

Using Artificially Intelligent Text Messaging Technology to Improve American Heart Association's Life's Essential 8 Health Behaviors (Chat 4 Heart Health)

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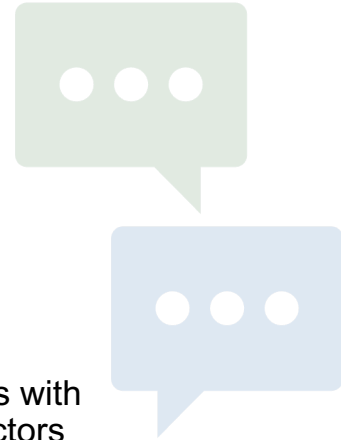
Objective






Improve control of cardiovascular disease risk factors using a multilevel intervention leveraging mobile phone-based text messages integrated within healthcare systems to improve control of the American Heart Association's Life's Essential 8 (LE8) lifestyle factors

Strategy

- 5-year multilevel intervention to test comparative effectiveness of 3 strategies:
 - Generic text messages
 - Interactive AI-based chatbot text messaging
 - Uses evidence-based communication strategies with attention to patient context and sociocultural factors that influence self-management
 - Interactive AI-based chatbot text messaging plus proactive pharmacist management



Setting

-  Denver Health and Hospital Authority
-  Salud Family Health Centers
-  STRIDE Community Health Center



Patient identification and enrollment

Patients meeting inclusion criteria identified through EHR

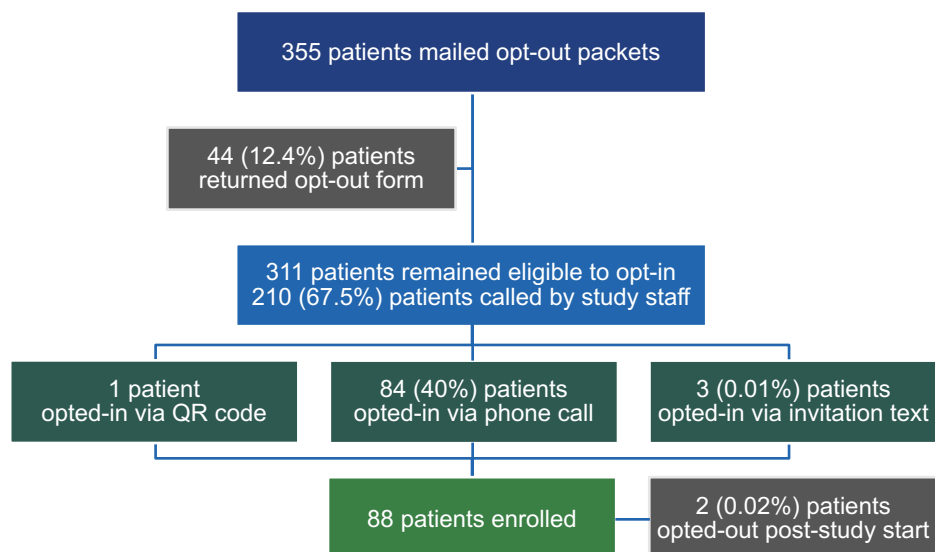
Staff mail patient a packet

- Study info, opt-out form, opt-in form with QR code and phone number

Staff called patients who did not opt-out or opt-in

- Patients not reached were texted an invitation to participate

Enrolled patients can opt-out any time by texting STOP



Barriers/challenges

- FCC regulatory change that impacts the study's ability to use an opt-out enrollment approach

Solutions/lessons learned

- Flexibility in study design