Update of Racial Disparities in Michigan & COVID-19

June 4, 2021

Disparities Data Committee

Purpose

- *Provide relevant data to aid the Lt. Governor-appointed Racial Disparities Task Force in better understanding and addressing the needs of racial and ethnic minority communities.*
  - *Outline existing upstream factors that result in disparities and put some people at greater risk of severe impact of COVID-19 epidemic and response*
  - *Identify a set of actionable downstream indicators that can be used to measure change in disparity in short term*

Disparity Indicators

Indicator: Rationale	Sample of Proposed Metrics
SARS-CoV-2 Testing: Are we testing enough in all communities?	Testing by Race and Ethnicity Testing Rate in Socially Vulnerable Communities Turn Around Time for Positive and Negative Tests
SARS-CoV-2 Spread: What is the spread of COVID-19 in Michigan populations?	Number & Percent of COVID-19 Cases by Race and Ethnicity Case Rate per Million People by Race and Ethnicity Missingness of Race/Ethnicity data for COVID-19 cases
COVID-19 Severity: Are some groups experiencing more severe outcomes?	COVID-like Illness (CLI) and COVID-19 diagnosis in EDs Number& Percent of COVID-19 deaths by Race and Ethnicity Death Rate per Million People by Race and Ethnicity
Access to Services for COVID-19: Is case investigation and contact tracing equitable? Are supportive services available for quarantine/isolation compliance? Is vaccine distributed equitably?	Percent of cases who were followed up with CI/CT Percent of cases who indicated need for services and services provided Total vaccines administered by race % population with first dose, completed vaccine series
Impact of Pandemic Response (*rotating metrics*): How are non-COVID outcomes impacted by COVID-19? And is the impact the same in all populations? Are preventive services and access to care equitable?	Excess deaths Maternal and Child Health Indicators (pre/antenatal, CLPPP) Substance use disorder services Health Screening (HIV, STD, Noncommunicable Diseases)

Key Messages

SARS-CoV-2 Testing

- Among neighborhood testing sites, the number of tests conducted continues to decline for all races and ethnicities in the past two weeks
- In past 2 weeks at neighborhood testing sites, the highest positivity was among Hispanic/Latinos, Other Race, and Whites
- Among NxGen testing data, percent positivity has declined and only Blacks, Whites, and Non-Hispanic had positivity greater than 0%
- Individuals should be encouraged to seek testing when needed

SARS-CoV-2 Spread

- Cases per million are decreasing for all races and ethnicities but remains highest for Blacks, American Indian/Alaskan Natives, and Hispanics
- In the past 30 days, 18% of all cases have unknown race (↓2%), and 22% have an unknown ethnicity reported (↓3%)
- Spread of SARS-CoV-2 varies by county, however, minorities are disproportionately affected in Kent, Wayne (+Detroit), Muskegon, Saginaw, and Calhoun

COVID-19 Severity

- The proportion of ED Visits with coronavirus symptoms or a COVID-19 diagnosis is decreasing for all races
- In the past 28 days, most minorities groups have been flagged as having more than their expected share of cases, hospitalizations, & deaths
- Deaths per million are decreasing for most racial and ethnic groups but are highest for American Indian/Alaskan Natives, Blacks and Non-Hispanics
- Deaths per million varies by county, but are particularly high for blacks in Wayne County (including Detroit)

Access to COVID-19 Services

- A lower percent of Hispanics/Latinos are quarantining at symptom onset and most racial and ethnic groups are seeing a decline in known source of infection
- Vaccine coverage for those 12 and older was highest among those of Asian, Native Hawaiian or Pacific Islander Race (47.1%), followed by Non-Hispanic (NH) American Indian (42.8%), NH White (41.4%), Hispanic (34.7%) ethnicity, and NH Black or African American (28.7%)
- Levels of vaccine coverage by census tract vary within the counties of Berrien, Calhoun, Kent, Genesee, Muskegon, Saginaw, and Wayne

Impact of Pandemic Response

- No update this week

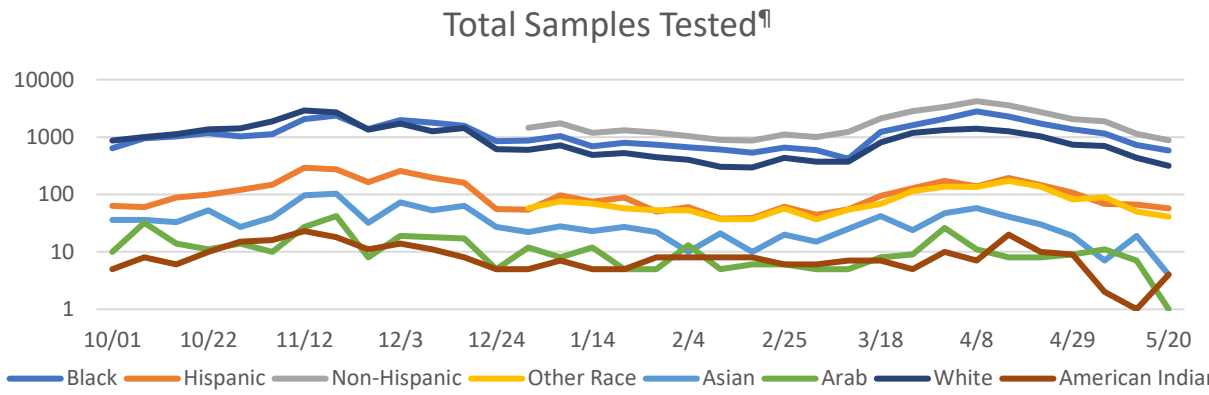
Testing by Race and Ethnicity (Sentinel Sites)

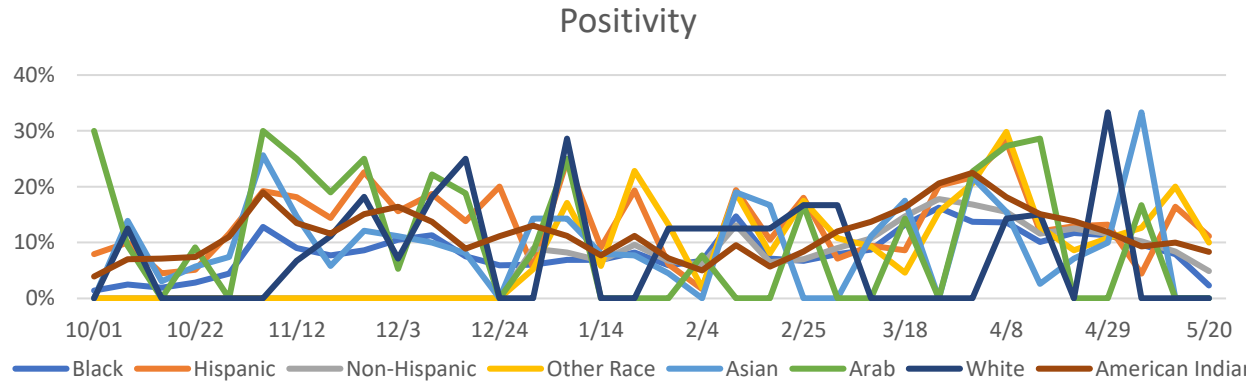
Cumulative Neighborhood Testing Demographics (22 sites)

Percent Tested		% Positive (5/13 – 5/26)	
Race*			
1%	Asian	0.0%	Asian Positivity
< 1%	American Indian or Alaskan Native	0.0%	American Indian or Alaskan Native Positivity
38%	Black/African American	5.4%	Black/African American Positivity
3%	Other Race	15.5%	Other Race Positivity
32%	White	9.3%	White Positivity
Ethnicity*			
4%	Hispanic/Latino	14.0%	Hispanic/Latino Positivity
71%	Non-Hispanic/Latino	6.9%	Non-Hispanic/Latino Positivity
< 1%	Arab	0.0%	Arab Positivity

* May not add to 100% due to those who responded unknown or preferred not to answer

Time Trends





¶ Note: axis is on the logarithmic scale to better view trends over time for smaller populations

NxGen Testing by Race and Ethnicity

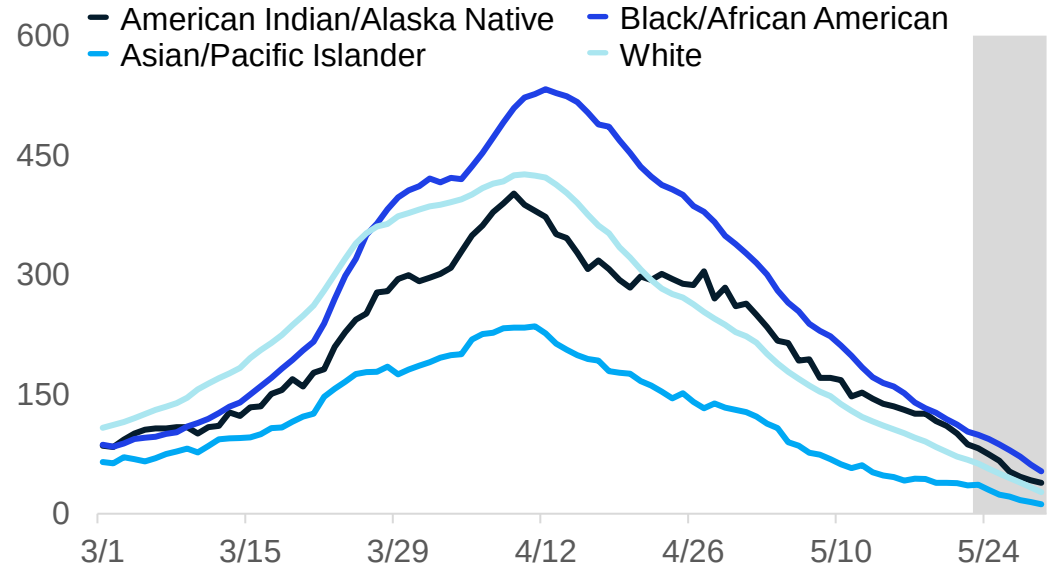
79 testing sites, 117,301 cumulative samples tested

Percent Tested		Percent Positive (5/23 – 5/29)	
Race*			
1%	Asian	0%	Asian Positivity
< 1%	American Indian or Alaskan Native	0%	American Indian or Alaskan Native Positivity
6%	Black/ African American	4%	Black/African American Positivity
< 1%	Native Hawaiian/Pacific Islander	0%	Native Hawaiian/Pacific Islander Positivity
2%	Other Race	0%	Other Race Positivity
61%	White	4%	White Positivity
Ethnicity*			
3%	Hispanic/Latino	0%	Hispanic/Latino Positivity
36%	Non-Hispanic/Latino	3%	Non-Hispanic/Latino Positivity
< 1%	Jewish	NT	Jewish Positivity

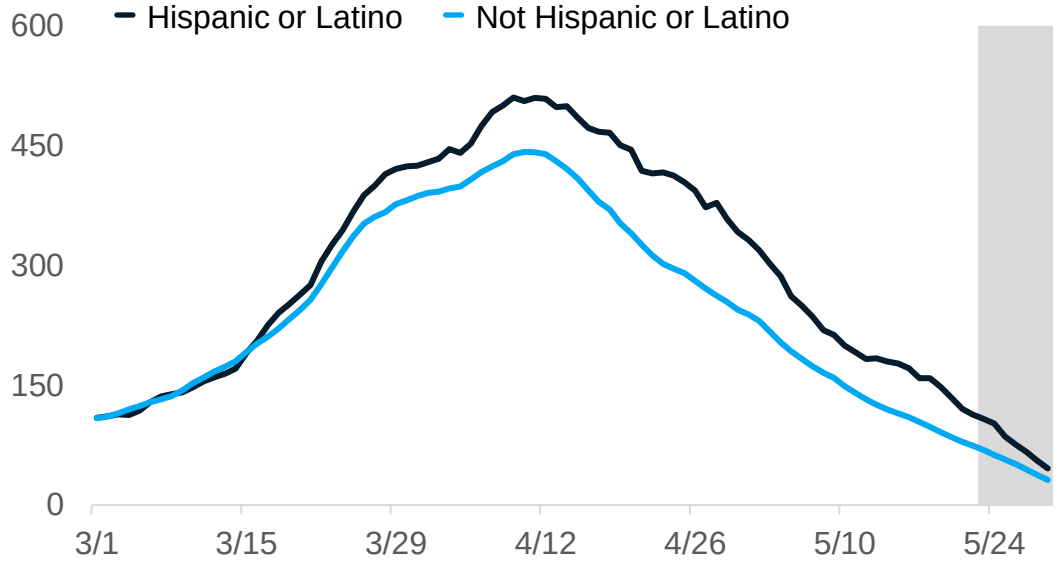
* May not add to 100% due to those who responded unknown or did not to answer
NT – No tested conducted during this reporting period

Average daily new cases per million people by race and ethnicity

Daily new confirmed and probable cases per million (7 day rolling average) by race category



Daily new confirmed and probable cases per million (7 day rolling average) by ethnicity category



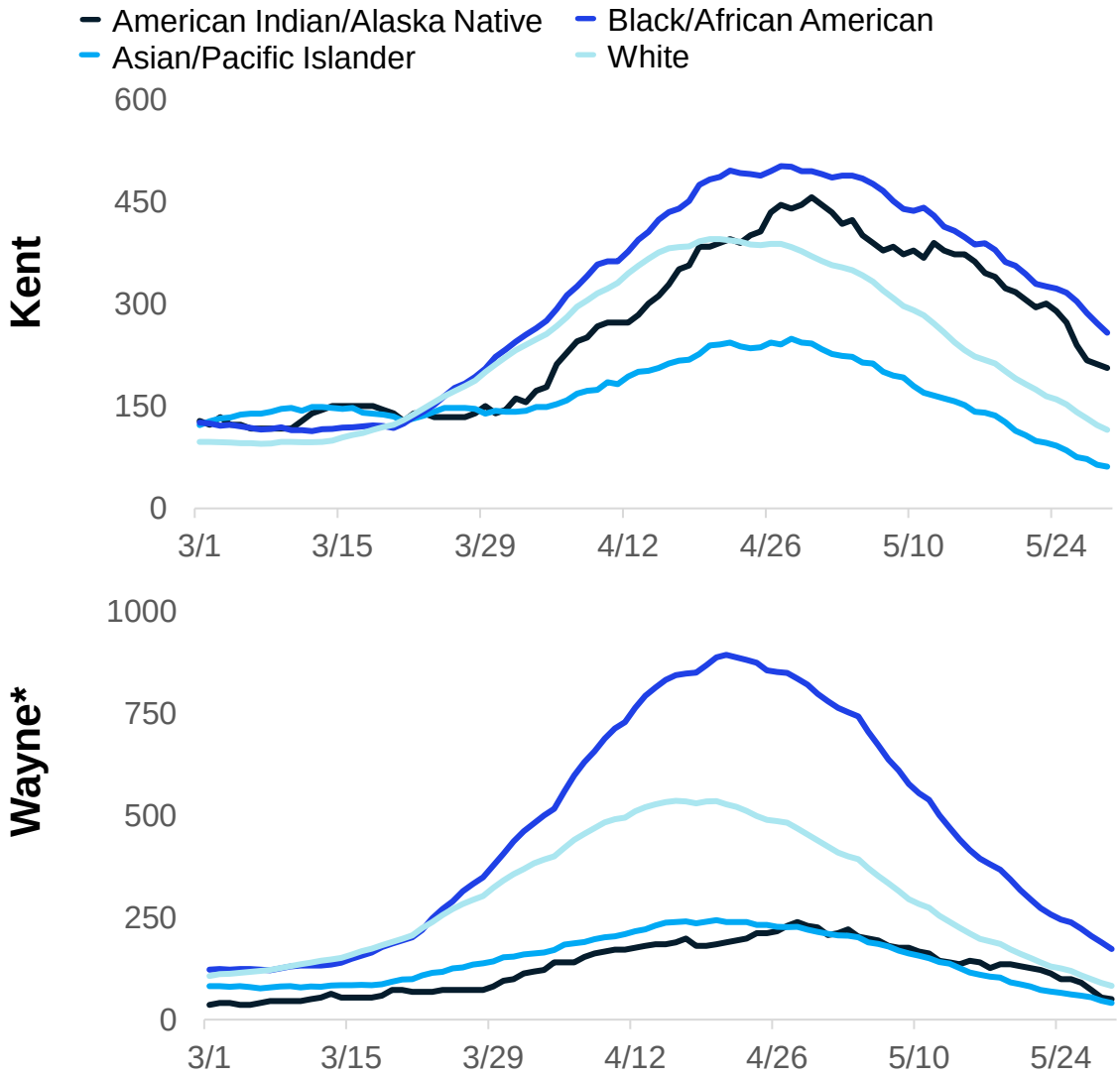
Updates since last week:

- Cases per million are decreasing for all races and ethnicities
- **Blacks, American Indian/Alaskan Natives, and Hispanic/Latinos have the highest case rates**
- In the past 30 days, 25% of all cases represent unknown, multiple, or other races (18% of race is unknown, ↓2%)
- In the past 30 days, 22% of all cases have an unknown ethnicity reported (↓3%)

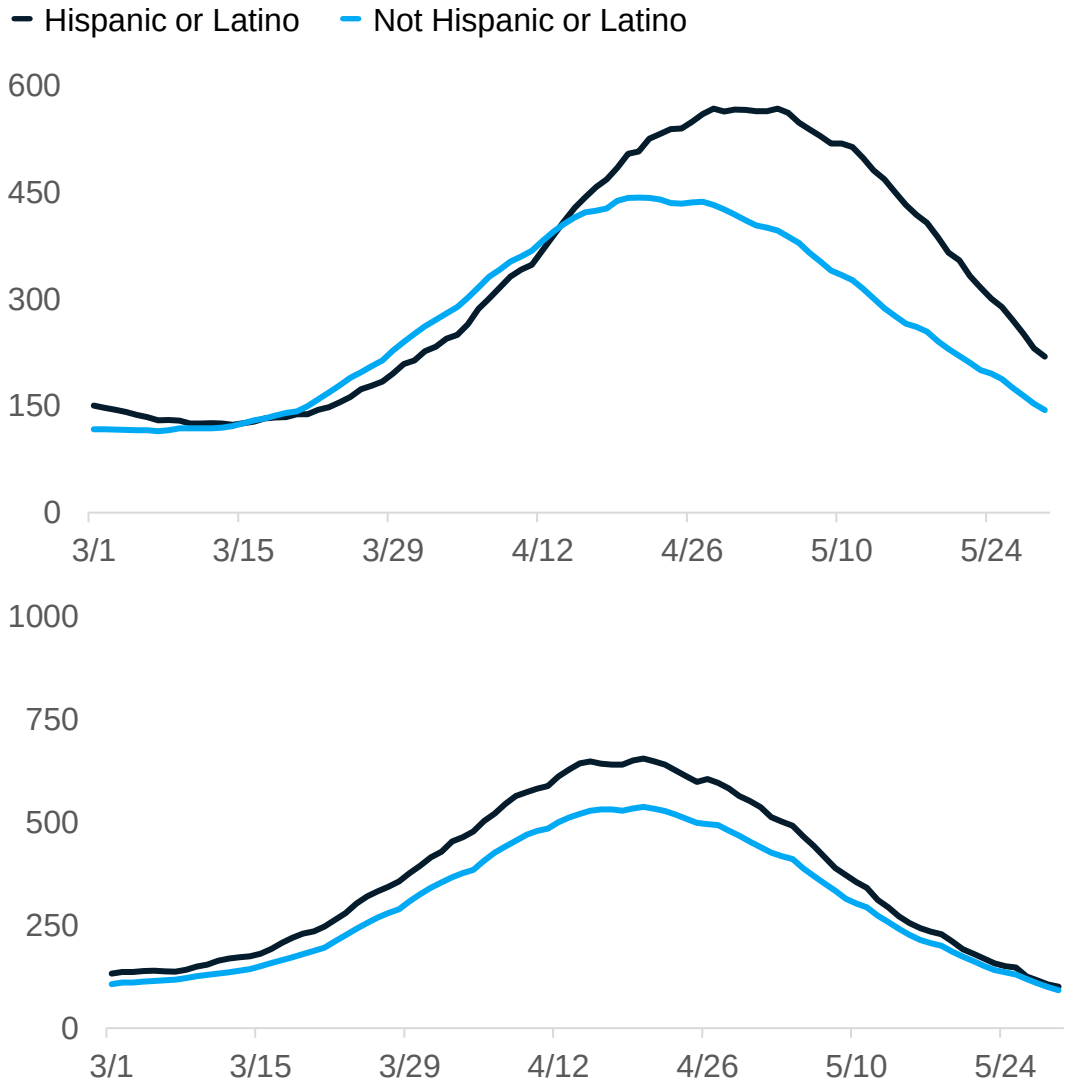
Note: Case information sourced from MDHHS and reflects date of death of confirmed and probable cases.
Source: MDHHS – Michigan Disease Surveillance System

Average daily new cases per million people by race and ethnicity

Daily new confirmed and probable cases per million (30-day rolling average) by race category



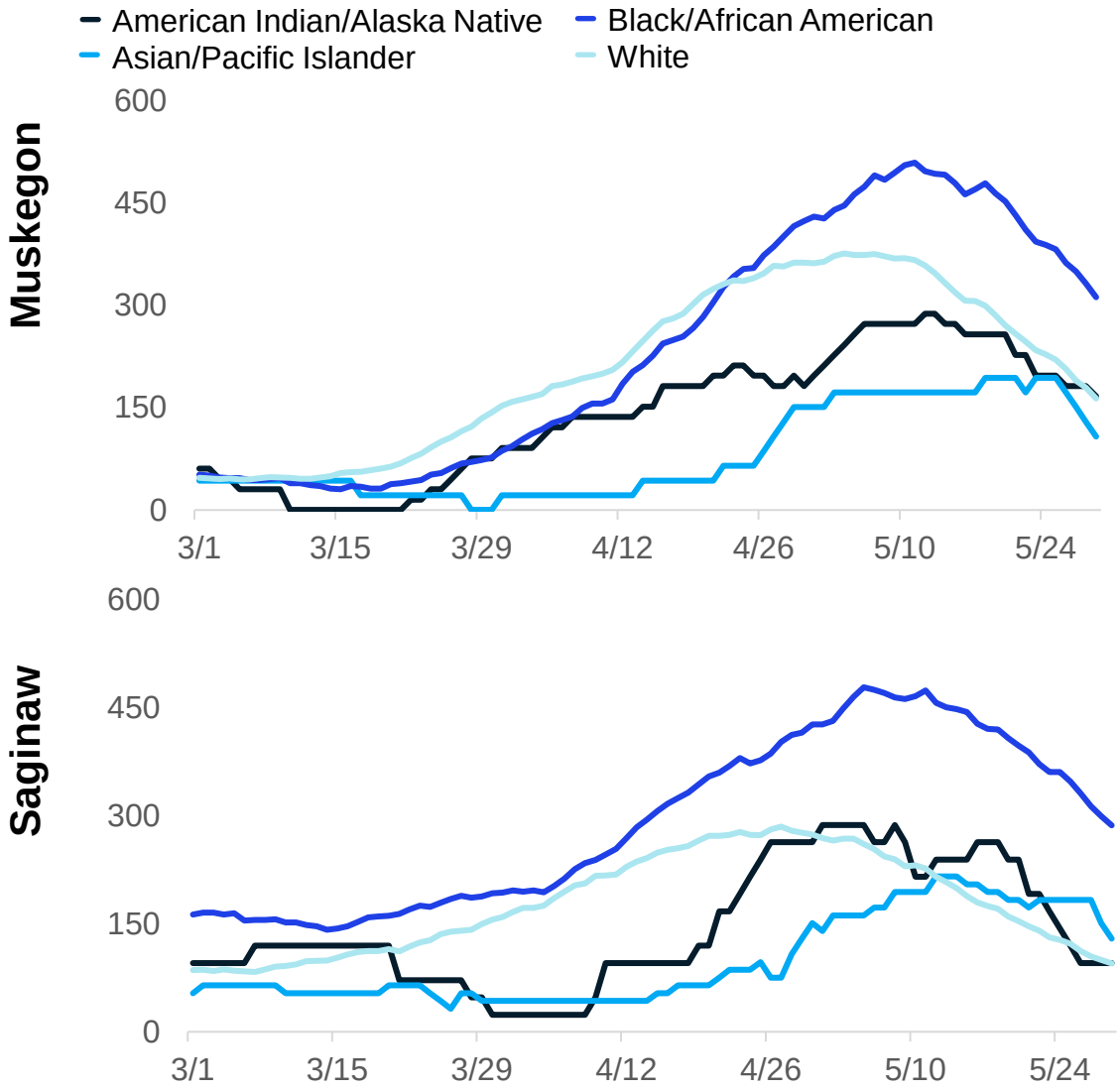
Daily new confirmed and probable cases per million (30-day rolling average) by ethnicity category



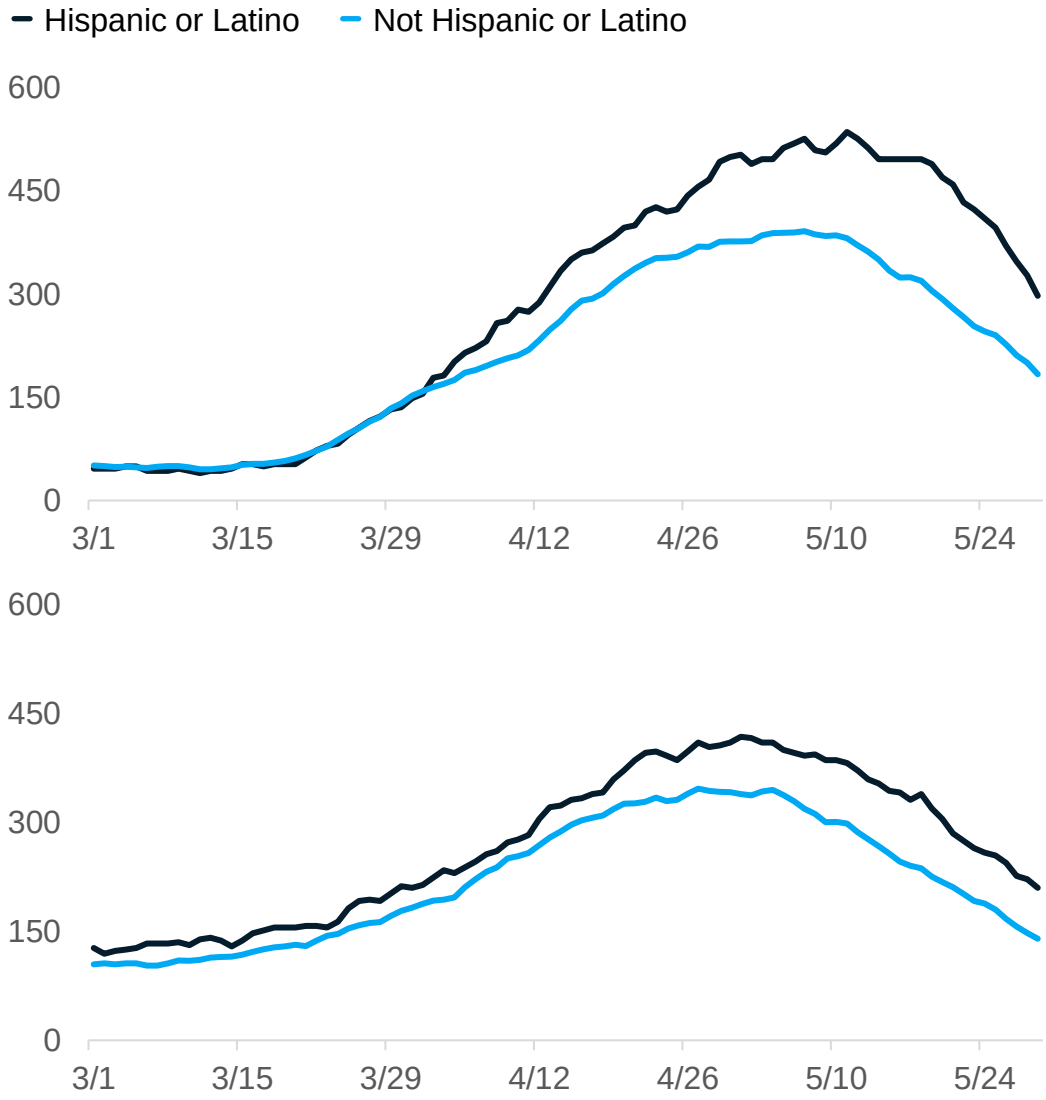
Note: Case information sourced from MDHHS and reflects date of death of confirmed and probable cases. * Note y-axis for Wayne; much higher case burden than other three counties for Blacks/African Americans
Source: MDHHS – Michigan Disease Surveillance System

Average daily new cases per million people by race and ethnicity

Daily new confirmed and probable cases per million (30-day rolling average) by race category



Daily new confirmed and probable cases per million (30-day rolling average) by ethnicity category



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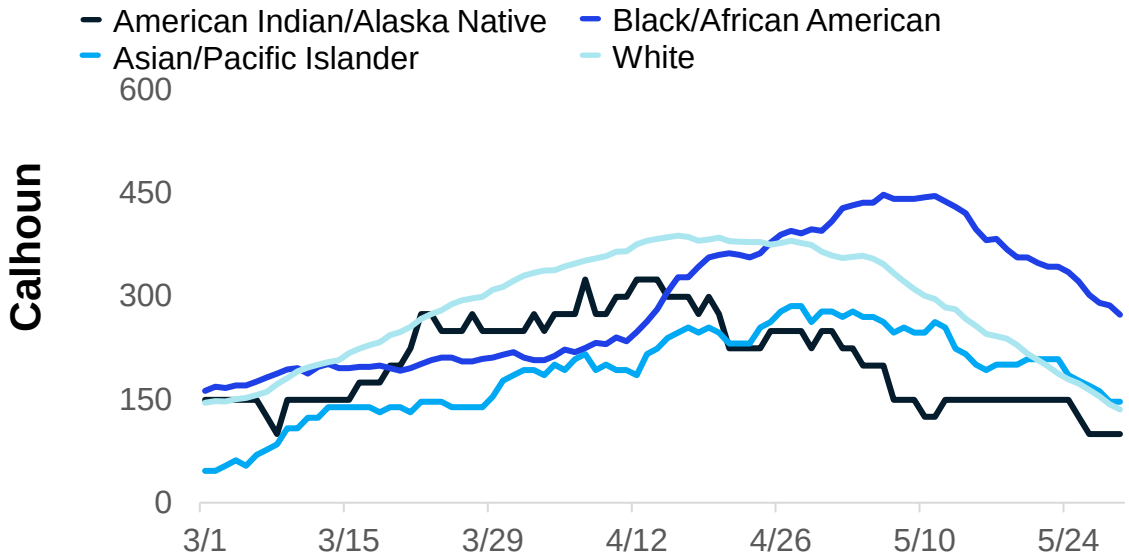
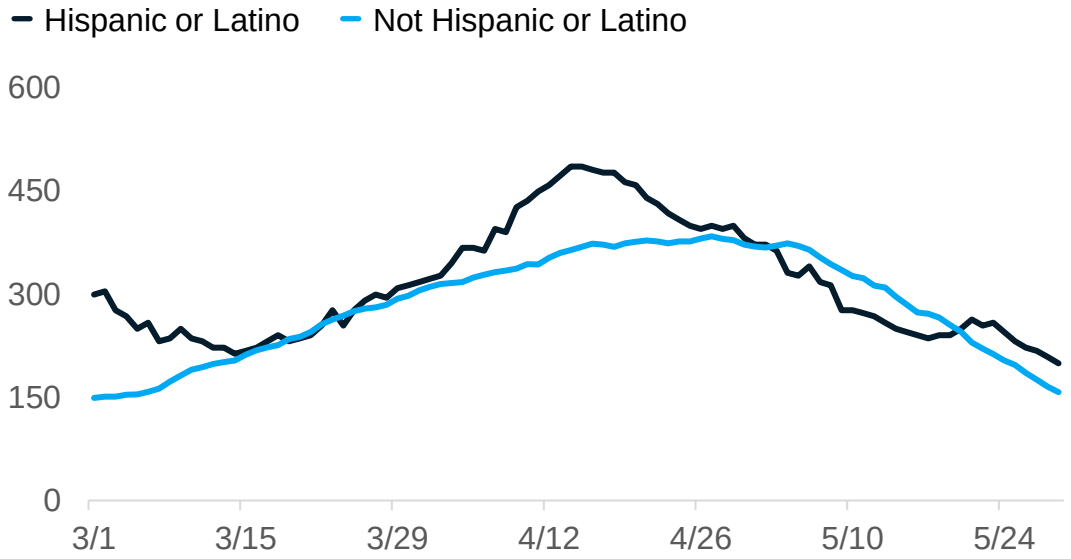
Average daily new cases per million people by race and ethnicity

Daily new confirmed and probable cases per million (30-day rolling average) by race category



Daily new confirmed and probable cases per million (30-day rolling average) by ethnicity category



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Source: MDHHS – Michigan Disease Surveillance System

Prior 28 Days Metrics By Race (Apr 27, 2021 – May 25, 2021)

RACE	% OF CASES	% OF DEATHS	% OF HOSPITALIZED CASES	CASES PER MIL.	DEATHS PER MIL.	HOSPITALIZED CASES PER MIL.
Known ⓘ	82.0%	94.8%	94.7%	3,802.8	132.5	206.9
Unknown ⓘ	17.9%	5.1%	5.2%	--	--	--
Any	--	--	--	4,635.6	139.7	218.5

KNOWN RACE ONLY	% OF POP	% OF CASES	% OF DEATHS	% OF HOSPITALIZED CASES	CASES PER MIL.	DEATHS PER MIL.	HOSPITALIZED CASES PER MIL.
American Indian / Alaskan Native	0.5%	0.9%	0.6%	0.9%	6,818.8	169.0	375.6
Asian	3.0%	1.4%	1.4%	1.0%	1,813.3	62.4	72.2
Black / African American	13.8%	19.1%	21.8%	23.5%	5,284.1	210.1	353.3
Hawaiian / Pacific Islander	< 0.1%	0.1%	< 0.1%	< 0.1%	15,777.1	335.6	671.3
Multiple Race	2.8%	3.8%	0.9%	2.2%	5,124.8	45.8	162.1
Other	1.1%	5.8%	3.3%	3.9%	18,591.4	369.3	679.8
White	78.5%	68.5%	71.5%	68.1%	3,321.3	120.8	179.5

disparity present ⓘ

disparity present but based on small absolute numbers

Source: MDHHS – UMich Collaborative – https://www.mistartmap.info/compare/race

Prior 28 Days Metrics By Ethnicity (Apr 27, 2021 – May 25, 2021)

ETHNICITY (HISPANIC)		% OF CASES	% OF DEATHS	% OF HOSPITALIZED CASES	CASES PER MIL.	DEATHS PER MIL.	HOSPITALIZED CASES PER MIL.
Known ⓘ		77.7%	89.4%	90.7%	3,603.2	125.0	198.2
Unknown ⓘ		22.2%	10.5%	9.2%	--	--	--
Any		--	--	--	4,635.6	139.7	218.5
KNOWN ETHNICITY ONLY	**% OF POP**	**% OF CASES**	**% OF DEATHS**	**% OF HOSPITALIZED CASES**	**CASES PER MIL.**	**DEATHS PER MIL.**	**HOSPITALIZED CASES PER MIL.**
Hispanic or Latino	5.0%	7.5%	4.3%	5.8%	5,406.7	108.4	232.9
Not Hispanic or Latino	94.9%	92.4%	95.6%	94.1%	3,508.2	125.9	196.4

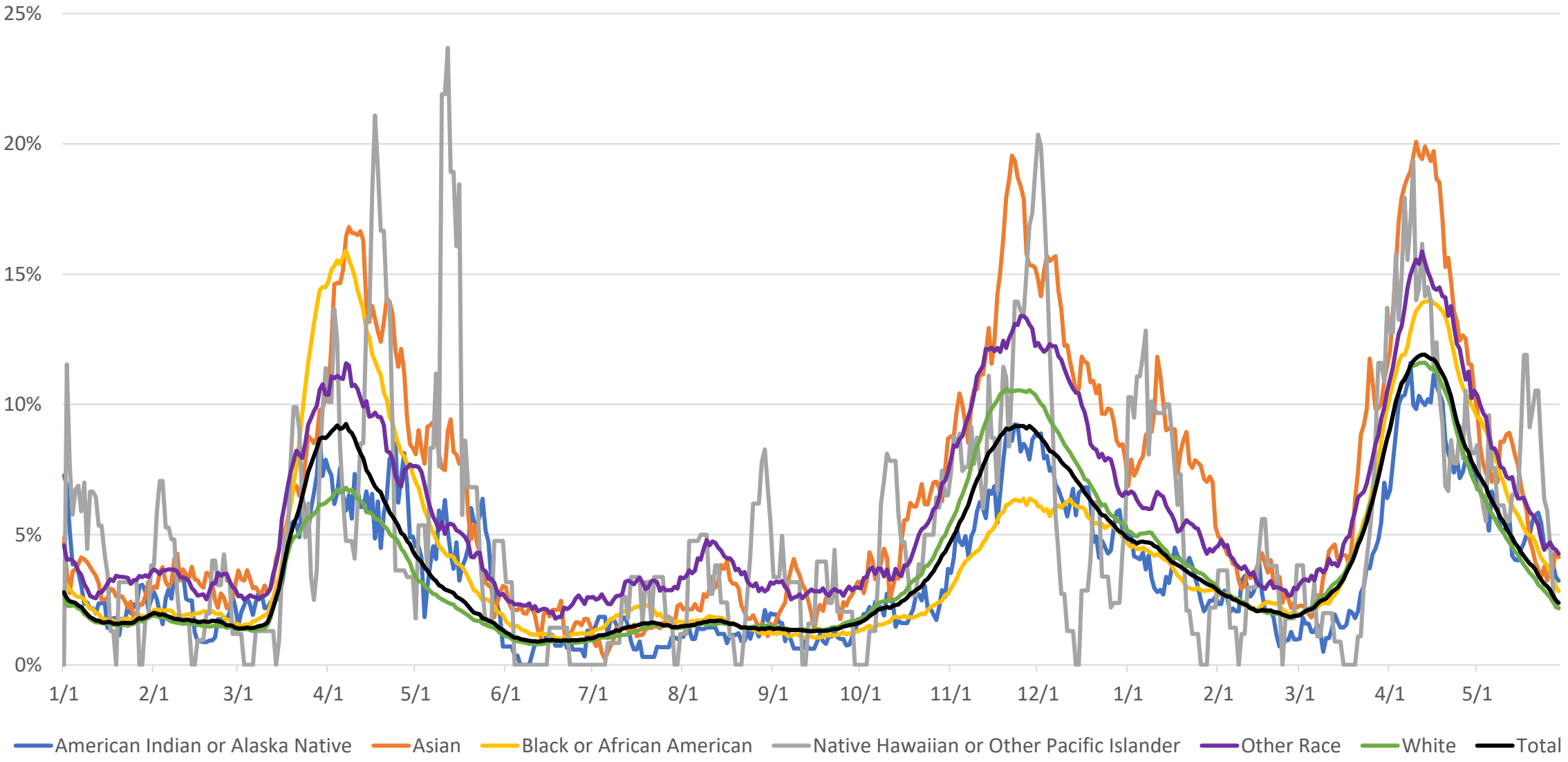
ETHNICITY (ARAB)	% OF CASES	% OF DEATHS	% OF HOSPITALIZED CASES
Known ⓘ	57.3%	41.3%	68.6%
Unknown ⓘ	42.6%	58.6%	31.3%
Any	--	--	--
KNOWN ETHNICITY ONLY	**% OF CASES**	**% OF DEATHS**	**% OF HOSPITALIZED CASES**
Arab Ethnicity	4.1%	4.1%	2.2%
Not Arab Ethnicity	95.8%	95.8%	97.7%

disparity present ⓘ

Population denominators are based on Census data, which does not include Arab ethnicity information. Because we do not have denominator data for Arab ethnicity, only a limited set of metrics can be shown.

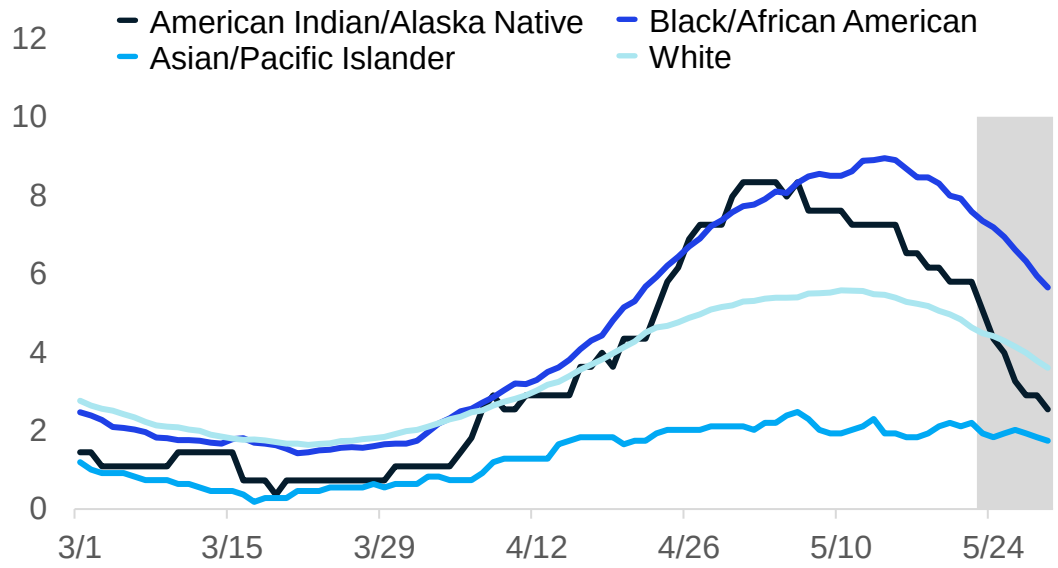
Source: MDHHS – UMich Collaborative – https://www.mistartmap.info/compare/ethnicity-hispanic

Proportion of ED Visits with Coronavirus Symptoms or a COVID-19 Diagnosis Code by Race - Michigan

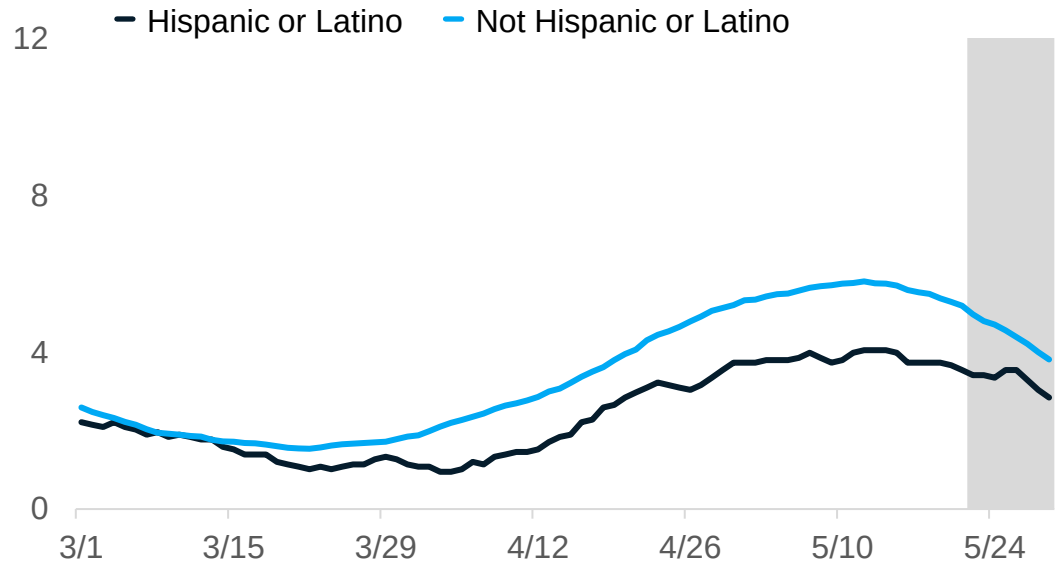


30-day rolling average daily deaths per million people by race and ethnicity

Average daily deaths per million people by race



Average daily deaths per million people by ethnicity



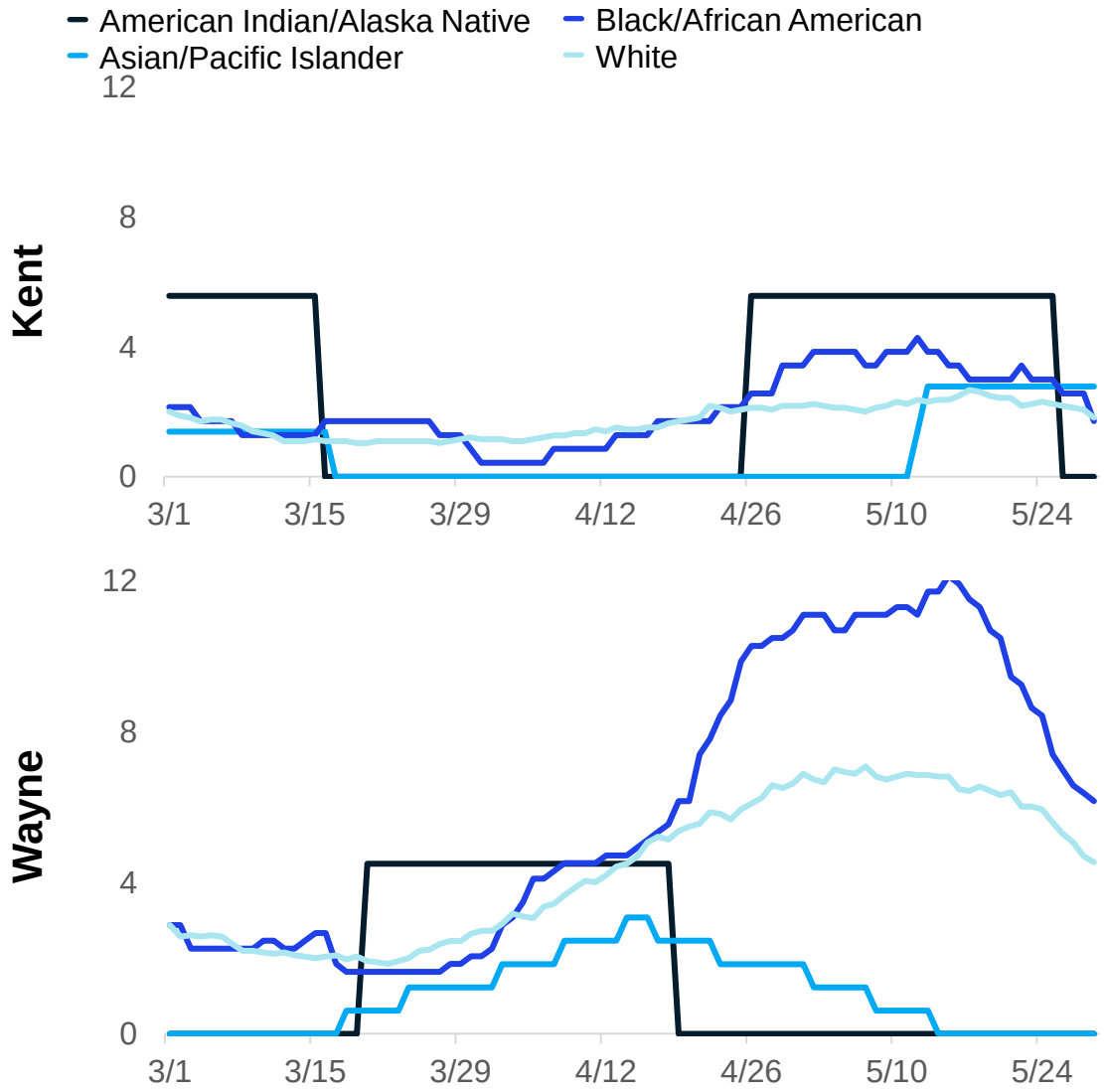
Updates since last week:

- Deaths are a lagging indicator of cases
- All racial and ethnic groups are seeing a decrease or plateau in COVID deaths
- **American Indian/Alaskan Natives, Blacks and Non-Hispanics/Latinos have the most reported deaths per capita**
- Deaths are not adjusted for confounders (e.g., age, sex, comorbidities)

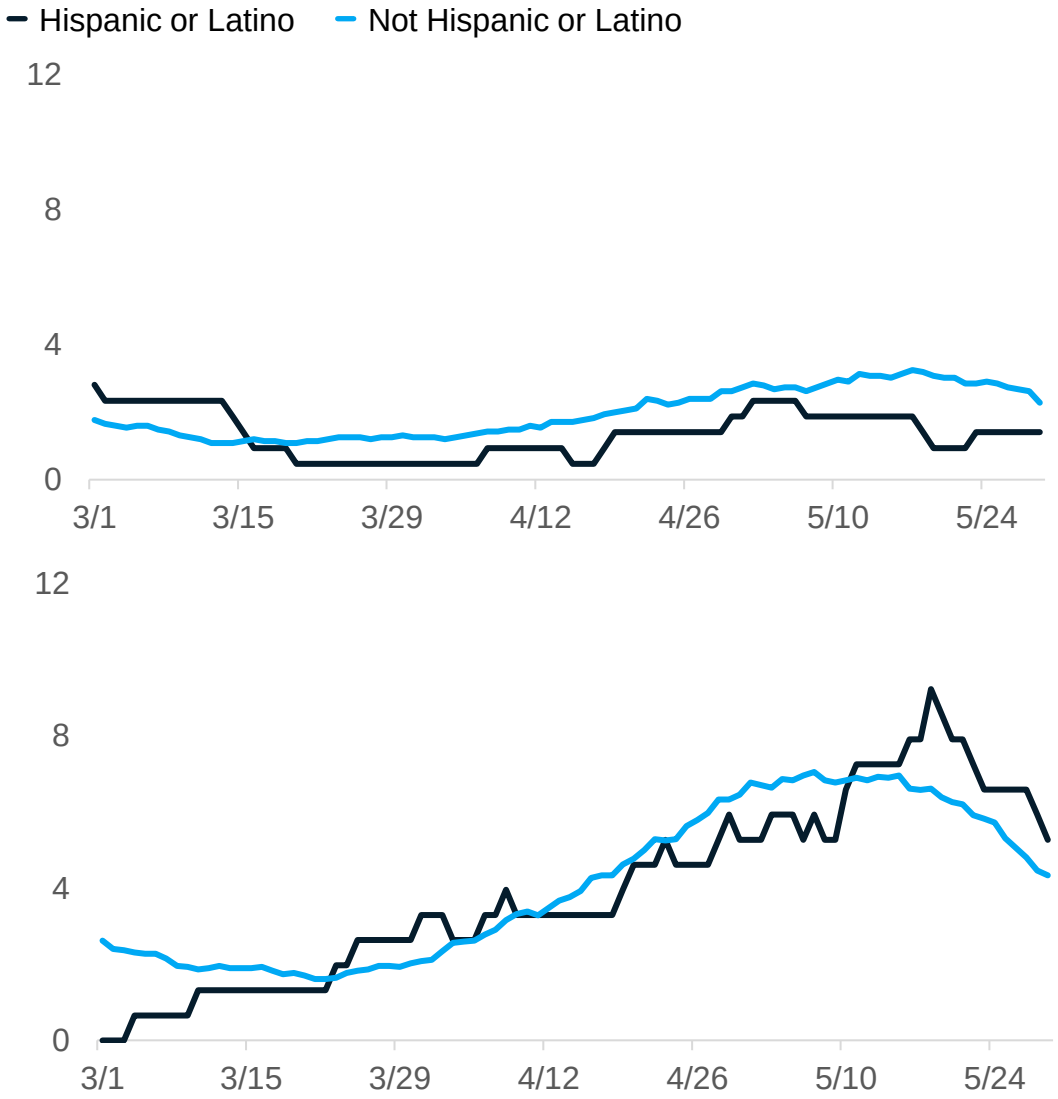
Note: Death information sourced from MDHHS and reflects date of death of confirmed and probable cases.
Source: MDHHS – Michigan Disease Surveillance System

Average deaths per million people by race and ethnicity

Deaths per million (30-day rolling average) by race



Deaths per million (30-day rolling avg) by ethnicity



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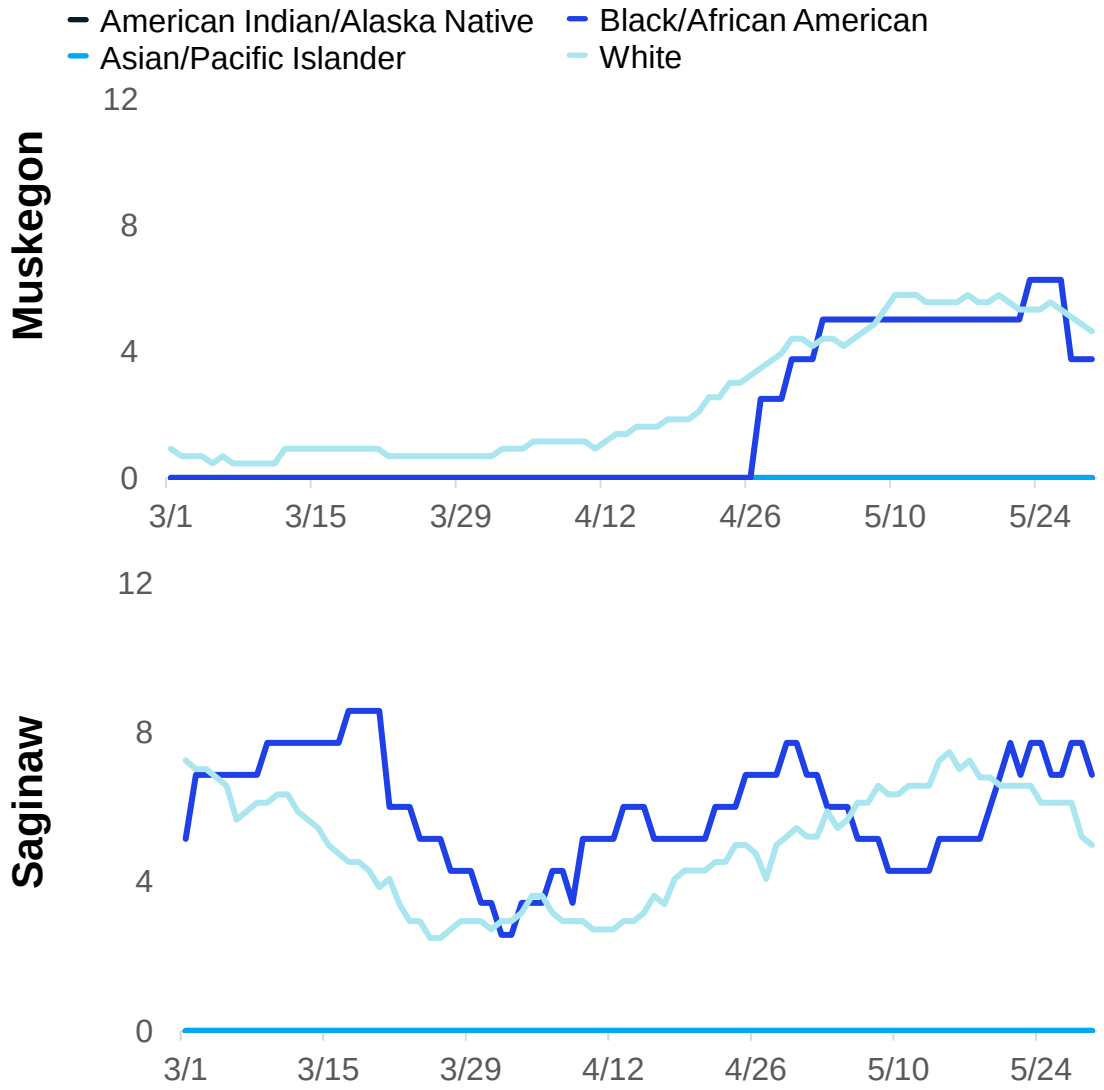
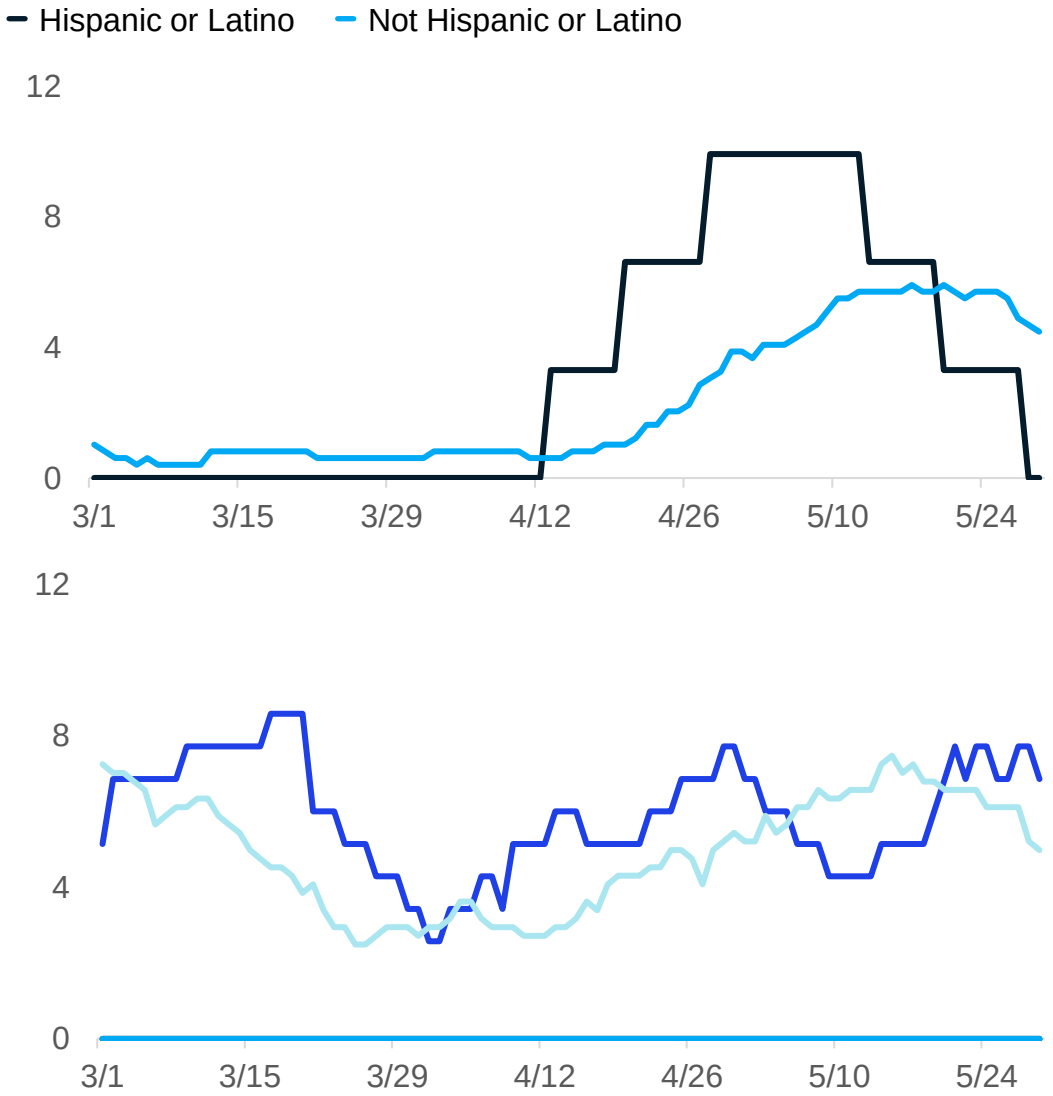


Deaths per million (30-day rolling avg) by ethnicity



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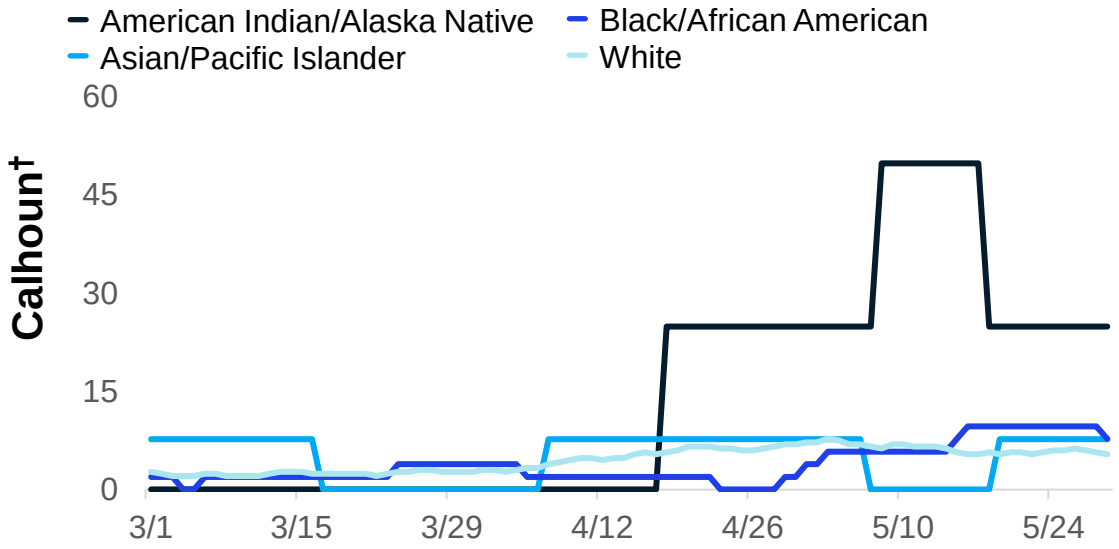
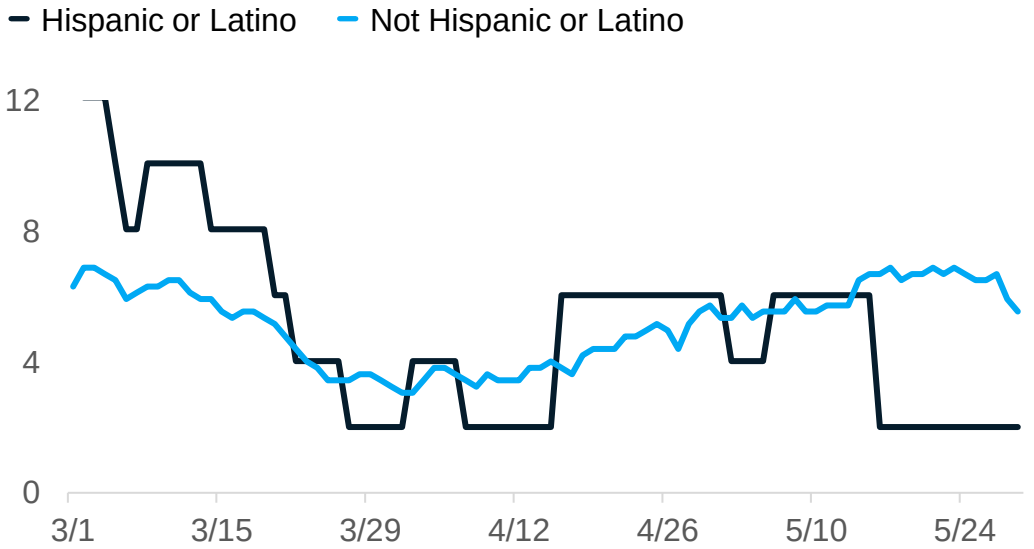
Deaths per million (30-day rolling average) by race

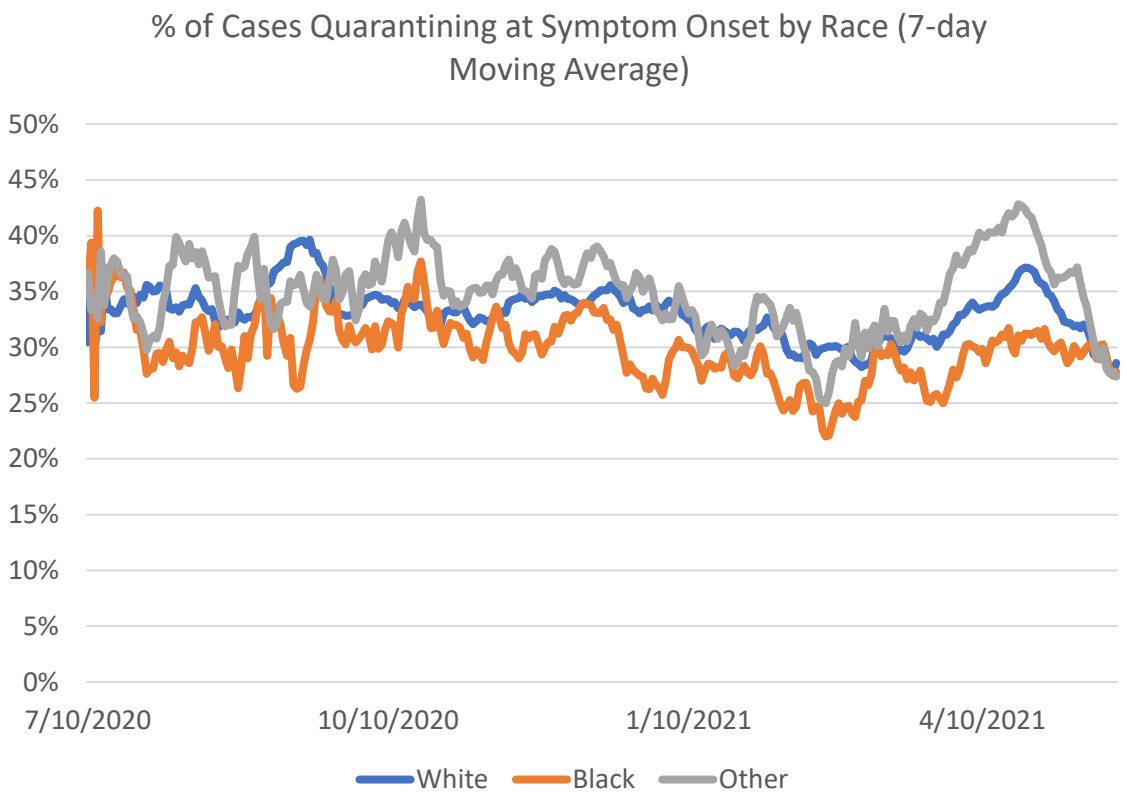


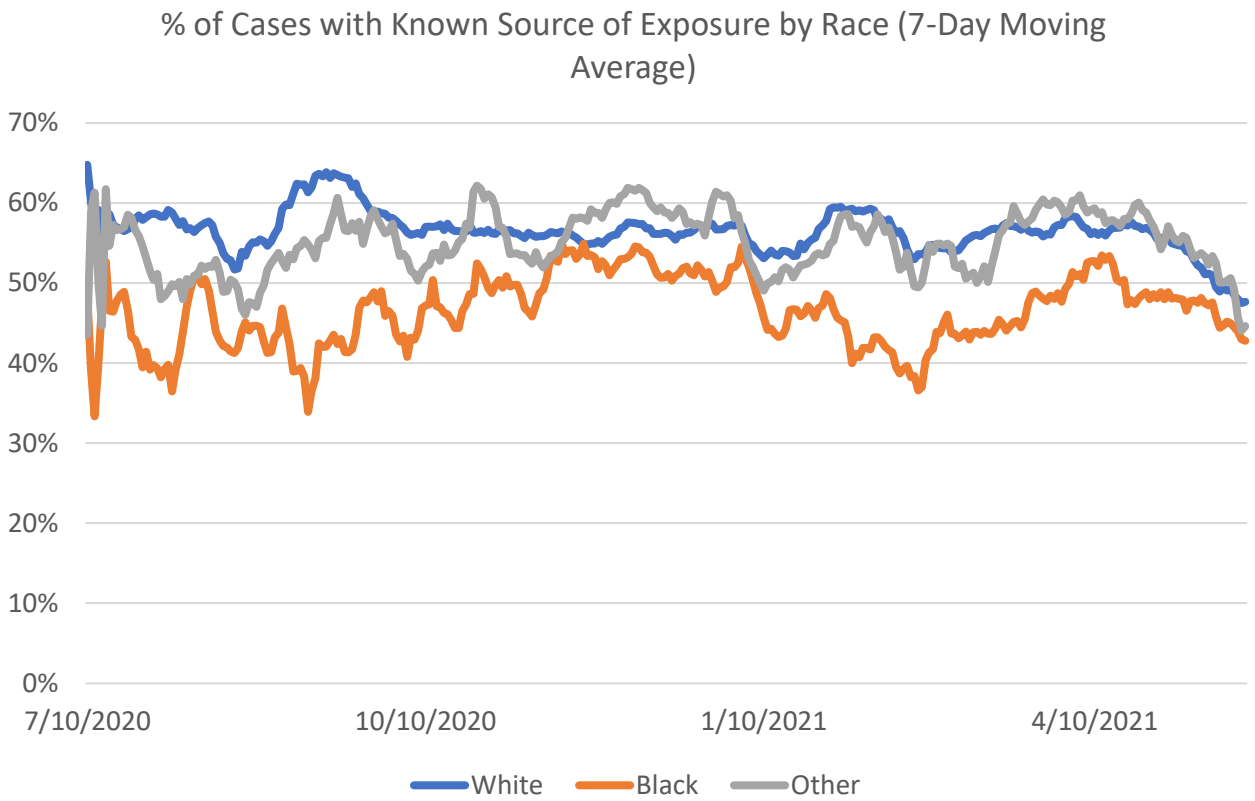
Deaths per million (30-day rolling avg) by ethnicity



Note: Case information sourced from MDHHS and reflects date of death of confirmed and probable cases. † y-axis differs from other graphs in this presentation
Source: MDHHS – Michigan Disease Surveillance System

COVID-19 Case Investigation Metrics

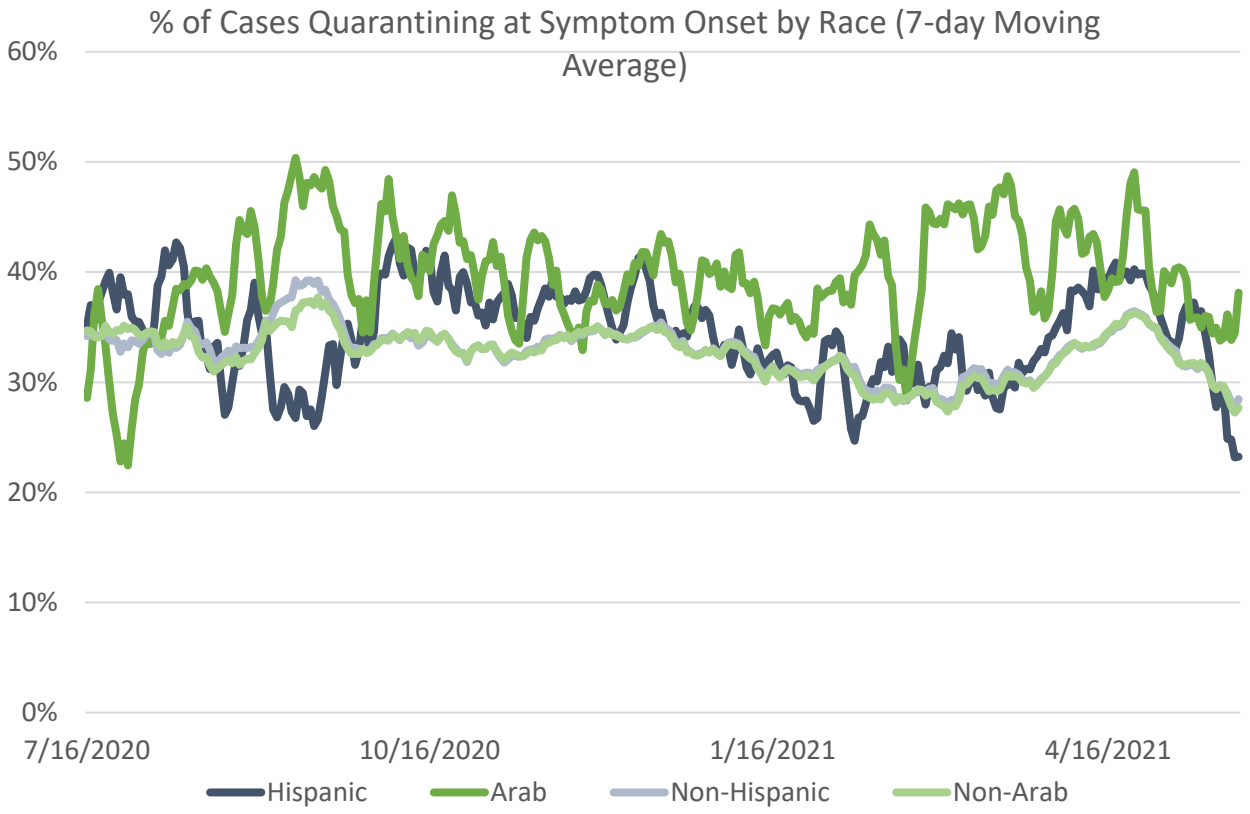


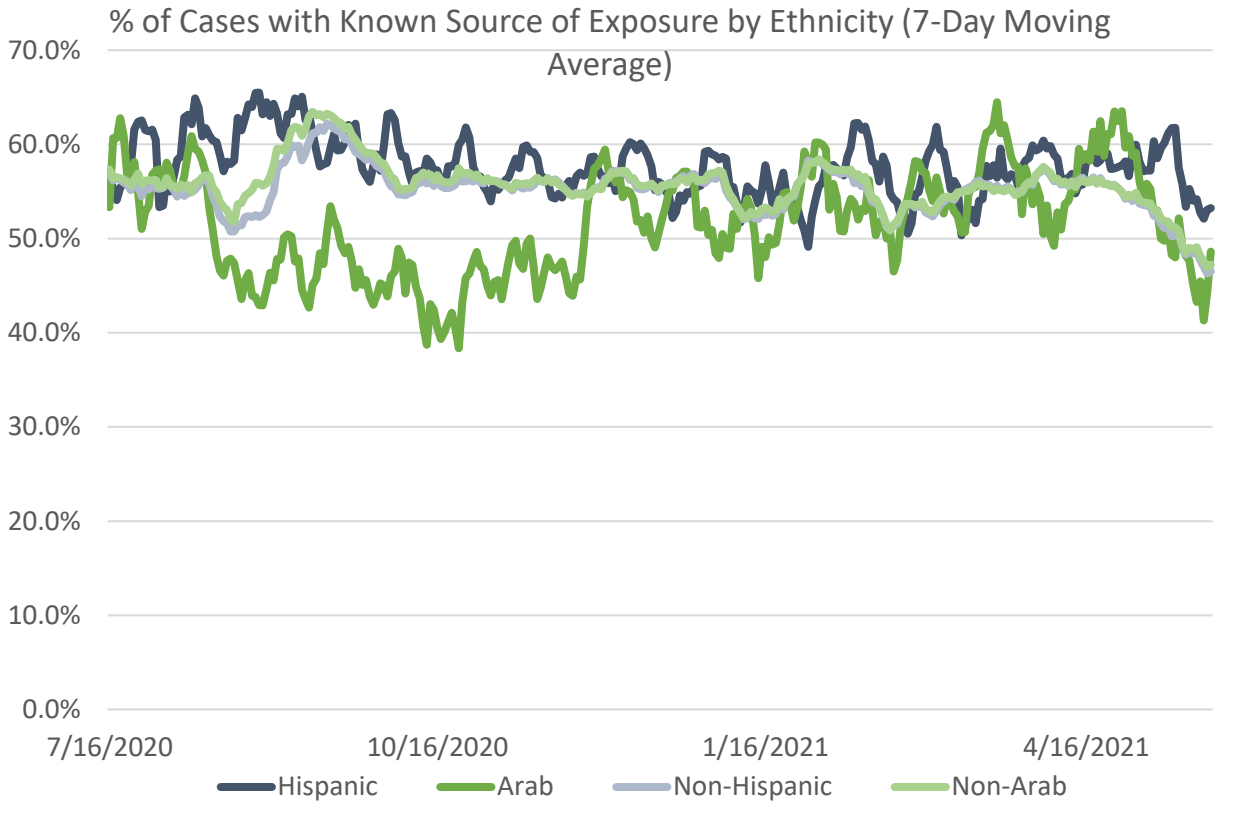


Updates since last week:

- Cases who are quarantining at symptom onset and who are aware of the source of infection are signals that case investigation and contract tracing resources are working successfully
- A lower percent of Blacks/African Americans are quarantining and have a known infection source compared to Whites
- Some reasons for disparities may be due to lack of supports to comply with public health recommendations (e.g., paid time off/sick leave)
- Data excludes those with blank or unknown race and ethnicity data

COVID-19 Case Investigation Metrics





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Coverage Demographics as of 6/1/2021

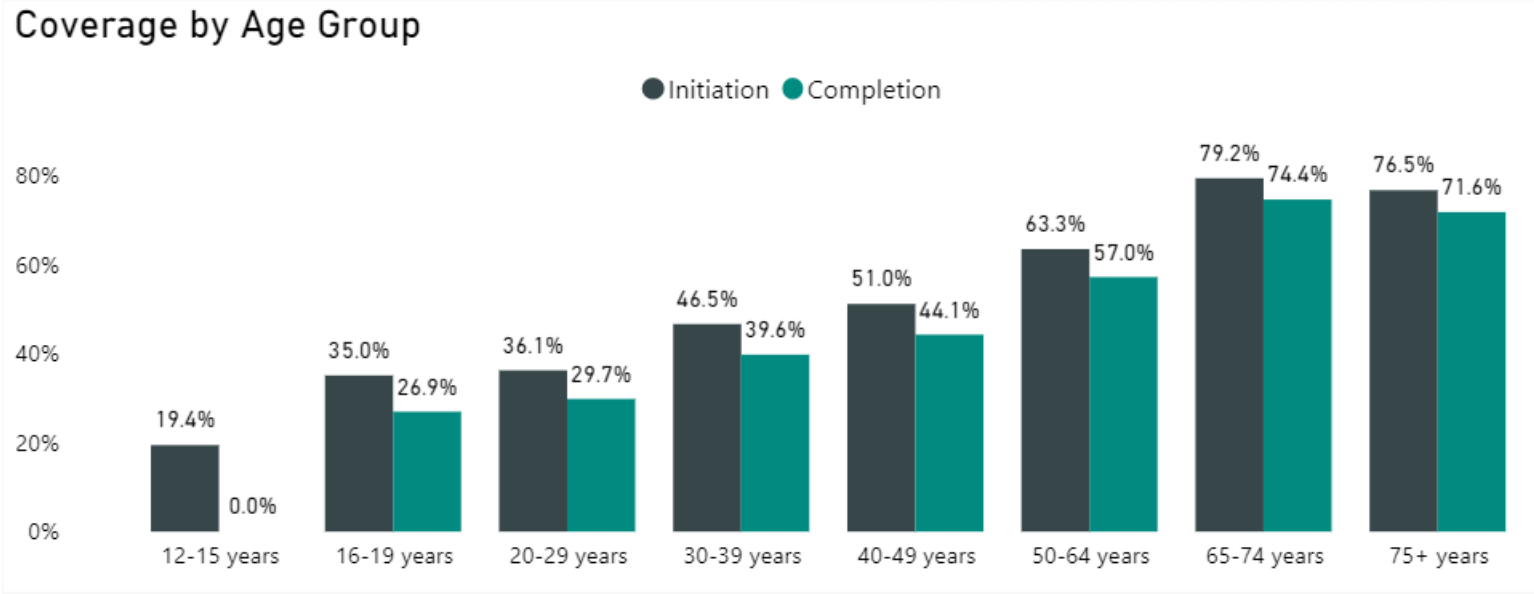
4,203,466 people completed series (CDC) (195K+ people)

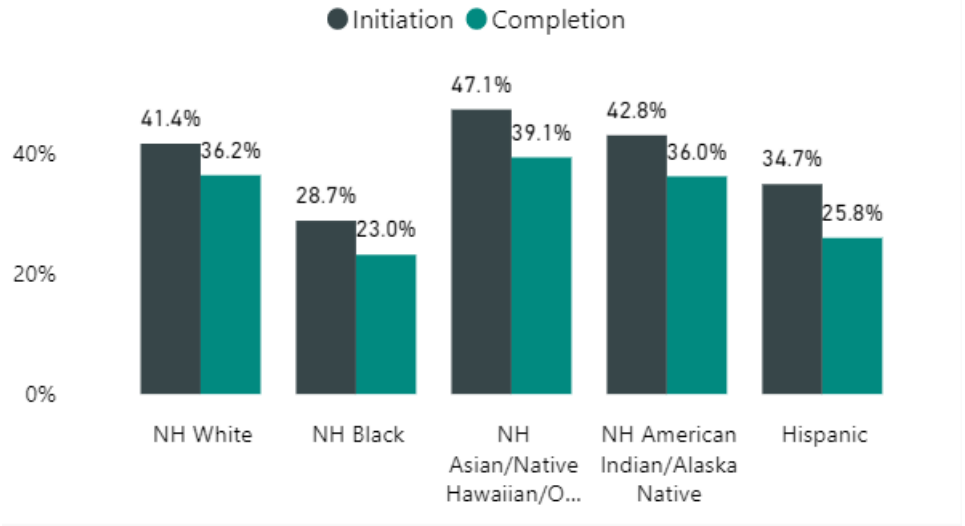
Age Group (Michigan dashboard)

- 40.6% people age 12-49 initiated vaccination (up from 39.3% last week)
- 70.2% people aged 50 or older have initiated their vaccine series; 64.6% have completed

Race/Ethnicity for 12 and older

- Initiation coverage highest among those of Asian, Native Hawaiian or Pacific Islander Race (47.1%) then NH (Non-Hispanic) American Indian (42.8%), NH White (41.4%), NH Black or African American (28.7%) Races.
- Initiation is at 34.7% for those of Hispanic ethnicity
- 23.2% data missing or unknown





Source: Michigan Coronavirus Dashboard https://www.michigan.gov/coronavirus/0,9753,7-406-98178_103214-547150--,00.html

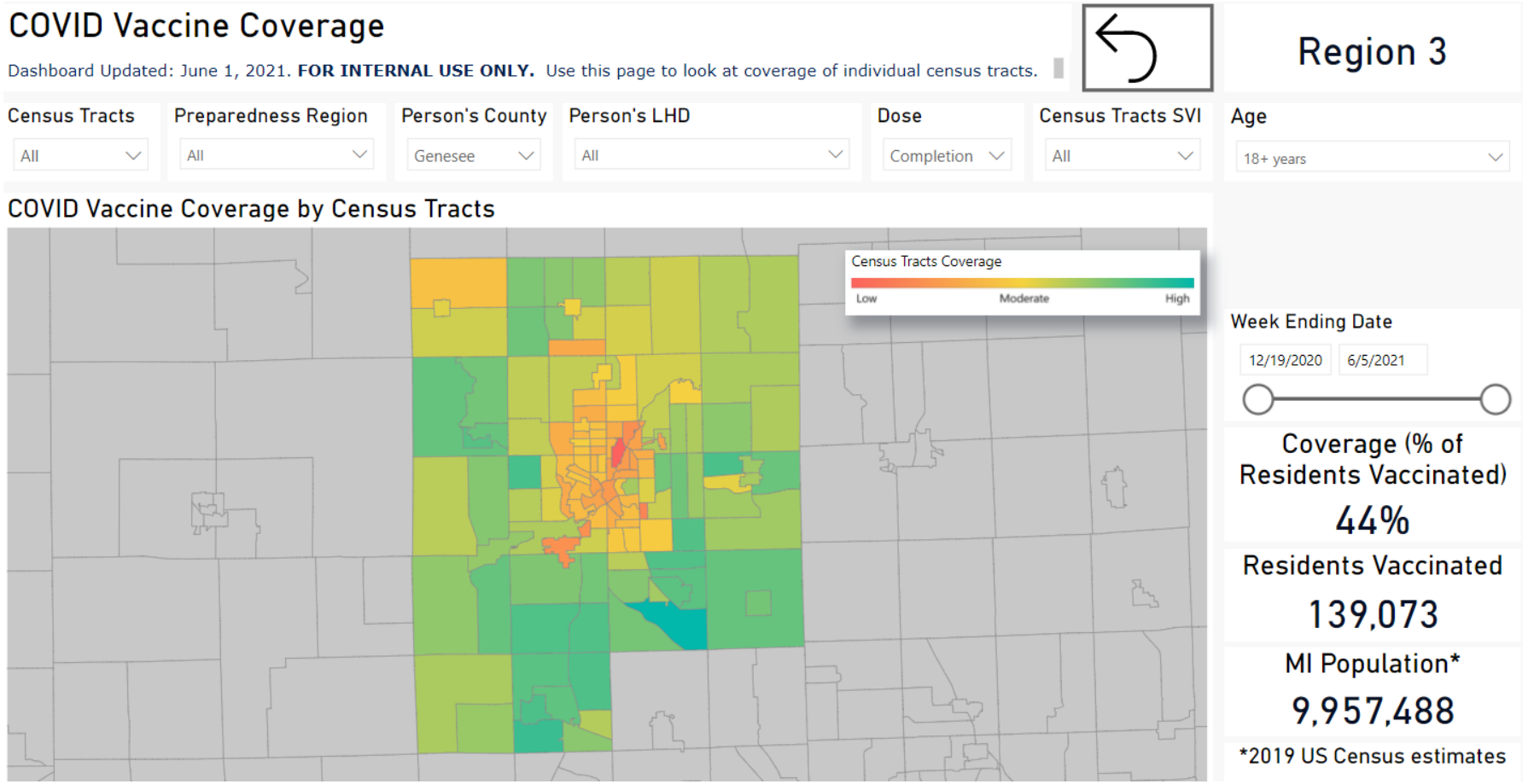
Percent of Doses Administered (data through 6/3) by Race/Ethnicity, Selected Counties

	Michigan	Berrien	Calhoun	Genesee	Kent	Muskegon	Saginaw	Wayne (+ Detroit)
Non-Hispanic (NH) American Indian/ Alaskan Native	42.9%	34.5%	37.5%	42.8%	71.0%	39.3%	54.8%	42.9%
NH Asian/ Native Hawaiian/ Other Pacific Islander	47.1%	46.2%	29.3%	45.9%	50.0%	51.2%	36.9%	45.0%
NH Black	28.7%	29.9%	31.7%	30.0%	35.0%	28.5%	29.4%	25.3%
Hispanic	35.0%	41.9%	28.5%	28.1%	33.5%	27.1%	23.5%	39.8%
NH White	41.5%	42.9%	37.9%	40.4%	56.9%	46.6%	43.2%	39.6%

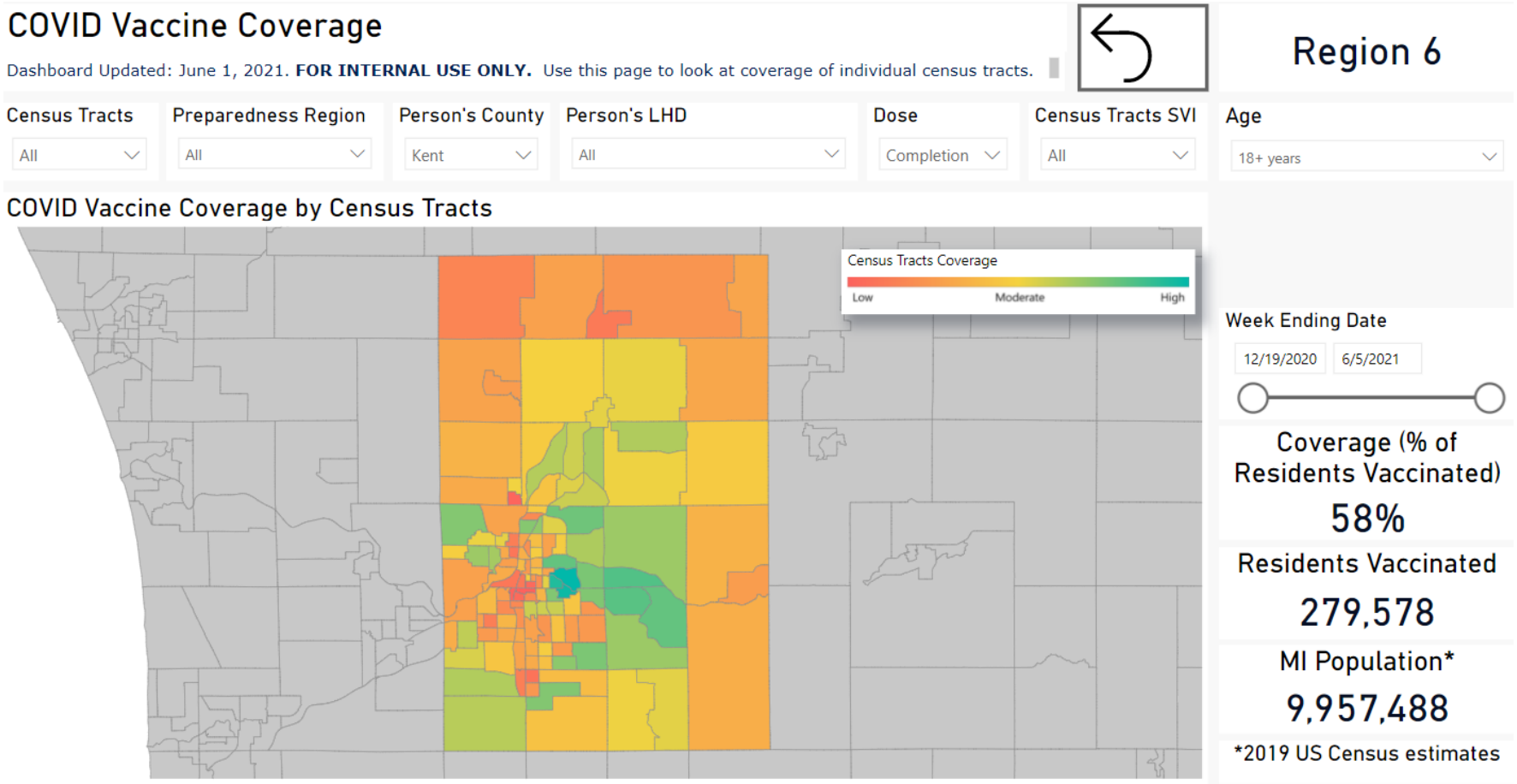
- Vaccine coverage by race varies by these selected counties
- These data have several limitations:
  - Not all vaccinations administered to Michigan residents(~5%) are reported to MDHHSS
  - These data are missing 23.2% race/ethnicity;
  - Race/ethnicity data are self-reported which may differ from how individuals were designated in census
  - All data are dynamic and are expected to change

*Data through 6/3/2021 for first dose
Source: MDHHS – Michigan Department of Health and Human Services – Immunizations

Genesee County vaccine completion by census tract



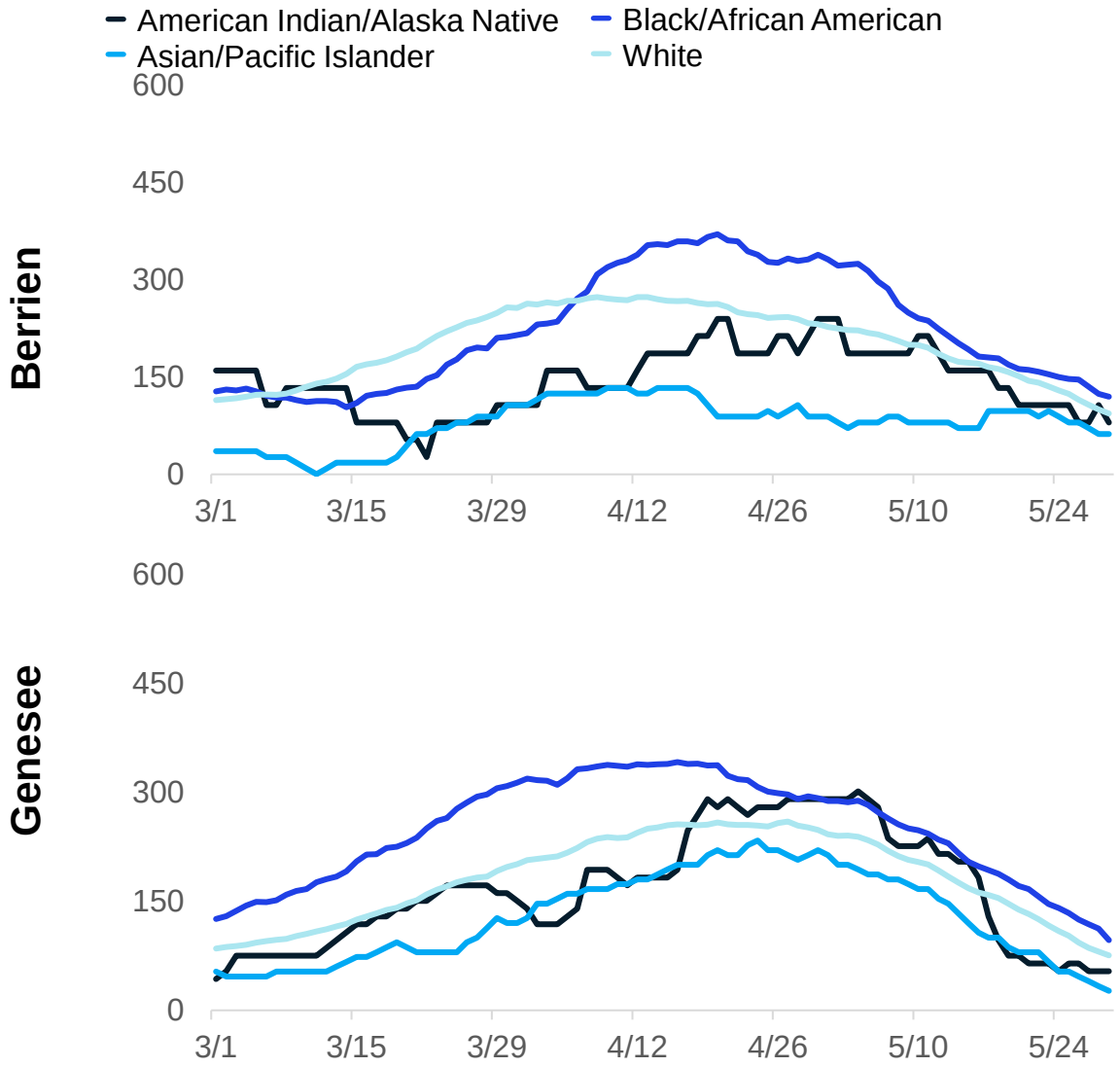
Kent County vaccine coverage by census tract



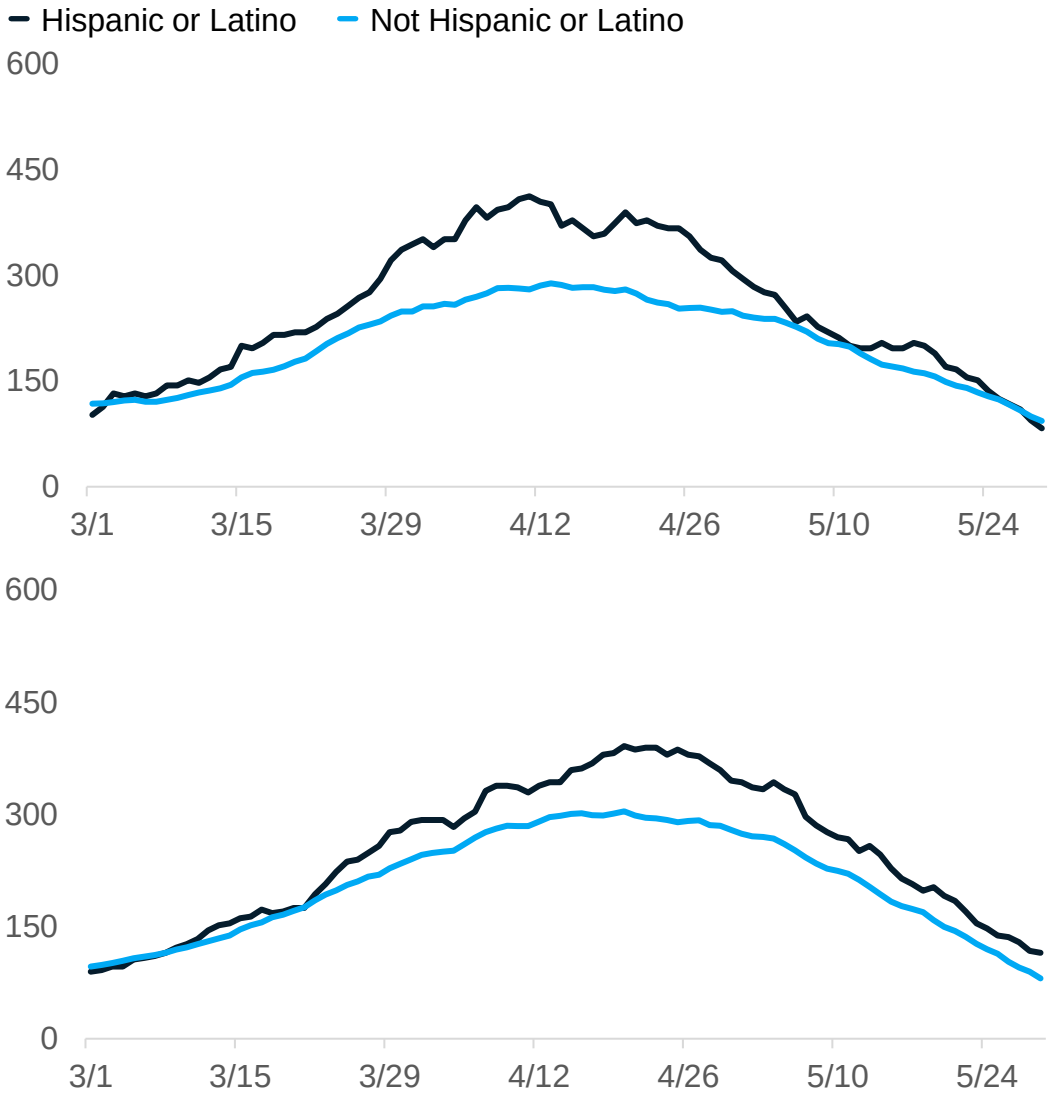
Appendix

Average daily new cases per million people by race and ethnicity

Daily new confirmed and probable cases per million (30-day rolling average) by race category



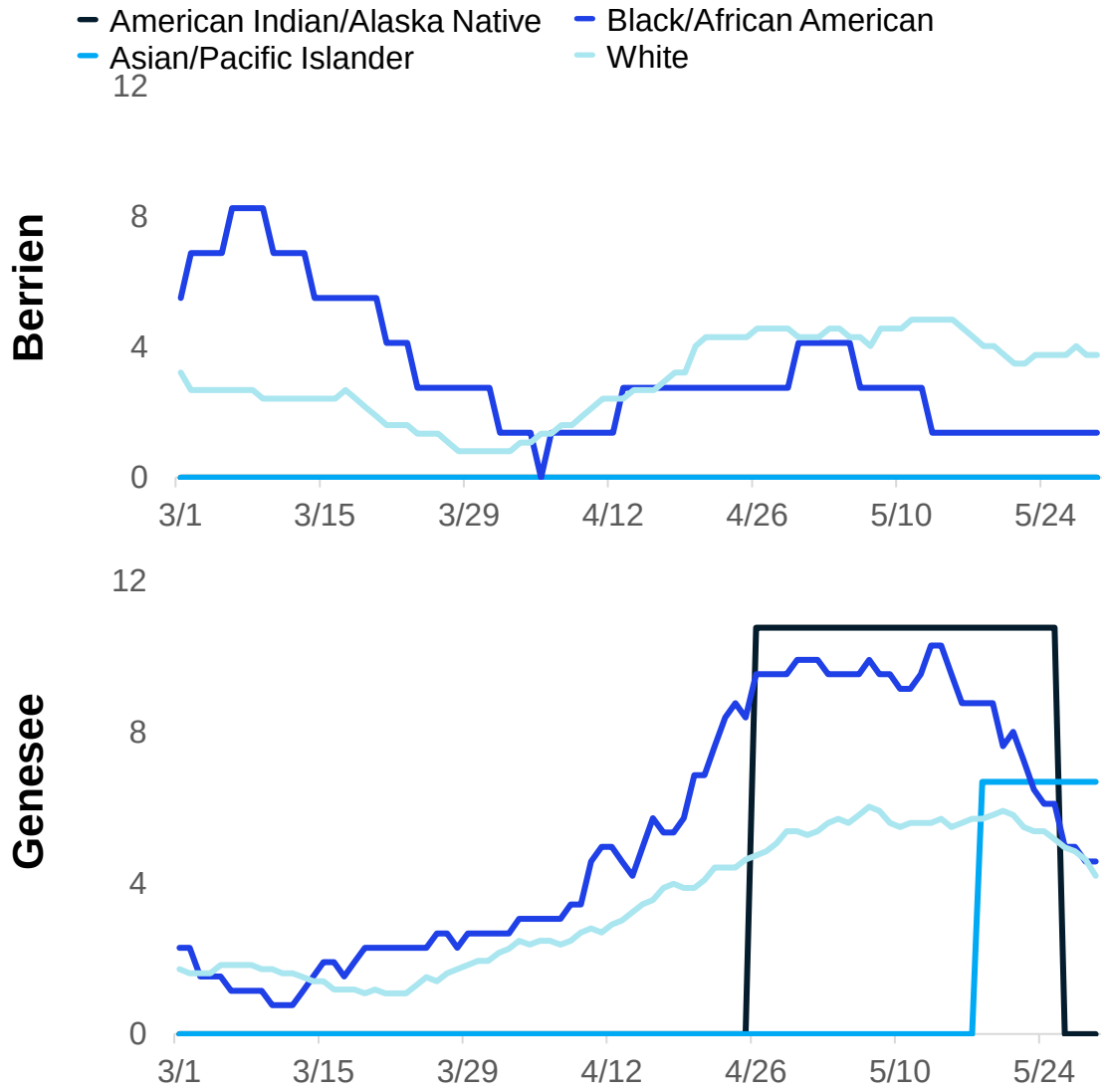
Daily new confirmed and probable cases per million (30-day rolling average) by ethnicity category



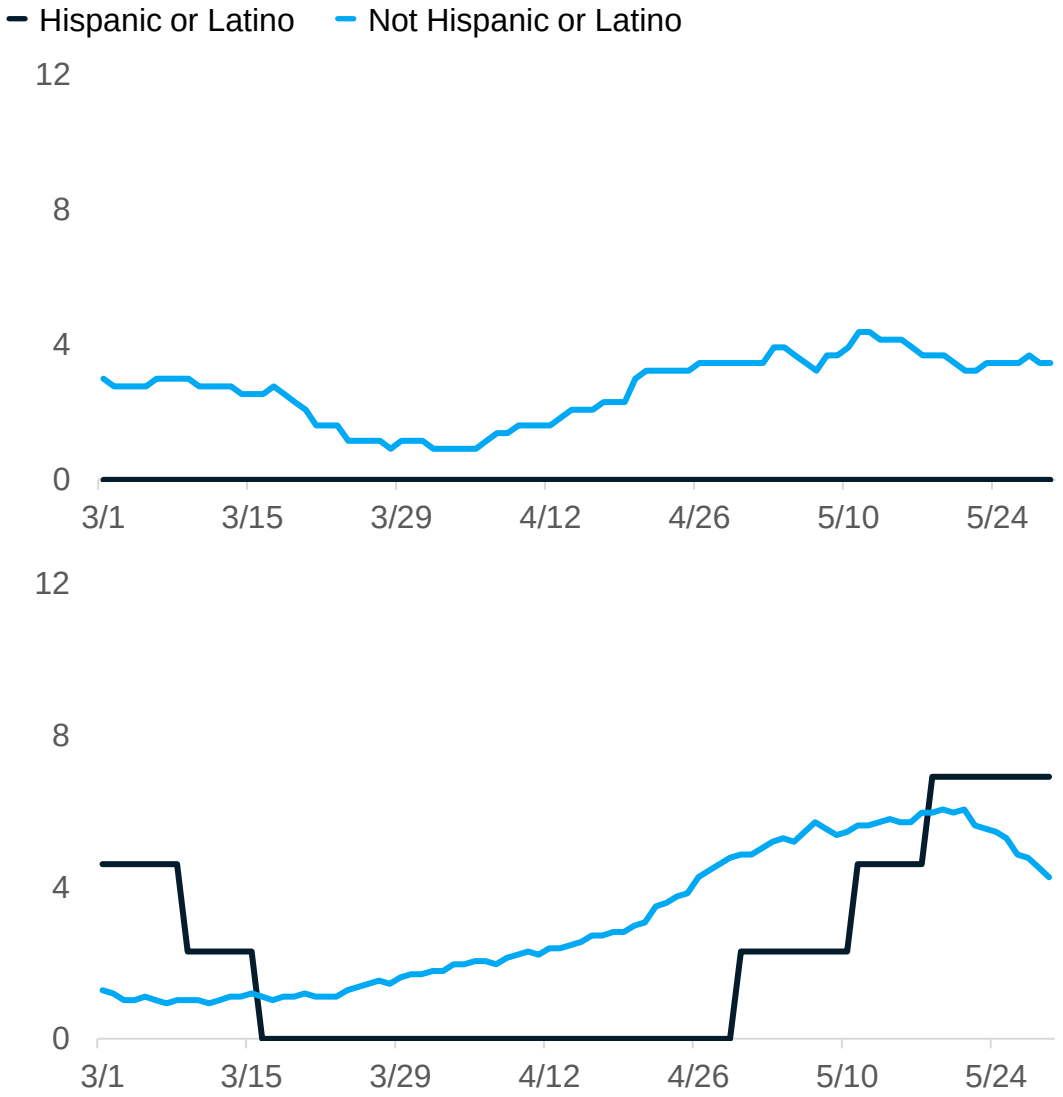
Note: Case information sourced from MDHHS and reflects date of death of confirmed and probable cases.
Source: MDHHS – Michigan Disease Surveillance System

Average deaths per million people by race and ethnicity

Deaths per million (30-day rolling average) by race

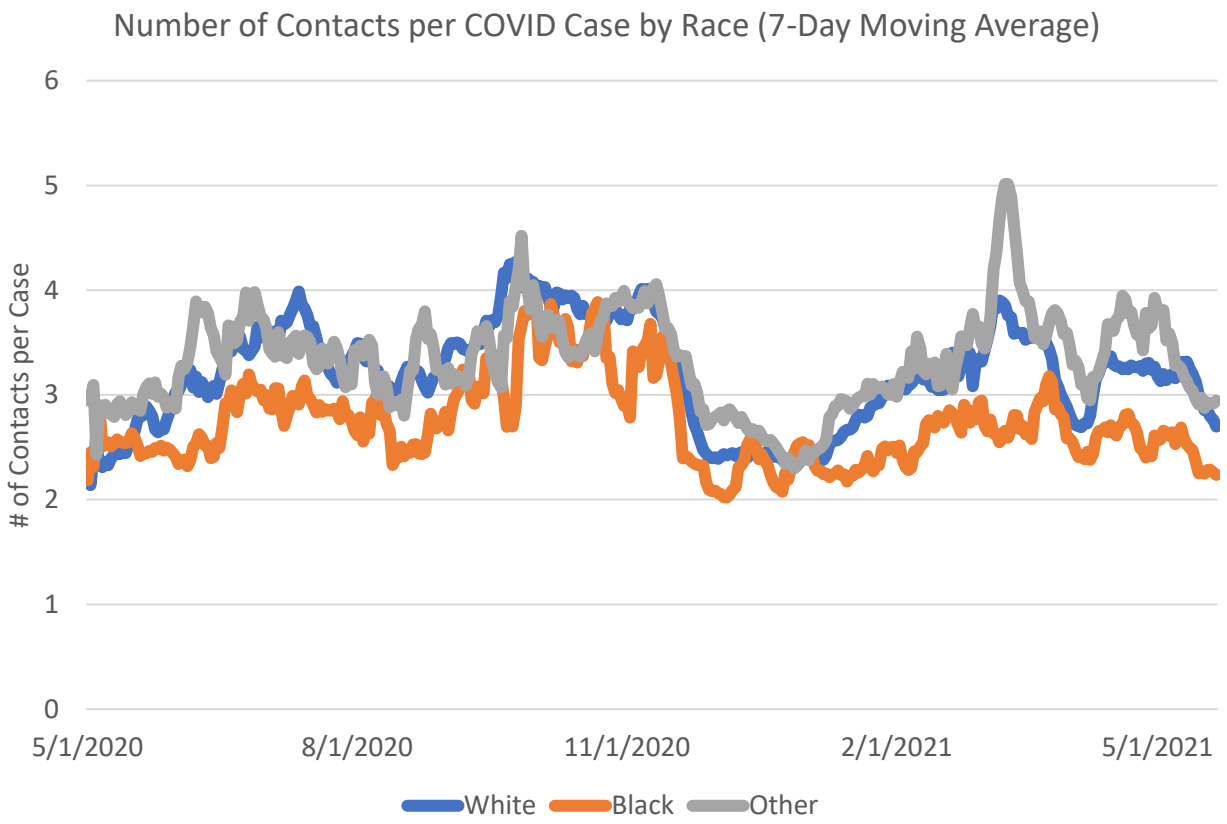


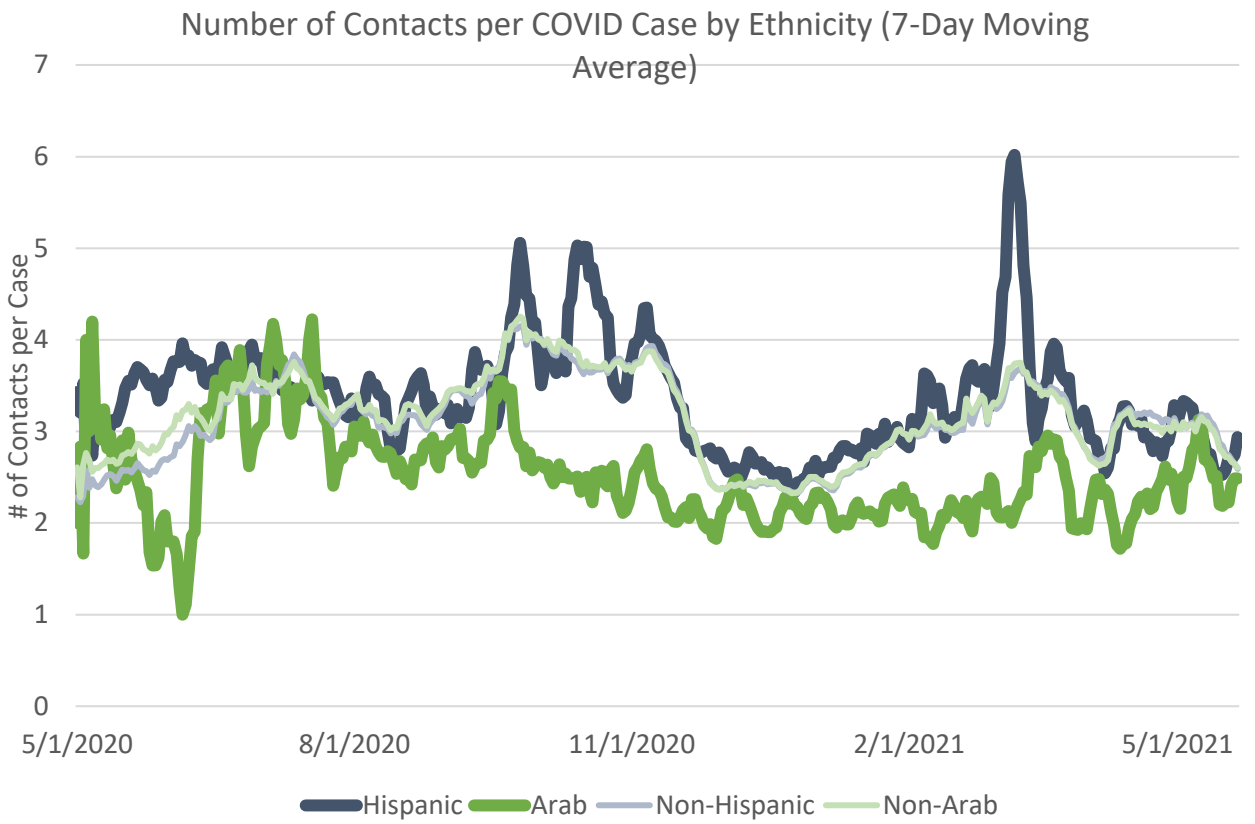
Deaths per million (30-day rolling avg) by ethnicity



Note: Case information sourced from MDHHS and reflects date of death of confirmed and probable cases.
Source: MDHHS – Michigan Disease Surveillance System

COVID-19 Case Investigation Metrics

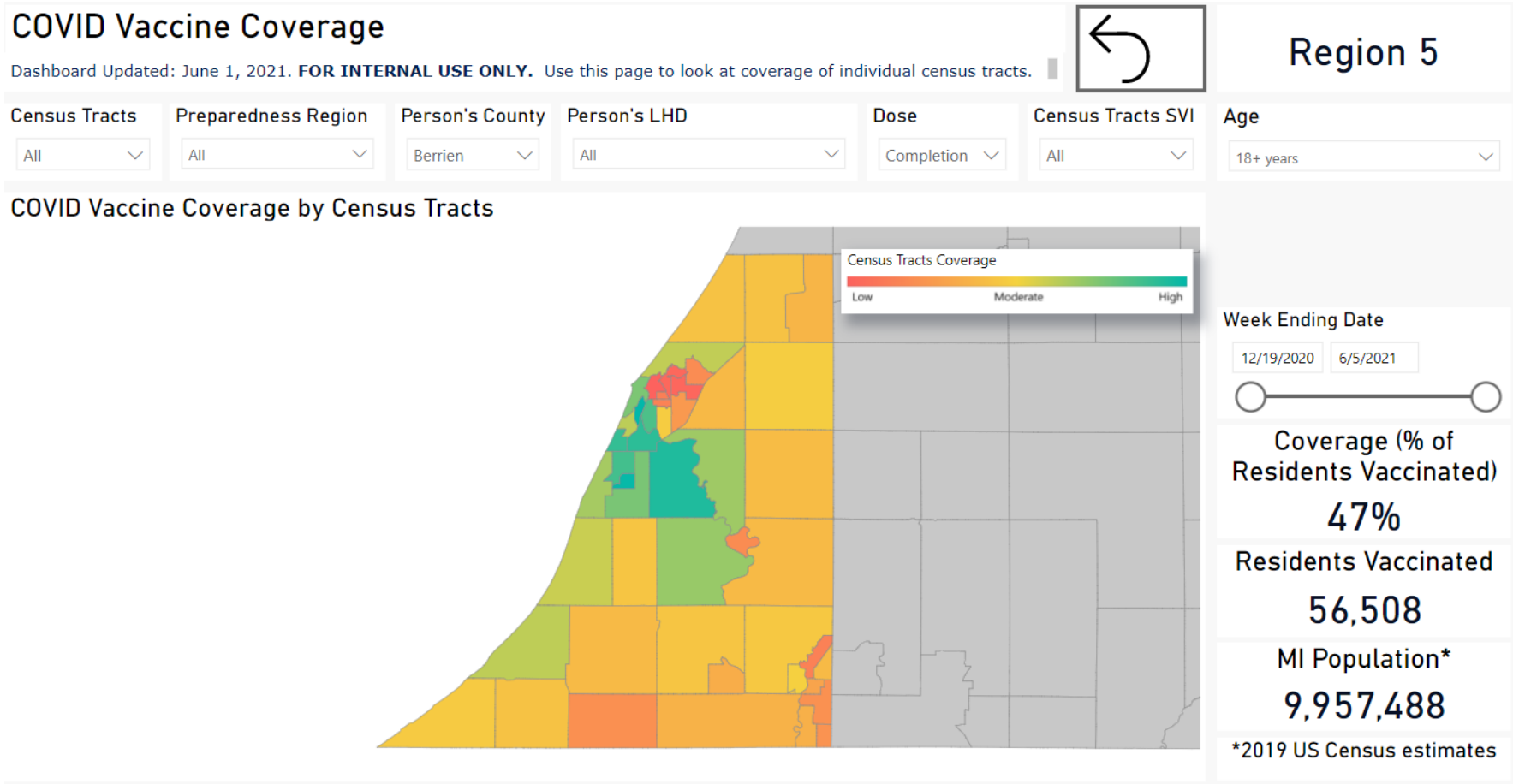




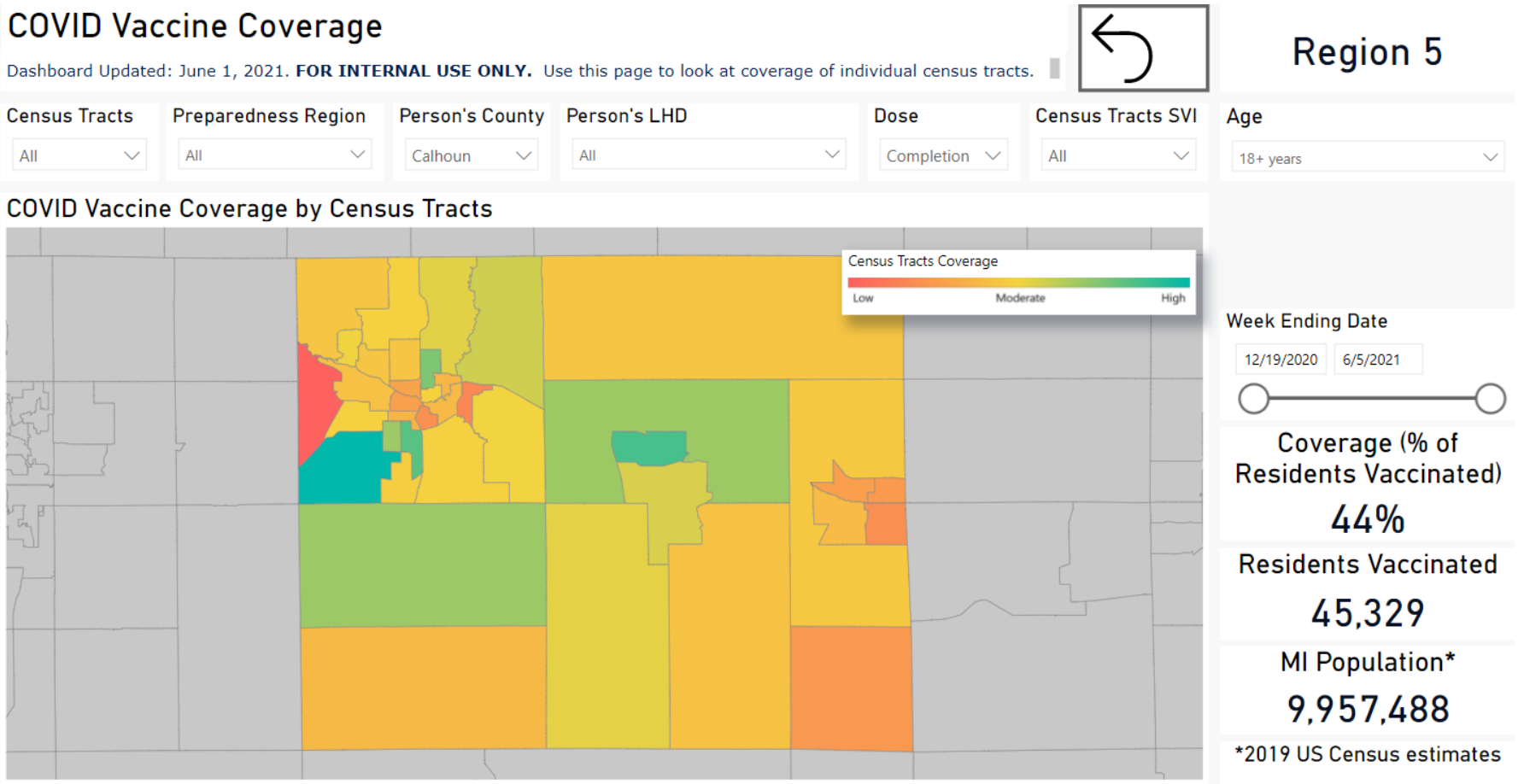
Updates since last week:

- Number of contacts provides indirect insight on mobility and interaction where exposure to SARS-CoV-2 may occur; fewer contacts indicate that public policy or human behavior is preventing widespread transmission
- Number of contacts are obtained via case investigation interviews
- However, lower number of contacts may also indicate hesitancy to reveal close contacts or uncertainty of all close contacts
- Blacks and Arabs have reported fewer contacts, especially so in 2021

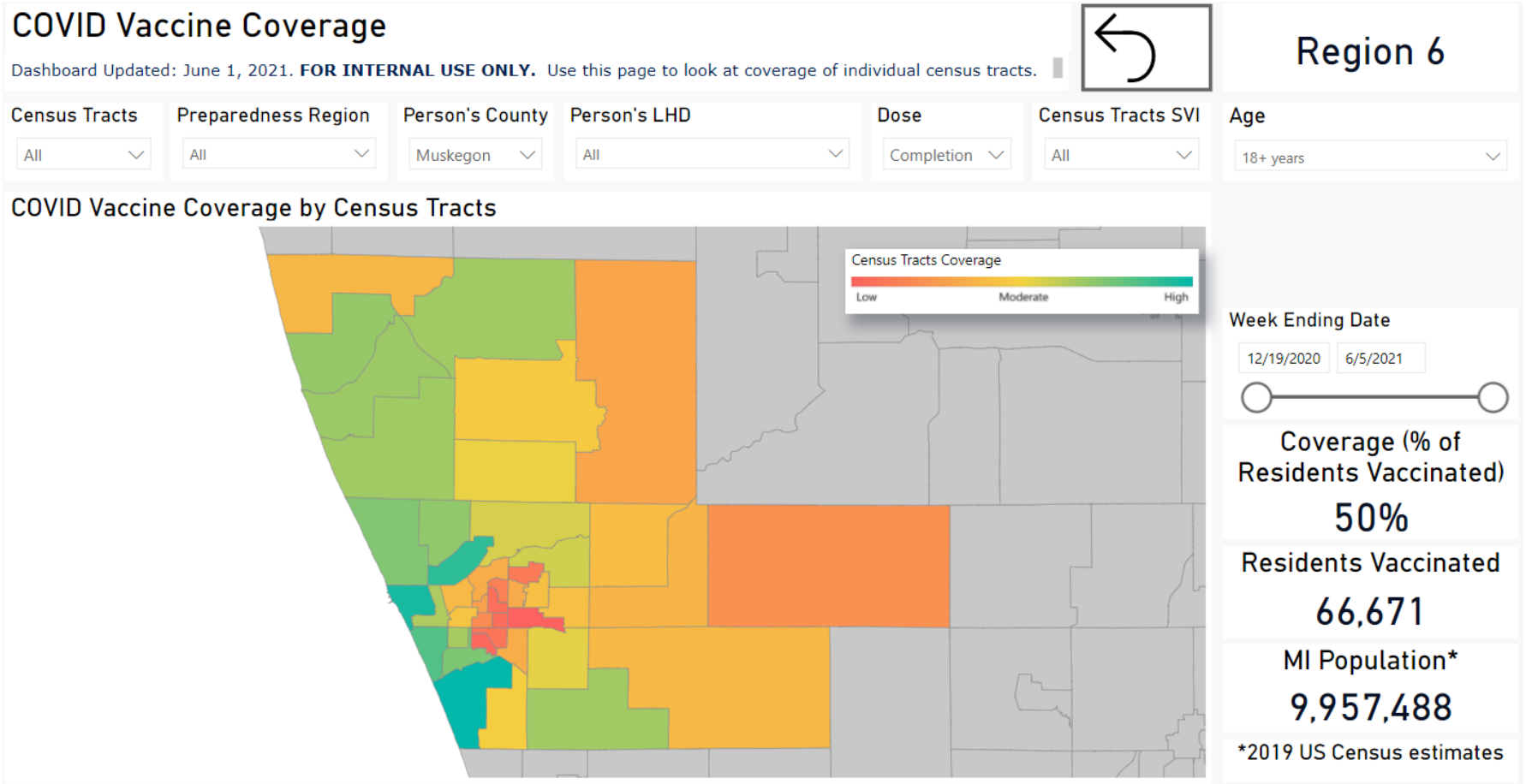
Berrien: vaccine coverage for all ages and races by census tract



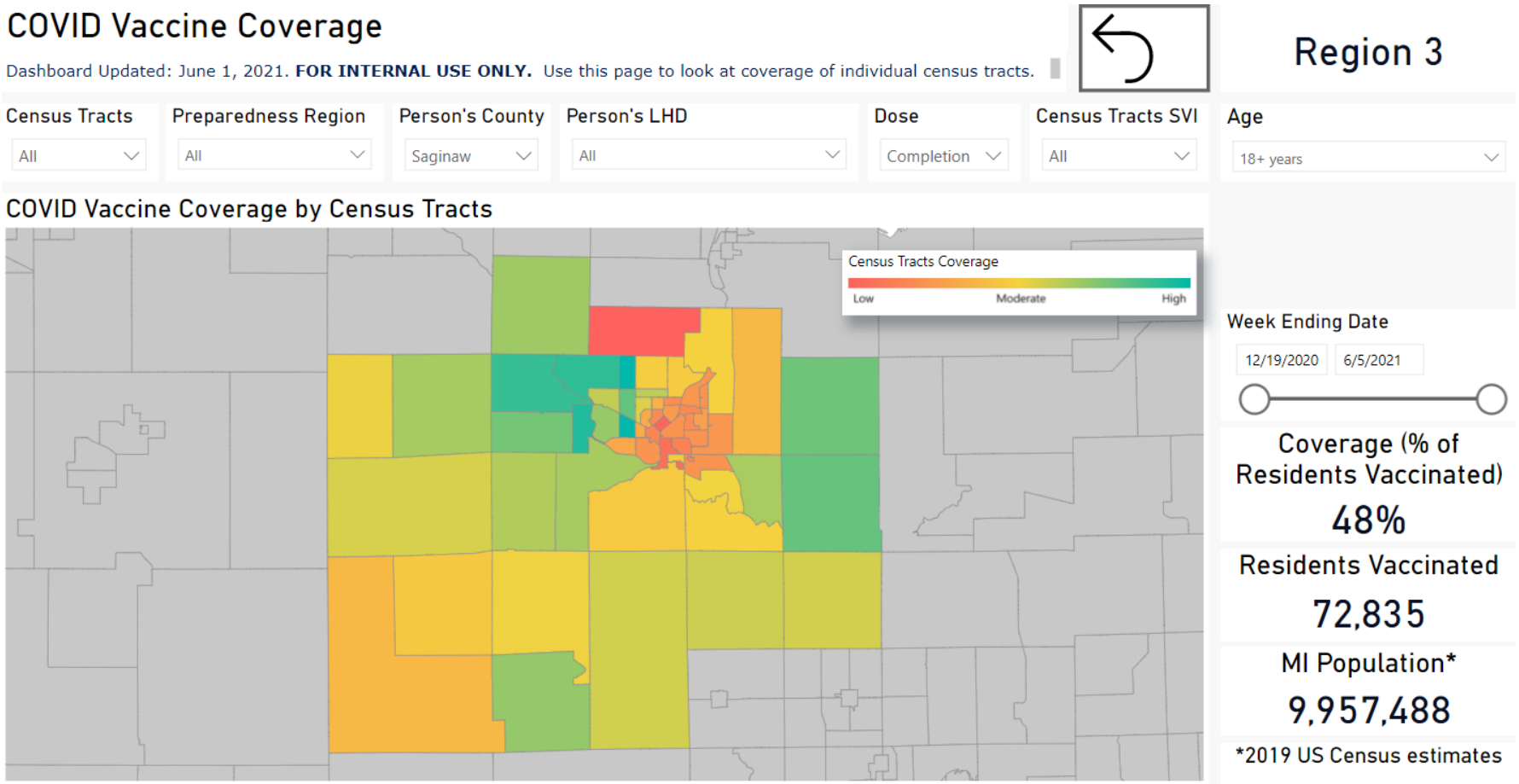
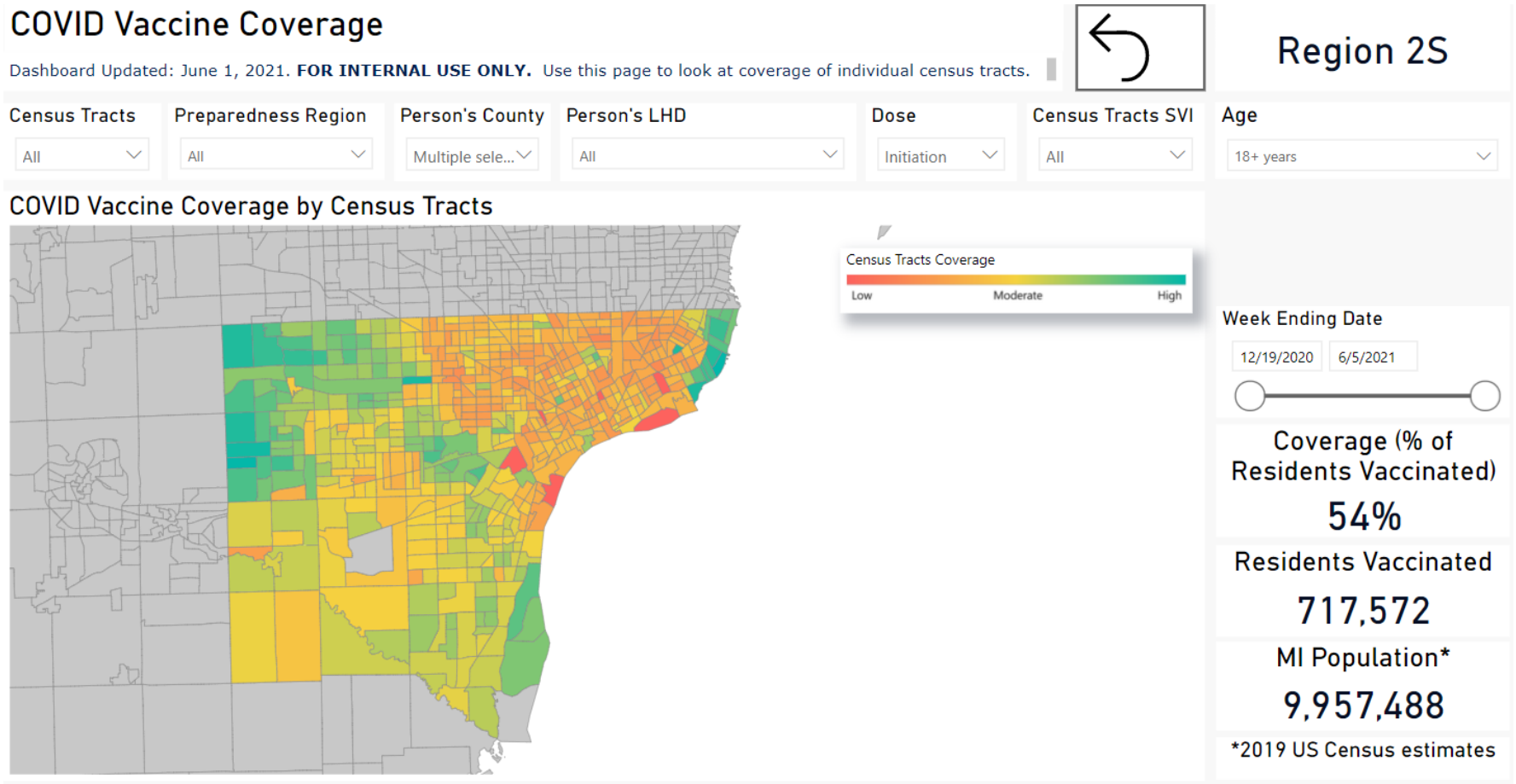
Calhoun County vaccine coverage by census tract



Muskegon County vaccine coverage by census tract



Saginaw County vaccine coverage by census tract



Wayne County (including Detroit) vaccine completion by census tract