

Asian Americans and COVID-19 Pandemic: Updates

ARCH Meeting

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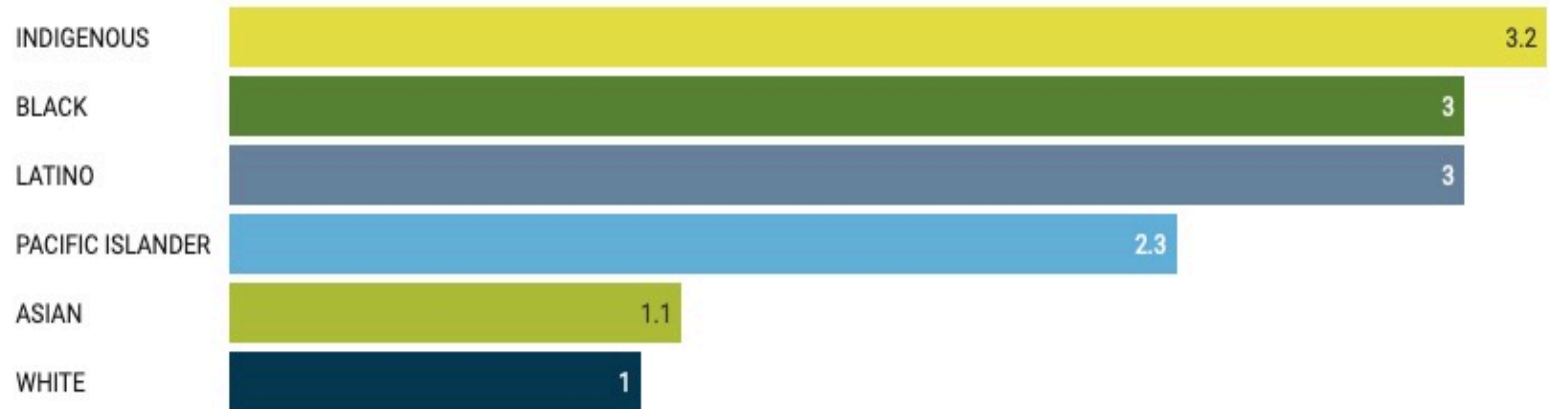


*Division of
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UNIVERSITY OF CALIFORNIA, SAN FRANCISCO, SCHOOL OF MEDICINE

Adjusted for age, other racial groups are this many times more likely to have died of COVID-19 than White Americans

Reflects mortality rates calculated through Nov. 10.



Indirect age-adjustment has been used.

Source: [APM Research Lab](#) • [Get the data](#) • Created with [Datawrapper](#)

Asian American COVID Cases and Deaths by Selected States

<https://covidtracking.com/race/dashboard>

	% of Pop.	% of Cases	% of Deaths
Alaska	6	6	9
California	14	6	12
Colorado	3	2	3
Georgia	4	2	2
Hawaii	38	34	59
Illinois	5	3	4
Indiana	2	2	<1
Louisiana	2	6	<1
Maryland	6	2	4
Massachusetts	6	3	2
Minnesota	5	5	4
Nevada	8	7	11
Oregon	4	3	3
Pennsylvania	3	3	2
Texas	5	2	2
Vermont	2	4	3
Virginia	6	4	4
Washington	8	5	7

Ethnicity and clinical outcomes in COVID-19: A systematic review and meta-analysis

18,728,893 patients

- 26 peer-reviewed studies
- 42 US studies, 8 UK studies
- Relative risk for infection for Asians, all 50 studies: 1.50 (95% CI 1.24-1.83)
- Relative risk for infection for Asians, peer reviewed studies: 1.51 (1.22-1.88)
- Relative risk for ICU admission for Asians: 1.97 (1.34-2.89)
- Relative risk for death for Asians: 1.22 (0.99-1.50)

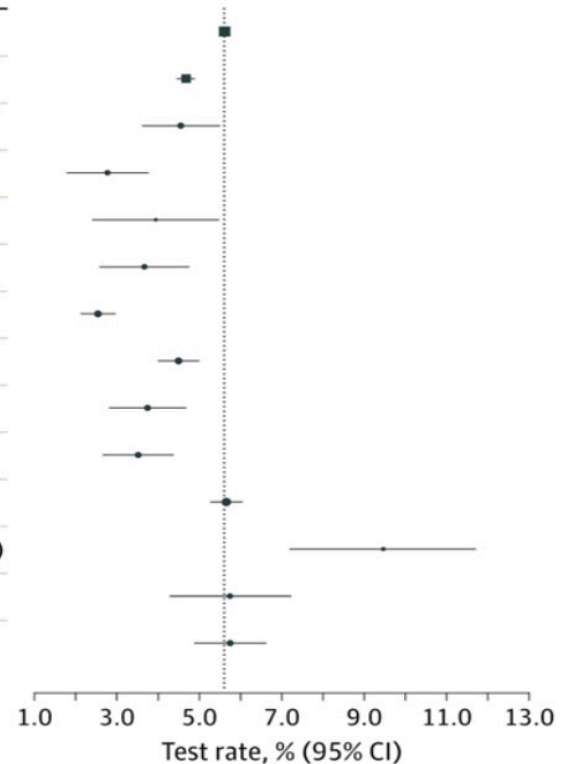
Assessment of Disparities in COVID-19 Testing and Infection Across Language Groups in Seattle, Washington

- 30 925 of 562,242 patients (5.5%) were tested.
- 6% non-English speakers
 - Less likely to get tested (4.7%) vs. English speakers (5.6%)
 - Higher proportion of positive cases (18.6%) vs. English speakers (4.0%)
 - Excess risk seen across multiple languages and across largest 3 non-English speaking groups: Spanish, Vietnamese, Amharic

Assessment of Disparities in COVID-19 Testing and Infection Across Language Groups in Seattle, Washington

Figure 1. Proportion of Patients Tested for Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) by Language

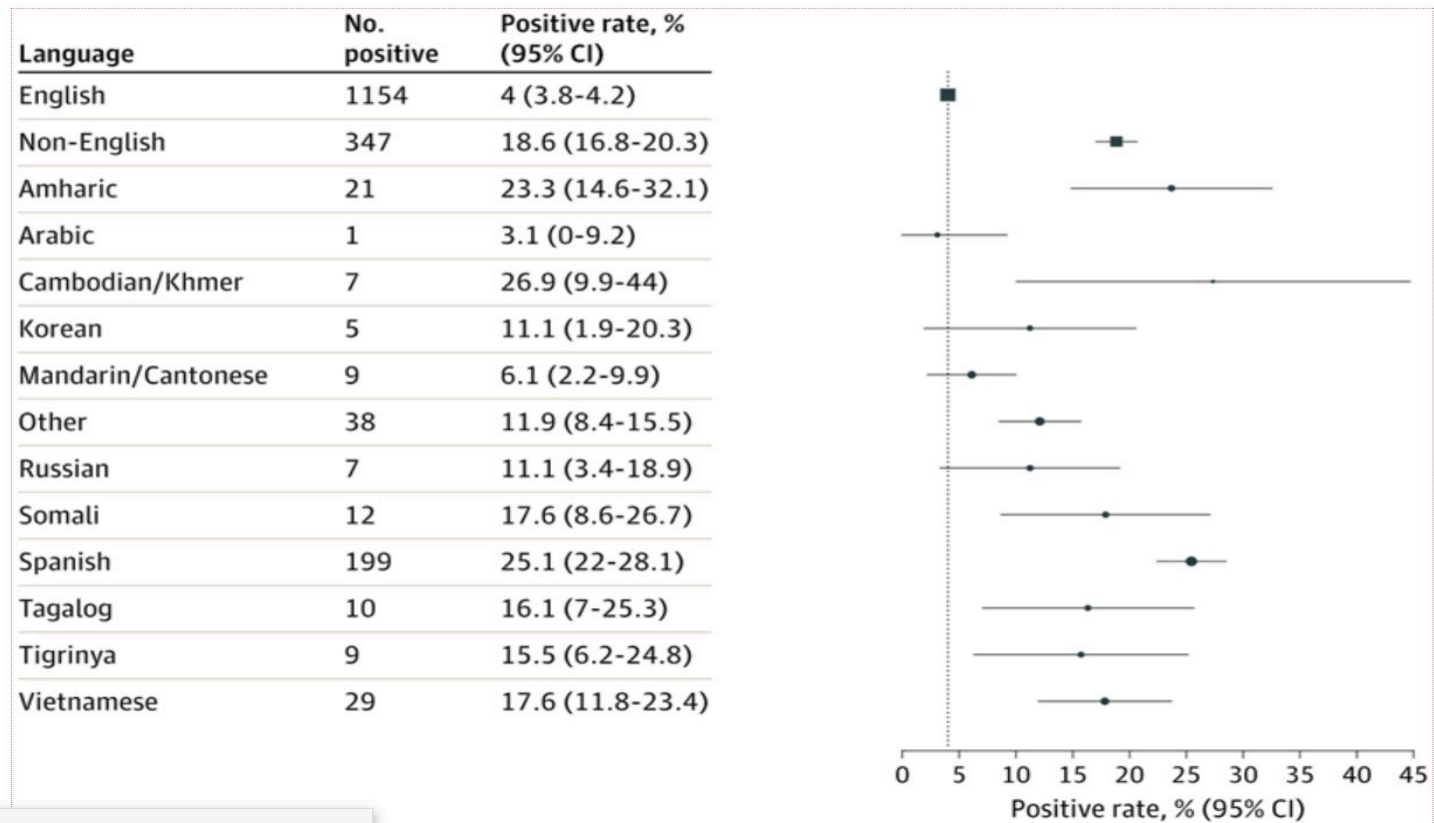
Language	No. tested	Test rate, % (95% CI)
English	28 762	5.6 (5.6-5.7)
Non-English	1869	4.7 (4.5-4.9)
Amharic	90	4.6 (3.7-5.5)
Arabic	32	2.8 (1.9-3.8)
Cambodian/Khmer	26	4 (2.5-5.5)
Korean	45	3.7 (2.7-4.8)
Mandarin/Cantonese	148	2.6 (2.2-3)
Other	318	4.5 (4-5)
Russian	63	3.8 (2.9-4.7)
Somali	68	3.6 (2.7-4.4)
Spanish	794	5.7 (5.3-6.1)
Tagalog	62	9.4 (7.2-11.6)
Tigrinya	58	5.8 (4.3-7.2)
Vietnamese	165	5.8 (4.9-6.6)



Assessment of Disparities in COVID-19 Testing and Infection Across Language Groups in Seattle, Washington

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Figure 2. Proportion of Patients Testing Positive for Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) by Language

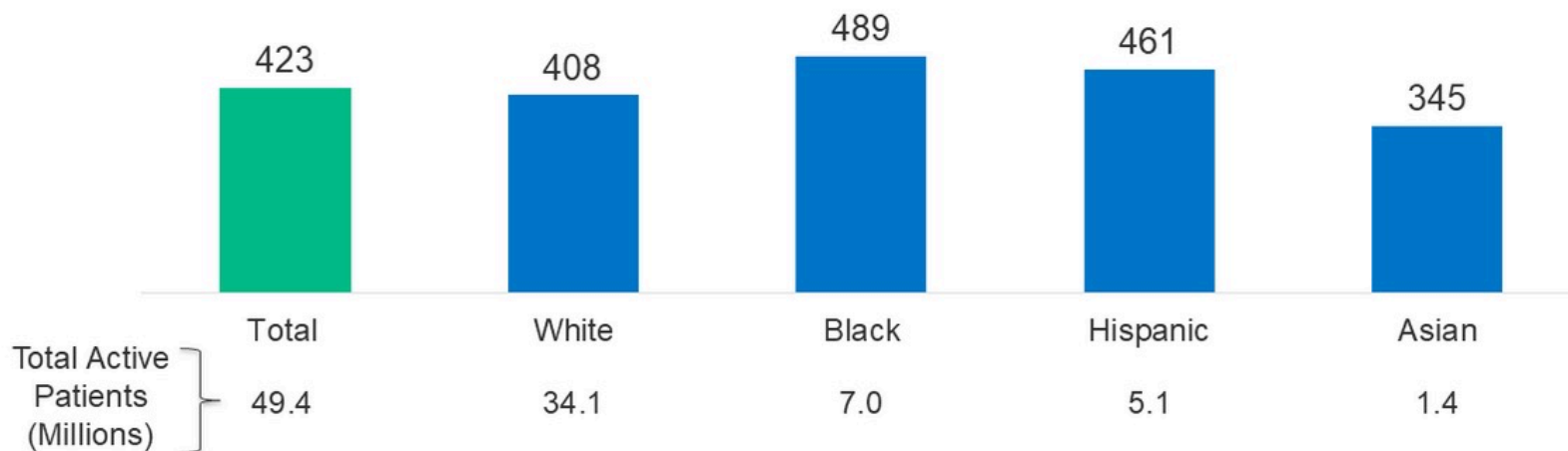


COVID-19 Racial Disparities in Testing, Infection, Hospitalization, and Death: Analysis of Epic Patient Data

Figure 1

COVID-19 Testing Rate among Active Epic Patients by Race/Ethnicity, as of July 2020

Share of active Epic patients who received a COVID-19 test, per 10,000:



NOTE: Rates for Black, Hispanic, and Asian patients are statistically significantly different from White patients at the $p < 0.05$ level. Persons of Hispanic origin may be of any race but are categorized as Hispanic; other groups are non-Hispanic. Data for other racial groups not shown due to insufficient data.

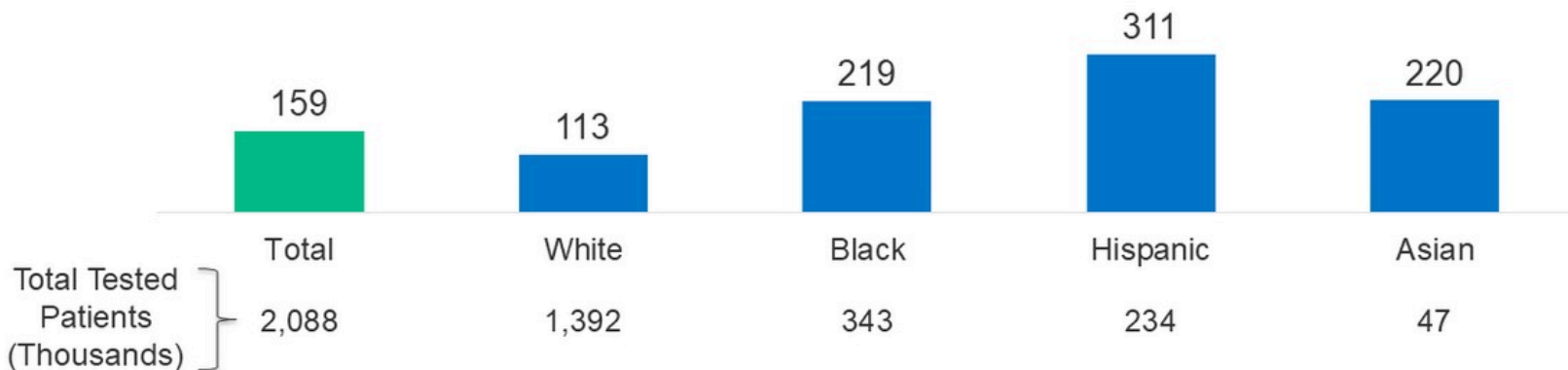
SOURCE: Epic and KFF analysis of Epic Health Record System COVID-19 related data as of July 2020.

Figure 1: COVID-19 Testing Rate among Active Epic Patients by Race/Ethnicity, as of July 2020

Figure 2

Positive COVID-19 Test Rate Among Active Epic Patients by Race/Ethnicity, as of July 2020

Share of tested active Epic patients who tested positive, per 1,000:



NOTE: Rates for Black, Hispanic, and Asian patients are statistically significantly different from White patients at the $p < 0.05$ level. Persons of Hispanic origin may be of any race but are categorized as Hispanic; other groups are non-Hispanic. Data for other racial groups not shown due to insufficient data.

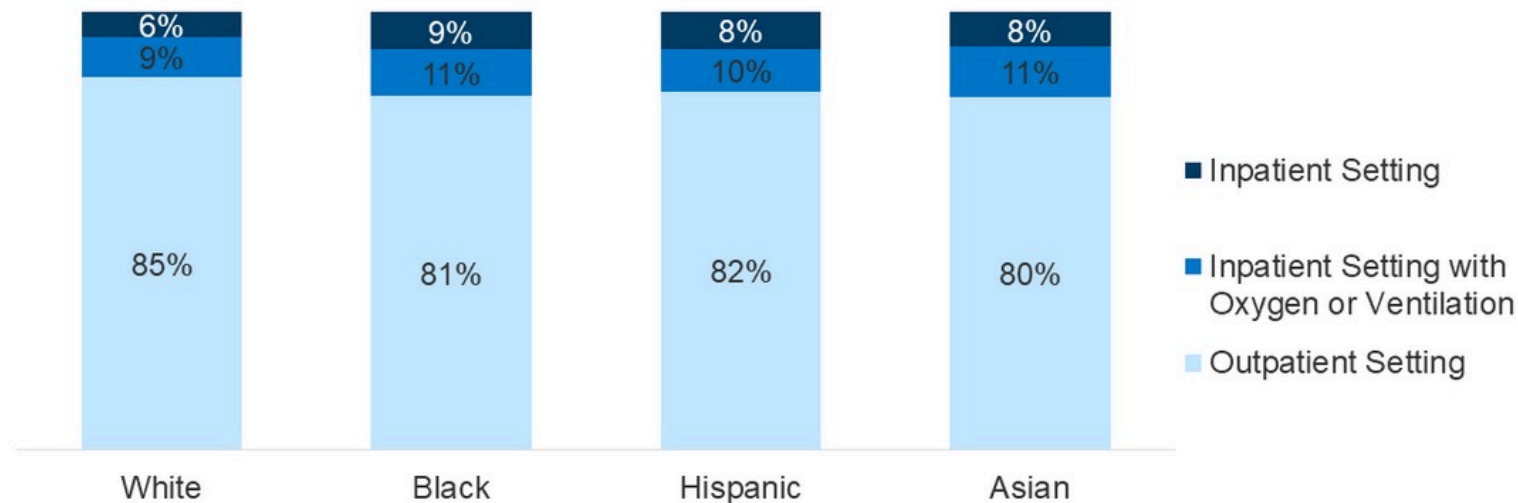
SOURCE: Epic and KFF analysis of Epic Health Record System COVID-19 related data as of July 2020.



Figure 2: Positive COVID-19 Test Rate Among Active Epic Patients by Race/Ethnicity, as of July 2020

Figure 3

Level of Care at Time Patient Tested Positive for COVID-19 among Active Epic Patients by Race/Ethnicity, as of July 2020



NOTE: Rates for Black, Hispanic, and Asian patients are statistically significantly different from White patients at the $p < 0.05$ level. Persons of Hispanic origin may be of any race but are categorized as Hispanic; other groups are non-Hispanic. Data for other racial groups not shown due to insufficient data. Less than one percent of each group were deceased at time of diagnosis. Totals may not sum to 100% due to rounding and exclusion of small shares who were deceased.

SOURCE: Epic and KFF analysis of Epic Health Record System COVID-19 related data as of July 2020.

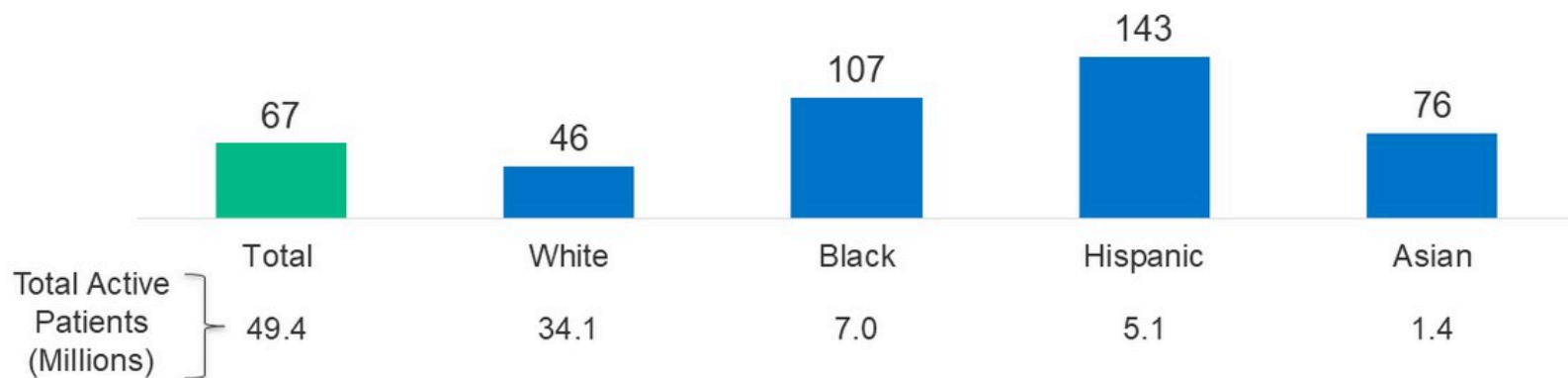


Figure 3: Level of Care at Time Patient Tested Positive for COVID-19 among Active Epic Patients by Race/Ethnicity, as of July 2020

Figure 4

COVID-19 Cases among Active Epic Patients by Race/Ethnicity, as of July 2020

Share of active Epic patients with a positive COVID-19 case, per 10,000:



NOTE: Rates for Black, Hispanic, and Asian patients are statistically significantly different from White patients at the $p < 0.05$ level. Persons of Hispanic origin may be of any race but are categorized as Hispanic; other groups are non-Hispanic. Data for other racial groups not shown due to insufficient data.

SOURCE: Epic and KFF analysis of Epic Health Record System COVID-19 related data as of July 2020.



Figure 4: COVID-19 Cases among Active Epic Patients by Race/Ethnicity, as of July 2020

Figure 5

COVID-19 Hospitalization and Death Rates among Active Epic Patients by Race/Ethnicity, as of July 2020

Share of active Epic patients who were hospitalized and share who died, per 10,000:

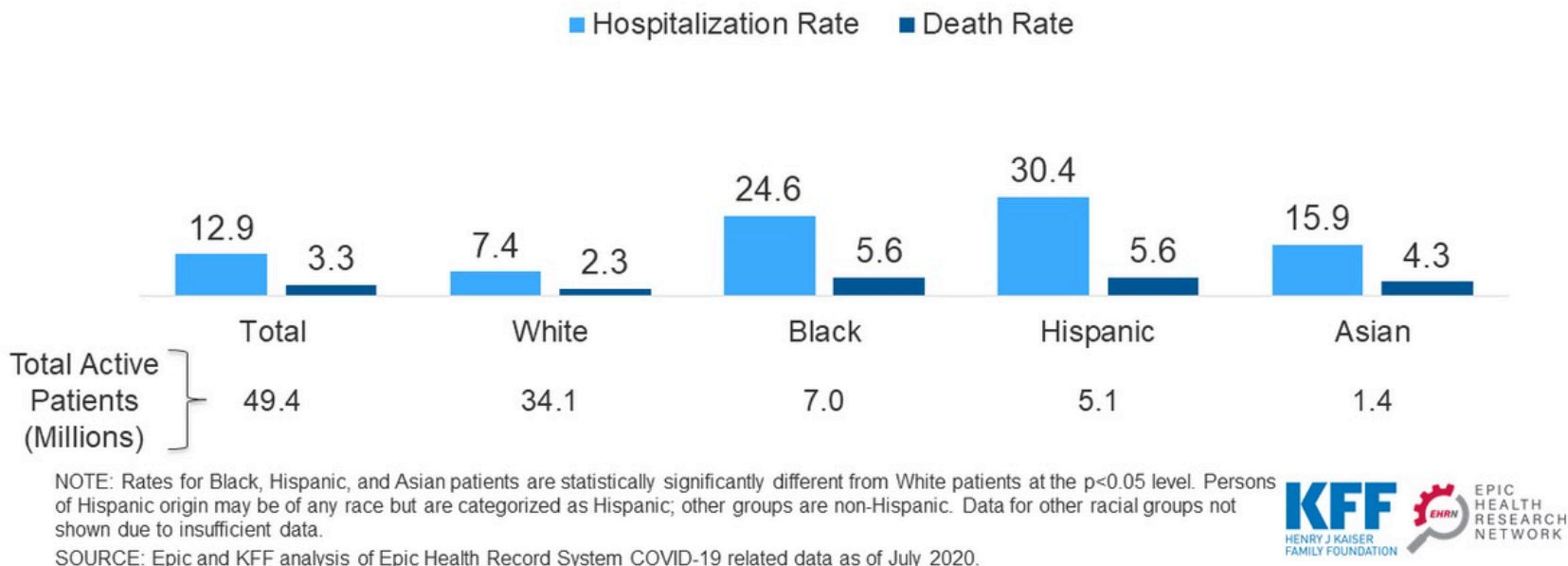
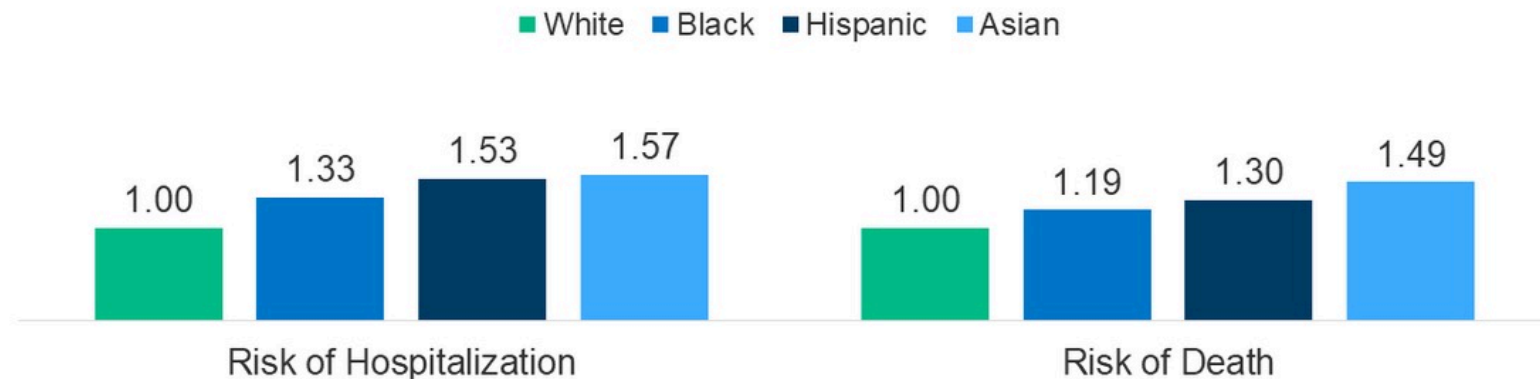


Figure 5: COVID-19 Hospitalization and Death Rates among Active Epic Patients by Race/Ethnicity, as of July 2020

Figure 6

Risk of Hospitalization and Death among Epic Patients who Tested Positive for COVID-19

Probability of experiencing hospitalization or death compared to White patients with similar sociodemographic characteristics and underlying health conditions:



NOTE: Persons of Hispanic origin may be of any race but are categorized as Hispanic; other groups are non-Hispanic. Data for other racial groups not shown due to insufficient data. Values shown are hazard ratios after controlling for age, sex, geographic social vulnerability, and select comorbidities.

SOURCE: Epic and KFF analysis of Epic Health Record System COVID-19 related data as of July 2020.

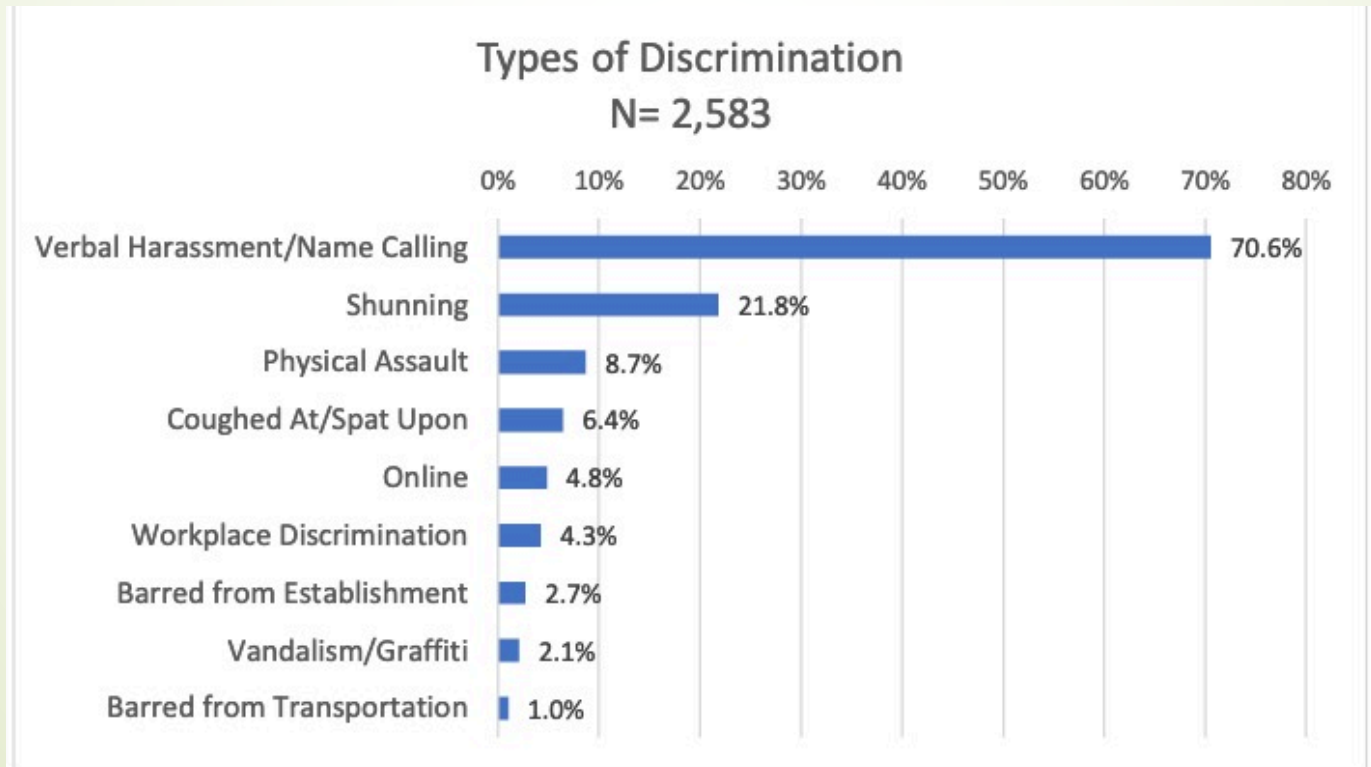
Figure 6: Risk of Hospitalization and Death among Epic Patients who Tested Positive for COVID-19

COVID-19 Racial Disparities in Testing, Infection, Hospitalization, and Death: Analysis of Epic Patient Data: Summary

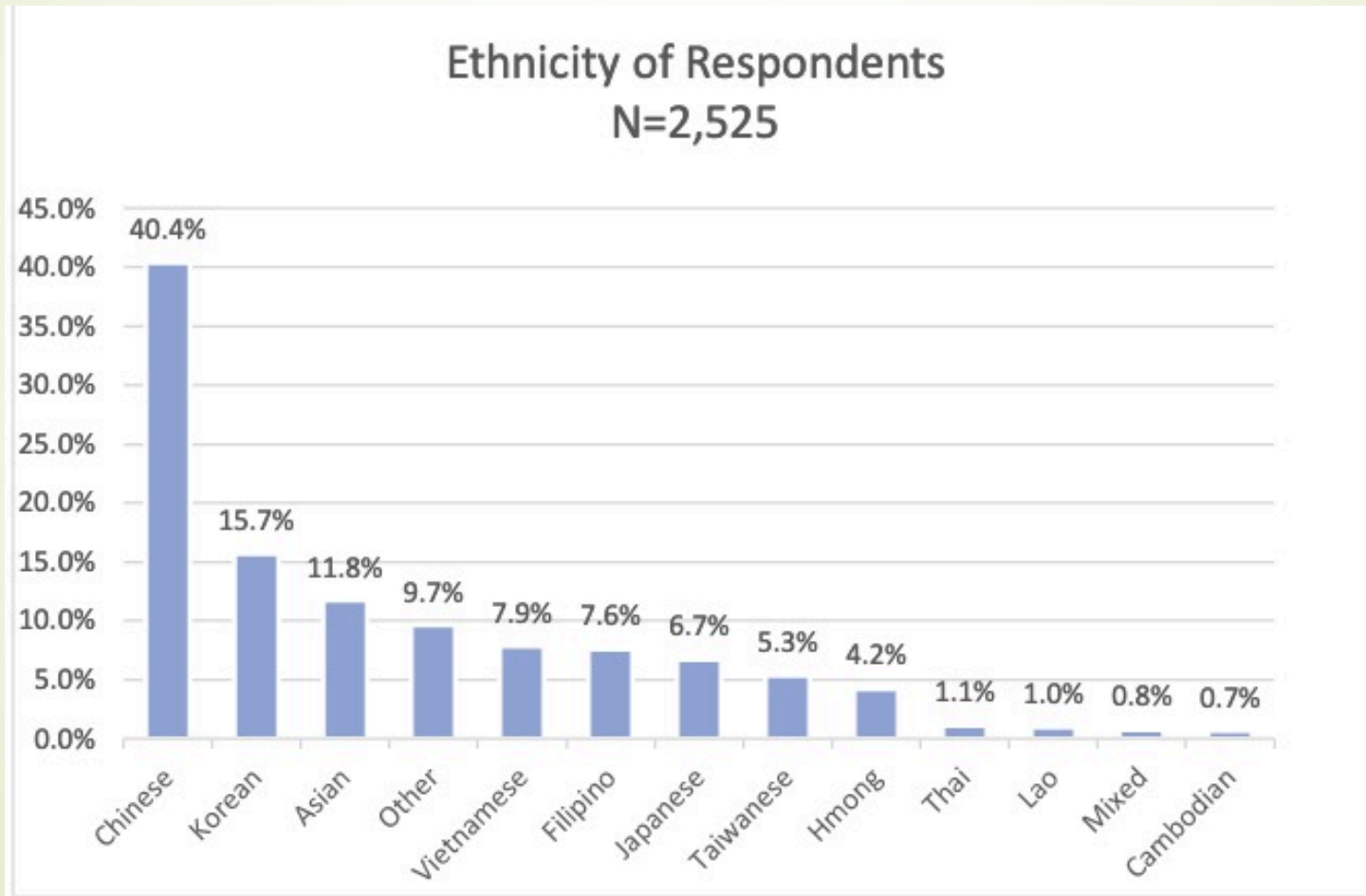
- ~50 million patients in the EPIC electronic health record system, analyzed in July 2020
- Asian Americans compared to White
 - Less likely to get tested (345 vs. 408/10,000)
 - Twice as likely to test positive (220 vs. 113/1000)
 - More likely to have COVID (76 vs. 46/10,000)
 - More likely to require hospitalization (15.9 vs. 7.4/10,000)
 - Relative risk for hospitalization 1.57
 - More likely to require inpatient (8% vs. 6%)
 - More likely to be inpatient with oxygen or on ventilator (11% vs. 9%)
 - More likely to die from COVID (4.3 vs. 2.3/10,000)
 - Relative risk for death 1.49

Asian Americans and the COVID-19 Pandemic: Racism

- ➡ Stop AAPI Hate update 3/19/20-8/5/20
 - ➡ 2,583 reports of racist incidents



Asian Americans and the COVID-19 Pandemic: Racism



Shamefulness

I'm a healthcare worker. I saw a mask-less man sit across from me on the subway. I moved to the other side of the train car and he followed. He spat and coughed on the subway while yelling racial slurs. No one stood up for me. (New York, NY)

A white man got in my face and coughed on me twice and told me to go back to my country. (Portland, OR)

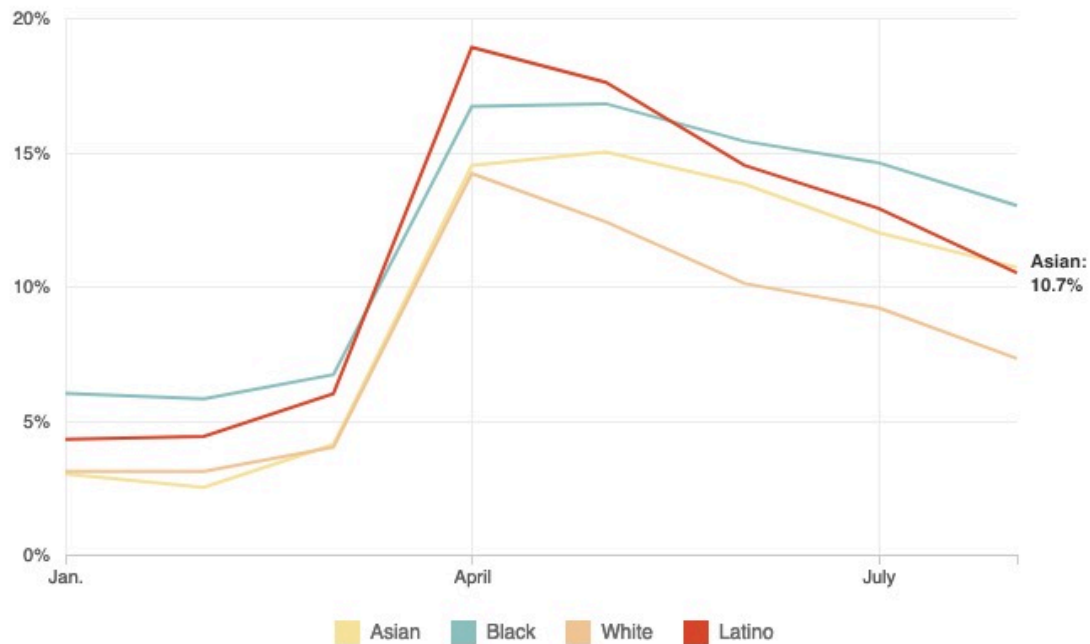
I'm reporting this on behalf of my brother who got spat on and got told to go back to where he came from because he looked Chinese to the racist attacker. (Chicago, IL)

More Shamefulness

- *A woman targeted me out of a group of people and shoulder pushed me extremely hard where my phone nearly fell out of my hands. She then said to me, “F**k you, ch**k.” Afterwards, she spat on a man who defended me and tried to spit on me as well. (Manhattan, NY)*
- *A white woman in an SUV mounted the curb to try and run over one of my family members, who was just out taking a walk for exercise. This woman saw that they were Asian, pulled over, started yelling and spitting at us, drove off, then turned around and tried to run them over with her car and even mounted the sidewalk to chase them. (Thousand Oaks, CA)*
- *I was in line at the pharmacy when a woman approached me and sprayed Lysol all over me. She was yelling out, “You’re the infection. Go home. We don’t want you here!” I was in shock and cried as I left the building. No one came to my help. (Marietta, GA)*

Economic Impact

Asian American Jobless Rate Now Higher Than For Whites, Latinos



Source: [Bureau of Labor Statistics](#)

Credit: Jess Eng/NPR

Economic Impact

Financial pain points during coronavirus outbreak differ widely by race, ethnicity and income

% saying they have ____ since the coronavirus outbreak started in February

	Used money from savings/ retirement to pay bills	Had trouble paying bills	Gotten food from a food bank/ organization	Had problems paying rent/ mortgage
All adults	33	25	17	16
White	29	18	11	11
Black	40	43	33	28
Hispanic	43	37	30	26
Asian*	33	23	14	15
Upper income	16	5	1	3
Middle income	33	19	12	11
Lower income	44	46	35	32

*Asian adults were interviewed in English only.

Note: White, Black and Asian adults include those who report being only one race and are not Hispanic. Hispanics are of any race. Family income tiers are based on adjusted 2019 earnings.

Source: Survey of U.S. adults conducted Aug. 3-16, 2020.

"Economic Fallout From COVID-19 Continues To Hit Lower-Income Americans the Hardest"

PEW RESEARCH CENTER

Economic Impact

	Been laid off/lost job	Had to take a cut in pay	Net either/both
All adults	25	32	42
White	23	29	38
Black	29	32	43
Hispanic	34	44	53
Asian*	24	41	47

Problems paying bills, rent or mortgage have impacted adults with lower incomes more than others since February

% of adults in each group who say they have ____ since the coronavirus outbreak began in February

	Had trouble paying bills	Had problems paying rent/mortgage	Had trouble paying for medical care	Lost health insurance
All adults	25	16	11	5
Men	22	15	10	5
Women	27	17	13	5
White	18	11	9	3
Black	43	28	18	9
Hispanic	37	26	17	8
Asian*	23	15	8	4

Questions and Answers

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www.asianarch.org