

193

### Beyond Independence: The Empowering Potential of an Assistive Technology Web App to Enrich the Lives of Older Latinos with Functional Disabilities

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**OBJECTIVES/GOALS:** The use of assistive technology (AT) devices is known to improve older adults' independence in daily activities. However, little is known about the impact of using an AT web app in older Latinos' life. This study aims to evaluate the value and usefulness of the My Assistive Technology Guide web app among older Latinos with physical function disabilities. **METHODS/STUDY POPULATION:** We employed a convergent parallel mixed-method design with 12 community-living older Latinos from Puerto Rico. Researchers provided training in the use of My Assistive Technology Guide, a Spanish evidence-based web app with detailed information on 97 AT devices and videos of older people using them. Participants were encouraged to use it for 30 days. Afterward, we collected quantitative data using the subjective quality domain of the User Mobile Application Rating Scale (uMARS), followed by qualitative data through individual interviews. Quantitative data were analyzed with descriptive statistics and qualitative data with thematic content analysis. **RESULTS/ANTICIPATED RESULTS:** My Assistive Technology Guide web app received high ratings in the uMARS subjective quality domain (mean 4.5 [SD 0.5] out of 5), indicating that participants highly valued the usefulness of the web app. Qualitative data fell into four main categories: functional health, meaningful participation, autonomy, and personal growth. **DISCUSSION/SIGNIFICANCE:** The findings suggest that the AT knowledge provided by the My Assistive Technology Guide web app has the potential to enhance the quality of life of older Latinos in the face of the challenges posed by physical function disabilities as people age.

194

### Increasing COVID-19 vaccine uptake through community engagement: collaborative efforts among Cooperative Extension and Clinical and Translational Science Institutes

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**OBJECTIVES/GOALS:** The CDC-funded Program to Alleviate National Disparities in Ethnic and Minority Immunizations in the Community intersects two national networks that transform building trust in communities: Cooperative Extension Systems and Clinical and Translational Science Awardees, with the goal of

reducing vaccine hesitancy and increasing vaccine uptake. **METHODS/STUDY POPULATION:** PANDEMIC included North Central Florida; Greater Sacramento, California; Bronx, New York; St. Louis and the Ozarks, Missouri; rural Kentucky; and Minnesota. Our 10 Promising Practices (PPs) focus on the equitable distribution of COVID-19 vaccines and health information, with two detailing collaborative efforts to better achieve health equity: PP3) Bringing Services and Vaccines to People Where They Are & PP5) Creating Coalitions with Trusted Neighborhood Partners. CHWs and Extension Educators, trusted community members, work together to deliver culturally/linguistically diverse health messages in plain language in areas of high vaccine hesitancy and bring vaccines to people where they are. All outreach activities are tracked and categorized by PP affiliation. **RESULTS/ANTICIPATED RESULTS:** From November 2021 – August 2023, PANDEMIC has administered nearly 11,000 COVID-19 vaccines at over 2,500 outreach events. At events, Community Health Workers (CHWs) listen to community members to assess vaccine perceptions and health needs/concerns. We adapt messaging and outreach initiatives to promote vaccination through data analyses that help us understand perceptions. Responses are calculated for the populations of focus (PoF)–Latino/Hispanic, African American/Black, American Indian/Alaskan Native, Asian, Native Hawaiian/Other Pacific Islander) compared to others (Non-Latino/Hispanic White or unspecified race). Over 16,000 surveys were collected from November 2021 – August 2023 with 60% coming from the PoF. Key differences in perceptions will be shown along with other cross-site metrics. **DISCUSSION/SIGNIFICANCE:** PANDEMIC offers an innovative model for collaboration among CTSA and Cooperative Extension Systems to better understand community perceptions and support vaccination efforts and overall health promotion in communities of greatest need, with a focus on racial and ethnic minority communities and underinsured/uninsured populations.

195

### Race-related stress is associated with low weight and gestational age at birth in a prospective cohort study of pregnant Black persons\*†

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**OBJECTIVES/GOALS:** Low birth weight and preterm birth are significant contributors to infant mortality in the United States that disproportionately impact Black pregnant persons and their offspring. Although these outcomes are linked to chronic stress, the contribution of race-related stress remains largely understudied. **METHODS/STUDY POPULATION:** We investigated the effect of race-related stress on weight and gestational age at birth in a prospective cohort of 115 pregnant Black persons recruited at Grady Memorial Hospital in Atlanta, Georgia. The Index of Race-Related Stress Brief (IRRS-Brief), Perceived Stress Scale (PSS), and Stressful Events Questionnaire (SEQ) were collected at study enrollment during pregnancy. Neonatal birth weights and gestational age were collected via standardized medical record abstraction. We conducted linear regressions to determine whether greater race-related stress was associated with lower weight and gestational age at birth, while