HeartHome: Adapting home-based cardiac rehab to increase access & reach for underserved populations

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Background

- While evidence suggests that cardiac rehabilitation (CR) can empower patients to adopt healthier behaviors and reduce CVD risk, cardiac rehabilitation (CR) is woefully underutilized.
- Home-based CR (HBCR) models have the potential to overcome barriers to CR access.
- However HBCR models often lack social support and face-to-face monitoring/communication.

Therefore, we are designing an adapted model of HBCR that blends center-based cardiac rehab with home health care.

Methods

- We reviewed the literature to identify core components of and gaps in HBCR models.
- We brought together expert clinicians, researchers, and stakeholders to design a person-centered intervention for a complex organizational system.
- Core HeartHome intervention components were derived from American Heart Association guidelines.
- Process mapping was used to understand local CR processes and identify barriers and facilitators.
- An implementation team helped design a plan to embed and integrate HeartHome into the system, and engage patients, clinicians, and stakeholders.
- Nurses were trained in CVD care management and prevention, home care, group facilitation, and behavioral modification.

Results

The adaptation process resulted in a nurse-driven CR program that can be completed at home. Program adaptations required detailed planning and collaboration across complex organizational boundaries:



Implications for D&I Research

HeartHome has elucidated several strategies for adapting a complex evidence-based intervention spanning multiple organizations and systems. This process helped identify active ingredients and essential components for a successful HBCR program.

Adaptations of complex interventions require detailed planning and collaboration across multiple organizations to engage stakeholders.







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Next Steps Guided by the RE-AIM framework, we are in the process of pilot testing HeartHome, our newly adapted model of home-based cardiac rehab.

The HeartHome Team: Sidney Smith, Mark Toles, Mary Wangen, Alberta Tran, Meriel McCollum, Jennifer Leeman



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Orientation		Medication Management
Nutrition		Smoking Cessation
Physical Activity	\bigcirc	Communication
Stress Management	P	Diabetes
Wrap-Up		Cardiovascular Disease
Goal Setting	A	Physical Activity 2
Check-In Calls	2	Moving Forward

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Intentional Text Message Reminders

HeartHome Intervention Material



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