

WEEKLY COVID-19 REPORT FOR EXTERNAL USE

WEEK OF: MONDAY, JANUARY 3, 2022

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KEY TAKEAWAYS

Cases

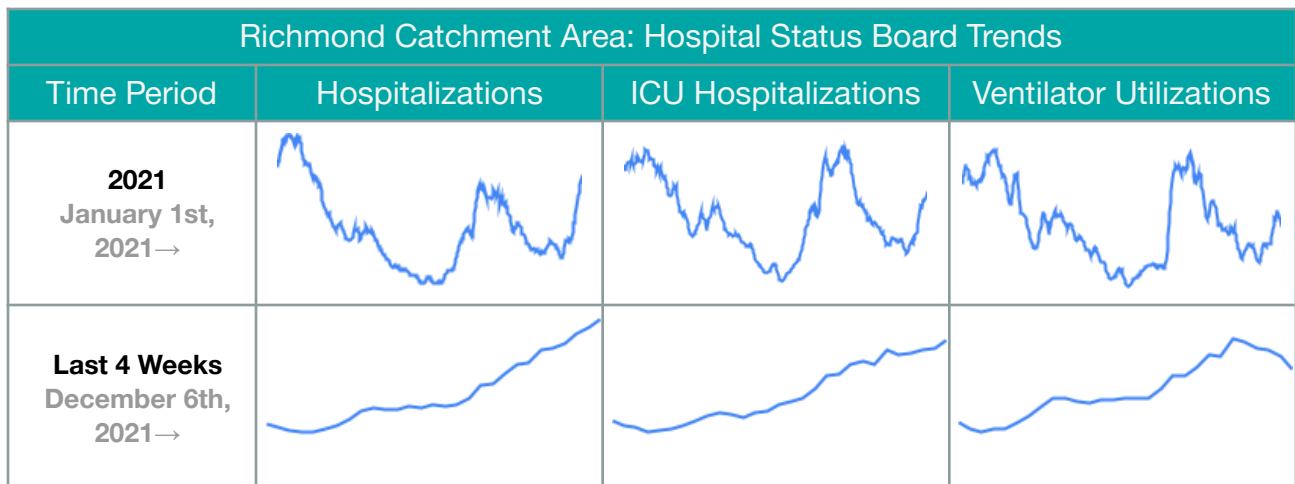
Cases have been **increasing** in both Richmond and Henrico in recent weeks. In both localities, the level of community transmission is considered **High** according to the [CDC Covid Data Tracker](#).

7-day total case rate per 100,00		
District	This Week	2 Weeks ago
Henrico	814.65	235.78
Richmond	885.28	223.49

Richmond & Henrico	
Demographic	Cumulative Highest
Age	20-29 Year Olds 80+
Sex	Female
Race	Latino & Black

HOSPITALIZATIONS & FATALITIES

Among Richmond City and Henrico residents, **hospitalizations** based on confirmed dates of admission for the past two months have continued to fluctuate between **less than 5 and 8** per week per district. **Fatalities** since the start of November have also fluctuated between **less than 5 and 5** deaths per week per district. **Data related to hospitalizations and deaths are subject to sizable amounts of lag.**



- *9 out of 11 hospitals in the Richmond Catchment Area are operating at a 'Normal' clinical status, while 2 are operating at "Level 1" status

VACCINATIONS

In Richmond City and Henrico County Health Districts, anyone aged 5 or older is eligible to receive a vaccine. Pharmacies appear to be administering the largest percentage of vaccines to Richmond and Henrico residents, compared with other providers.

Local Vaccination Stats & Regional Comparison			
Location	≥ 1 Dose	Complete	Booster
Richmond City & Henrico County	68.2%	61..2%	25.3%
Region	69.9%	62.9%	25.5%

Vaccination Demographic Trends		
Demographic	Richmond City	Henrico County
Age Groups	30+	12+
Sex	Female	
Race	Asian/Pacific Islander & Latino	

In both Richmond and Henrico, older age groups have consistently been vaccinated at a higher rate than younger age groups. Section 4 includes an estimated breakdown of vaccination uptake by race and age subgroups.

1.0 COVID-19 SNAP SHOT

1.1 Total Tests & Percent Positivity by Modality in Richmond and Henrico

Total tests by testing modality and the associated 7-day average in percent positivity are summarized in the table below. Data are from the [VDH public dashboard](#) on January 3, 2022.

	RICHMOND CITY		HENRICO COUNTY	
	Tests	Positivity	Tests	Positivity
PCR*	363,793	25.7%	569,756	28.1%
Antigen	103,554	25.2%	206,071	30.9%
Total (PCR, antigen, and antibody)	472,827	25.0%	787,386	29.2%

1.2 Confirmed Cases, Hospitalizations, Fatalities, & Probable Cases by County

CASE STATUS	RICHMOND CITY	HENRICO COUNTY	VIRGINIA
New cases since December 20th, 2021	4,621	6,369	137,005
All cases	31,054	44,535	1,160,703
Confirmed cases	23,088	29,584	835,463
Hospitalizations	962	1,242	40,327
Deaths	338	666	13,038
Probable cases	7,966	14,951	325,240
Hospitalizations	30	57	2,508
Deaths	52	84	2,577
Case rate per 100,000	13476.2	13462.1	13598.5

Weekly cases added are estimated as the difference between the cases recorded from the current and prior week

*Case Rate per 100,000=(confirmed+probable)/population count *100,000.*

Population estimates for the case rate are from 2019 data compiled by the National Center for Health Statistics (NCHS).

1.3 Current COVID-19 Richmond Catchment Area Hospitalizations

The following section utilizes data from the Virginia Healthcare Alerting & Status System (VHASS) COVID-19 Hospital Status Board. This data reflects the following hospitals in the Richmond Catchment Area (Chesterfield County, Hanover County, Henrico County, & Richmond City): VCU Health System, Retreat Doctors', Bon Secours Community, CWJ Chippenham, CWJ Johnson Willis, VA Medical Center, Bon Secours St. Mary's, Henrico Doctors, and Parham Doctors, Bon Secours St. Francis, and Memorial Regional Medical Center.

	TOTAL IN USE FOR COVID-19	CURRENTLY AVAILABLE
Confirmed Hospitalizations	471	61
Pending Hospitalizations	48	
Confirmed - ICU	95	13
Pending - ICU	*	
Confirmed - Ventilators	33	322
Pending - Ventilators	*	

Within the 11 hospitals that comprise the Richmond catchment area, there are currently 61 total available hospital beds, 13 available adult ICU beds, and 322 available ventilators. Based on the VHASS hospital dashboard on January 4, 2022, 9 hospitals in the Richmond Catchment area are operating at normal clinical status', and 2 hospitals are operating at Level 1 clinical status.

**A clinical status of "normal" indicates that hospital clinical resources are operating within normal conditions. A clinical status of Level 1 indicates that hospital clinical resources are operating at Level 1 surge conditions. The hospital activates procedures to provide a rapid in-patient intake capability (i.e. stop elective procedures, expedite early discharges and utilize 100 percent of staffed beds). A clinical status of "full" indicates that hospital clinical resources are exceeded and acceptable care cannot be provided to additional patients. Diversion or Community surge response is required.*

2.0 COVID-19 CASES

2.1 Summary of Cases

Cases in both districts have **increased** over the past few weeks after recent lows in late October and early November. There is a **7-day total case rate** of **885.28** new cases per 100,000 population in Richmond and **814.65** new cases per 100,000 population in Henrico. In both Richmond City and Henrico County, the level of community transmission is considered **High** according to the [CDC Covid Data Tracker](#).

In both districts, females comprise a higher proportion of cases. In Richmond, 20-29 year olds continue to lead case rates cumulatively and in the last four weeks. In Henrico, individuals 80 and older lead cumulatively, followed by 20-29 year olds, but 0-19 year olds comprise the highest case rates in the last four weeks. *The highest incidence of cases in Richmond is still among Black individuals, both cumulatively and in the last four weeks. In Henrico, cases are highest both cumulatively among White individuals. In both districts, the percentage of cases among the Latino population is disproportionately high cumulatively as compared to their population percentage but closer to their population percentage more recently.*

2.2 Case Reporting Trends by Date

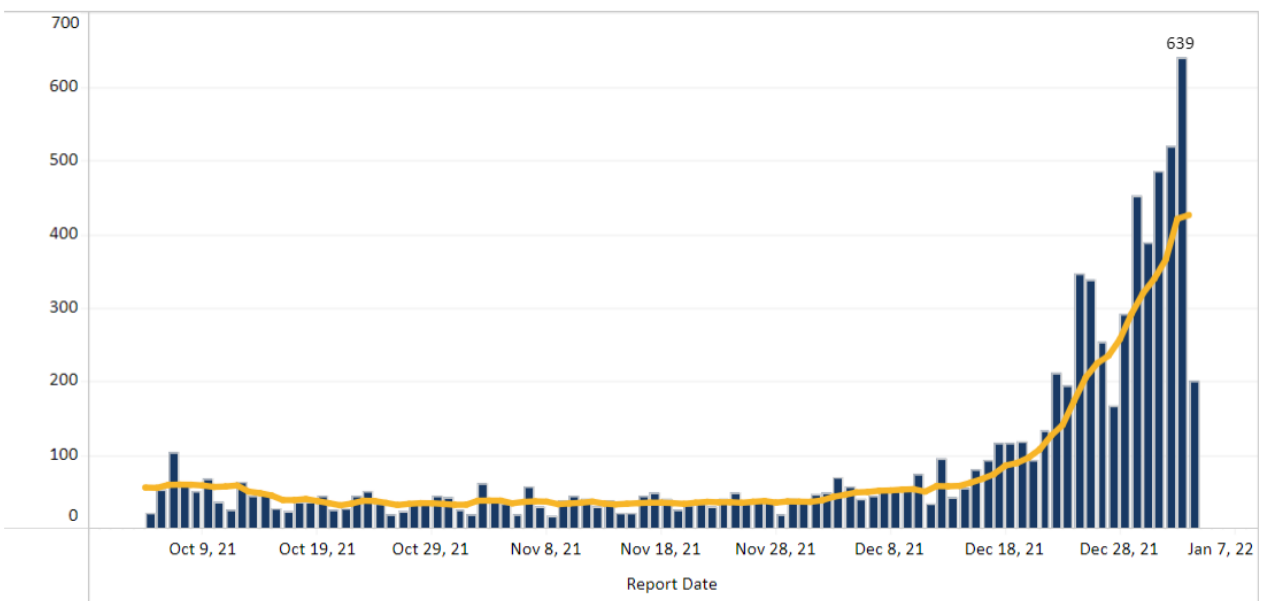
Source: [VDH COVID-19 Cases & Testing Locality Dashboard](#)

Number of New Cases Reported^	7-Day Average Number of Daily New Cases Reported	7-Day Average Number of New Daily Cases Reported, Rate per 100,000 Population	Total Number of New Cases per 100,000 Population within last 14 days
201	426	186.0	2,020

Report Date Daily Cases Counts for past 90 Days
Richmond City

Select Date Range (Affects Bar Chart)

Past 90 Days



- Data from December in Richmond shows daily case counts rising faster than previously recorded during the Covid-19 pandemic, with new peaks over 600 per day.

Number of New Cases
Reported^

323

7-Day Average Number of
Daily New Cases Reported

620

7-Day Average Number of
New Daily Cases Reported,
Rate per 100,000 Population

188.3

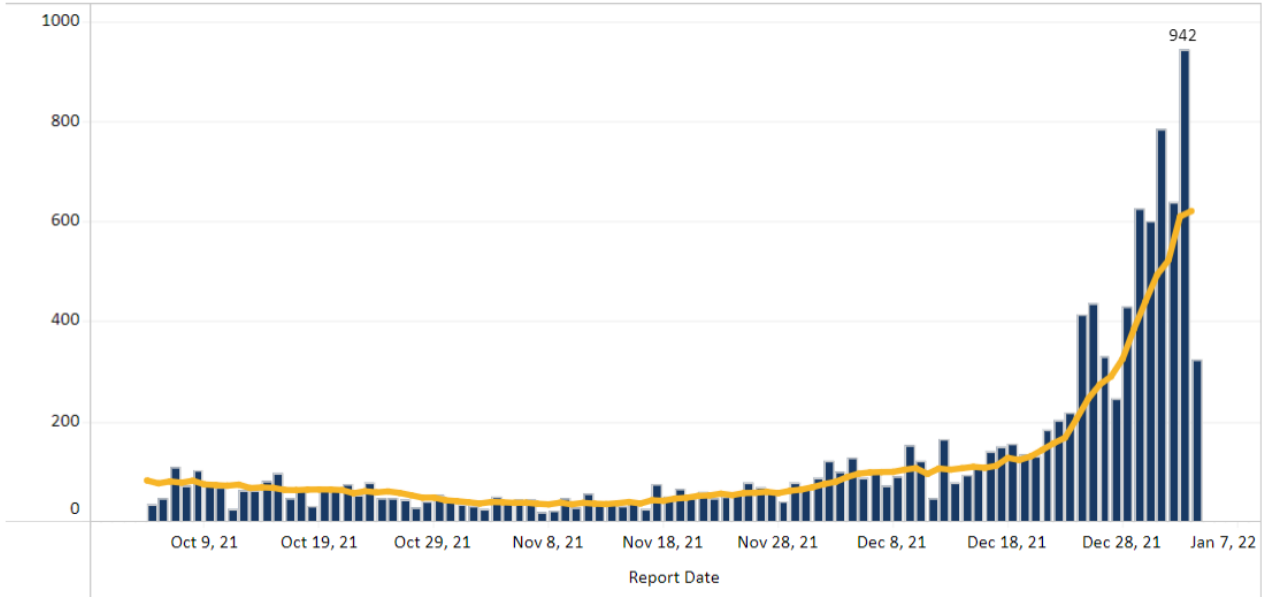
Total Number of New Cases
per 100,000 Population
within last 14 days

1,934

Report Date Daily Cases Counts for past 90 Days
Henrico

Select Date Range (Affects Bar Chart)

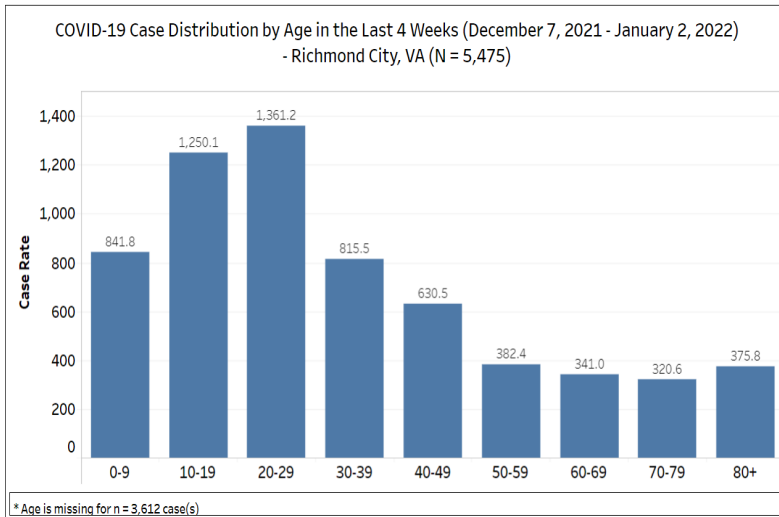
Past 90 Days



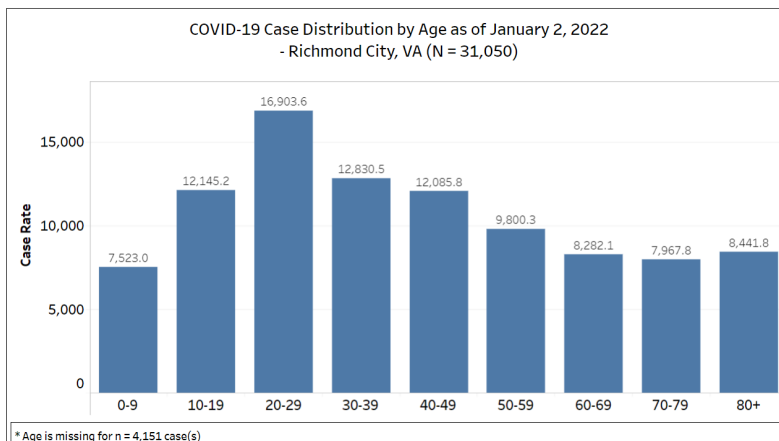
- Data from December in Henrico shows daily case counts rising faster than previously recorded during the Covid-19 pandemic, with new peaks above 900 per day.

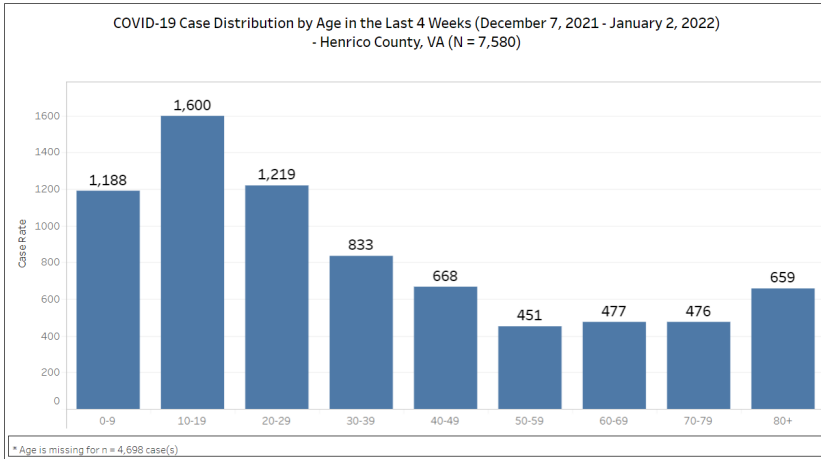
2.3 Cases by Age Group by County

Population totals are based on 2019 data from the National Center for Health Statistics (NCHS). Please note - this is a change from previous reports which used Census data to estimate population by age group.



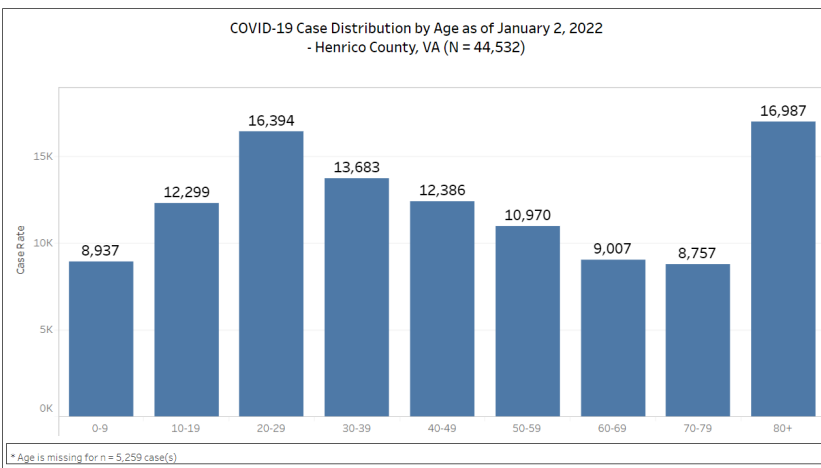
- In Richmond City, individuals aged 20-29 have the highest case rates in the last four weeks, closely followed by individuals aged 10-19. Individuals aged 20-29 have the highest case rate cumulatively.
- Cases for individuals in the 60-79 age group are notably down in the last four weeks compared to cumulatively.
- Cases among those 80 and over are higher than those 60-79 in the last four weeks.





- In Henrico, individuals aged 10-19 have the highest case rates in the last four weeks. Individuals aged 80+ the highest case rate cumulatively followed by those 20-29.

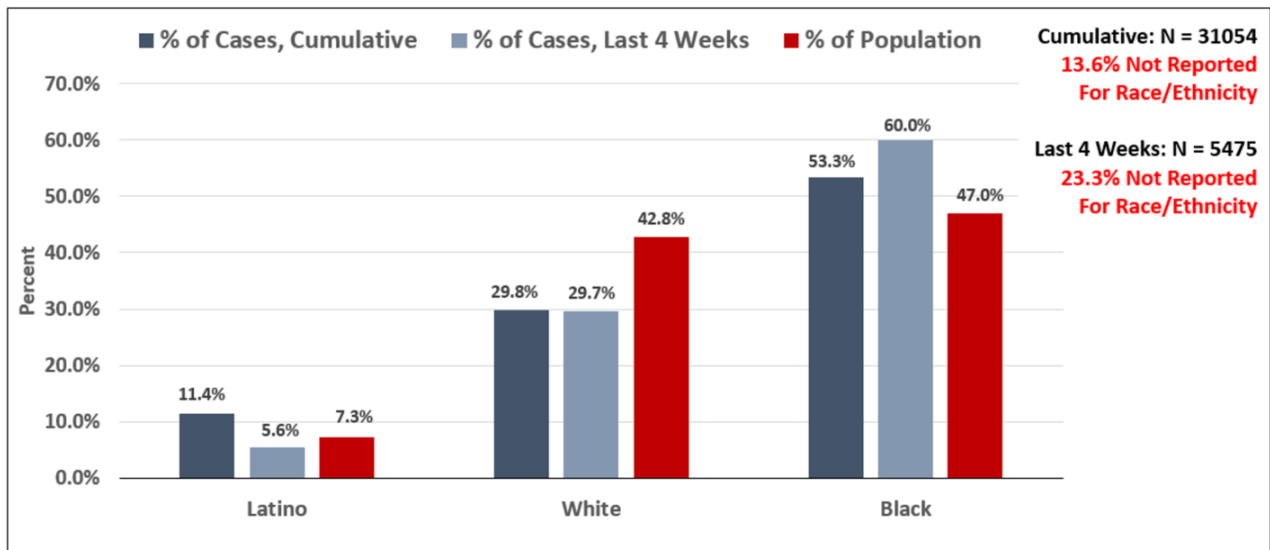
- Case burdens for individuals 40 and over are notably down in the last four weeks compared to cumulatively.



2.4 Cases & Population Proportions by Race & Ethnicity by County

Population totals are based on 2019 data from the National Center for Health Statistics (NCHS).

COVID-19 Case Distribution by Race and Ethnicity in the Last 4 Weeks (December 7, 2021 – January 2, 2022)- and Cumulatively through January 2, 2022 – Richmond City, VA



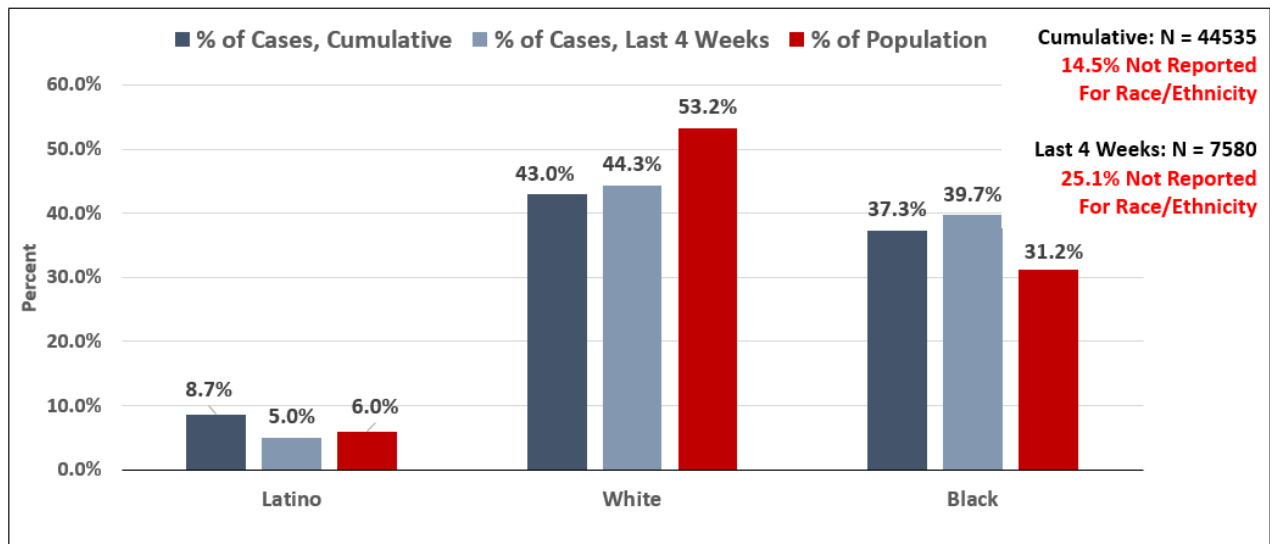
* NCHS population estimates are not available for Two or More Races (307 total cases) or Other Race (651 total cases) and thus they are absent from the plots.

* Missing and Unknown Ethnicities were assumed to be of Non-Hispanic ethnicity.

* Cases among individuals identifying as Asian or Pacific Islander or Native American are suppressed (counts < 5)

- In the last 4 weeks of Richmond, the case burden for Black individuals (60%) is disproportionately high relative to their population percentage (47.0%), while the case burden for White and Latino individuals is disproportionately low (29.7% and 5.6% respectively) relative to their population percentage (42.8% and 7.3% respectively)..

COVID-19 Case Distribution by Race and Ethnicity in the Last 4 (December 7, 2021 – January 2, 2022)- and Cumulatively through January 2, 2022 – Henrico County, VA



* NCHS population estimates are not available for Two or More Races (513 total cases) or Other Race (1522 total cases) and thus they are absent from the plots.

* Missing and Unknown Ethnicities were assumed to be of Non-Hispanic ethnicity.

* Cases among individuals identifying as Native American are suppressed (counts < 5)

- In Henrico in the last four weeks case burdens for White individuals (52.4%) are proportional to their share of the population (53.2%). So too is the case burden for Black individuals (30.1%) proportional to their share of the population (31.2%).

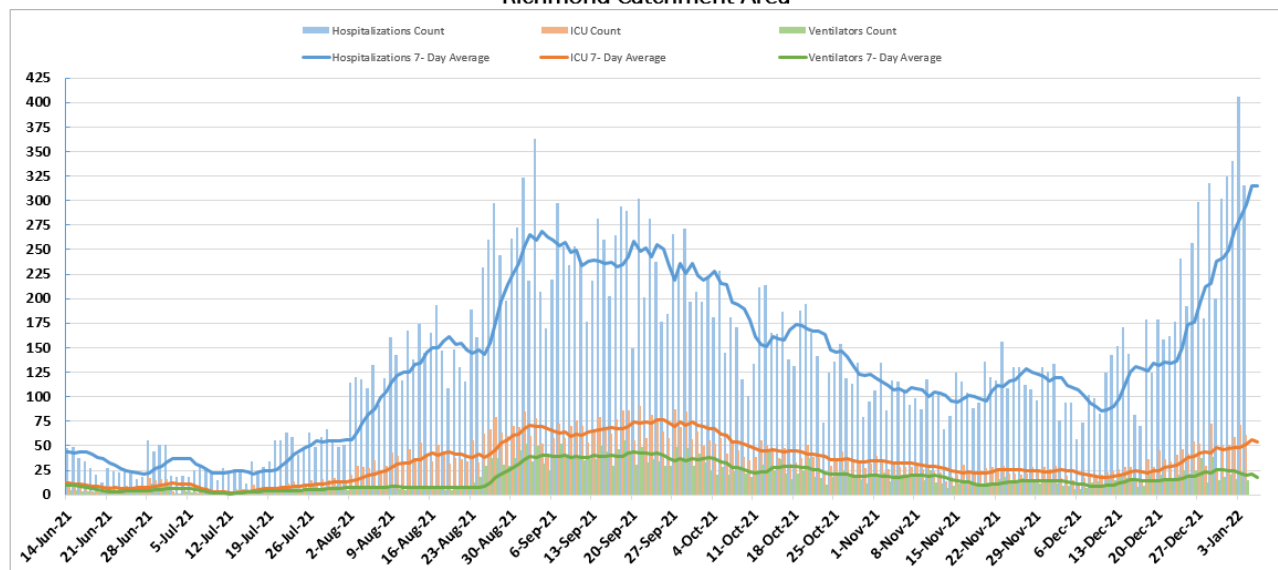
3.0 Hospitalizations & Fatalities

3.1 Summary of Hospitalizations & Fatalities

Among Richmond City and Henrico residents, **hospitalizations** based on confirmed dates of admission for the past two months have continued to fluctuate between **less than 5 and 10** per week per district. **Fatalities** since the middle of October have also fluctuated between **less than 5 and 6** deaths per week per district. **Data related to hospitalizations and deaths are subject to sizable amounts of lag.**

3.2 COVID-19 Hospitalization, ICU, & Ventilator Utilization (VHASS)

Total Daily COVID-19 Hospitalizations, ICU Hospitalizations, and Ventilator Utilizations
June 14, 2021 – January 2nd, 2022
Richmond Catchment Area



*Sum Of Daily Counts Displayed in Above Metric - Hospitalizations: 28,243 of 111,035 ALL TIME, ICU Hospitalizations: 7,062 of 25,403 Ventilator Utilizations: 3,600 of 12,913

- Hospitalizations, ICU Hospitalizations, and Ventilator Utilizations in the Richmond Catchment area showed an overall decrease from late September through mid December, despite a couple of notable fluctuations. Data from the last two weeks of December & early January indicate a sharp rise in Hospitalizations, and relatively mild corresponding increases in ICU Hospitalizations & Ventilator Utilizations.

4.0 VACCINATION

4.1 Vaccine Summary

In Richmond City and Henrico County Health Districts, anyone aged 5 or older is eligible to receive a vaccine.

As of January 3, 69.9% of the region's population has received at least one dose of the vaccine. 62.9% of the region's population has been fully vaccinated. A growing number of 25.5% had received a booster in the region. Approximately 68.2% of the combined Richmond City and Henrico County population has received at least one dose and 61.2% of the two districts' combined population has been fully vaccinated. 25.3% of the population has also received a booster.

In both Richmond City and Henrico County, older age groups have consistently been vaccinated at a higher rate than younger age groups. In Richmond City, the 70% vaccination benchmark has been met by individuals aged 65 and over. In Henrico County that same benchmark was recently met by individuals aged 30 and over and all groups 12+ are now over 70% in the "at least one dose" category.

This section includes an estimated breakdown of vaccination uptake by race, sex, and age subgroups.

4.2 Percentage of Vaccination Goals Reached by Population

		POPULATION	PEOPLE WITH AT LEAST ONE DOSE	PEOPLE FULLY VACCINATED	PEOPLE WITH BOOSTER
Richmond	5-11	15,198	3,652 (24%)	2,603 (17.1%)	0 (0%)
	12-17	11,150	6,762 (60.6%)	5,885 (52.8%)	365 (3.3%)
	18+	190,750	127,387 (66.8%)	114,341 (59.9%)	51,806 (27.2%)
	65+	31,809	25,605 (80.5%)	23,587 (74.2%)	15,232 (47.9%)
Henrico	5-11	28,406	9,734 (34.3%)	6,675 (23.5%)	0 (0%)
	12-17	25,954	19,381 (74.7%)	17,382 (67%)	1,201 (4.6%)
	18+	256,660	210,414 (82%)	192,113 (74.9%)	88,704 (34.6%)
	65+	52,720	49,310 (93.5%)	45,574 (86.4%)	31,399 (59.6%)

Population totals are based on 2019 data from the National Center for Health Statistics (NCHS). These totals are used in order to calculate percent in each column. Please note - this is a change from previous reports which used Census data to estimate population by age group.

4.3 Vaccinations by Locality as of January 3, 2022

Source: vdh.virginia.gov

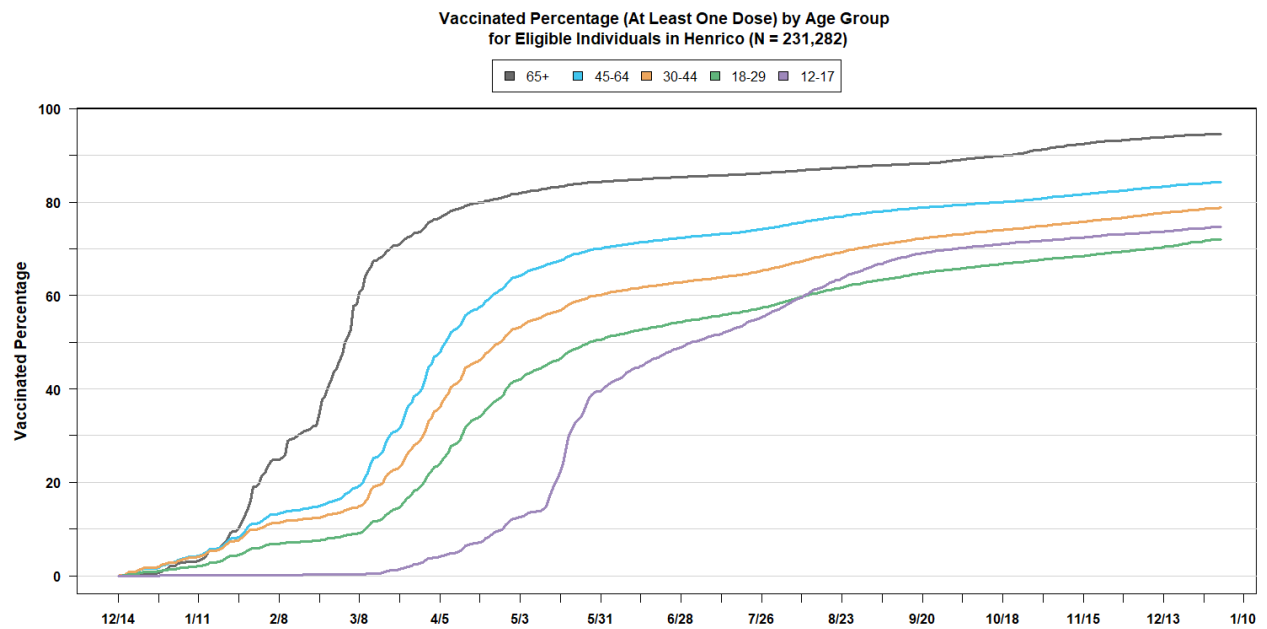
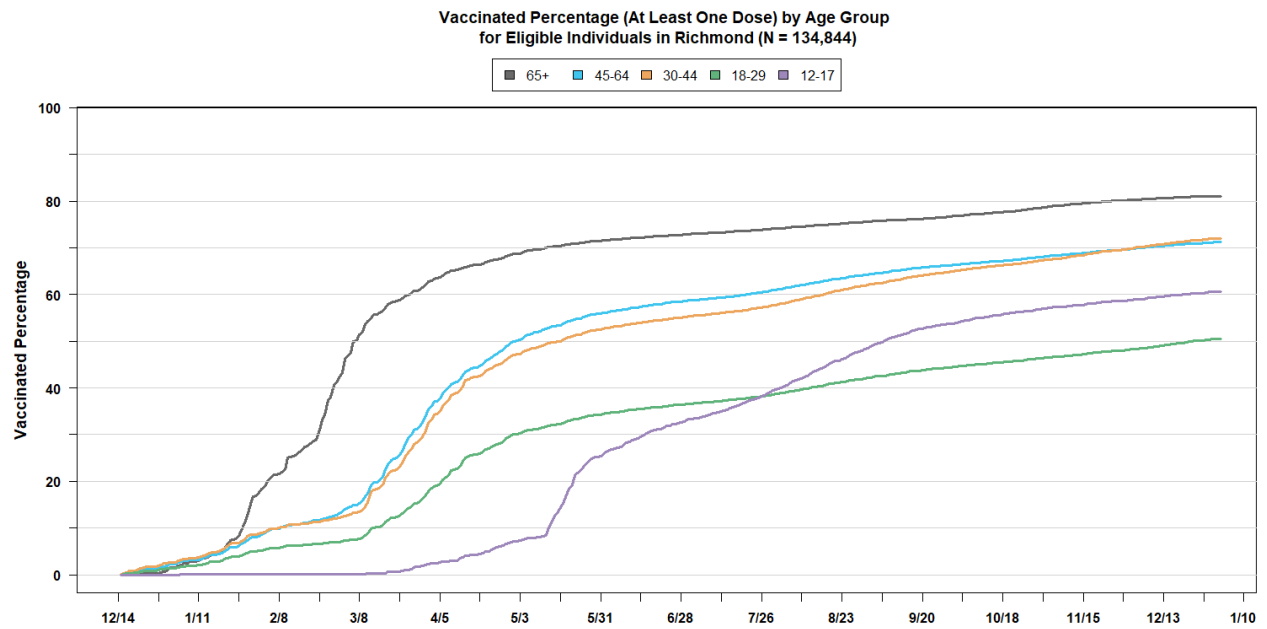
HEALTH DISTRICT	LOCALITY	TOTAL POPULATION	PEOPLE WITH AT LEAST ONE DOSE	PEOPLE FULLY VACCINATED	PEOPLE WITH BOOSTERS
Chesterfield	Chesterfield	352,802	254,650	227,636	90,439
	Colonial Heights	17,370	10,932	9,506	3,663
	Powhatan	29,652	17,802	16,208	6,930
Chickahominy	Charles City	6,963	7,000	6,663	1,543
	Goochland	23,753	18,405	17,063	7,517
	Hanover	107,766	78,035	72,285	28,613
	New Kent	23,091	14,948	13,703	5,444
Henrico	Henrico	330,818	242,970	218,746	89,905
Richmond	Richmond City	230,436	139,800	124,723	52,171
Total		1,122,651	784,542	706,533	286,225

Population totals are based on 2019 data from the National Center for Health Statistics (NCHS). Please note - this is a change from previous reports which used Census data to estimate population by age group.

4.4 Vaccine Distribution by Age Group over Time

The following charts track vaccination percentage by age group over time since vaccinations first began in mid-December. **Note: These plots exclude individuals under 12, so the total vaccinations reported for each plot will not match the numbers reported in other sections. Methodology for creating the following plots is currently under revision.**

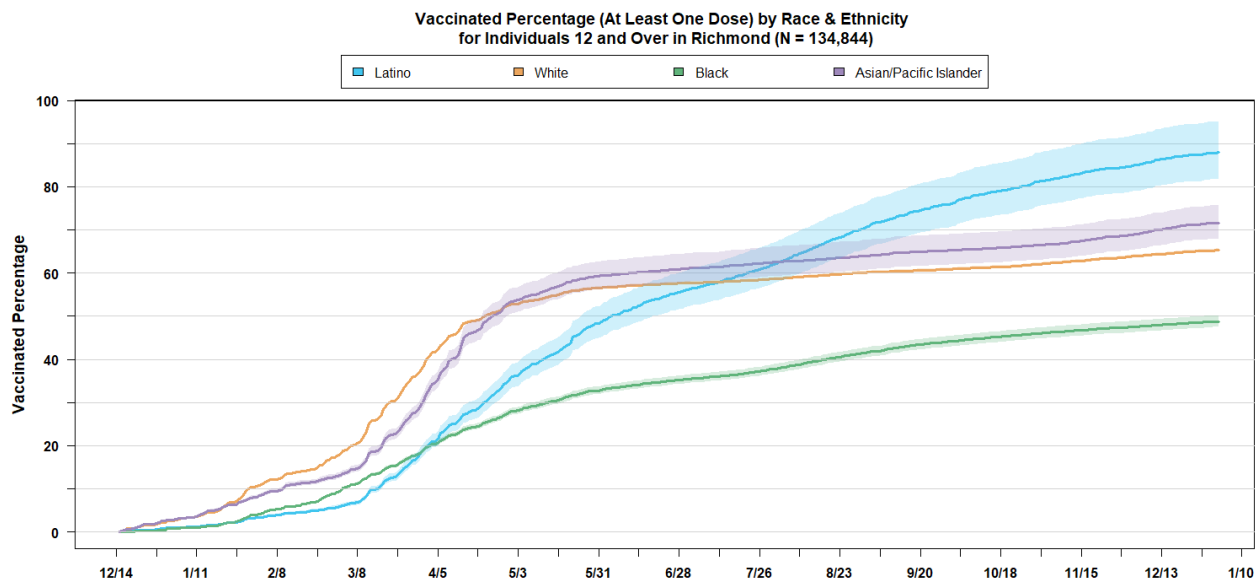
- Over 80% of individuals aged 65 and older in Richmond, and 45 and older in Henrico have received at least one dose of a COVID-19 vaccine.
- In most cases, older age groups have achieved higher vaccination percentages than those of younger age groups within the same locality.
- Henrico age groups have achieved higher vaccination percentages than their corresponding Richmond age groups and many younger age groups in Henrico have achieved higher percentages than older age groups in Richmond.
- After later access to vaccination, individuals 12 to 17 saw a notable increase in vaccinations while the pace of new vaccinations amongst individuals 18 to 29 slowed, leading to higher vaccination percentages in the younger age group in both Richmond and Henrico. The pace of vaccinations among individuals 12 to 17 has slowed in recent months.
- All data is subject to lags in reporting, particularly in recent weeks.

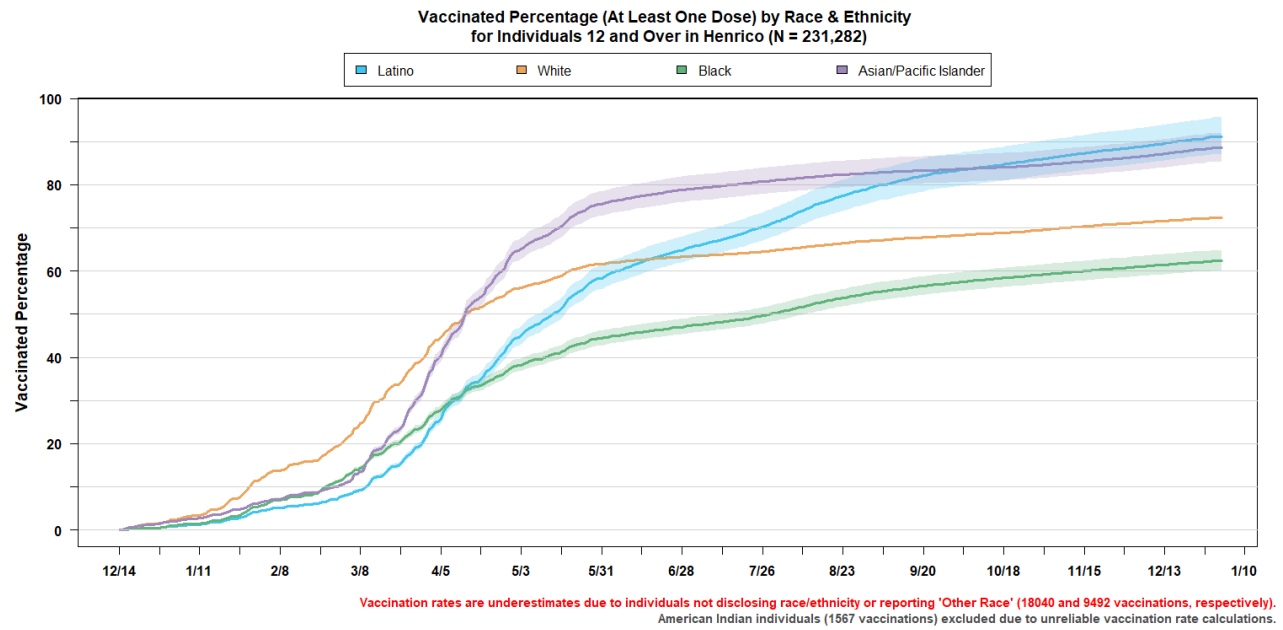


4.5 Vaccine Distribution by Race/Ethnicity over Time

The following charts track vaccination percentages by race and ethnicity over time since vaccinations first began in mid-December. **Note: These plots exclude individuals under 12, so the total vaccinations reported for each plot will not match the numbers reported in other sections. Methodology for creating the following plots is currently under revision.**

- Through spring, White individuals and Asian or Pacific Islander individuals generally had higher vaccination percentages in both Richmond and Henrico
- White individuals maintained the highest vaccination percentage through early April in Richmond and late April in Henrico before Asian or Pacific Islander individuals surpassed them for the highest percentages.
- In early months, vaccination percentages of both Latino and Black individuals were lower, with Black individuals still comprising the lowest vaccinated percentage as of today.
- Latino individuals saw an acceleration in vaccination rates beginning in early March after a slow start and have since surpassed White individuals in vaccine uptake in both Richmond and Henrico. They also possess the highest vaccination percentage overall in Richmond.
- In Henrico, Asian or Pacific Islander individuals and Latino individuals have reached vaccination percentages above 85%, while White individuals have surpassed 70% and Black individuals have surpassed 60%.
- Vaccination percentages are lower in both Richmond and Henrico for Black individuals.
- All data is subject to lags in reporting, particularly in recent weeks.

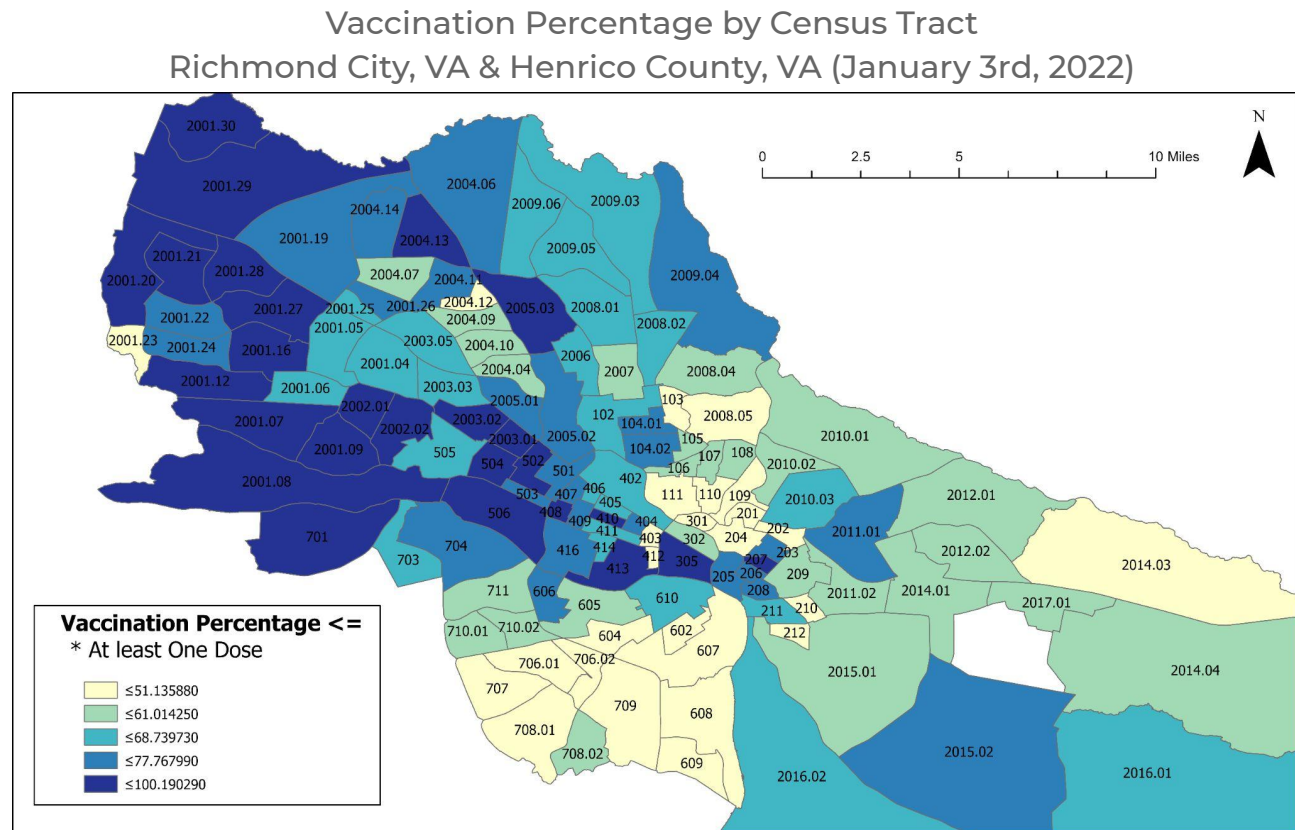




4.6 Vaccine Distribution Maps

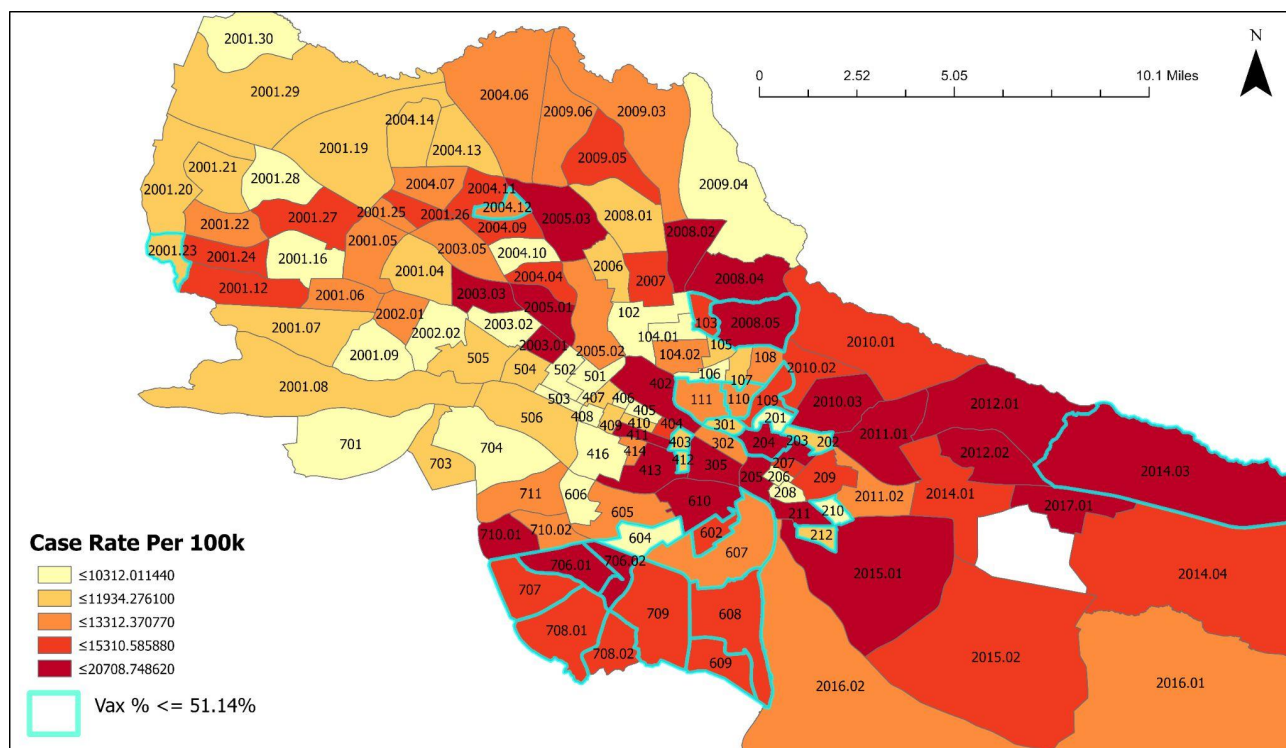
Below are maps that compare vaccination uptake percentage and COVID-19 burden by census tract. The data collected is consistent with statewide and national data trends; lower income communities of color tend to experience more severe outcomes of COVID-19, yet are disproportionately undervaccinated. RHHD monitors this data as part of its equity-driven approach; this data is used to assist program managers in strategically standing up vaccination opportunities, outreach, and education efforts in areas that are in highest need.

These percentages are estimations, and are solely intended for use in the planning and facilitation of outreach events.



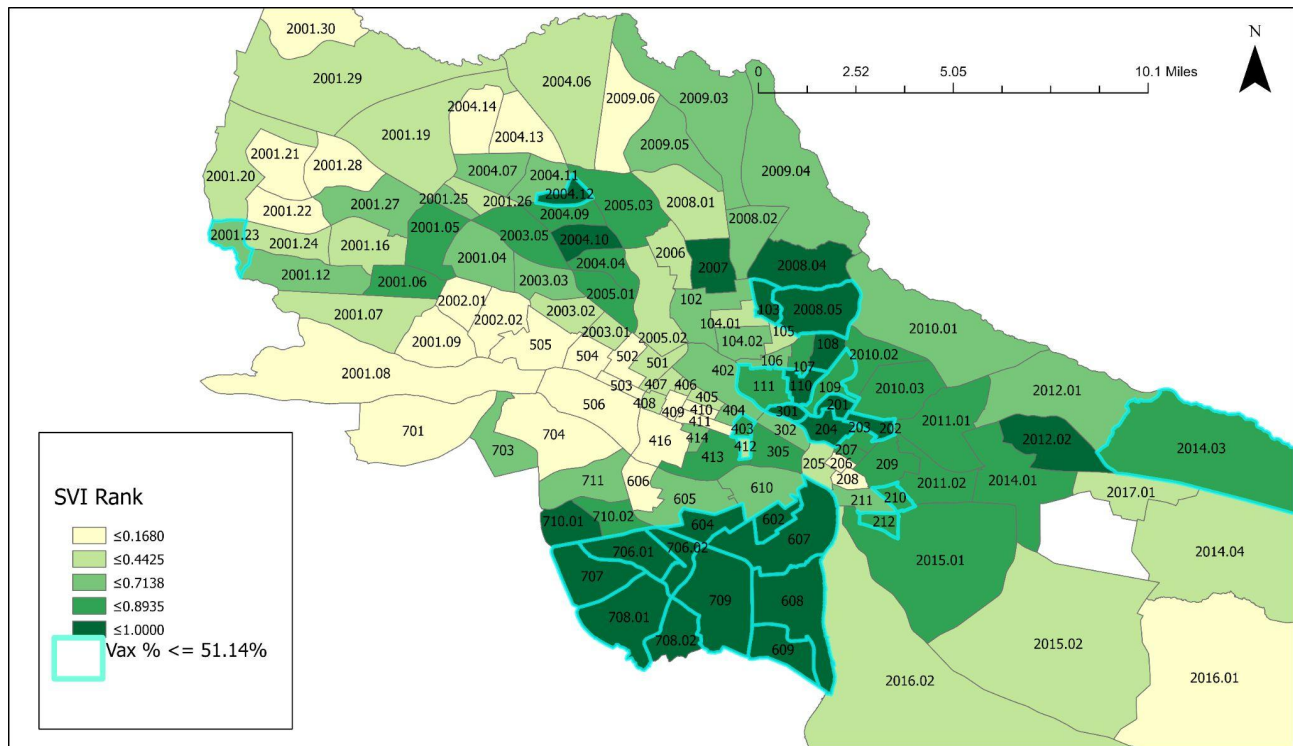
*Percentage of population receiving at least one dose

COVID-19 Case Rate per 100k & Low Vaccination Percentage Tracts Richmond City, VA & Henrico County, VA (January 3rd, 2022)



*Percentage of population receiving at least one dose

Social Vulnerability & Low Vaccination by Census Tract Richmond City, VA & Henrico County, VA (January 3rd, 2022)



*Percentage of population receiving at least one dose

- **Social vulnerability** is based on the CDC's [Social Vulnerability Index](#), last updated in 2018.
- **COVID-19 vaccination percentages** reflect the percentage of the **Total Population** within each tract that has been vaccinated. Data are sourced from the Virginia Immunization Information System (VIIS).
- **COVID-19 case rates** reflect **Cumulative** cases per 100,000 census tract population and are sourced from the Virginia Electronic Disease Surveillance System (VEDSS).
- **Population estimates** are from the US Census 2019 ACS Community Survey 5-year estimates.
- SVI, vaccination percentage, and case rates are visualized on these maps using the [quantiles classification](#) method, dividing the range into 5 groups, each containing

the same number of observations (census tracts).

5.0 Glossary

7-day average number of new daily cases

Recurrent average of the number of cases for each consecutive 7-day period regardless of data availability.

7-day total case rate per 100,000

Calculated by adding the number of new cases in the county (or other administrative level) in the last 7 days divided by the population in the county (or other administrative level) and multiplying by 100,000. **7-day total case rate per 100,000** is considered to have a transmission level of Low (0-9.99), Moderate (10.00-49.99), Substantial (50.00-99.99), or High (greater than or equal to 100.00).

Antigen

Antigens are molecules capable of stimulating an immune response. Antigen tests are commonly used in the diagnosis of respiratory pathogens such as the COVID virus.

Assisted living facilities

A housing facility designed for people with disabilities or adults who cannot/decide not to live independently

At least one dose

This metric includes everyone who has received only one dose [including those who received one dose of the single-shot Johnson and Johnson's Janssen COVID-19 vaccine] and those who received more than one dose.

Case rate

the number of cases per 100,000 people in the population. Calculation: $((\text{Confirmed Cases} + \text{Probable Cases}) / \text{Population Estimate}) * 100,000$

Community Transmission

Refers to when an individual is infected with the COVID in an area, including some who are not sure how or where they became infected. Community Transmission is low when less than 10 new cases per 100,000 persons in the past 7 days OR <5% of positive NAATs tests during the past 7 days. Nucleic Acid Amplification Test, or NAAT, is a type of viral diagnostic test for SARS-CoV-2, the virus that causes COVID-19

Confirmed Case

A confirmed case is an individual who had a confirmatory viral test performed by way of a throat swab, nose swab or saliva test and that specimen tested positive for SARS-CoV-2, which is the virus that causes COVID-19.

Congregate settings

A setting where a number of people reside, meet or gather in close proximity for a period of time. Examples include homeless shelters, prisons, detention centers, schools and workplaces.

Cumulative

Consisting of accumulated parts created by successive additions - In the context of this report “cumulative” refers to the total number of things (cases, vaccinations, deaths, ect) that have occurred during the time frame referenced.

Fully Vaccinated

For the purposes of this report an individual is considered fully vaccinated after receiving two doses of either the Pfizer-BioNTech COVID-19 vaccine (COMIRNATY) or the Moderna COVID-19 vaccine, or after receiving one dose of the Janssen (Johnson & Johnson) COVID-19 vaccine.

High density workplaces

Workplace settings in which individuals are there for long time periods (e.g., for 8-12 hours per shift), and have prolonged close contact (within 6 feet for 15 minutes or more).

Hospitalizations

Number of confirmed & pending COVID-19 patients receiving inpatient hospital care or utilizing an inpatient hospital bed (e.g., observation status) AND being treated for COVID-19 related complications. This metric is not cumulative; only report current counts at the time the user updates VHASS. This metric excludes confirmed inpatients in the hospital for primary reasons other than COVID complications.

ICU hospitalizations

Number of confirmed & pending COVID-19 patients receiving inpatient hospital care and are utilizing an Intensive Care Unit (Adult CC) bed for treatment related to COVID-19 complications. This metric is not cumulative; only report current counts at the time the user updates VHASS. This metric excludes confirmed inpatients in the hospital for primary reasons other than COVID complications.

Independent living facilities

Housing arrangements and communities for older adults that range from apartment-style communities to housing co-ops. It is designed for seniors who can still live independently

Locality

A community in which people live. The Commonwealth of Virginia is divided into 95 counties, along with 38 independent cities that are considered county-equivalents for census purposes. For the purpose of this report, the term “Locality” is used to refer to one of these 133 independent communities. The boundaries of the Richmond City Health Department and Henrico Health Department closely align with the boundaries of the Richmond City and Henrico County localities, but that is not the case with many other health districts across the state.

Long-term care facilities

Housing facilities for people with disabilities or for adults who cannot or who choose not to live independently.

NCHS

The National Center for Health Statistics who releases bridged-race population estimates of the resident population of the United States for use in calculating the Nation's official vital statistics

PCR

PCR stands for polymerase chain reaction. The test isolates genetic material from a patient sample and duplicates it many times, allowing for the presence of Covid-19 genetic material to be detected if present. The PCR test is the strongest and most reliable Covid-19 test currently available.

Percent positivity

For each event is calculated by dividing the number of tests yielding a 'Detected' result by the summed number of 'Detected' and 'Not Detected' results, and then multiplying this number by 100 to get a percent.

Population Estimate

Unless otherwise stated, population totals are based on 2019 data from the National Center for Health Statistics (NCHS). Please note- this is a change from some previous reports which used aggregated Census data regarding population by age group.

Probable Case

A probable case is an individual who has not had a confirmatory test performed but has: a positive antigen test, or clinical criteria of infection and is at high risk for COVID-19 infection (e.g. healthcare worker)

Provider Category

Health Department, Pharmacy, Health System, Community Provider, Safety Net, Other Locality

Race/Ethnicity

Prioritizes Hispanic Ethnicity over Patient stated Race, consolidates into groups: Hispanic, Asian & Pacific Islanders, White, Black, Native American & Unreported

Resident

Person(s) who self indicate, through census enumeration, medical documentation, or registration information that their primary residence is within the locality or health district referenced

Richmond catchment area

Hospital jurisdictions that serve the population of the greater Richmond metropolitan area: these include the hospital jurisdictions of Hanover, Henrico, Chesterfield, and Richmond City.

Sara Alert

Virginia based voluntary contact monitoring platform; individuals can update local health departments on their health status during the period of time they are participating in public health monitoring. The Sara Alert system is secure and always contacts users from the same phone number or email: 844-957-2721 or notifications@saraalert.org.

Social Vulnerability

The potential negative effects on communities caused by external stresses on human health. Such stresses include natural or human-caused disasters, or disease outbreaks. Reducing social vulnerability can decrease both human suffering and economic loss. More information on the CDC's Social Vulnerability Index can be found at <https://svi.cdc.gov/>

Spread

COVID-19 spreads when an infected person breathes out droplets and very small particles that contain the virus. These droplets and particles can be breathed in by other people or land on their eyes, noses, or mouth. In some circumstances, they may contaminate surfaces they touch. People who are closer than 6 feet from the infected person are most likely to get infected.

Suspect Case

Meets supportive laboratory evidence, with no prior history of being a confirmed or probable case. For suspect cases, jurisdictions may opt to place them in a registry for other epidemiological analyses or investigate to determine probable or confirmed status.

Tested Count

Represents all individuals who received a 'Detected', 'Not Detected', or 'Inconclusive' result (Records from individuals who registered for an event but who were not tested were removed prior to this analysis).

Testing Encounter

Instance where COVID-19 test is administered to a person in the community via a known provider.

Vaccination Percentage

The number of individuals vaccinated divided by estimated population of a referenced community, locality or health district - Whether "Vaccinated" refers to "Fully vaccinated" or "At least one dose" should be clarified in the specific metric.

VEDSS

Virginia Electronic Disease Surveillance System (VEDSS) is the primary data system used by the Virginia Department of Health (VDH) for disease surveillance. VEDSS is used to track COVID-19 cases and laboratory reports.

Ventilator utilizations

The number of Ventilators currently in use to treat patients diagnosed with Covid-19 amongst hospitals within the Richmond Catchment Area.

VHASS

The Virginia Healthcare Alerting and Status System (VHASS) is the data system used to collect information on hospital status, resources, and critical care capabilities. VHASS helps in the distribution of critical emergency management information needed by Virginia hospitals and healthcare providers.

VIIS

The Virginia Immunization Information System (VIIS) is Virginia's statewide immunization registry that contains immunization data of persons of all ages.

ZCTA

ZIP Code Tabulation Areas (ZCTAs) are generalized areal representations of United States Postal Service (USPS) ZIP Code service areas.