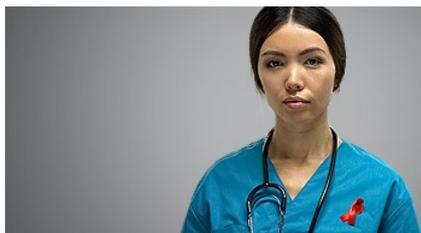


COVID-19 Pandemic: Disparate Health Impact on the Hispanic/Latinx Population in the United States

Raul Macias Gil, MD, Jasmine R Marcelin, MD FACP, Brenda Zuniga-Blanco, MD, Carina Marquez, MD MPH, Trini Mathew, MD MPH FACP FIDSA, Damani A Piggott, MD PhD



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Raul Macias Gil, MD¹; Jasmine R. Marcelin, MD, FACP²; Brenda Zuniga-Blanco, MD³; Carina Marquez, MD, MPH⁴; Trini Mathew, MD, MPH, FACP, FIDSA⁵; Damani A. Piggott, MD, PhD⁶

* This perspective was written on behalf of the Infectious Diseases Society of America (IDSA) Inclusion, Diversity, Access, and Equity (IDA&E) Task Force

¹ Division of Infectious Diseases, Alpert Medical School of Brown University, Providence, RI; USA

² Division of Infectious Diseases, University of Nebraska Medical Center, Omaha, NE; USA

³ Autonomous University of San Luis Potosi Faculty of Medicine, SLP; Mexico

⁴ Division of HIV, Infectious Diseases and Global Medicine, University of California San Francisco, San Francisco, CA; USA

⁵ Division of Infectious Diseases and International Medicine, Beaumont Hospital, Royal Oak, MI; USA

⁶ Division of Infectious Diseases, Johns Hopkins University School of Medicine, Baltimore, MD; USA

Summary

The COVID-19 pandemic has unveiled longstanding social and health disparities in the Hispanic/Latinx community in the United States. A multitiered approach will be critical to reduce the disproportionate impact of COVID-19 on the health and survival of the Hispanic/Latinx population.

Corresponding Author:

Raul Macias Gil, MD

164 Summit Avenue

Providence, RI 02906

Email: raulmacgilmd@gmail.com

Phone: (213) 663-8751

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Abstract

In December 2019, a novel coronavirus known as SARS-CoV-2, emerged in Wuhan, China, causing the Coronavirus disease 2019 we now refer to as COVID-19. The World Health Organization declared COVID-19 a pandemic on March 12th, 2020. In the United States, the COVID-19 pandemic has exposed pre-existing social and health disparities among several historically vulnerable populations, with stark differences in the proportion of minority individuals diagnosed with and dying from COVID-19. In this article we will describe the emerging disproportionate impact of COVID-19 on the Hispanic/Latinx (henceforth: Hispanic or Latinx) community in the U.S., discuss potential antecedents and consider strategies to address the disparate impact of COVID-19 on this population.

Keywords: COVID-19; coronavirus; SARS-CoV-2; Hispanic; Latinx; health disparity

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Footnote: Percentage of Hispanics of total state population vs. proportion of Hispanics of total state COVID-19 cases as of May 14, 2020. Data obtained from 2018 US census data and each state's department of health.

***Percentage of Hispanics of total state's COVID-19 cases was calculated excluding persons from whom ethnicity was "unknown" or "not available"

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Background

As of May 21st, 2020, SARS-CoV-2 has infected over 5 million people across the globe.¹ In the United States, over 1.5 million people have been infected and the COVID-19 pandemic has claimed over 90,000 lives.² Pandemics can affect individuals regardless of their background. However, prior pandemics have had heightened adverse effects on vulnerable populations, including racial and ethnic minority groups in the United States.³ For COVID-19, emerging U.S. data show particular adverse impact of this pandemic on the Latinx community.^{4,5}

COVID-19 Data in Hispanics

The Hispanic population is the largest ethnic minority group in the U.S., comprising nearly 60 million people.⁶ Whereas Hispanics constitute 18% of the total U.S. population, this group accounts for 28.4% of cumulative U.S. COVID-19 cases with known ethnicity reported to the Centers for Disease Control and Prevention (CDC) as of May 20, 2020.² As of May 20, 45 states and the District of Columbia (D.C.) have released COVID-19 data by race or ethnicity, though only 31 states and D.C. have reported data among Hispanics.^{1,2} In 27 (87%) of these states, as well as in D.C., the percentage of COVID-19 cases identified as Hispanic notably exceed the proportion of Hispanics in the state population (Figure 1).

COVID-19 hospitalization data by ethnicity remains limited. The CDC COVID-19-Associated Hospitalization Surveillance Network (COVID-NET), which conducts population-based surveillance for laboratory-confirmed COVID-19-associated hospitalizations across 14 states found Hispanics comprised 14.2% of hospitalizations.⁵

COVID-19 mortality data for the Hispanic population also remains sparse. However, in New York City where the COVID-19 pandemic has exacted one of the highest tolls, both COVID-19 related hospitalization and death rates have been significantly elevated in the Hispanic population compared to Whites – with a 2-fold higher age-adjusted death rate for the Hispanic population (204.6 per 100,000 vs. 90.4 per 100,000) as of May 14, 2020.⁷

Immigration status. Immigration status also may pose a barrier to COVID-19 care, secondary to fear or mistrust of medical, public health and other societal institutions, exclusion from insurance coverage eligibility (e.g. Medicaid), and limitations of personal financial resource. Both absolute and perceived restrictions to securing essential services and public benefits (e.g. Temporary Assistance for Needy Families), even among those legally eligible to receive services, may impede critical access to COVID-19 related care resources for this community.¹⁶

Language barriers. According to the Office of Minority Health, 72% of Hispanics speak a language other than English at home and 29.8% state that they are not fluent in English.¹⁷ Research shows that language barriers can adversely affect quality of care, and that patients with limited English proficiency have decreased access to care, increased emergency department visits, longer inpatient hospitalizations and worse clinical outcomes.¹⁸ Language barriers can negatively influence the COVID-19 care continuum from inadequate public health prevention messaging to impaired delivery of accessible language sensitive inpatient care, potentially made worse by physical distancing and greater patient isolation.

Work conditions, financial burden, living and undomiciled conditions. Prevailing work and living conditions in the Latinx community may increase both exposure to and acquisition of SARS-CoV2. This population is overrepresented among those providing critical essential services, with a quarter of Hispanics working in key service occupations (e.g. ensuring food supply for the general population).¹⁹ Despite social distancing recommendations and guidance for employees to stay home when sick for COVID-19 prevention, paid sick leave and working from home are not options for all workers across the US. In pre-pandemic data, while 31.4% of non-Hispanic workers could telecommute, only 16.2% of Hispanic workers held jobs that would allow them to work from home.²⁰ The U.S. poverty rate for Hispanics is 19.4% compared to 9.6% for non-Hispanic whites.²¹ With marked financial pressures and fear of lost income, persons in Latinx communities currently face a stark dilemma of looking for jobs that may increase their risk of infection, or staying home without income. Many Latinx families live in multigenerational homes that may not facilitate adherence to WHO/CDC social distancing/isolation

recommendations. Hispanics are overrepresented in other congregate settings including detention centers, prisons and homeless settings which also may hinder prevention of COVID-19 exposure and acquisition.^{22,23} Low financial resources further may impede maintaining a reliable supply of medications and food at home, potentially exacerbating uncontrolled chronic comorbid disease associated with COVID-19 disease severity. Ultimately, these compromised work, living and financial conditions in the Latinx population may significantly increase the risk of COVID-19 infection and poor COVID-19 outcomes.

Addressing COVID-19 Disparities in the Hispanic/Latinx Population

In order to address the emerging disparate impact of COVID-19 on the Latinx community, it will be critical to harness known evidence-based health equity promoting strategies and apply these along the full COVID-19 care continuum from prevention/testing to treatment and care.^{12,24}

Strategies in the near term should include:

- Prompt, effective and sustained health communication and outreach to inform COVID-19 prevention efforts in the Latinx population that is linguistically and culturally congruent, sensitive to histories, legacies, prevailing attitudes and beliefs across this community
- Strong engagement and establishment of trust between community partners and health care delivery teams directed at ensuring optimal linkage to high quality care for COVID-19 and the prevention of related comorbid disease
- Equitable and full access to SARS-CoV-2 testing when needed for all community members to facilitate effective individual diagnosis and care and to help protect the community at large

Potential conflicts of interests: The authors have no conflict of interest to disclose.

Financial Support: No funding was received.

Acknowledgements: The authors would like to thank Dr. Maria de Lourdes Enriquez-Macias, Dr. Lucia Pruneda-Alvarez, and the staff of the Infectious Diseases Society of America for their assistance with preparing this manuscript.

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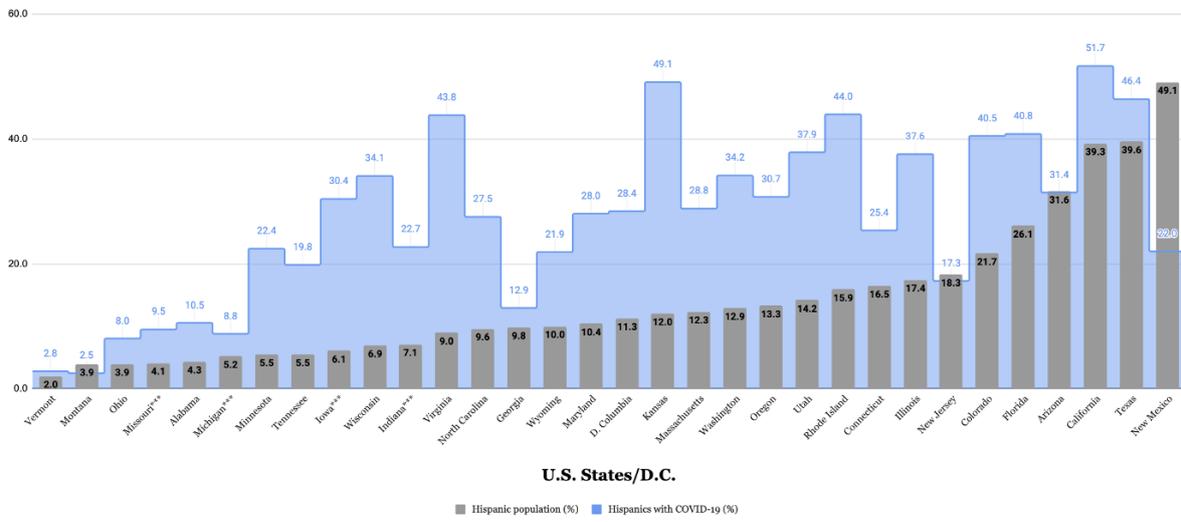
References

1. Johns Hopkins University of Medicine. Coronavirus Resource Center. <https://coronavirus.jhu.edu/map.html>. Published 2020. Accessed May 21, 2020.
2. Centers for Disease Control and Prevention. Coronavirus Disease 2019. Cases in the US. <https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/cases-in-us.html>. Published 2020. Accessed May 21, 2020.
3. Quinn SC, Kumar S, Freimuth VS, Musa D, Casteneda-Angarita N, Kidwell K. Racial disparities in exposure, susceptibility, and access to health care in the US H1N1 influenza pandemic. *Am J Public Health*. 2011;101(2):285-293.
4. APM Research Lab. The color of coronavirus. <https://www.apmresearchlab.org/covid/deaths-by-race>. Published 2020. Accessed May 21, 2020.
5. Centers for Disease Control and Prevention. COVID-19 Laboratory-Confirmed Hospitalizations. CDC COVID-NET. https://gis.cdc.gov/grasp/COVIDNet/COVID19_5.html. Published 2020. Accessed May 21, 2020.
6. 2018 US Census Bureau. <https://data.census.gov/cedsci/profile?g=0100000US&tid=ACSDP1Y2018.DP05&q=United%20States#>. Published 2018. Accessed May, 14, 2020.
7. New York Fatalities COVID-19 by Race/Ethnicity. New York Department of Health. <https://www1.nyc.gov/assets/doh/downloads/pdf/imm/covid-19-deaths-race-ethnicity-05142020-1.pdf>. Published 2020. Accessed May 21, 2020.

8. World Health Organization. Commission on Social Determinants of Health. https://www.who.int/social_determinants/thecommission/finalreport/key_concepts/en/. Published 2008. Accessed May 21, 2020.
9. National Academies of Sciences, Engineering, and Medicine. Communities in Action: Pathways to Health Equity. National Academies Press (US). In: Baciu A, Negussie Y, Geller A, Weinstein JN, eds. National Academies Press (US)2017.
10. Jones DS. The persistence of American Indian health disparities. *Am J Public Health*. 2006;96(12):2122-2134.
11. Reskin B. The Race Discrimination System. In. Vol 38. Annual Review of Sociology2012:17-35.
12. Williams DR, Cooper LA. Reducing Racial Inequities in Health: Using What We Already Know to Take Action. *Int J Environ Res Public Health*. 2019;16(4).
13. Department of Health and Human Services. Secretary's Advisory Committee on National Health Promotion and Disease Prevention Objectives for 2020. Healthy People 2020: An Opportunity to Address the Societal Determinants of Health in the United States. <https://www.healthypeople.gov/2020/topics-objectives/topic/social-determinants-of-health>. Published 2020. Accessed May 21, 2020.
14. Cheng YJ, Kanaya AM, Araneta MRG, et al. Prevalence of Diabetes by Race and Ethnicity in the United States, 2011-2016. *JAMA*. 2019;322(24):2389-2398.
15. Agency for Healthcare Research and Quality. 2018 National Healthcare Quality and Disparities Report. <https://www.ahrq.gov/research/findings/nhqrdr/nhqrdr18/index.html>. Published 2018. Accessed May 16, 2020.
16. Sommers BD. Targeting in Medicaid: The costs and enrollment effects of Medicaid's citizenship documentation requirement. *Journal of Public Economics*. 2010;94(1-2):174-182.

17. US Department of Health and Human Services. Office of Minority Health: Hispanic/Latino Americans Profile. <https://minorityhealth.hhs.gov/omh/browse.aspx?lvl=3&lvlid=64>. Published 2019. Updated 8/22/2019. Accessed May 21, 2020.
18. The Joint Commission. Overcoming the Challenges of Providing Care to Limited English Proficiency (LEP) patients. <https://www.jointcommission.org/resources/news-and-multimedia/newsletters/newsletters/quick-safety/quick-safety--issue-13-overcoming-the-challenges-of-providing-care-to-lep-patients/>. Published 2015. Accessed May 21, 2020.
19. US Bureau of Labor Statistics. Labor force characteristics by race and ethnicity, 2018. In: Statistics UBoL, ed. BLS Reports.2019.
20. US Bureau of Labor Statistics. Workers who could work at home, did work at home, and were paid for work at home, by selected characteristics, averages for the period 2017-2018. In:2018.
21. Fontenot K. Income and Poverty in the United States: 2017. US Census Bureau. In: Jessica S, Melissa K, eds. Income & Poverty.2017:60-63.
22. Federal Bureau of Prisons. Inmate Ethnicities. https://www.bop.gov/about/statistics/statistics_inmate_ethnicity.jsp. Published 2020. Updated 05/16/2020. Accessed May 21, 2020.
23. Henry M, Mahathey A, Morrill T, et al. US Department of Housing and Urban Development. The 2018 Annual Homeless Assessment Report (AHAR) to Congress. In: Office of Community Planning and Development2018.
24. King JS. Covid-19 and the Need for Health Care Reform. *N Engl J Med*. 2020.

Figure 1



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