ~27,000 patients, reaching 78% of all patients. Black and/or African American (B/AA) patients had a markedly lower 66% reach rate.



Objectives

We aimed to test our hypothesis that patients who do not engage with the automated call might be more likely to respond to other forms of outreach.

To improve overall reach rates and to address the identified inequity, we developed a tailored outreach escalation approach.



Results



Overall Reach Rate Adding text messages increased the overall reach rate 5%

Care Transitions Outreach Program, Office of Population Health at University of California, San Francisco Aurora Snyder, MAS, BSN, RN; Margaret Wheeler, MS, BSN, RN

Receives Methods automated call Step 1: Designed and Step 1: Text Reached Not reached integrated a text **Message Option** message option with the same questions as the Indicates need for a Does not indicate **Receives Text** Hi, this is UCSF Health with important questions about your or need for a callback automated call and callback Message your family member's health. Please reply STOP to translated into the same unsubscribe, or select a language to proceed with this message: languages. Reply 1 - English: Step 2: Manual Reached Reply 2 - Spanish; Reply 3 - Cantonese Outreach Step 2: Leveraged Manual Outreach Criteria existing process for Reply 1 - If you or your family member were recently discharged Does not meet Manual screening and calling from UCSF Age 85 years and Older Outreach Criteria Reply 2 - If you would like us to unreached patients, reach you later Reply 3 - If we have reached the adding health equity Primary Language other than wrong number. English criterion for manual Home Health Ordered at outreach to Black/AA Thanks. Caregivers and parents, Discharge respond on behalf of the patient patients Black/African American - We want to know if you are Patients loing well or if you need help

Black/AA Reach Rate

For Black/AA patients, adding text messages increased the reach rate 5%. Adding a personal call further increased the reach from 71% to 75%

Impact of Increased Reach Rate on Screening Volume



Efficiency

Increasing overall reach rate with text messages reduced the volume needing to be screened for manual outreach (by ~ 1,400 patients annually).

This created capacity to screen and call all unreached Black/AA patients, without requiring additional RN hours.

Conclusions

- Patients were more likely to engage with the post-discharge follow-up program if they were sent a text message in addition to the automated phone calls.
- Black/AA patients were more likely to engage with the program if they received a manual call from a nurse.
- While the text message option increased engagement overall, manual calls were required to improve equitable engagement.
- Operational efficiency afforded by leveraging technology created a sustainable intervention to continue addressing the reach rate disparity

References

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