

SDOH, COVID-19 and Telehealth



Leo Morales, MD, PhD
Professor and Assistant Dean
Office for Healthcare Equity
UW MEDICINE

May 25, 2022

Health Resources and Services Administration (HRSA) Definition of Telehealth

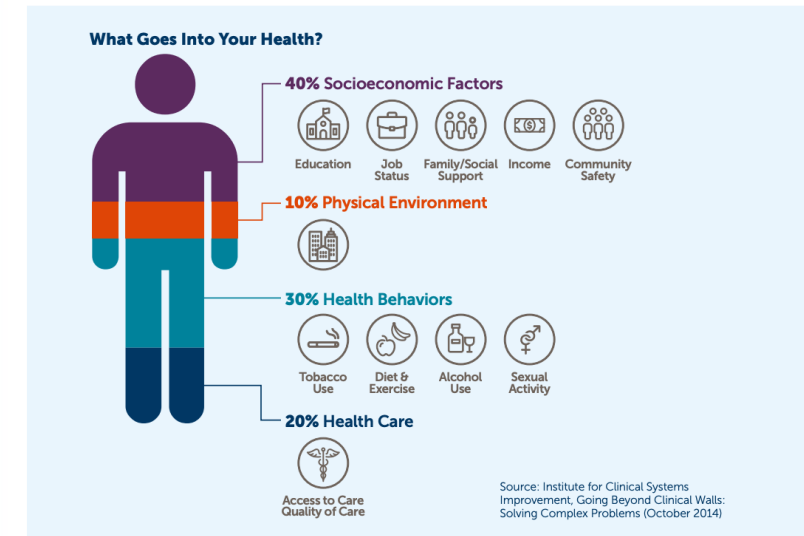
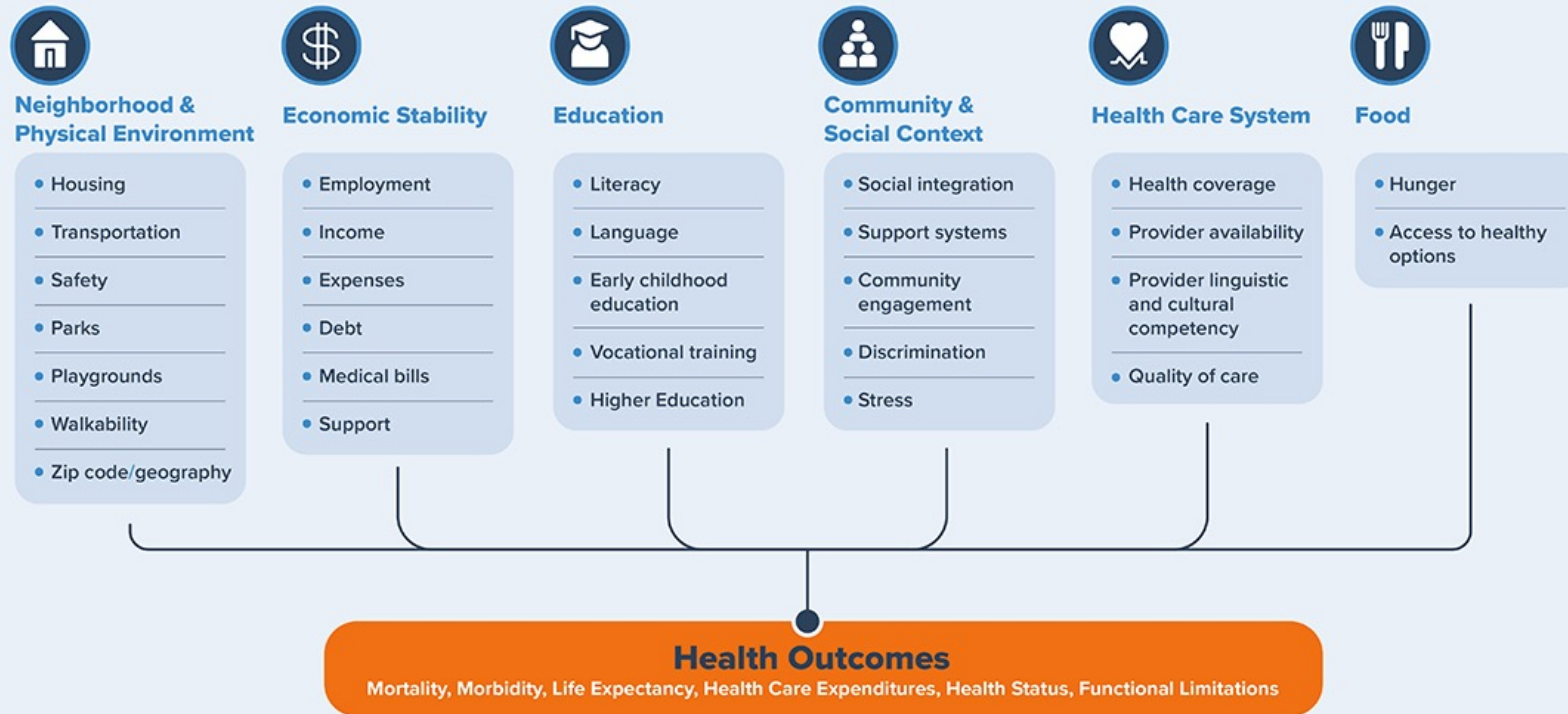


The use of electronic information and telecommunications technologies to support and promote long-distance clinical health care, patient and professional health-related education, and public health and health administration.

Telehealth is comprised of two forms: 1) two-way, synchronous, interactive client-provider communication through audio and video equipment, and 2) asynchronous client-provider interactions using various forms of technology (e.g., web-based client portals, e-mail messages, text messages, mobile applications, symptom management tracking, sensors, peripherals, client education modules, or electronic medical record data)

Social Determinants of Health

The U.S. Department of Health and Human Services defines social determinants of health (SDOH) as the conditions in the environments where people are born, live, learn, work, play and age. These conditions are separated into six distinct categories

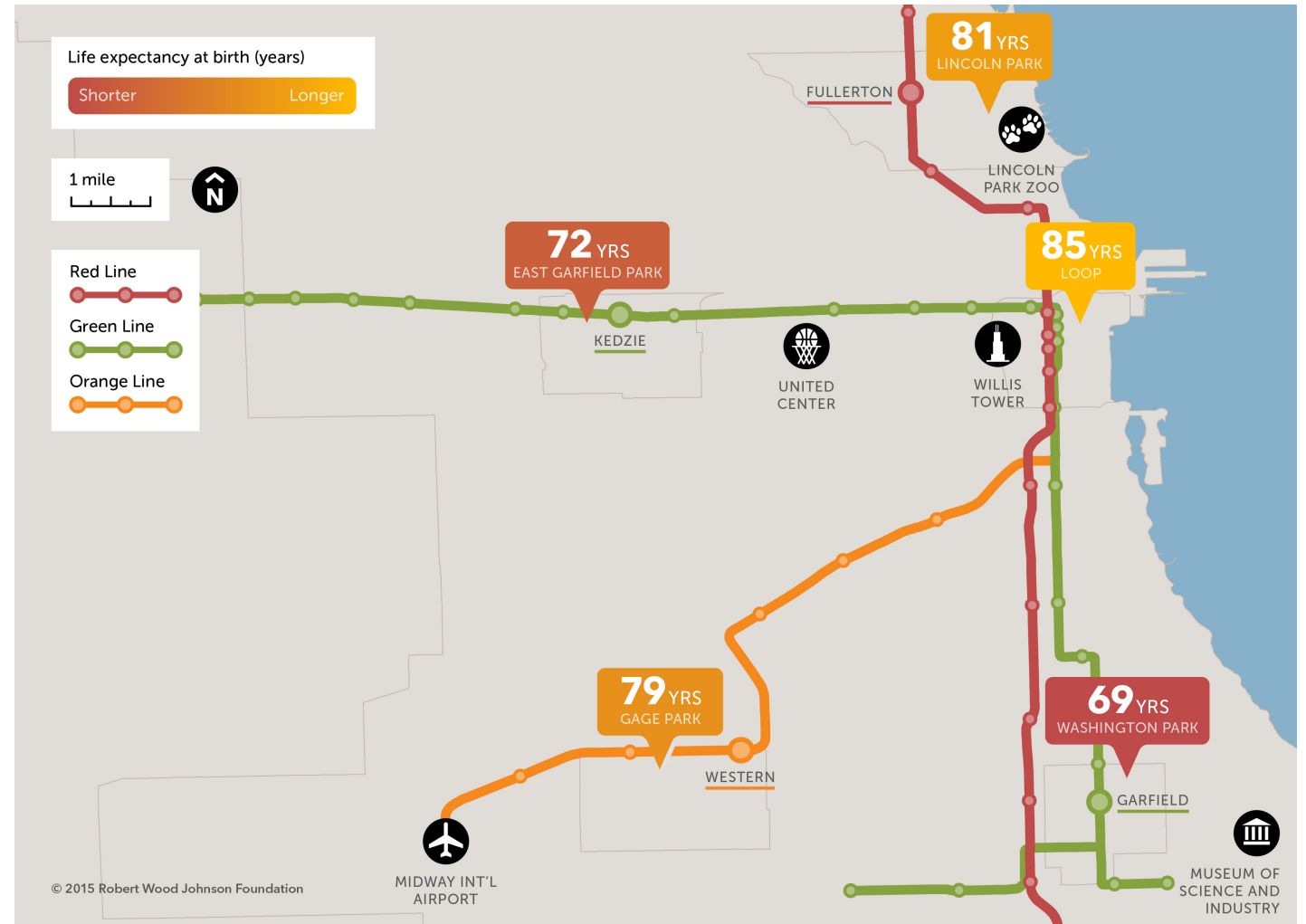


Access to broadband isn't included

INEQUITIES IN LIFE EXPECTANCY

Short Distances to Large Gaps
in Health

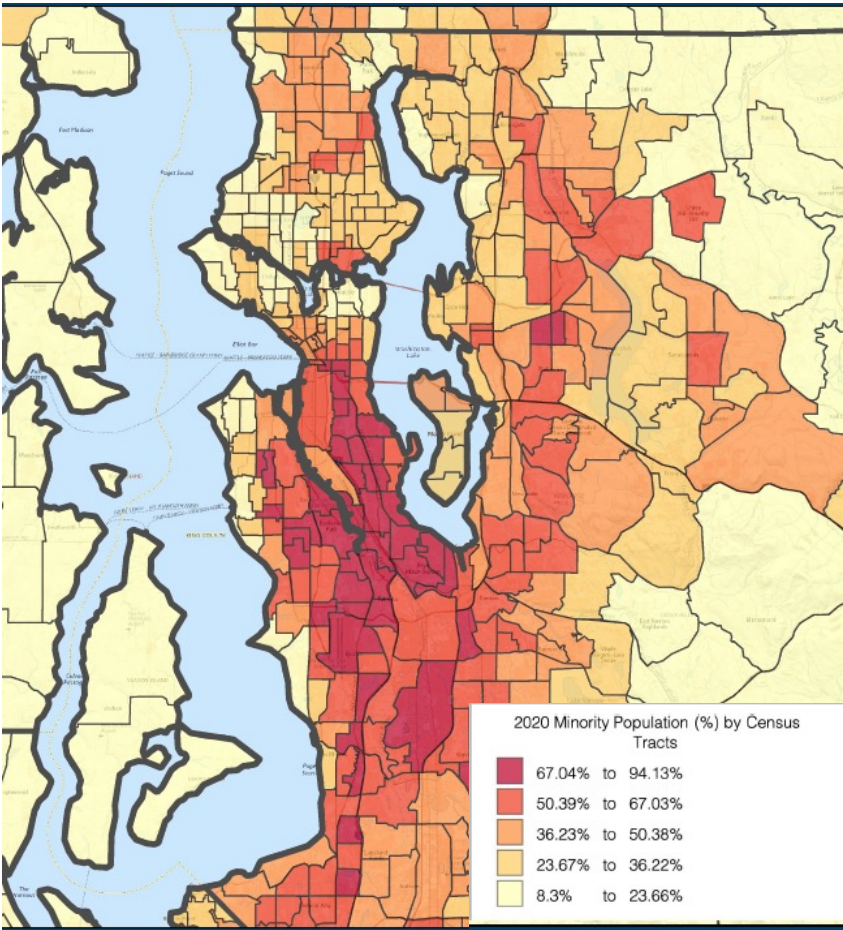
Source: Reprinted with permission from the VCU Center on Society and Health.



▲ Chicago, Illinois

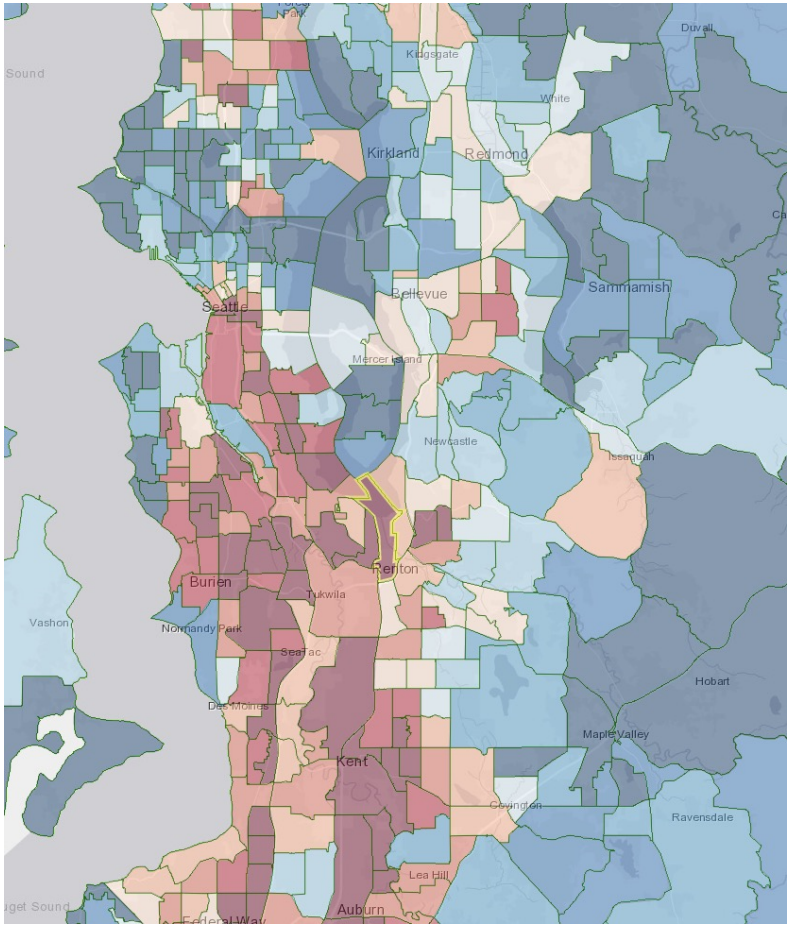
Overlap Between Social Vulnerability and Diversity

BIPOC Population, 2020



Social Vulnerability refers to the resilience of communities when confronted by external stresses on human health, stresses such as natural or human-caused disasters, or disease outbreaks. Reducing social vulnerability can decrease both human suffering and economic loss

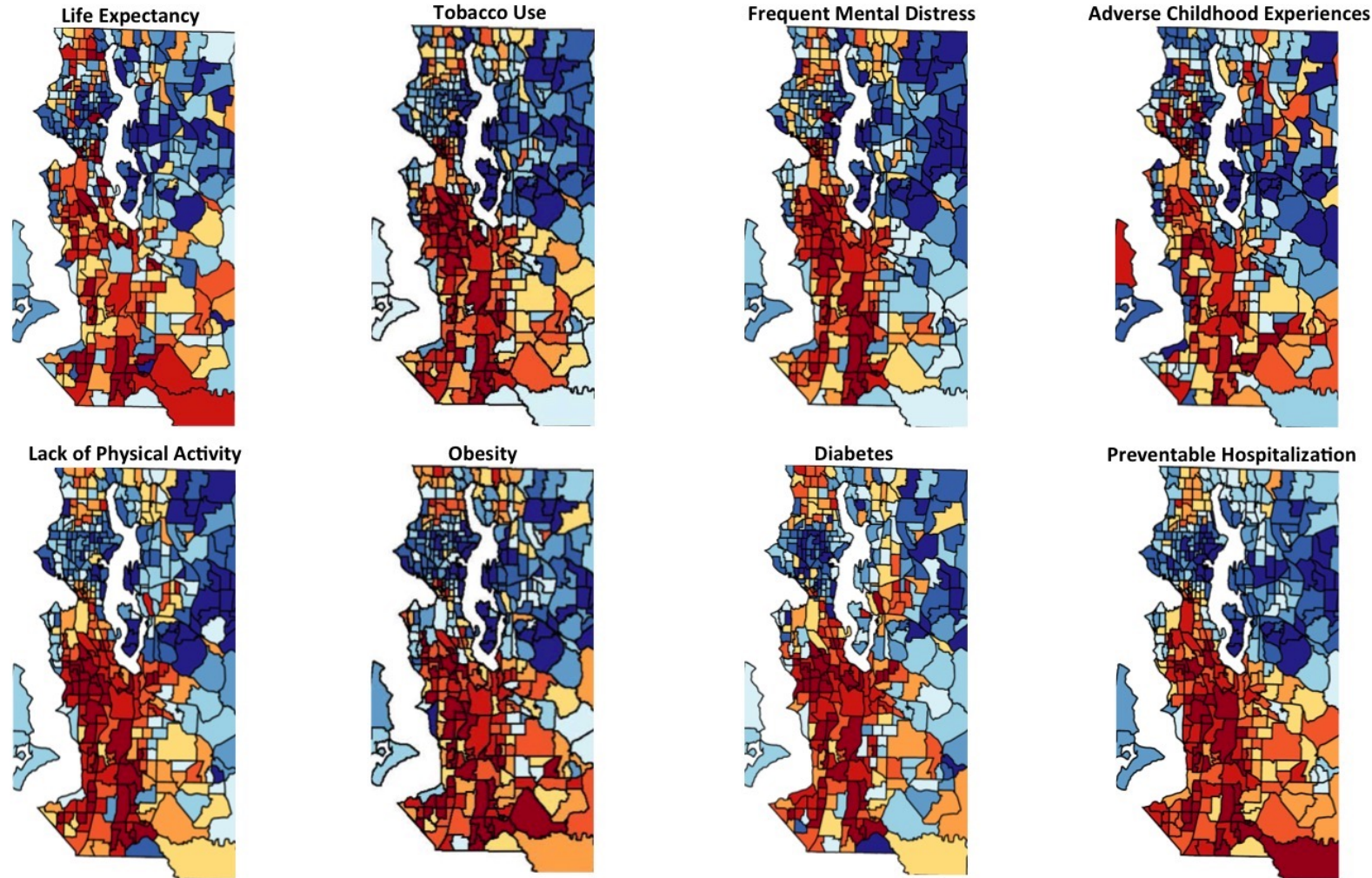
Social Vulnerability



Source: Esther Min and Edmund Seto, UW



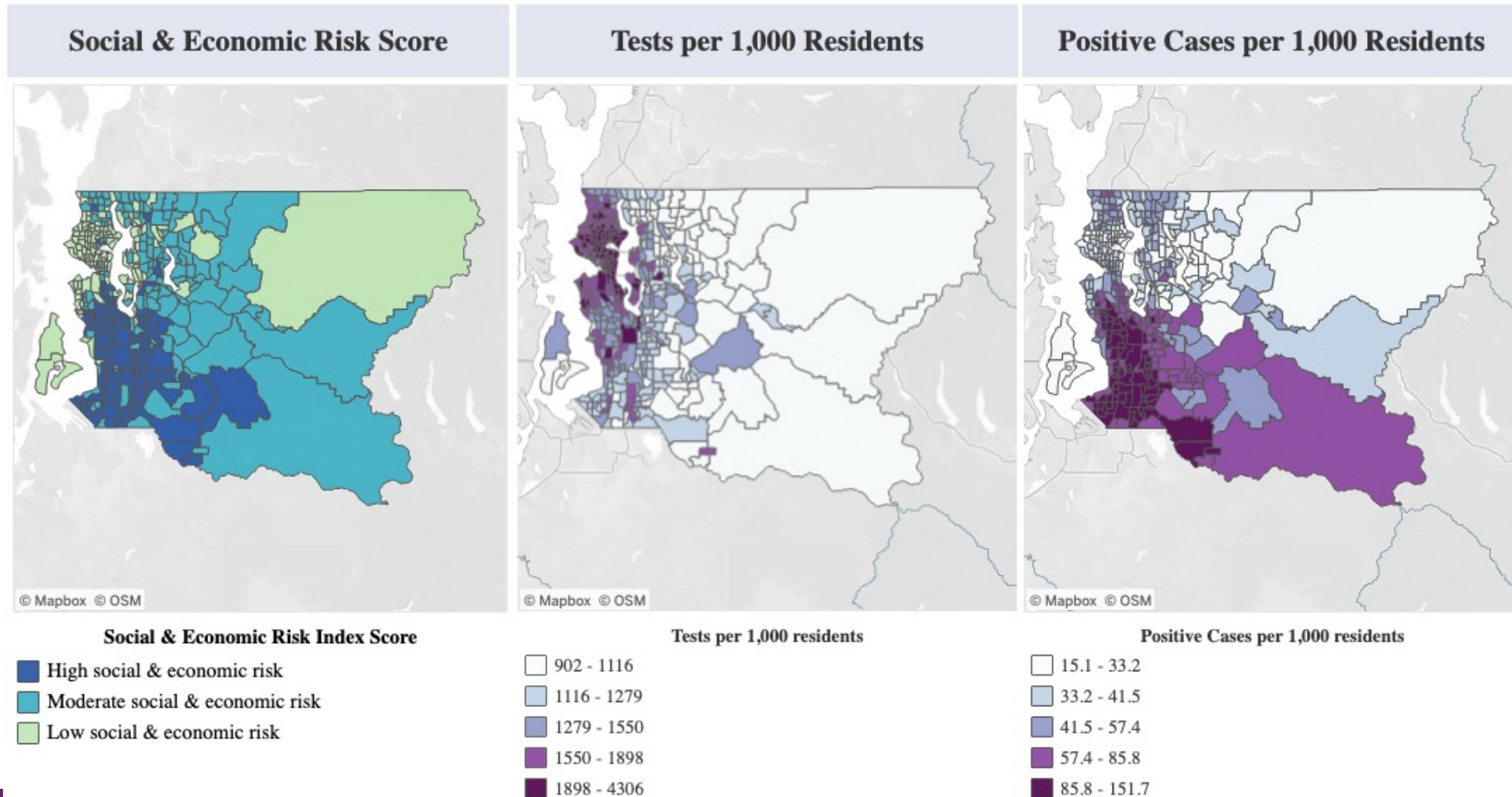
Geographic Concentration of Social Disadvantage is Longstanding



To identify geographic areas of need, King County census tracts were rank-ordered from highest to lowest percent of adults by the areas noted above. The tracts were then divided into 10 groups. Dark reds show tracts with the highest rates; dark blues show tracts with lowest rates (note: the Life Expectancy map ranks shortest in dark red to longest in dark blue).

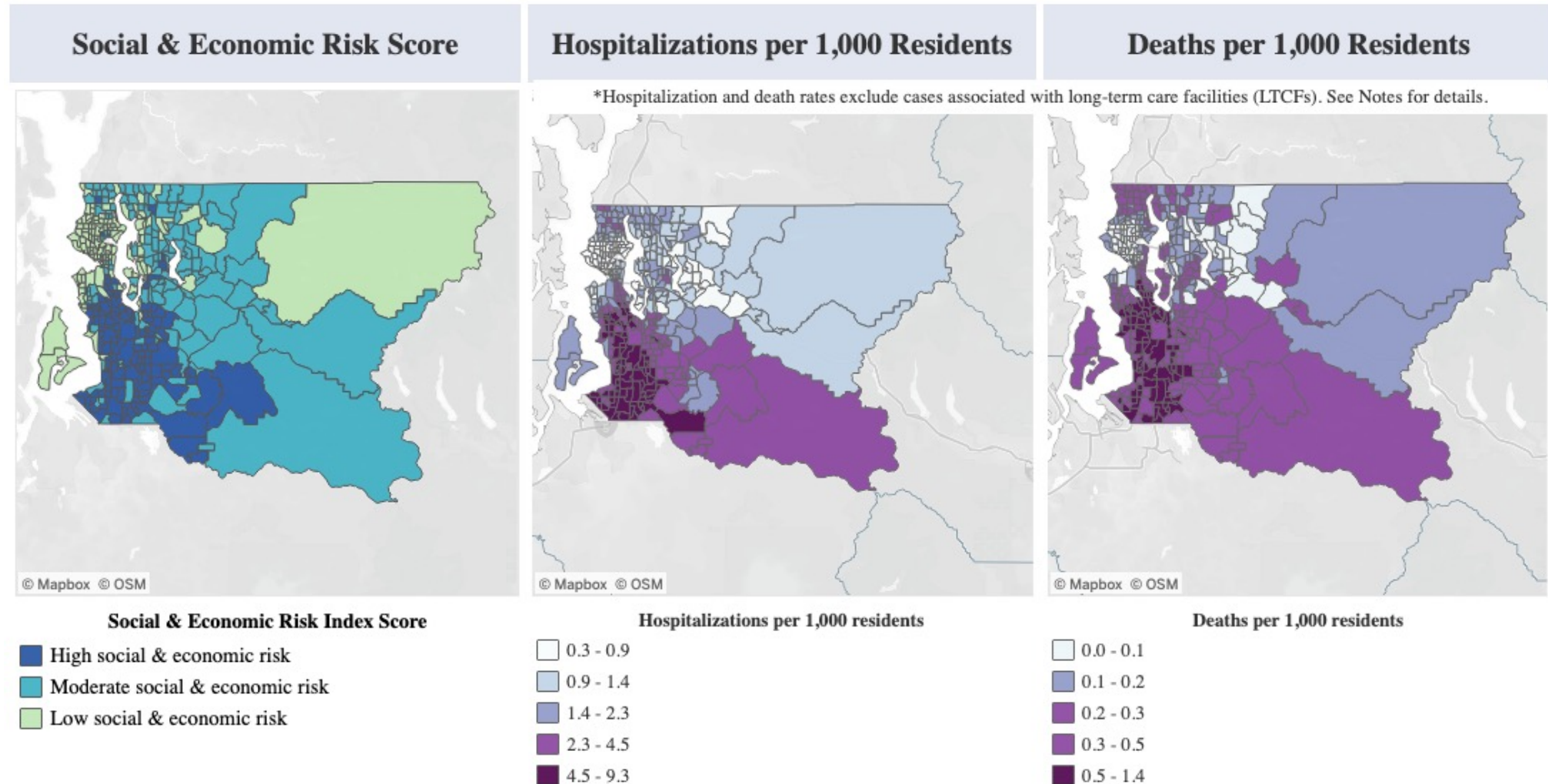
Relationship of SVI to COVID-19 Testing and Cases

3/1/2020 to 8/31/2021

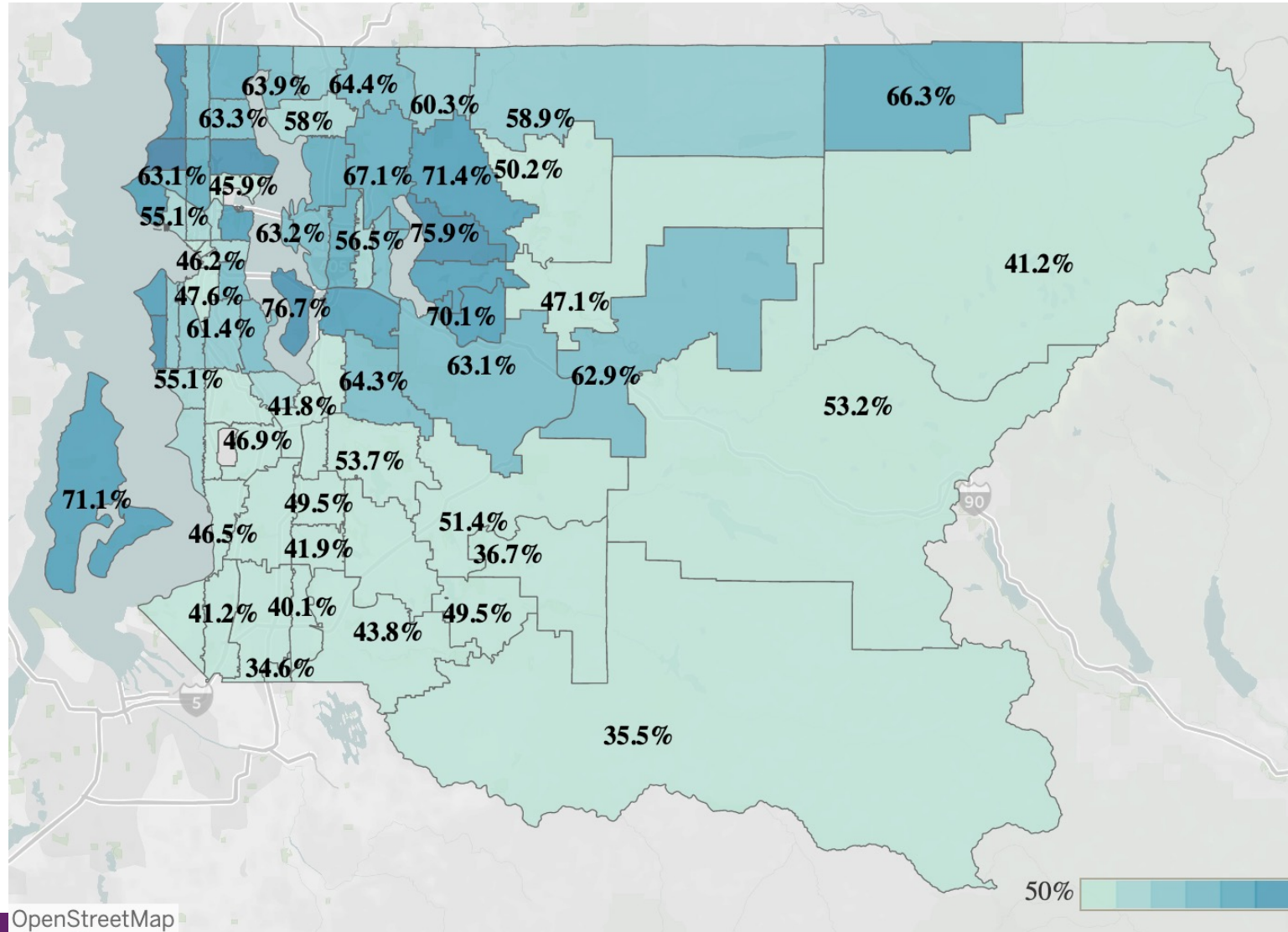


Relationship of SVI to COVID-19 Hospitalizations and Deaths

3/1/2020 to 8/31/2021



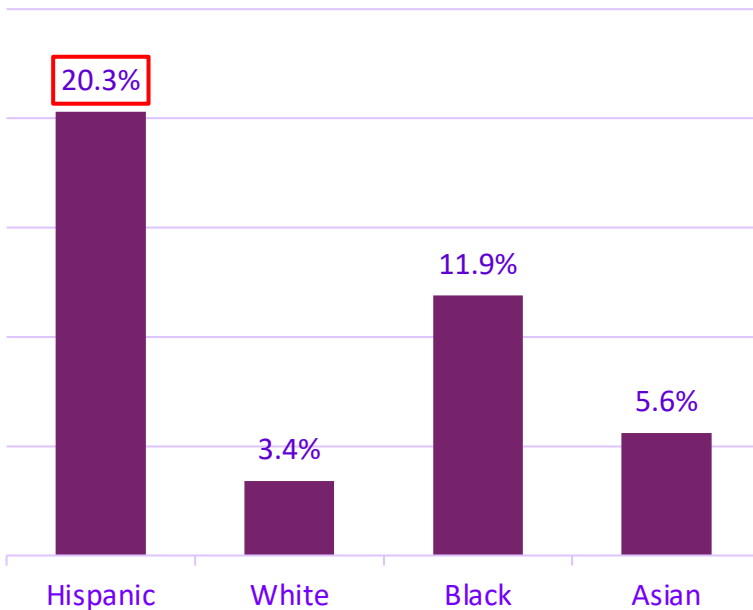
Up to Date Vaccination Rates by Zip Code (as of 5/9/2022)



Results from Household Pulse Survey¹ for Washington State, December 29, 2021-January 10, 2022

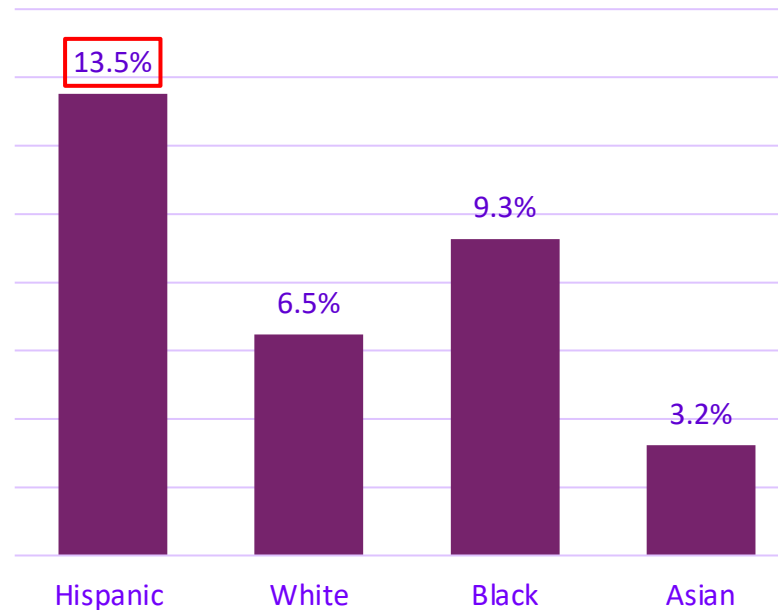
Access to Care

Current Insurance Status
(Uninsured)



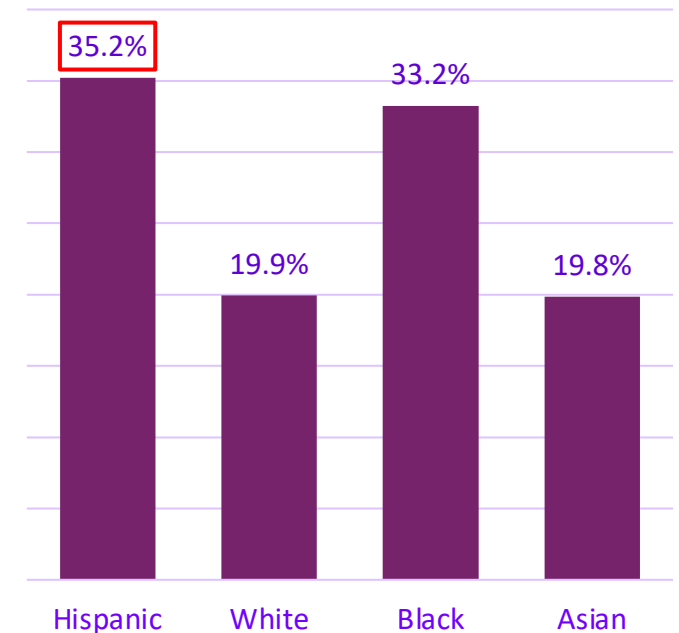
Food Security

Sometimes or Often Not Enough
to Eat Last 7 Days



Financial Security

Somewhat or Very Difficult
to Pay for Household
Expenses Last 7 Days



Impact of COVID-19 on the Black and Latino Mortality and Life Expectancy

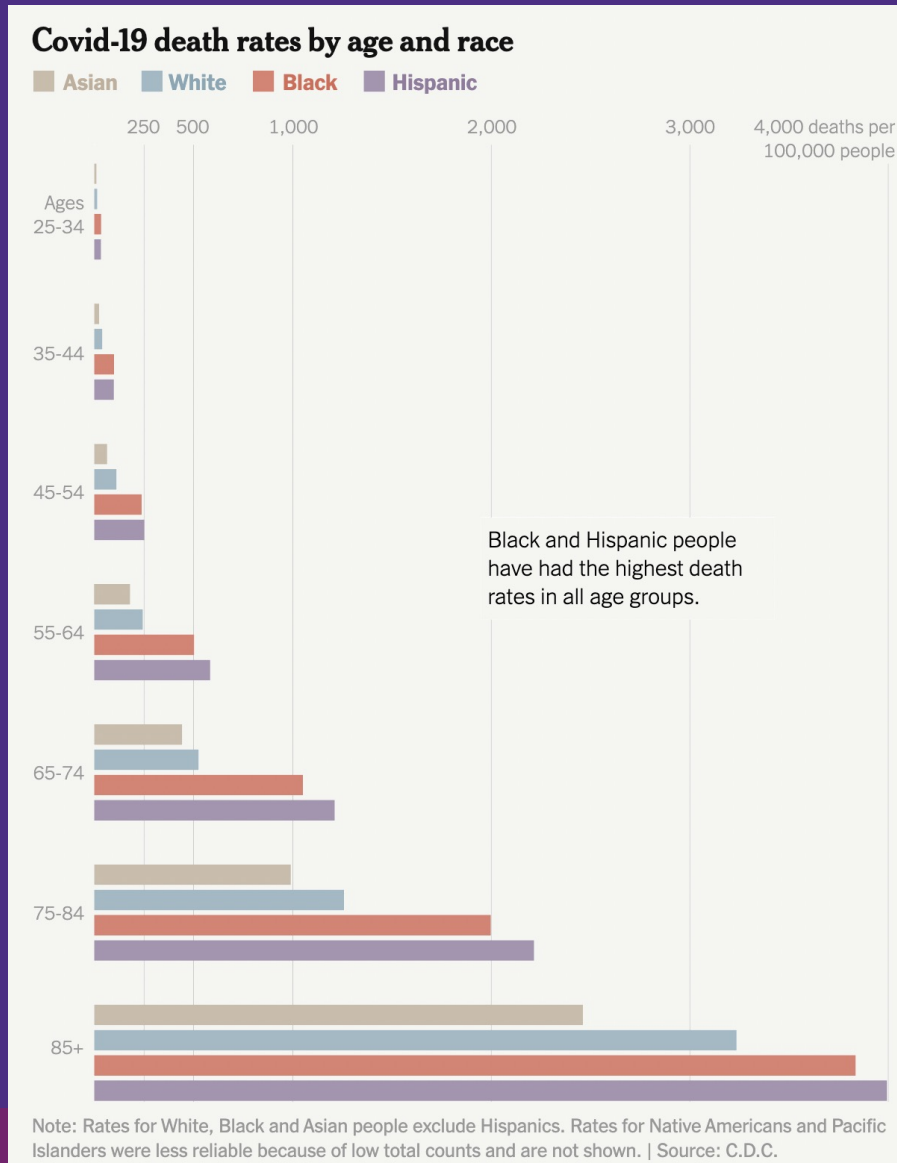
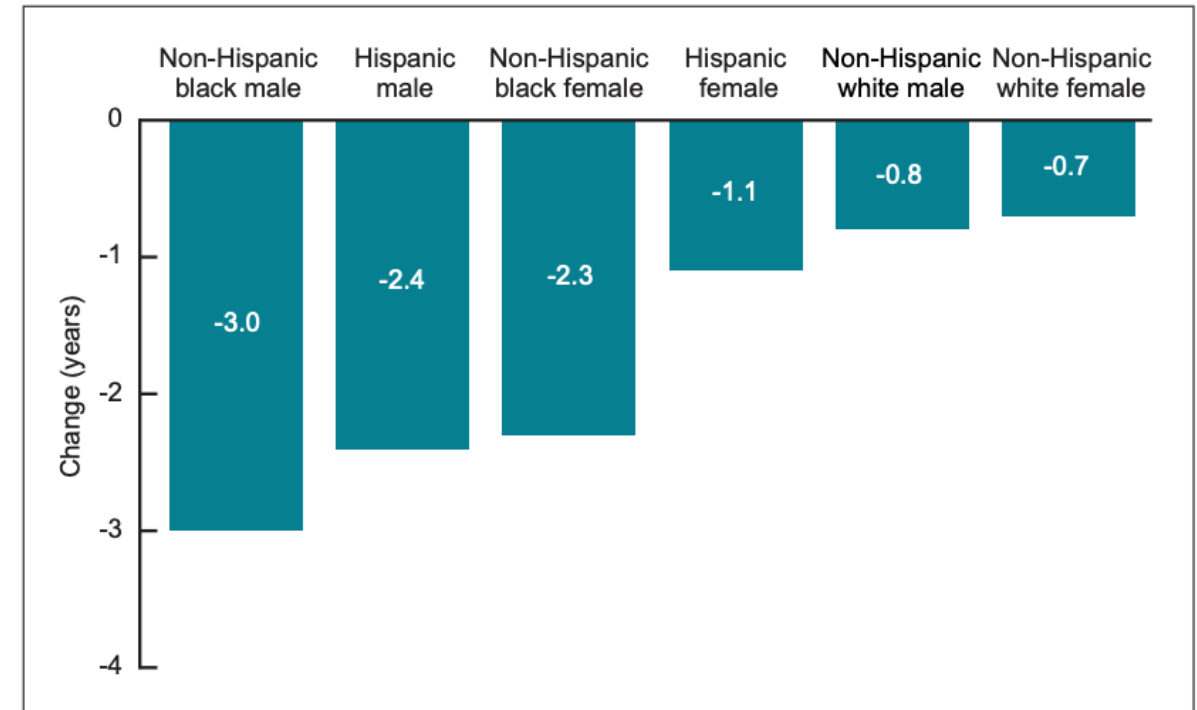


Figure 4. Change in life expectancy at birth, by Hispanic origin and race and sex: United States, 2019 and 2020



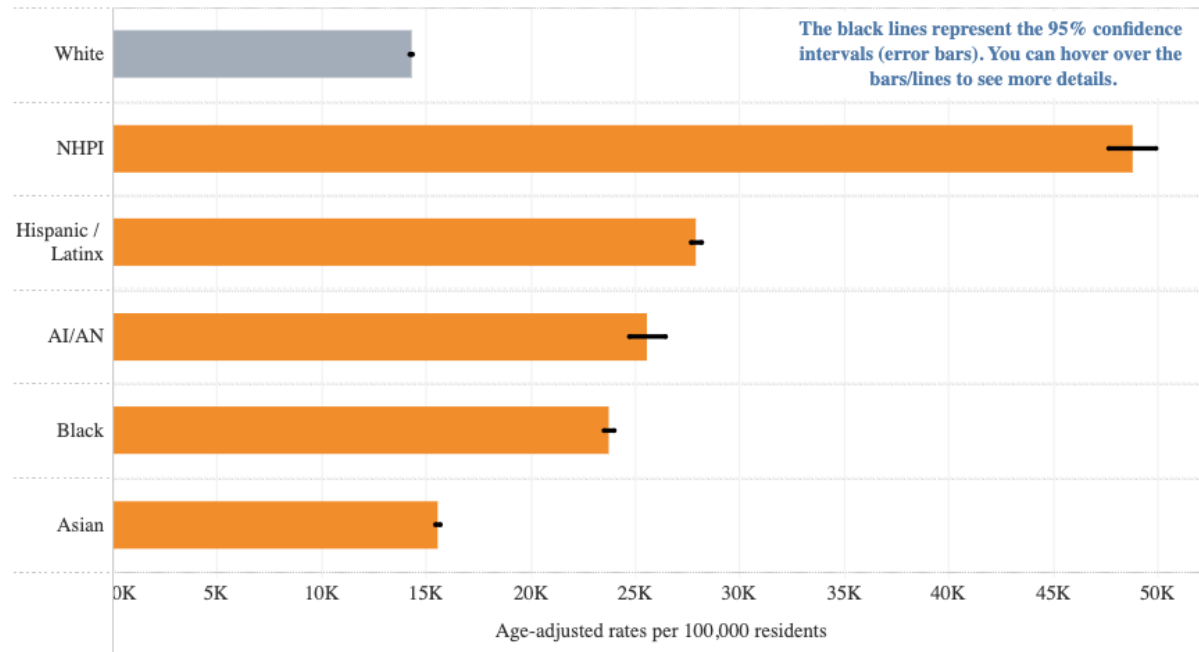
NOTES: Life expectancies for 2019 by Hispanic origin and race are not final estimates; see Technical Notes. Estimates are based on provisional data from January 2020 through June 2020.

SOURCE: National Center for Health Statistics, National Vital Statistics System, Mortality data.

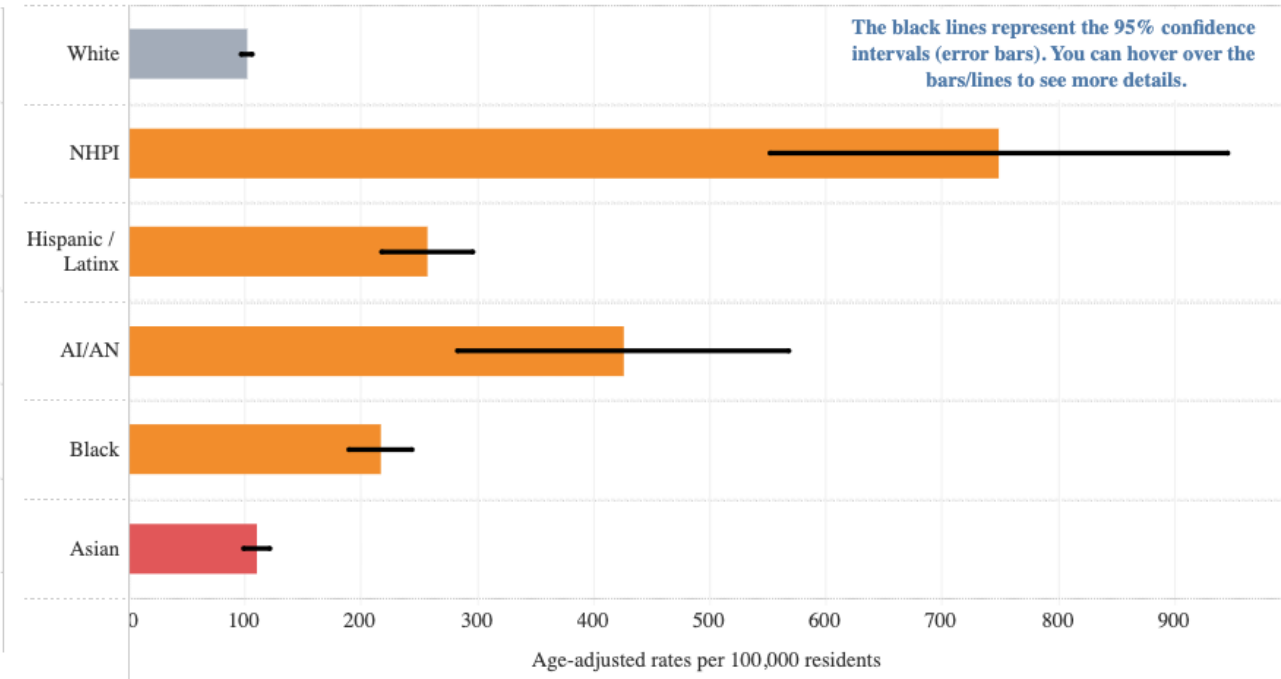
Source: Arias E, Tejada-Vera B, Ahmad F. Provisional life expectancy estimates for January through June, 2020. Vital Statistics Rapid Release; no 10. Hyattsville, MD: National Center for Health Statistics. February 2021. DOI: <https://dx.doi.org/10.15620/cdc:100392>.

COVID-19 Cases and Deaths in King County as of 05/17/2022

Case Rates



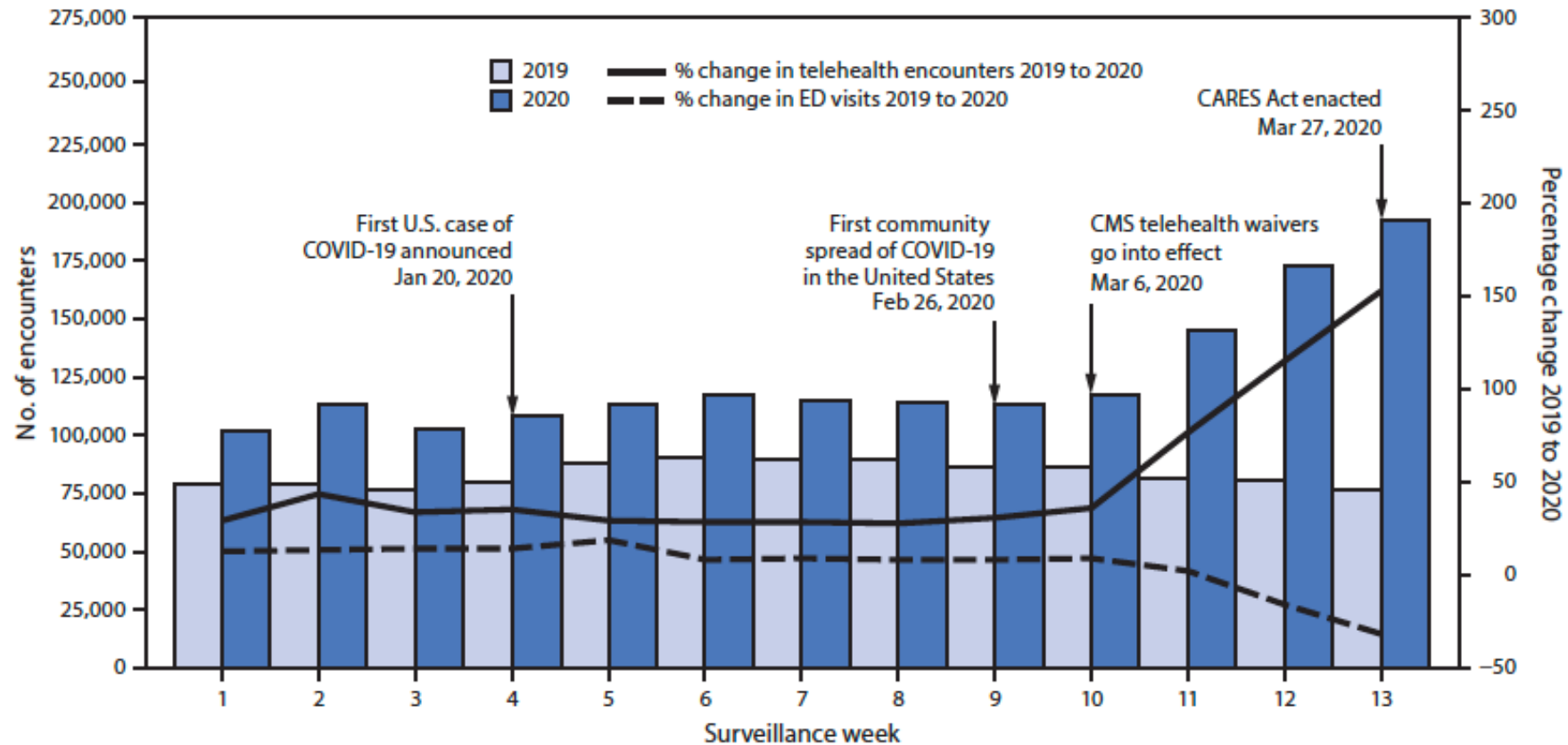
Death Rates



WA State data shows same patterns of disparities in COVID outcomes

Effect of COVID-19 on Telehealth Use

FIGURE 1. Number of telehealth patient encounters reported by four telehealth providers that offer services in all states and percentage change in telehealth encounters and emergency department (ED) visits — United States, January 1–March 30, 2019 (comparison period) and January 1–March 28, 2020 (early pandemic period)*



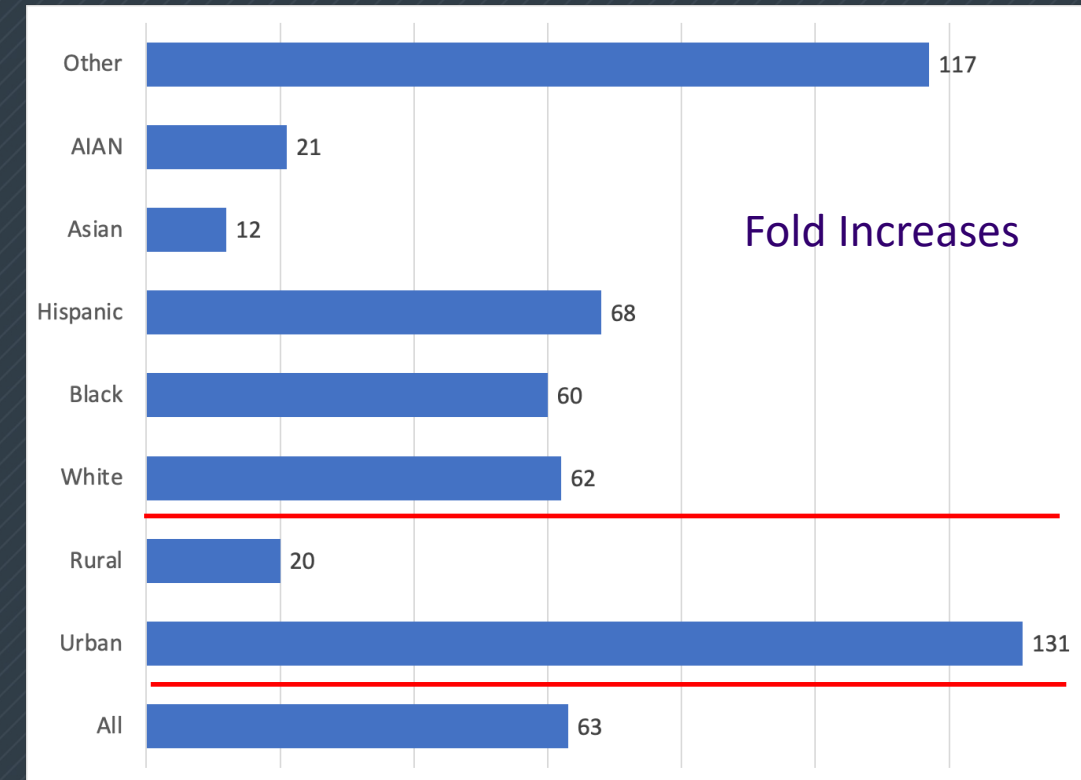
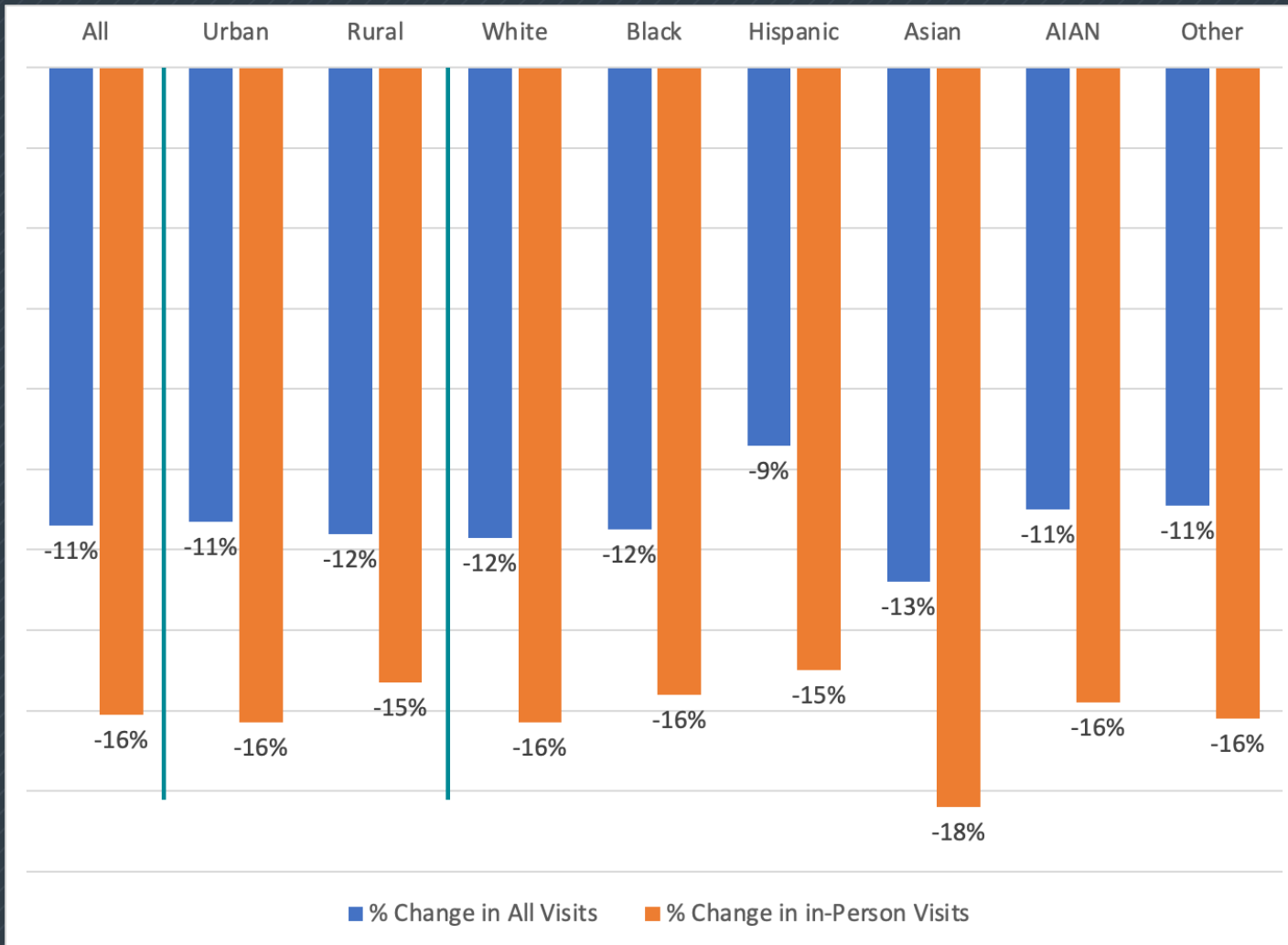
Abbreviations: CARES Act = Coronavirus Aid, Relief, and Economic Security Act; CMS = Center for Medicare & Medicaid Services; COVID-19 = coronavirus disease 2019.

* Unpublished ED visit data obtained from the National Syndromic Surveillance Program.

Source: Koonin LM, Hoots B, Tsang CA, et al. Trends in the Use of Telehealth During the Emergence of the COVID-19 Pandemic — United States, January–March 2020. MMWR Morb Mortal Wkly Rep 2020;69:1595–1599.

Trends in Visit Type

Medicare FFS Part B Visits from 2019 to 2020

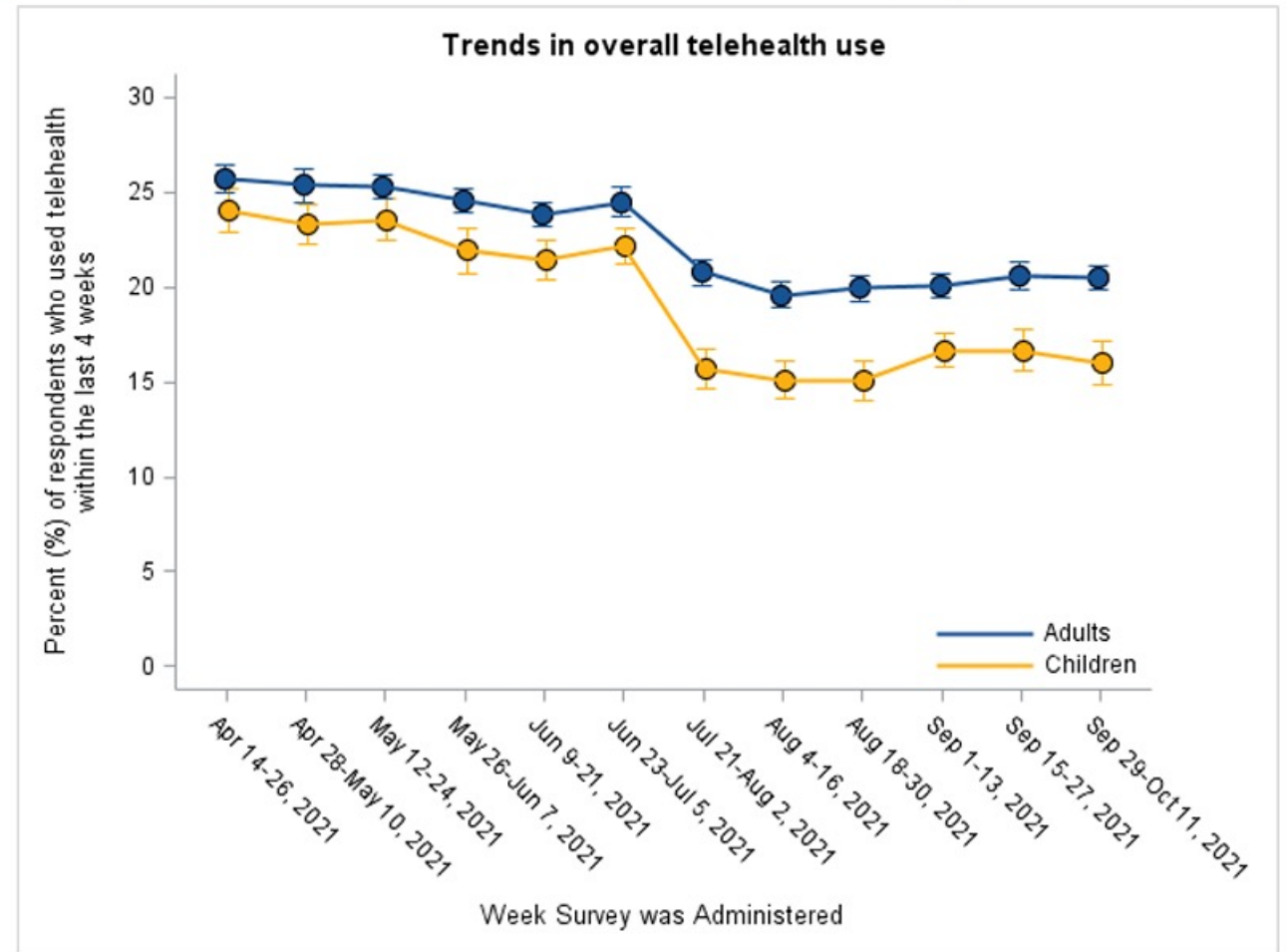


Source: Samson, L., Tarazi, W., Turrini, G., Sheingold, S., Medicare Beneficiaries' Use of Telehealth Services in 2020 – Trends by Beneficiary Characteristics and Location (Issue Brief No. HP-202127). Office of the Assistant Secretary for Planning and Evaluation, U.S. Department of Health and Human Services. December, 2021.

Telehealth Use is Uneven in US Population Sample

- Lowest Rates: uninsured (9.4%) and young adults (18-24) (17.6%)
- Highest rates: Medicaid (29.3%) and Medicare (27.4%), Black individuals (26.8%), and those earning less than \$25,000 (26.7%).

Figure 1. Percentage of Adults and Children* Who Used Telehealth Services, April 14 - October 11, 2021



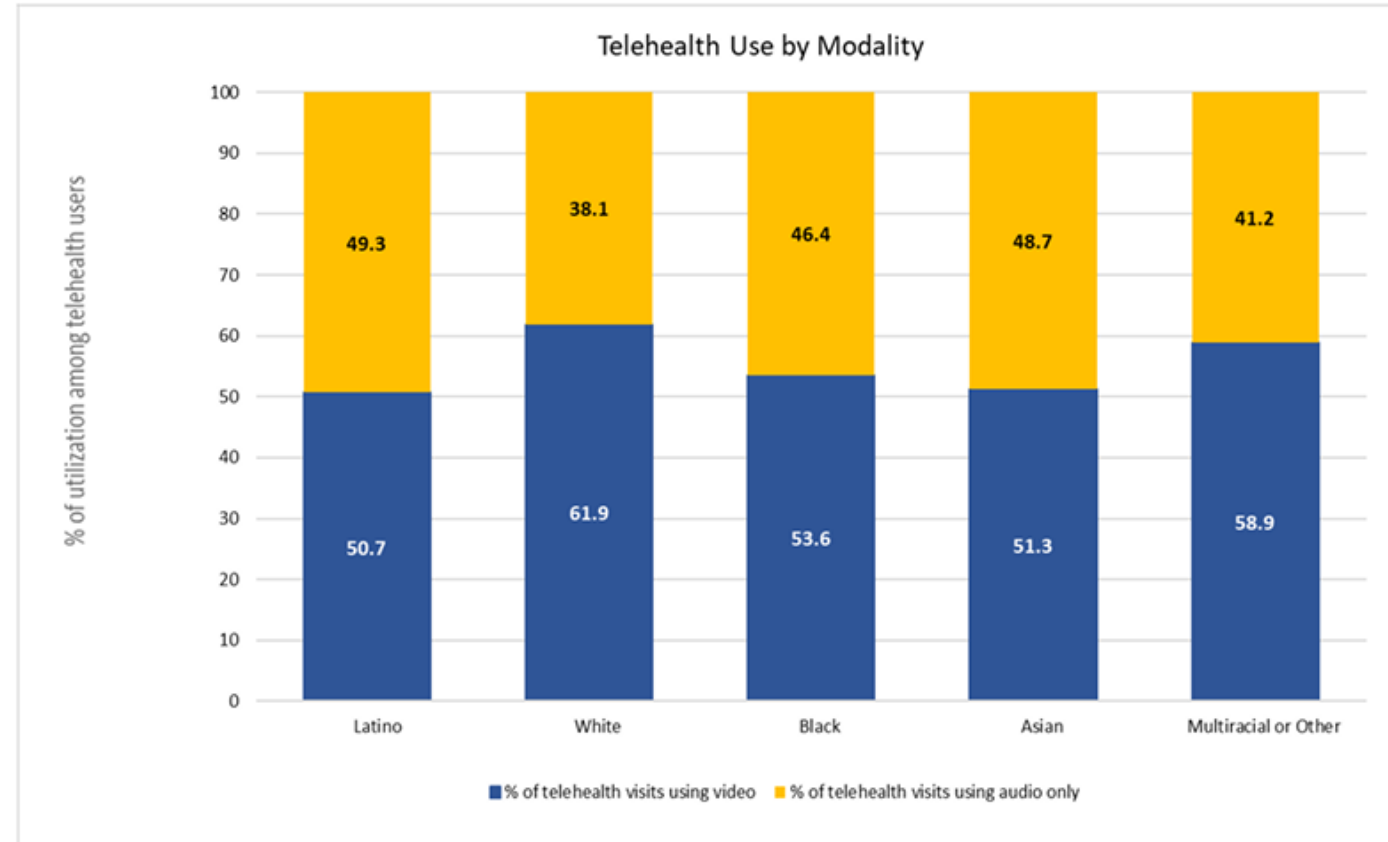
Note: *Reflects telehealth use reported by adult respondents for any child in the household over the previous 4 weeks.

Survey: April 14, 2021 and October 11, 2021, 808,368 adults across all 50 states and Washington D.C. responded to the survey. 267,106 (33.1%) were from households with at least one child under the age of 18

Video versus Phone

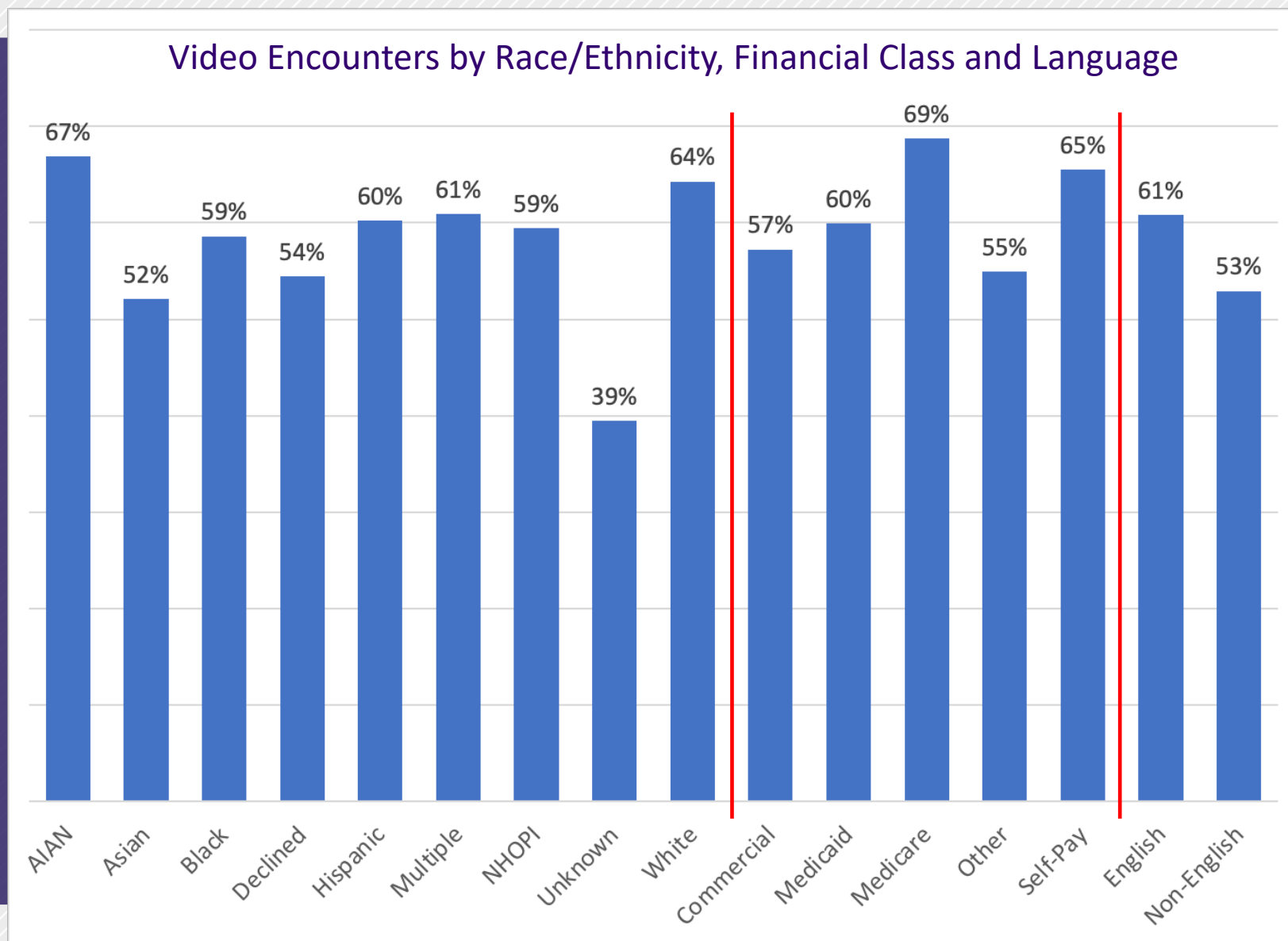
- Highest use of video: adults ages 18 to 24 (72.5%), income >\$100,000 (68.8%), private insurance (65.9%), and White individuals (61.9%).
- Lowest use of video: <high school diploma (38.1%), adults 65 and older (43.5%), and Latino (50.7%), Asian (51.3%) and Black individuals (53.6%).

Figure 2. Telehealth Modality (Video vs. Audio) Among Telehealth Users, By Race/Ethnicity



UW Medicine Telehealth Equity Dashboard

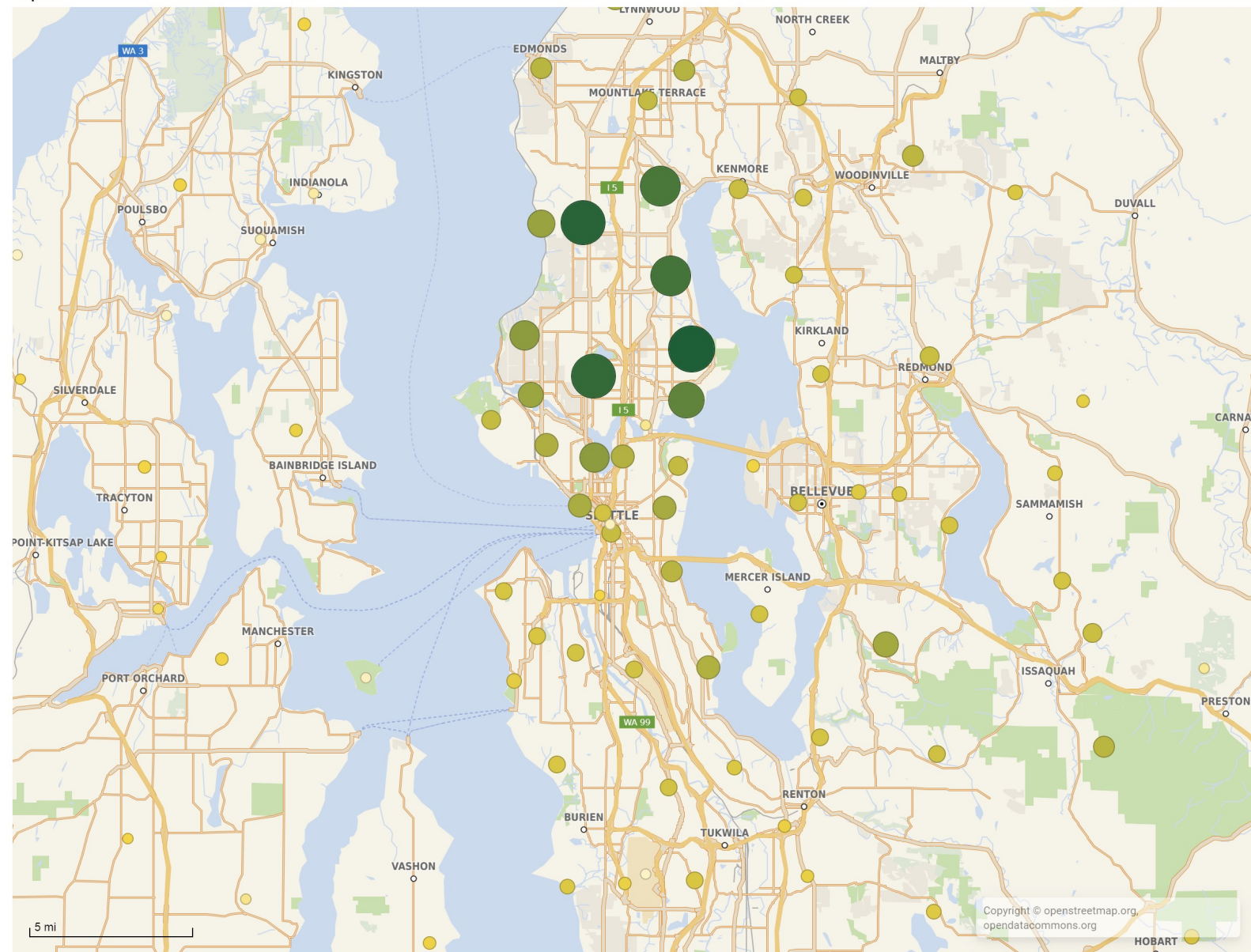
- Empaneled patients with 1+ office visit in past 2 years.
- Excludes VMC



UW Medicine Telehealth Equity Dashboard

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- Excludes VMC

Map Chart



Improve Health Care Outcomes by Integrating Social Care

Findings from Integrating Social Care into the Delivery of Health Care: Moving Upstream to Improve the Nation's Health. - *National Academy of Sciences, Engineering and Medicine*



1. AWARENESS

Increase the Health Care Sector's Awareness of Social Risk Factors Their Patients Face (e.g., ask people about their access to transportation)



2. ADJUSTMENT

Use Information on Social Risk Factors to Inform Clinical Care Decision-Making (e.g., offer alternatives to in-person care, such as telehealth appointments)



3. ASSISTANCE

Link Patients with Social Needs to Community and Government Resources (e.g., provide transportation vouchers for ridesharing,

public transit, or in contract with a community-based organization that provides transportation services, so patients can travel to and from health care appointments)



4. ALIGNMENT

Align Health Care Assets with Existing Social Care Assets (e.g., invest in community ridesharing)



5. ADVOCACY

Advocate for More Social Resources to Improve Community Health and Well-Being (e.g., promote policies that fundamentally change the community's transportation infrastructure)

Health Systems are at Early Stages of Adopting Social Care (Bree Collaborative)

Advancing Equity: To improve equitable health care access, quality, and outcomes by collecting patient demographic data – reducing bias and stigma, identifying and creating new tools, developing partnership guidelines

Social Need Screening: To improve screening workflows to facilitate implementation of SDOH screening tools through ethical infrastructure and acting on that data to reduce inequities – who, when, how and where to collect data – synchronous and asynchronous approaches

Storing and Sharing Data: To develop data storage and sharing strategies that protect patient safety and inform better care - privacy, intra-institutional data sharing

Social Need Interventions: To develop strategies to follow-up on patient social need that leverage resources from within and beyond the healthcare delivery system

UW Medicine SDOH Workgroup



Mission: This workgroup seeks to ensure that UW Medicine captures information on SDoH across clinical settings in an evidence-based and systematic way. Further, this workgroup will develop a referral process and network to address identified social risks/needs. Our overarching goal is to improve population health through a comprehensive approach that addresses key social factors influencing health.

Objectives:

- Identify SDOH Screening Tools
- Implement SDOH Screening Tool Across Clinical Settings
- Create a Referral Process for Identified Needs
- Develop a Quality Improvement Process for SDOH Screening and Referrals

Discussion

