



Nonpharmacologic Pain Management in Federally Qualified Health Center Primary Care Clinics

Pragmatic and Implementation Studies for the Management of Pain (PRISM)





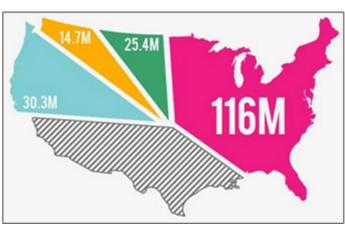


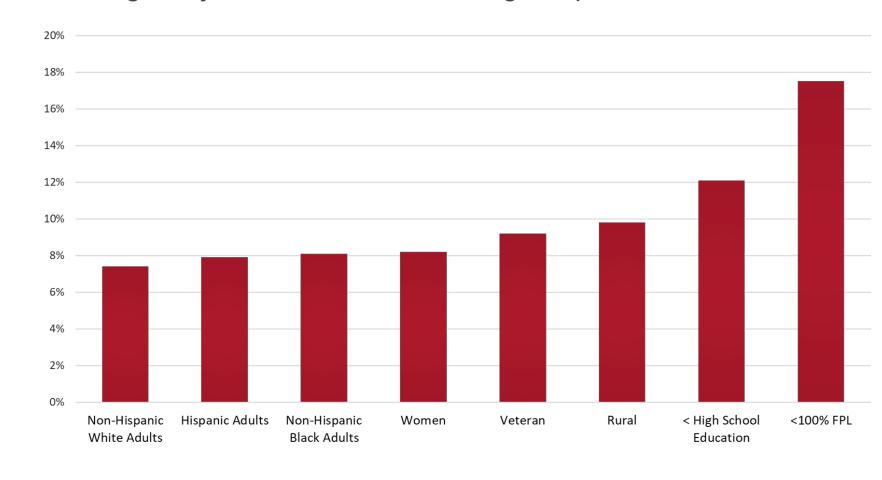


Pain in America

Age-Adjusted Prevalence of High Impact Chronic Pain









Community Health Centers

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1 in 5

67%

20%

37%

24%

- 114		UTAH
	Residents of Rural Communities	1 in 2
133	At or Below the Federal Poverty Level	66%
	Uninsured	45%
† †	Hispanic/Latino Ethnicity	49%
	Communicate in a Language Other Than English	37%



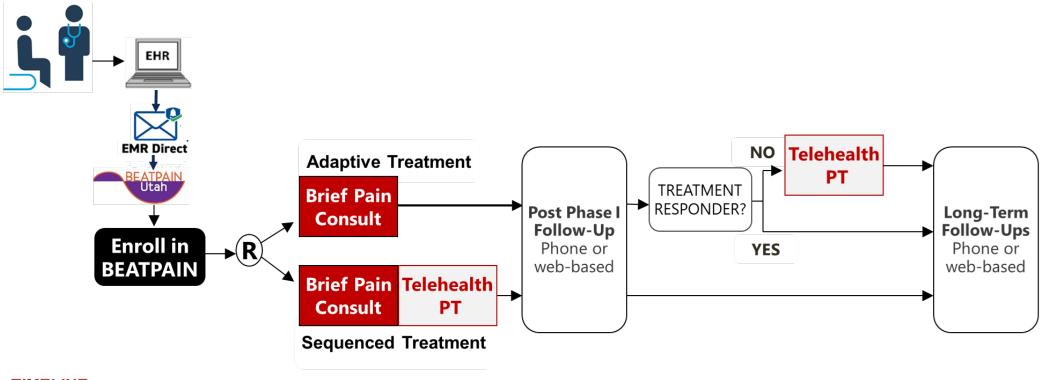
Nonpharmacologic Pain Management in Federally Qualified Health Center Primary Care Clinics

BMJ Open Protocol

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Goal: Improve back pain management for persons with chronic back pain in Utah Community Health Centers through accessible and effective nonpharmacologic care.

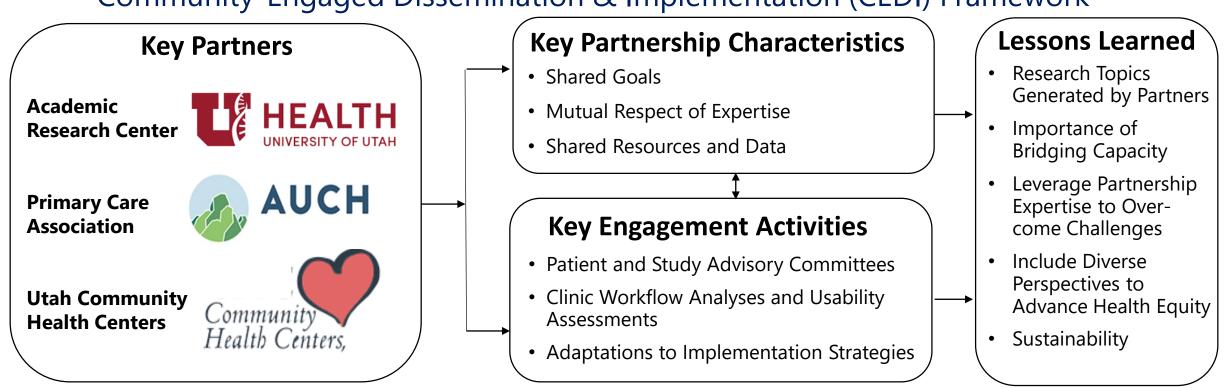




Mission: Bring communities and researchers together to create long-term solutions to prevent cancer, chronic and infectious disease, and improve health among underserved populations.

Vision: Equity in cancer and chronic disease incidence, morbidity, and mortality in Utah/Mountain West.

Community-Engaged Dissemination & Implementation (CEDI) Framework



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Key CEDI Methods

- Consistent partnership model topics reflect priority domains for CHCs
- Efforts to implement new procedures with clinic staff and patients informed by *implementation mapping*
- Clinical workflow and usability analyses from a sociotechnical perspective
 - Manage IT considerations to connect with patients
 - Understand how clinicians interact with IT and be ready to troubleshoot technical issues.
- Adaptations to decentralize research and clinical procedures

Implementation Mapping

A systematic process for developing strategies to improve the implementation of EBIs in real-world settings.

IMPLEMENTATION MAPPING				
STEP 1	STEP 2	STEP 3	STEP 4	STEP 5
Needs Assessment	Identify Performance Objectives/ Determinants	Select Implementation Strategies	Produce Implementation Materials	Define Implementation Outcomes

WHO?

Identify Implementers and Understand Needs & Assets

WHAT and WHY?

Determine Who Needs to do What for Change to Happen

HOW?

Choose and Operationalize Implementation Strategies for all Implementers

IS IT WORKING?

Evaluate Outcomes

FROM: Fernandez M, et al. Implementation mapping: using intervention mapping to develop implementation strategies. *Front Public Health.* 2019;7:158. Walker TJ, et al Using Implementation Mapping to develop and test an implementation strategy for active learning to promote physical activity in children: a feasibility study using a hybrid type 2 design. *Imp Sci Commun.* 2022;3:26



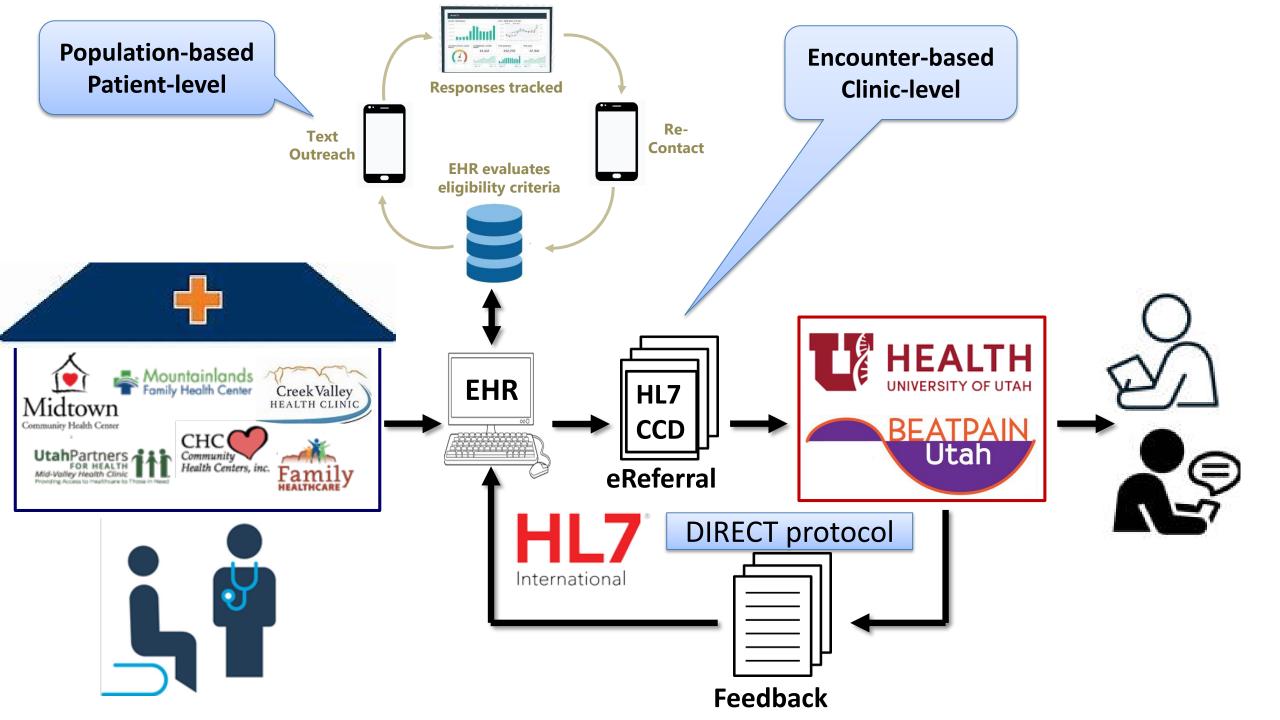
Implementation Mapping – Patient Level

	Issues Encountered	Facilitators Identified	Strategies Implemented
Patient Access to Care	 Less predictable work hours Multi-generational homes or housing instability Limited tech for video visits 	 Mobile phones are common Respect for participants' time, being flexible, builds trust 	 Offer sessions outside regular work hours Flexible, non-judgmental (re)/scheduling
Adaptations to PT Interventions	 Limited community resources for physical activity More likely to experience stressors contributing to HICP 	 mHealth resources are available to support patients Interventions for active coping with relaxation, mindfulness amenable to telehealth delivery 	 Integrate mHealth to support education and exercise interventions Integrate cognitive behavioral techniques
Patient-PT Working Alliance	Remote delivery, language, culture are challenges in developing a working alliance	Motivational interviewing is effective for building self-efficacy for behavior change using telehealth	Train PTs in motivation and problem-solving (MAPS)
Culturally Competent Care	 Patients and PTs often have different cultural backgrounds Patients' pain beliefs and coping preferences may be mismatched to evidence-based principles 	 Care that respects participants' cultural perspectives helps build trust in PT MAPS delivery can reduce risk for implicit bias from provider 	 Train PTs in cultural competencies and awareness of their own cultural background Training in person-centered MAPS delivery



Implementation Mapping – Clinic/Provider Level

	Issues Encountered	Facilitators Identified	Strategies Implemented
Clinic Staffing Levels	 Challenges with turnover, COVID- related Expanding patient demand 	 Brief updates in staff meetings Long-standing relationship with primary care association (AUCH) 	Develop a population health recruitment strategyWork through AUCH liaisons
Variability in EHR systems	 3 different EHRs used by Utah Health Centers Variable functionality	Standards-based protocolsAcademic IT support	Direct protocol for secure, bi- directional messaging between BeatPain and EHR
Trust in University Researchers	Concerns about sustainable research commitment	Established partnership model through Center for HOPE	 Only clinic priority research topics advance Regular communication and updates
Direct Outreach to Patients	 Concerns about overwhelming patients with messages and invitations 	Communication among study teams through HOPE	Coordinate text messaging campaigns among studies



Lessons Learned

- ✓ Engaging lower resource, rural communities requires a consistent partnership model
- ✓ Having a trusted partner in the Primary Care Association representing FQHCs has been essential
- ✓ The UG3/UH3 mechanism beneficial to have time to build trust and build infrastructure.
- ✓ Bridging IT capacity is critical to tie disparate EHR systems together and create sustainable infrastructure.

Multi-Disciplinary Team Science



University of Utah

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 Biostatistics
- Kelly LundbergPsychiatry
- Guilherme Del Fiol
- Bryan Gibson
- Leticia Stevens
 Biomedical Informatics
- Julie Fritz
- Anne Thackeray
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AUCH

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- Courtney Dinkins
 Leadership
- Emily Bennett
- Tracey Siaperas
 Care Coordination
- Shlisa HughesQuality Improvement



Center for HOPE

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- Jennifer Wirth
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