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Engaging women of color virtually: Cultural Impact of Treatment Delays among Women of Color with Uterine Fibroids

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ABSTRACT IMPACT: This study will showcase the importance of incorporating patient stakeholders in the development of an interview guide for a women of color with uterine fibroids, an understudied population. **OBJECTIVES/GOALS:** Black women and Hispanic/Latinas report having greater symptom burden from uterine fibroids (UF), non-cancerous neoplasms, compared to White women. These disparities may be linked to cultural factors resulting in treatment delays. The objective of this study is to provide insights to barriers and facilitators to timely treatment. **METHODS/STUDY POPULATION:** In partnership with the Fibroid Foundation, a UF advocacy organization, we plan to conduct a virtual community engagement (CE) studio to serve as a first step for a pilot study with a national cohort of Black women and Hispanic/Latinas who receive treatment in the United States for UF. The studios will include a presentation about UF treatment options and a facilitated discussion. The CE team will use past research and constructs from Model of Improvement and Health Belief Model to develop materials for the studio. A qualitative researcher will guide the discussion, a note-taker will take notes, and they will thematically code the notes. The results will be used to create and implement a cross-sectional in-depth qualitative study with a national sample. **RESULTS/ANTICIPATED RESULTS:** We hypothesize that timely treatment will be impacted by cultural factors, such as health literacy in uterine fibroids and menstruation. We expect that detailed feedback from this national cohort will contribute to greater insight to the experiences of women of color with UF and address barriers and facilitators to treatment. We anticipate the anecdotes will provide information about the influence of culture in seeking treatment for UF. We will utilize this experience to understand the impact of a virtual CE studio in elucidating open discussion among women of color on a challenging and personal topic. **DISCUSSION/SIGNIFICANCE OF FINDINGS:** Using CE process with advocates and research partners attains a deeper understanding in the development of an interview guide to examine the cultural impact on the treatment of UF for women of color. Understanding cultural barriers and facilitators can help overcome treatment delays in UF along with other gynecological diseases.

Education/Mentoring/Professional and Career Development

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Racial/ethnic disparities in antibiotic-resistant infections: Knowledge gaps and opportunities for educational interventions

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ABSTRACT IMPACT: By identifying clear gaps in our knowledge of racial and ethnic disparities in antibiotic-resistant infections, this

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research is informing the design of (a) community-based interventions and (b) patient-centered research studies that we are currently leading to address these disparities and improve human health. **OBJECTIVES/GOALS:** Antibiotic resistance (AR) is widely considered to be the next global pandemic. As with COVID-19, the potential for AR to disproportionately impact racial/ethnic minorities is a major concern. Our goal was to identify gaps in knowledge of AR disparities in order to inform the types of interventions that might be most appropriate to address this. **METHODS/STUDY POPULATION:** We reviewed the literature to examine evidence of racial/ethnic disparities in (a) infections with the most concerning drug-resistant bacteria in the United States, and (b) underlying social-economic or behavioral factors that could contribute to such infections. We searched PubMed and Google Scholar to identify studies published in English between August 1973 - August 2020. We used keywords that included: antibiotic resistance, antibiotic-resistant infections, antibiotic-seeking behavior, prescription/non-prescription antibiotic use, antibiotic education, or health literacy AND race, ethnicity, or socioeconomic status. We screened all abstracts to identify US-based studies that assessed (a) or (b) above. **RESULTS/ANTICIPATED RESULTS:** We identified 11 studies investigating racial/ethnic disparities for 5 of the 17 drug-resistant bacteria flagged in the CDC's 2019 Antibiotic Resistance Threats Report. Black, Hispanic, and lower-income individuals were found to be at higher risk of some community-acquired antibiotic-resistant infections. We identified multiple factors that may contribute to disparities in AR-related morbidity and mortality, including reported differences in antibiotic use, higher likelihood of living in crowded/multigenerational homes, more frequent employment in potentially high exposure settings (e.g. slaughterhouses), lower health literacy, and more frequent underlying comorbidities, which increases risks for hospitalization and subsequent acquisition of drug-resistant infections. **DISCUSSION/SIGNIFICANCE OF FINDINGS:** Given the small number of studies on this topic, educational interventions that aim to raise awareness of this issue must target not only the public but also researchers. Community-based interventions that seek to address disparities in 'antibiotic resistance literacy' among minority and underserved groups could be particularly impactful.

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The Community Mentor for Scholars Program: Pilot Program Results

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ABSTRACT IMPACT: Strengthening investigator and community engagement to improve human health **OBJECTIVES/GOALS:** Community Engagement is one of the 14 core competencies for CT research defined by the CTSA Education Core Competency Work Group. To meet this, the UMN CTSI created the Community Mentor for Scholars Program with goals to: 1) train Scholars to engage stakeholders; and 2) provide community with formal mentoring training and linkages to researchers at UMN. **METHODS/STUDY POPULATION:** The CM Program was implemented over 12 months and includes four components. One, Scholars were trained in stakeholder identification and working with a community mentor (CM) through two seminars presented by expert faculty and staff. Two, CMs were identified, recruited, and matched with Scholars through a collaborative effort of our CTSI Education and Community Engagement cores. Three, Scholars