Expanding the ePCT Ecosystem to Better Serve Minoritized Communities

Cherise Harrington, PhD, MPH North Carolina Central University



Panelists

- Eliseo Pérez-Stable, MD
 - Director, NIH National Institute on Minority Health and Health Disparities
- Stephanie Fitzpatrick, PhD
 - Maternal OutcoMes Program: Testing Integrated Maternal Care Model Approaches to Reduce Disparities in Severe Maternal Morbidity
- Sebastian Tong, MD
 - Adapting and Implementing a Nurse Care Management Model to Care for Rural Patients with Chronic Pain

Session Goals

- Discuss the increasing burden on minoritized communities and health systems serving them
- Review the makeup of NIH Collaboratory Trial sites (academic medical centers, community hospitals, etc.) and explore how to expand the types





Expanding the ePCT Ecosystem to Better Serve Minoritized Communities

May 10, 2024

NIH Pragmatic Trials Collaboratory Steering Committee Bethesda, Maryland

> Eliseo J. Pérez-Stable, M.D. Director, National Institute on Minority Health and Health Disparities <u>eliseo.perez-stable@nih.gov</u>



What Can Science Do to Reduce Inequities?

- Be an engine for promoting diversity of the scientific and clinical workforce
- Cultivate community engagement and build trust for sustainable relationships
- Standardized measurement of social and demographic factors that affect health
- Facilitate discovery science with big data
- Implement what we know can work to promote health equity



Designated Populations with Health Disparities

- •Racial and ethnic minorities –Census
- •Less privileged socio-economic status
- Underserved rural residents
- •Sexual and gender minorities (LGBTQ+)
- Persons with disabilities
- •Social disadvantage results in part from being subject to discrimination or racism, and from being underserved in health care





Health Disparities Research

- Race and ethnicity and SES are the fundamental drivers of health disparities science
- Intersectionality of race and ethnicity and SES with rural populations, SGM persons, and people with disabilities
- Apply intersectionality to all demographic factors and clinical conditions
- Establish aspirational goals for populations based on national metrics and not assume Whites have best outcomes





The Economic Burden of Racial, Ethnic, and Educational Health Inequities in the U.S., 2018 Dollar estimates are based on excess medical care expenditures, lost labor market productivity, and premature death using national data (NCHS, BRFS, MEPS) compared to a health equity goal



Contract No: 75N94021C00002





LaVeist, T., Pérez-Stable, EJ ...Gaskin D., <u>JAMA.</u> 2023



Assessment of Demographic Factors and Social Determinants of Health

- OMB-Census categories for race and ethnicity
- Educational attainment college degree
- Sexual orientation, gender identity
- Disability status based on function
- Community measure where do patients live
- Access to food, jobs, transportation, housing, green space, safety
- Impute data from census tracts using address





PhenX Toolkit SDOH Measures Collection



Affordability accessing dental care and prescriptions, health care communications, internet access, water quality access, neighborhood walking environment, housing instability, minimum wage, residential concentrations of income

- Core Collection-16 protocols
- Individual SDOH-22 protocols
- Structural SDOH-15 protocols

Adoption of Common Data Elements (CDEs) and standard measures will promote and facilitate data harmonization and cross-study analysis

https://www.phenxtoolkit.org/collections/view/6





Perceived Unfair Treatment Due to Race or Ethnicity

In health care visits over the past 3 years, have you ever felt that a doctor, health care provider, or other staff treated you unfairly or with disrespect because of your race or ethnic background?

American Indian or Alaska Native	12%
African American	18%
Asian	10%
Latino/a	11%
White	3%

Kaiser Family Foundation Survey on Racism, Discrimination, and Health, December 2023





Need a Population Health Approach

- Define the catchment area
- Understand the population and community
- Consider physical space and environment
- Apply metrics that are sensitive
- Evaluate outcomes by race and/or ethnicity, SES, and other demographic factors
- Address inequities based on regional data





Challenge of Multiple Chronic Conditions

- Prevalence of ≥2 chronic conditions: 33% of adults 45-64 y and 64% of those ≥65 y
- Adults ≥40 years: 69% take a prescription drug and 22.4% use at least five Rx
- Research almost always focuses on one condition at a time
- Added complexity of preventive measures
- Lack of integration of health care services, under-value of primary care and behavioral





NIMHD Activities Related to Pragmatic Trials

- Workshop on Inclusive Participation in Clinical Research – March 30-31, 2023
- Community Engagement Alliance (CEAL) Network for Community-Engaged Research – Morehouse/HCN and Ochin
- RCMI Clinical Research Network: Howard, N Carolina Central, San Diego State, U Hawaii
- Value placed on communication skills and sustaining a trusting relationship





NIMHD Funding Opportunities with Pragmatic Clinical Trials Option

PAR-24-077 Addressing Health and Health Care Disparities among Sexual and Gender Minority Populations (R01)

PAR-24-053 Multi-sectoral Preventive Interventions That Address Social Determinants of Health in Populations That Experience Health Disparities (UG3/UH3)

PAR-24-059 Understanding the Impact of Healthcare System and Clinician Factors on Disparities in Maternal Morbidity and Mortality (R01)

<u>RFA-MD-24-003</u> Interventions to Address HIV-Related Comorbidities among Highly Affected Populations Experiencing Health Disparities (R01)





Equity Recommendations to Consider

- Emphasis on Patient-Clinician communication
- Engage community members and resources from the start on a partnership model
- Recognize and manage structural and interpersonal discrimination at all levels
- Leverage health IT and EHR to address equity
- Performance measurement: Risk, need Equity Quality Measure to reward systems



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MOMS CHAT & CARE STUDY

NINR R01NR021134

NIH Pragmatic Trials Collaboratory FTF Meeting May 9-10, 2024

HEALTH EQUITY

CDC Definition

State in which everyone has a fair and just opportunity to attain their highest level of health.

WHO Definition

Absence of unfair, avoidable or remediable differences among groups of people, whether those groups are defined socially, economically, demographically, or geographically or by other dimensions of inequality.

Stephanie's Remix Definition

Approach(es) that ensures everyone has a fair opportunity to achieve their full health potential.

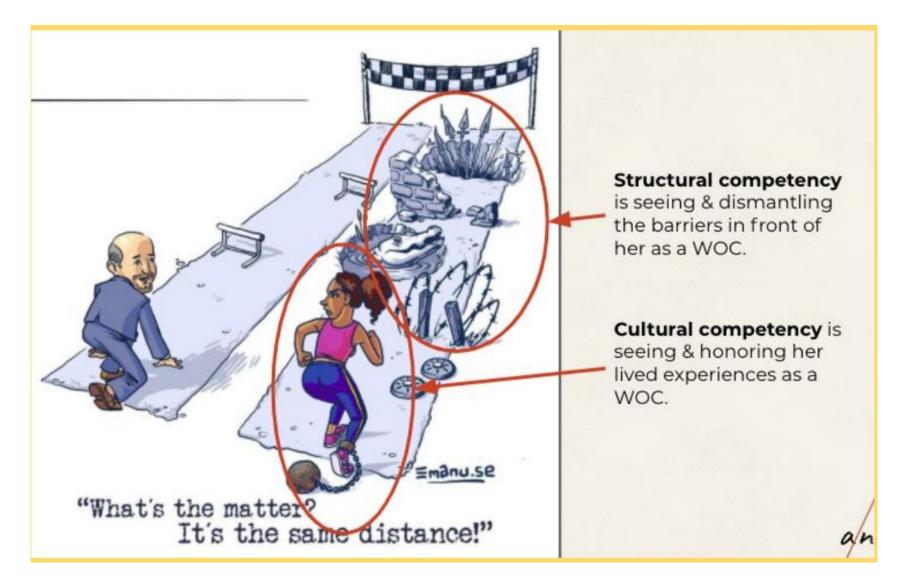
BACKGROUND

- Severe maternal morbidity (SMM) "unexpected outcomes of labor and delivery that result in significant short- or long-term consequences to a birthing person's health." (CDC)
- SMM increases the risk for re-hospitalization post-delivery, disability, and maternal mortality. [Black et al. J Womens Health. 2021;30(12); Admon et al. Obstet Gynecol. 2018;132(5)]
 - > BUT, most cases are avoidable if timely, appropriate care is provided.
- Black birthing people have the highest rate of SMM throughout the birthing continuum; [Liese et al. J Racial Ethn Health Disparities. 2019;6(4); Brown et al. Obstet Gynecol. 2020;136(5)]
 - 2 times more likely to experience SMM than non-Hispanic White birthing people, even with similar economic backgrounds and medical coverage [Howell et al. Obstet Gynecol. 2020;135(2); Howland et al. Matern Child Health J. 2019;23(3)]

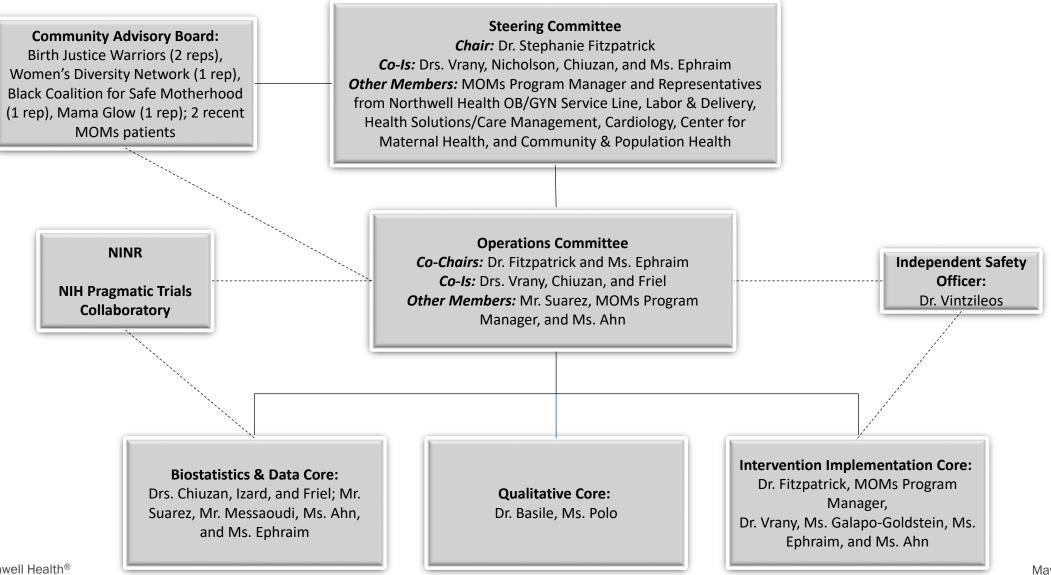
BACKGROUND – MATERNAL HEALTH INEQUITIES

- > Hypertensive disorders in pregnancy (e.g., preeclampsia) are the leading cause of SMM
 - Black birthing people are 3 times more likely to experience preeclampsia than non-Hispanic White birthing people
- Birthing people who experience SMM have smaller support networks and lower satisfaction with perceived support compared to birthing people who don't experience SMM
- Lack of medical coverage and transportation can delay and/or interrupt timely prenatal care and attendance at postpartum visits
- Food insecurity increases risk for pregnancy complications via increased stress and anxiety and poor health outcomes for the birthing person and the baby
- Poor access to affordable housing increases risk for SMM, especially among birthing people with low levels of education

TRAINING OF RESEARCH AND CLINICAL TEAMS



STUDY TEAM



RECRUITMENT MATERIALS (SENT VIA EMAIL OR MAIL)

Greetings,

We are inviting you to join the **MOMs Chat & Care Study.** This is a research study conducted by Northwell Health. The goal of this study is to understand how best to support Black women to ensure a healthy pregnancy, healthy birth, and healthy outcomes post-delivery. We are sending you this letter because you were identified as a person who is pregnant and receiving care at one of our Northwell Health Obstetrics clinical practice sites.



If you say yes to join this study, you will receive:

- Access to the Northwell Health Pregnancy Chats, an interactive digital resource that offers weekly insights and 24/7 access to support your needs throughout your pregnancy journey and beyond.
- Brief support from a post-partum care coordinator (virtually or by phone) after you deliver your baby who will make sure you receive the care you need when you need it after your baby arrives.
- A FitBit to wear and track your physical activity.

You may also receive:

- 12 one-to-one virtual health self-management and empowerment sessions with a trained MOMs care manager during your pregnancy to promote healthy birth outcomes.
- A home blood pressure cuff and monitor to track your blood pressure during your pregnancy and after delivery.

We will ask you to complete questionnaires about your level of social support, engagement in physical activity, and health by phone 2 times during pregnancy and 1 time after delivery. If you choose to join this study, we will pay you up to \$75 for your time answering questionnaires.

If you want to join this study: A study team member will call you to tell you more about the study and see if you want to participate. You can also call us at XXX-XXX. or email us at momschatcare@northwell.edu to find out more about the study.

Thank you for thinking about joining this study. We hope that you will join us in helping to improve the care and birthing experience for Black women everywhere.







STUDY WEBSITE

https://www.momschatandcare.com/

SOCIAL RISK SCREENINGS AND ADDRESSING HEALTH-RELATED SOCIAL NEEDS

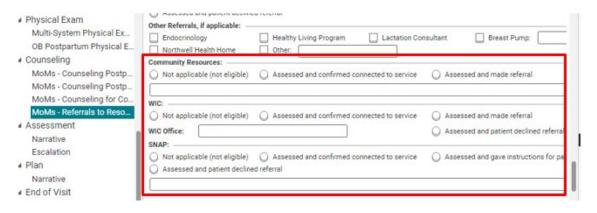
Social Risk Screener Administered via Chatbot, MOMs Team, Nurse/Social Worker on Admission

Domains:

Food

Transportation

- Housing
- Safety
- Financial hardships
- Support
- Frequency: 14- and 28-weeks gestation; labor and delivery;
 3-days postpartum; 5- and 12-weeks postpartum; 5, 7, 9,
 and 11 months postpartum



Referrals: Community Resources – in the text box indicate the specific adverse individual-level social determinants of health (e.g., food insecurity, housing instability, lack of transportation, lack of medical coverage/access, intimate partner violence, other financial hardships) AND which community-based organization or social service referred to

THANK YOU

<u>A</u>dapting and <u>I</u>mplementing a Nurse Care <u>M</u>anagement Model to Care for Rural Patients with <u>Chronic Pain (AIM-CP)</u>: *Expanding the ePCT Ecosystem to Better Serve Minoritized Communities*

Co-Pls: Sebastian Tong, MD, MPH; Kushang Patel, PhD, MPH

NIH Collaboratory Steering Committee Annual Meeting

May 10, 2024



DISCLAIMER

• None

UW Medicine

Our team

Investigative Team

- Kushang Patel, PhD, co-PI (gerontologist, epidemiologist, exercise expert)
- Dennis Ang, MD (rheumatologist, North Carolina site PI)
- Laura-Mae Baldwin, MD (practice-based research)
- Basia Belza, PhD, RN (nurse co-investigator, community engagement)
- Andrew Humbert, PhD (biostatistics)
- Tom Ludden, PhD (informatics)
- Stacy Shaw, PhD (clinical psychologist)
- Kari Stephens, PhD (clinical psychologist)
- Mark Sullivan, MD, PhD (pain specialist)
- Hazel Tapp, PhD (practice-based research)

Partners

- Atrium Wake Forest Health
- Clearwater St. Mary's: Kelly McGrath, MD
- Healthwest: John Holmes, PharmD
- Providence Northeast: Caleb Holtzer, MD
- Rural Resources: Cheri Peterson

Research Team

- Karina Cortez, BS
- Elise Hoffman, MPH
- Brennan Keiser, MSW
- Ajla Pleho, MPH



Overall Objective

- To adapt and test a nurse care management model to provide comprehensive care for patients with chronic pain in rural communities
- Long-term: reduce geographic disparities in pain-related outcomes through dissemination of this comprehensive approach to chronic pain management



Care Management Model

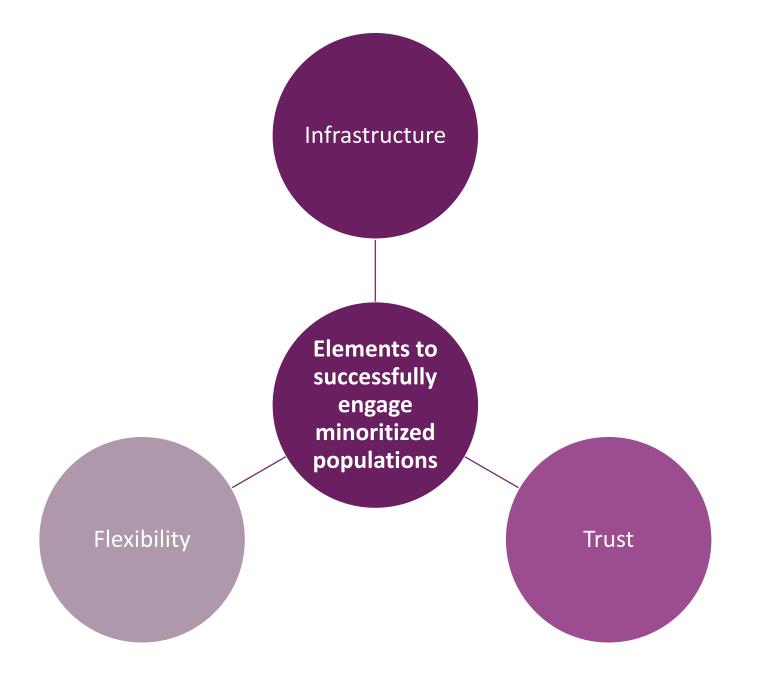




Intervention components

Individual component	Description
Care Coordination	 Assessing patients for social service, behavioral health and specialty care needs Linking patients with community resources Tracking and supporting patients when care received outside health system Coordinating behavioral health and specialty care Using PainTracker to develop goals of care, track progress and refine treatment plans
Cognitive Behavioral Therapy	 6-10 weekly to every other week sessions with care manager to develop strategies to change maladaptive cognition and behaviors around pain
Tele-Enhance Fitness	 Instructor-led, group exercise program for 1-hour, 2-3 times weekly remotely delivered program

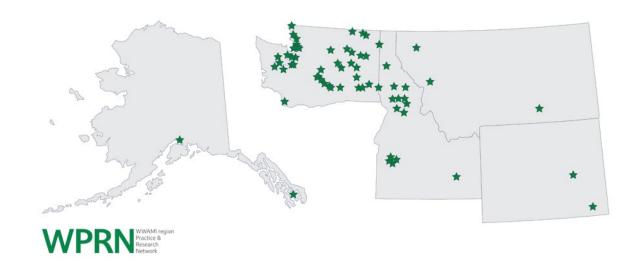


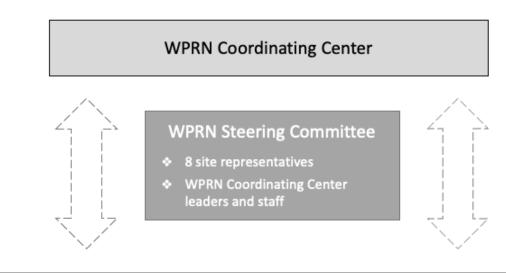


UW Medicine

Infrastructure

- 5-state practice-based research network
- Supported by NIH CTSA and CTN grants
- Practice input from concept formulation stage through conduct to dissemination



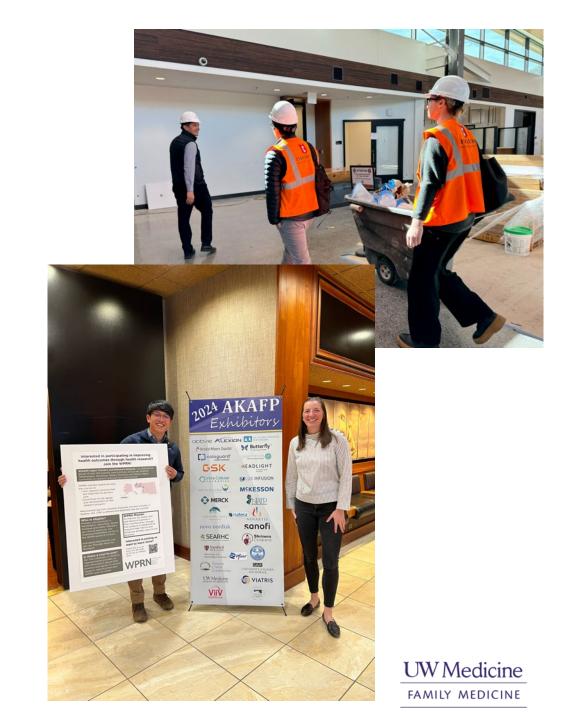


WPRN Member Practices (at least 1 WPRN representative per organization)



Trust

- Intentionality in research team members
- Longitudinal relationships
- Ex. Sustainable funding for model from previous project on chronic opioid prescribing



Flexibility

- Planned Community Consultation Studio
- Collaborating with community organization partners
- Deciding on core elements of intervention and being adaptable for other elements



THANK YOU!

- National Institute of Nursing Research (UG3NR020930)
 - Karen Kehl, PhD, RN, FPCN
 - Alexis Bakos, PhD, MPH, RN

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Let's Discuss....

