Establishment of a multi-sector partnership to implement a multilevel intervention for blood pressure control among African Americans on the South Side of Chicago

Allison J. Carroll, PhD, Nivedita Mohanty, MD, Danielle Lazar, DrPH, Rebecca Johnson, PhD, Ricky Watson Jr., BS, Jennifer Heinrich, MHA, Stacy Tessler Lindau, MD, MAPP, Theresa L. Walunas, PhD, Emily Abramsohn, MPH, Elizabeth Pinkerton, MPH, Linda Rosul, BA, Adriana Quintana, MPH, Alice Eggleston, PA-C MPH, Abbey Ekong, MA, Abel N. Kho, MD MS, Paris Davis, PhD MBA, & Justin D. Smith, PhD

Background

- Successful implementation of multilevel interventions promoting health equity requires coordination and teamwork with multi-sector academic and community partners.
- **Purpose**: to describe the operationalization of our partnership to implement a multilevel intervention for blood pressure (BP) control in the Community Intervention to Reduce Cardiovascular Disease in Chicago (CIRCL-Chicago) study.

Methods

- **CIRCL-Chicago**: One of 7 implementation research institutes funded under the Disparities Elimination through Coordinated Interventions to Prevent and Control Heart and Lung Disease Risk (DECIPHer) Alliance (RFA-HL-20-003). CIRCL-Chicago aims to test the effectiveness and implementation of an evidence-based multilevel intervention for BP control in association with faith-based organizations on Chicago’s predominantly African-American South Side neighborhood.
- **Partners**:
  - Faith-based organizations (FBOs)
  - Federally qualified health center (FQHC) networks
  - Academic entities
  - Community members
- **Evidence-Based Intervention**: Kaiser Permanente hypertension bundle [1,2]
- **Process**: The following activities were undertaken during CIRCL-Chicago’s UG3 phase to establish the partnership roles and communication networks prior to the UH3 implementation phase [3,4].
  - Expert statistical and trial design guidance provided by the research coordinating center and NIH scientists
  - Work within DECIPHer subcommittees
  - Focus groups with FBOs and FQHC members
  - A small pilot study

Implications for D&I research

- Working and integrating across faith-based, healthcare and academic sectors for community-based implementation required defining the unique organization and individual roles across all intervention components, with the academic entities providing support for managing the registry, organizing and sharing data with FBOs and FQHCs, and assessing adherence to best evidence.
- The CIRCL-Chicago partnership is an exemplar for future community-based implementation of multilevel interventions promoting health equity.

References


**Acknowledgements**: This research is supported by grant UG3HL154297 from the National Heart, Lung, and Blood Institute to Abel Kho, J.D. Smith, and Paris Davis. We wish to thank the rest of the members of the CIRCL-Chicago team and all of our community partners. We also wish to thank the other grantees in the DECIPHer Alliance and the scientists at the National Institutes of Health who contributed to the development of the protocol described in this paper. Disclosures: Dr. Stacy Lindau was the founder and owner of a social impact company, NowPov, LLC, which was acquired by Unite USA Inc. in 2021. Dr. Lindau is currently an unpaid advisor to and holds stock in Unite USA Inc. No other authors have any conflicts of interest to disclose.

Contact: Allison Carroll. Allison.carroll@northwestern.edu