Journal of Clinical and Translational Science

www.cambridge.org/cts

Perspective

Cite this article: Gonzalez-Guarda RM, Acosta-Perez E, Adames C, Bailey R, Carvajal-Carmona L, Detwiler J, Ko LK, Leiva H, Page K, and Schoenthaler A. Promoting inclusion in COVID-19 research for diverse Hispanic/Latino(x) populations: Recommendations from the RADx[®] Underserved Populations Hispanic/Latino/Latinx working group. *Journal of Clinical and Translational Science* 9: e31, 1–3. doi: 10.1017/cts.2024.600

Received: 7 March 2024 Revised: 6 June 2024 Accepted: 10 July 2024

Kevwords:

Inclusion; diversity; Hispanic/Latino communities; minority populations; equity

Corresponding author:

R.M. Gonzalez-Guarda; Email: rosa.gonzalez-guarda@duke.edu

© The Author(s), 2025. Published by Cambridge University Press on behalf of Association for Clinical and Translational Science. This is an Open Access article, distributed under the terms of the Creative Commons Attribution licence (https://creativecommons.org/licenses/by/4.0/), which permits unrestricted re-use, distribution and reproduction, provided the original article is properly cited.





Promoting inclusion in COVID-19 research for diverse Hispanic/Latino(x) populations: Recommendations from the RADx[®] Underserved Populations Hispanic/Latino/ Latinx working group

Rosa M. Gonzalez-Guarda¹, Edna Acosta-Perez², Cristina Adames², Rocio Bailey³, Luis Carvajal-Carmona⁴, Jenni Detwiler⁵, Linda K. Ko⁶, Hailey Leiva⁵, Kathleen Page⁷ and Antoinette Schoenthaler⁸

¹Duke University School of Nursing, Durham, NC, USA; ²Medical Science Campus, University of Puerto Rico, San Juan Puerto Rico, USA; ³Hispanic Services Council, Tampa, FL, USA; ⁴Department of Biochemistry and Molecular Medicine, University of California Davis, Sacramento, CA, USA; ⁵University of North Carolina, Chapel Hill, NC, USA; ⁶Department of Health Systems and Population Health, University of Washington, Seattle, WA, USA; ⁷Johns Hopkins University School of Medicine, Baltimore, MD, USA and ⁸New York University Grossman School of Medicine, New York, NY, USA

Introduction

Hispanic/Latino(x) communities, the largest US racial/ethnic minoritized population [1], experienced significant health inequities in COVID-19 morbidity and mortality [2,3], and had the largest decline in life expectancy [4]. These inequities are rooted in systemic racism that led to increased exposure to COVID-19 for this population (e.g., essential workers with crowded living arrangements), limited access to health care [5], and underenrollment in research [6]. Including Hispanic/Latino(x) populations in COVID-19 research is necessary to ensure scientific equity in benefits from public health advances.

The National Institutes of Health (NIH) created the RADx® Underserved Populations (RADx-UP) program to ensure that all Americans have access to COVID-19 testing, focusing on communities most affected by the pandemic. RADx-UP is a consortium of more than 137 research projects in communities across the United States (US), including all territories and Tribal Nations, coordinated by the Coordination and Data Collection Center (CDCC), which is led by the Duke Clinical Research Institute and the Center for Health Equity Research at UNC-Chapel Hill, in partnership with Community-Campus Partnerships for Health. Working Groups are a cornerstone to community engagement activities of the CDCC in which RADx-UP projects aim to address specific challenges and collaborate on resources and scholarship.

This article summarizes recommendations made by the Engaging Hispanic/Latino/Latinx (HLL) Populations Working Group, which comprises community partners and academic researchers engaged in RADx-UP research, through a consensus-building process that occurred during monthly working group meetings. A list of recommendations from the HHL Working Group is presented below (see full list in Fig. 1) for decision-makers when designing research grants, funding opportunities, and resources for this population.

Recommendation

Ensure government-supported websites serving as a clearing house for research measures can be accessible in Spanish and Indigenous languages spoken by diverse Hispanic/Latino(x) community members

Although there has been an increased effort to build the capacity of community practitioners to find and use evidence-based practices [7] and measures have been developed in Spanish for COVID-19 research [8], most government websites supporting libraries of validated research measures are available only in English. For example, although the NIH has promoted the use of standard measures for COVID-19 research, such as those included in the PhenX Toolkit and the Disaster Research Response (DR2) Resource Portal, the websites providing these measures (https://www.phenxtoolkit.org/ and https://tools.niehs.nih.gov/dr2/, respectively) are in English only. To ensure diverse teams of researchers, government-supported websites need a Spanish interface. They also need to be searchable by language and accessible to community members who may be foreign-born Spanish speakers. Additionally, it is important to recognize other Indigenous languages spoken by Hispanic/

2 Gonzalez-Guarda et al.

Including Hispanic/Latino(x) populations in COVID-19 research is necessary to ensure this population benefits from biomedical and public health advances.



 Ensure government-supported websites for research measures can be accessible in Spanish and Indigenous languages spoken by diverse Hispanic/Latino(x) communities



Support and invest in the adaptation and validation of measures
for diverse Hispanic/Latino(x) communities (e.g., migrant populations,
those with Indigenous languages), including dissemination back to the
communities



Increase funding for pathway programs, career development grants, and diversity awards to support bilingual/bicultural research workforce



4. Remove barriers for Hispanic/Latino(x) participation in COVID-19 testing and research, such as removing requirements for identification, insurance, and disclosing social security numbers

These recommendations created by the RADx-UP Hispanic/Latino(x) Working Group can guide the implementation of policies and practices to improve the engagement of institutions with this population and conduct research on current health disparities and future health crises with a lens of health equity.

Figure 1. Promoting inclusion in COVID-19 research for diverse Hispanic/Latino(x) Populations: 4 recommendations.

Latino(x) populations living in the US. Collaboration with major search providers such as $Google^{TM}$ and $Microsoft^{TM}$ could lead to better search engines and increase visibility and user accessibility.

Support and invest in the adaptation and validation of measures for diverse Hispanic/Latino(x) communities (e.g., migrant populations, those with Indigenous languages), including dissemination back to the communities

Translating research measures into Spanish (and other Indigenous languages) is critical but insufficient. The NIH advocates using standardized research instruments to compare data across studies. However, it is essential to recognize that these tools may need to be adapted and validated for use in different cultures or contexts. Hispanic/Latino(x) people in the US are a heterogeneous group with diverse racial and cultural backgrounds, national origins, socioeconomic position, and immigration status [9], but are often treated as a monolith. Adapting research measures to account for all these differences requires significant input from the community members and can be time- and resource-intensive. Federal investment would permit grantees the time and resources to better develop measures sensitive to Hispanic/Latino(x) communities. Funding opportunities such as center grants and Clinical Translational Science Awards should have a core dedicated to translating, adapting, and validating material and to providing technical assistance to researchers and community partners. Investment should also be made for the training and capacitybuilding of junior researchers and community partners on methodological aspects of translation, adaptation, and validation of research measures.

Increase funding for pathway programs, career development grants, and diversity awards to support a bilingual/bicultural research workforce, prioritizing building community capacity

In academic medicine and across health care professions, structural racism represents the dominant system that systematically advantages White providers and disadvantages individuals of color - often restricting access to training, opportunities for mentorship, independent scholarship, and career advancement. For example, extensive research has shown that underrepresented minority (URM) trainees and faculty are more likely to experience inadequate mentorship, fewer opportunities for academic advancement, and higher demands (often referred to as the "minority tax"), and are less likely to receive equitable salaries for their rank and tenure [10]. Eliminating these institutional inequities is imperative to support the recruitment and continued success of URM trainees and faculty in academic health professions. A specific focus on a bilingual/bicultural research workforce should be integrated into steps that have been delineated for diversifying the Clinical and Translational Science Award programs [11,12] and academia more broadly.

Remove barriers for Hispanic/Latino(x) participation in COVID-19 testing and research, particularly requirements for identification, insurance, and disclosing Social Security numbers that systematically leave out undocumented individuals and other communities who have been disproportionately affected by COVID-19 cases

Historic mistrust of public health and government systems often obstructs the Hispanic/Latino(x) community from engaging in activities deemed nonessential for their well-being. Although

research can help reduce health inequities, community members who participate do not see the outcome of their efforts in tangible ways. The risks of participating in research, which may include side effects from clinical trials requiring treatments that participants cannot afford or the possibility of identifying undocumented individuals, are too high for community members when they lack quality health care, paid time off, or citizenship. Also, low levels of English proficiency and health literacy feed fear and mistrust because informed consent may be confusing. Regaining the trust of the Hispanic community with trusted messengers (faith leaders and community health workers) who understand cultural nuances and can communicate messages of hope may be needed to persuade community members to participate in research. When designing measures intended for Hispanic/Latino/Latinx communities, it is important to consider which personal identifiers are requested and why they are sought.

Conclusion

The recommendations presented by the HLL Working Group aim to capitalize on the experience of the community and academic partners engaged in the RADx-UP initiative who worked with Hispanic/Latino(x) communities. These recommendations can guide the implementation of policies and practices that will improve engagement with this population when conducting research on pressing public health problems. Although made in the context of the COVID-19 pandemic, these recommendations extend far beyond the RADx-UP initiative and can help address current and future health crises through a lens of health equity.

Acknowledgments. The authors acknowledge Peter Hoffmann of the Duke Clinical Research Institute for providing editorial support.

Author contributions. Dr Gonzalez-Guarda led the conceptualization and the writing of the manuscript and took responsibility for the manuscript as a whole. Each coauthor contributed to the formulation of the recommendation and the writing of a section of the manuscript. All authors reviewed the manuscript, provided edits, and approved the final version.

Funding statement. Research reported in this RADx® Underserved Populations (RADx-UP) publication was supported by the National Institutes of Health under Award Numbers U24MD016258; OT2HD107544; R01MD013769S1, S2; 3R34AT010661-02S1; 1 U01 MD017412; P30 ES023513-06S1; 1 U01 MD017426-01. LC-C is grateful for funding received from The Auburn Community Cancer Endowed Chair in Basic Research; The Heart, BrEast, and BrAin HeaLth Equity Research (HEAL HER) program, a program made possible by residual class settlement funds in the matter of *April Krueger v. Wyeth, Inc.*, Case No. 03-cv-2496 (US District Court, SD of Calif.); and from the National Cancer Institute (R01CA223978, U54CA283766, and U54CA280811) of the National Institutes of Health. Support was also provided by the Hispanic Alliance for Clinical and Translational Research (Alliance, NIGMS, Award

Number U54GM133807). The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health.

Competing interests. The authors have no conflict of interest to report.

References

- U.S. Census Bureau. Hispanic population to Reach 111 Million by 2060. 2018. Washington, DC, Available from: https://www.census.gov/library/visualizations/2018/comm/hispanic-projected-pop.html, [Last accessed: 7/28/2023].
- Magesh S, John D, Li WT, et al. Disparities in COVID-19 outcomes by race, ethnicity, and socioeconomic status: a systematic-review and metaanalysis. JAMA Netw Open. 2021;4(11):e2134147. doi: 10.1001/jamanetwo rkopen.2021.34147.
- Mude W, Oguoma VM, Nyanhanda T, et al. Racial disparities in COVID-19 pandemic cases, hospitalisations, and deaths: a systematic review and meta-analysis. J Glob Health. 2021;11:05015. doi: 10.7189/jogh.11.05015.
- Woolf SH, Masters RK, Aron LY. Effect of the covid-19 pandemic in 2020 on life expectancy across populations in the USA and other high income countries: simulations of provisional mortality data. *Br Med J.* 2021;373: n1343. doi: 10.1136/bmj.n1343.
- Martínez ME, Nodora JN, Carvajal-Carmona LG. The dual pandemic of COVID-19 and systemic inequities in US latino communities. *Ann Ny Acad Sci.* 2021;127(10):1548–1550. doi: 10.1002/cncr.33401.
- Occa A, Morgan SE, Potter JE. Underrepresentation of hispanics and other minorities in clinical trials: recruiters' perspectives. *J Racial Ethn Health Disparities*. 2018;5(2):322–332. doi: 10.1007/s40615-017-0373-x.
- Escoffery C, Carvalho M, Kegler MC. Evaluation of the prevention programs that work curriculum to teach use of public health evidence to community practitioners. *Health Promot Pract.* 2012;13(5):707–715. doi: 10.1177/1524839912437787.
- Harkness A, Behar-Zusman V, Safren SA. Understanding the impact of COVID-19 on latino sexual minority men in a US HIV hot spot. AIDS Behav. 2020;24(7):2017–2023. doi: 10.1007/s10461-020-02862-w.
- Enid Zambrana R, Amaro G, Butler C, et al. Analysis of Latina/o sociodemographic and health data sets in the United States from 1960 to 2019: findings suggest improvements to future data collection efforts. Health Educ Behav. 2021;48(3):320–331. doi: 10.1177/10901981 211011047.
- Rodríguez JE, Campbell KM, Pololi LH. Addressing disparities in academic medicine: what of the minority tax? BMC Med Ed. 2015;15(1): 1–5.
- 11. Shay LA, Schmidt S, Thurston AJ, et al. Advancing diversity, equity, and inclusion within clinical and translational science training programs: a qualitative content analysis of the training breakout session at the national CTSA program meeting. J Clin Transl Sci. 2022;6(1):e110. doi: 10.1017/cts. 2022.442.
- Egede LE, Ruiz R, Mosley-Johnson E, et al. Laying the groundwork to make diversity, equity, and inclusion front and center in clinical and translational research. J Clin Transl Sci. 2023;7(1):e95. doi: 10.1017/cts. 2023.524.