

# WEEKLY COVID-19 REPORT FOR EXTERNAL USE

WEEK OF: SEPTEMBER 23, 2022

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## KEY TAKEAWAYS

### Cases

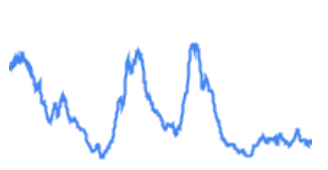
According to the [CDC Covid Data Tracker](#), cases are **decreasing** in Richmond and Henrico in recent weeks, and The [CDC COVID-19 Community Level](#) is **Medium**.

| 7-day total case rate per 100,000 |              |            |
|-----------------------------------|--------------|------------|
| District                          | This Week    | 1 Week Ago |
| Henrico                           | <b>105.5</b> | 127.3      |
| Richmond                          | <b>133.2</b> | 160.1      |

| Richmond & Henrico |                    |
|--------------------|--------------------|
| Demographic        | Cumulative Highest |
| <b>Age</b>         | 20-29 Year Olds    |
| <b>Sex</b>         | Female             |
| <b>Race</b>        | Latino & Black     |

### HOSPITALIZATIONS & FATALITIES

Among hospitals in the Richmond Catchment Area, **hospitalizations** appear to have plateaued the last four weeks. **Fatalities** appear to have fallen every month since **January** in both districts. **Data related to deaths are subject to sizable amounts of lag.**

| Richmond Catchment Area: Hospital Status Board Trends |                                                                                     |                                                                                      |                                                                                       |
|-------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Time Period                                           | Hospitalizations                                                                    | ICU Hospitalizations                                                                 | Ventilator Utilizations                                                               |
| January 1st, 2021 →                                   |  |  |  |
| Last 4 Weeks Aug 25 2022 →                            |  |  |  |

- 10 out of 11 hospitals in the Richmond Catchment Area are operating at a 'Conventional' clinical status, while 1 are operating at 'Contingency' status.

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### 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      |
| <b>Richmond City &amp; Henrico County</b>     | <b>71.2%</b> | <b>66.9%</b> | <b>34.9%</b> |
| Region                                        | 72.0%        | 67.8%        | 34.9%        |

| Vaccination Demographic Trends |                                 |                |
|--------------------------------|---------------------------------|----------------|
| Demographic                    | Richmond City                   | Henrico County |
| <b>Age Groups</b>              | 30+                             | 12+            |
| <b>Sex</b>                     | Female                          |                |
| <b>Race</b>                    | 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 PCR Tests & PCR Percent Positivity by Health District

|                                             | RICHMOND CITY | HENRICO COUNTY |
|---------------------------------------------|---------------|----------------|
| Cumulative PCR Tests                        | 447,137       | 720,705        |
| PCR Tests 9/13 - 9/19                       | 2,264         | 2,207          |
| 7-Day Moving Average Positivity 9/13 - 9/19 | 6.9%          | 15.1%          |

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

| CASE STATUS                        | RICHMOND CITY | HENRICO COUNTY | VIRGINIA  |
|------------------------------------|---------------|----------------|-----------|
| New cases this week (September 15) | 791           | 867            | 9,768     |
| All cases                          | 56,685        | 81,506         | 2,068,350 |
| Confirmed cases                    | 41,209        | 51,703         | 1,466,103 |
| Hospitalizations                   | 1,156         | 1,525          | 52,358    |
| Deaths                             | 457           | 875            | 18,010    |
| Probable cases                     | 15,476        | 29,803         | 602,247   |
| Hospitalizations                   | 45            | 87             | 3,443     |
| Deaths                             | 79            | 136            | 3,652     |
| Case rate per 100,000              | 24599         | 24637.7        | 24232.3   |

*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 | 121                       | 76                  |
| Pending Hospitalizations   | 24                        |                     |
| Confirmed - ICU            | 19                        | 40                  |
| Pending - ICU              | <5                        |                     |
| Confirmed - Ventilators    | 6                         | 368                 |
| Pending - Ventilators      | *                         |                     |

\*This metric is unrelated to the CDC's measure of "Percent of staffed inpatient beds occupied by COVID-19 patients". The metrics are sourced differently and represent different geographic areas.

### Clinical Status of Richmond Catchment Area Hospitals



10 Hospitals operating at **Conventional** clinical status

1 Hospitals are operating at **Contingency** clinical status

0 Hospitals are operating at a **Crisis** clinical status.

- **Conventional** indicates that the spaces, staff, and supplies used are consistent with daily practices within the hospital.
- **Contingency** indicates that the spaces, staff, and supplies used are not consistent with daily care but provide care that is functionally equivalent to usual patient care. Healthcare practices utilize limited resources differently than usual with the expectation that such altered practices are developed and performed in accordance with normal standards of care. In contingency conditions, this standard of care is maintained by providing care within the range of functionally equivalent options to care in conventional conditions.
- **Crisis** indicates that Crisis Standards of Care apply. Care is no longer functionally equivalent to usual standards of care. Risk to the patient or provider may exist.

## 2.0 COVID-19 CASES

### 2.1 Summary of Cases

**Cases appear to have declined slightly in Richmond and Henrico.** According to the CDC Covid Data Tracker, In Richmond, on September 22, the **7-day total case rate** was **133.2** new cases per 100,000 population, while in Henrico the **7-day total case rate** was **105.5** new cases per 100,000 population. Additionally, in Richmond and Henrico, the [CDC COVID-19 Community Level](#) has remained **medium**.

In Richmond over the past four weeks there has not been a pronounced difference in rates amongst different age groups, with the exception of the dearth of cases amongst those under 20. In Henrico case rates have been highest amongst those over 70 in the past 4 weeks. 20-29 year olds have the highest rates cumulatively in both districts.

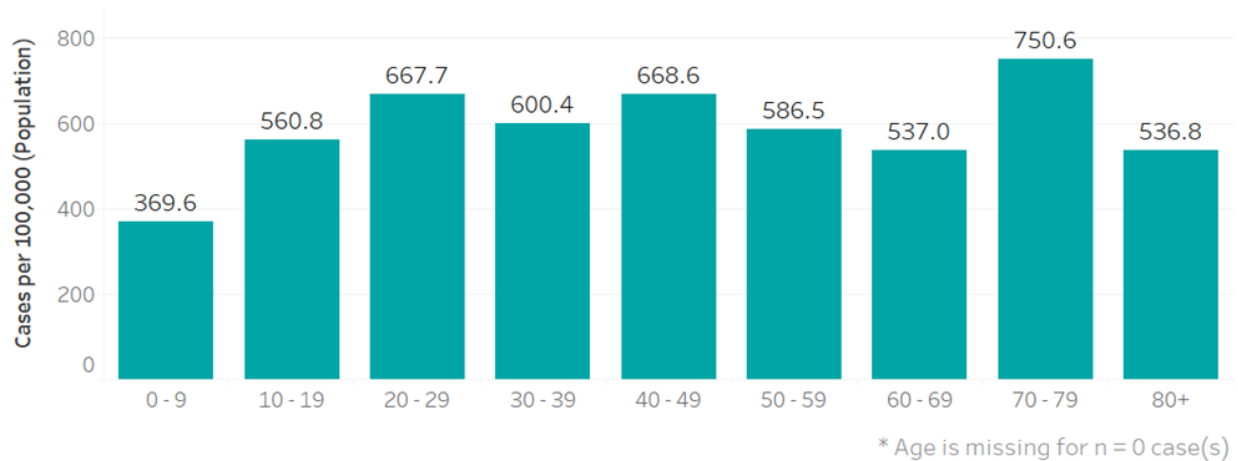
In Richmond and Henrico it appears the Black population has experienced an excess disease burden in the past four weeks, relative to other groups.

### 2.2 Case Rates by Age Group by County

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

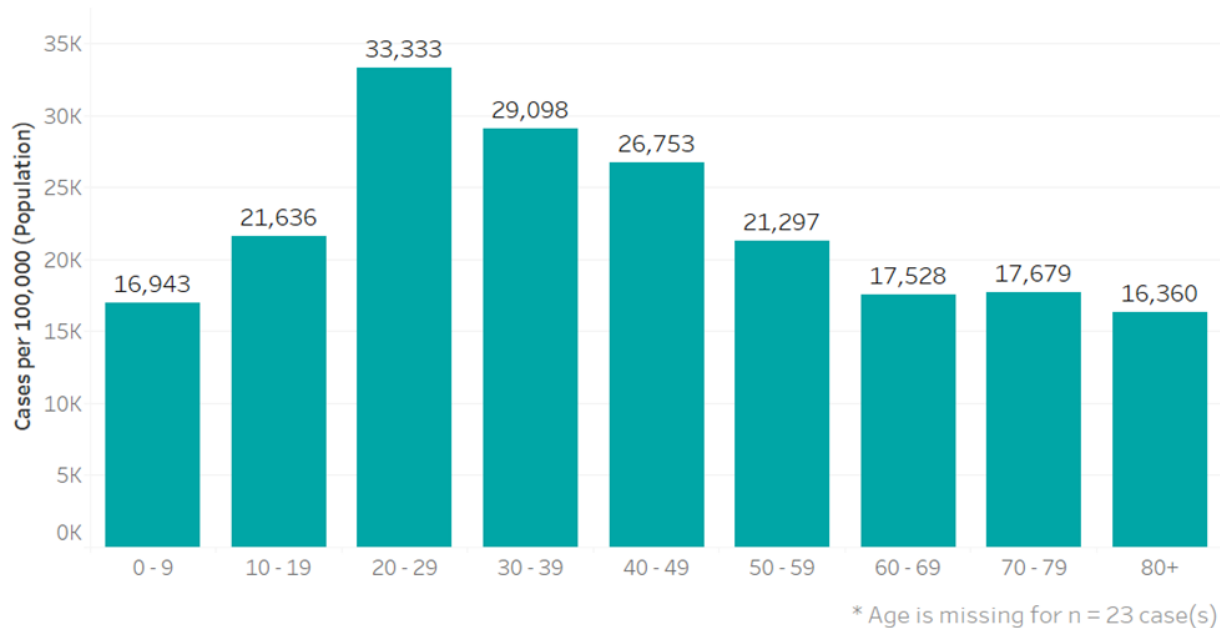
## COVID-19 Case Distribution by Age in the Last 4 Weeks

Richmond City, VA (n = 1,360); August 18, 2022 - September 14, 2022



## Cumulative COVID-19 Case Distribution by Age

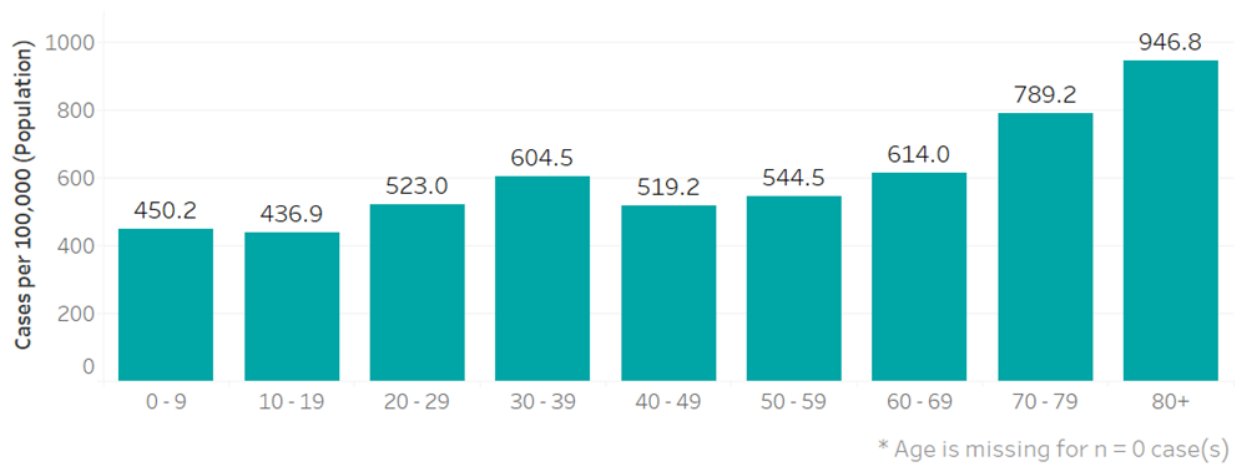
Richmond City, VA (N = 56,322); February 18, 2020 - September 14, 2022



- In Richmond City, individuals aged 70+ have the highest case rates in the last four weeks, a shift from previous weeks. Individuals aged 20-29 have the highest case rate cumulatively.

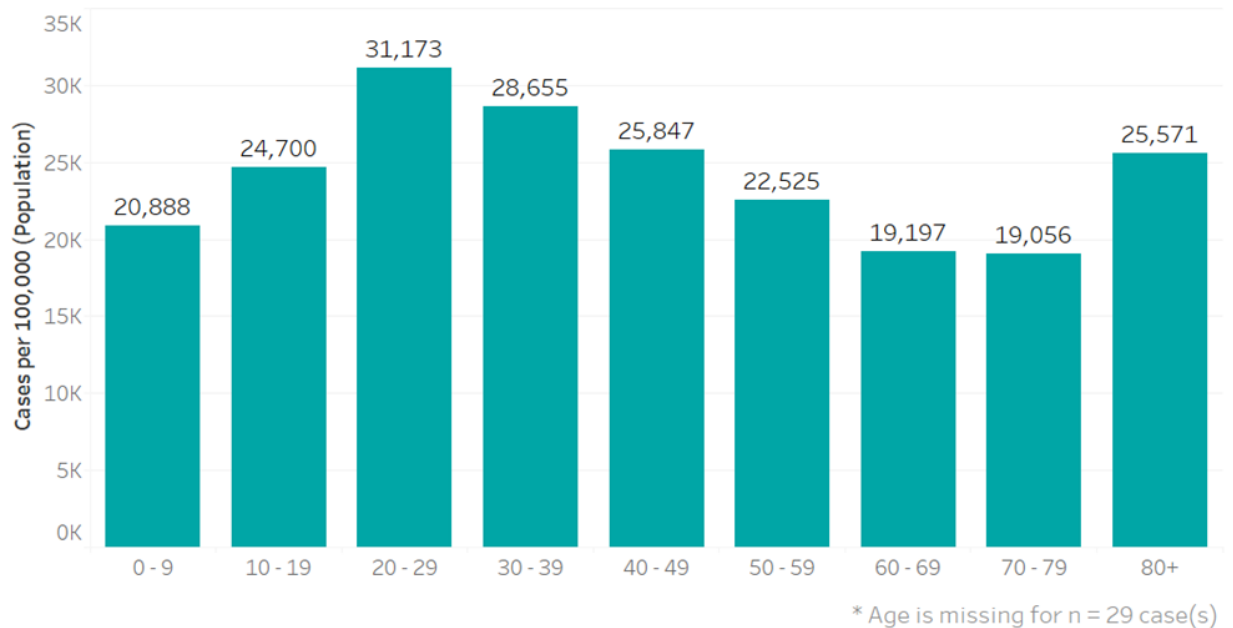
## COVID-19 Case Distribution by Age in the Last 4 Weeks

Henrico County, VA (n = 1,861); August 18, 2022 - September 14, 2022



## Cumulative COVID-19 Case Distribution by Age

Henrico County, VA (N = 81,092); January 4, 2020 - September 14, 2022



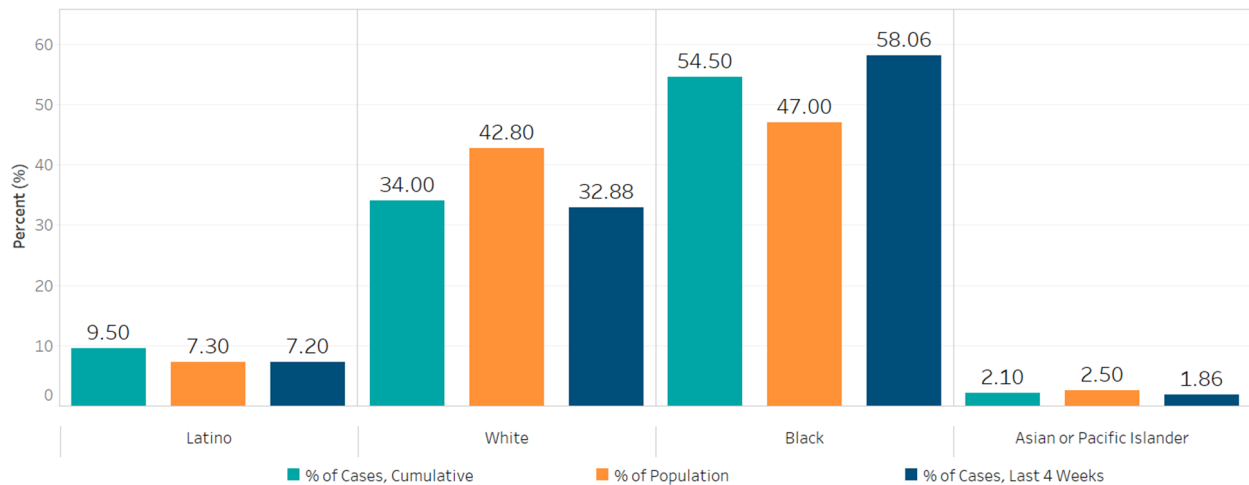
- In Henrico, individuals aged 80+ have the highest case rates in the last four weeks. Individuals aged 20-29 have the highest case rate cumulatively.



## 2.3 Cases by Race/Ethnicity by County

### COVID-19 Case Distribution by Race/Ethnicity

Richmond City, VA; Cumulatively as of September 22, 2022 and in the Last 4 weeks (August 26, 2022 - September 22, 2022)



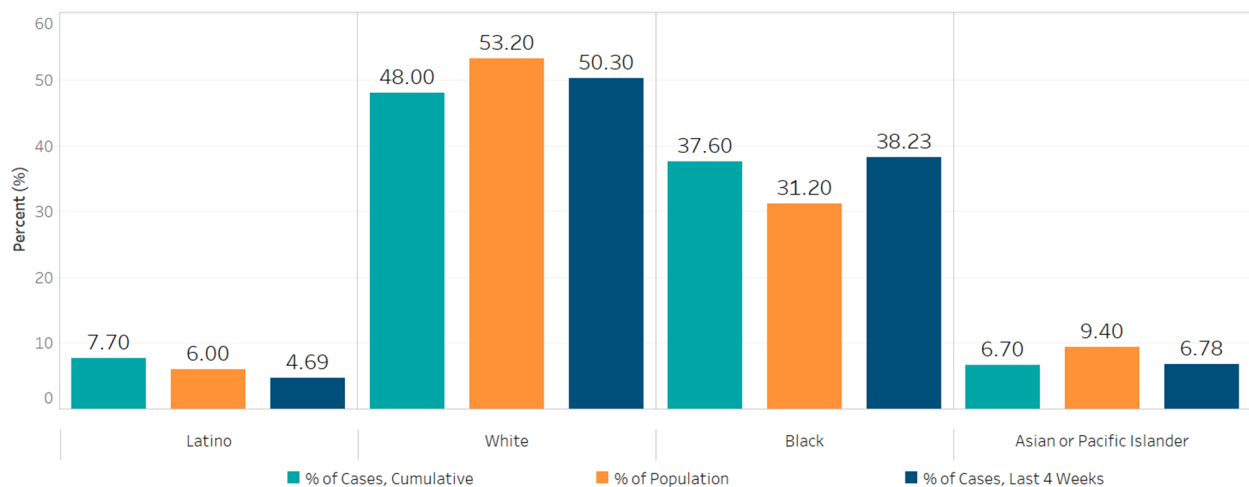
\* NCHS population estimates are not available for Two or More Races or for Other Race (2,001 total cases)

\* Missing or unknown ethnicities were assumed to be non-Hispanic.

- In the last 4 weeks in Richmond, the proportions of cases for Black individuals (58%) is high relative to their population (47%). The proportions of recent cases among Latino individuals (7.2%) is lower than the respective population percentage (7.3%). Case proportions among Asian or Pacific Islanders (1.9%) and White individuals (32.9%) are lower than their population percentages (2.5% and 42.8% respectively).

### COVID-19 Case Distribution by Race/Ethnicity

Henrico County, VA; Cumulatively as of September 22, 2022 and in the Last 4 weeks (August 26, 2022 - September 22, 2022)



\* NCHS population estimates are not available for Two or More Races or for Other Race (4,116 total cases)

\* Missing or unknown ethnicities were assumed to be non-Hispanic.

- In Henrico in the last four weeks, the proportions of cases for White and Asian or Pacific Islander individuals (50.3% and 6.8%, respectively) are lower than their respective proportions of the population (53.2% and 9.4%). The proportion of cases for Black

individuals (38.2%) has been higher than the population percentage (31.2%) over the past four weeks. While the cumulative proportion of cases for Latino individuals (7.7%) is higher than their population (6%), the proportion of cases in the last four weeks (4.7%) is lower than their population proportion

### 3.0 Hospitalizations & Fatalities

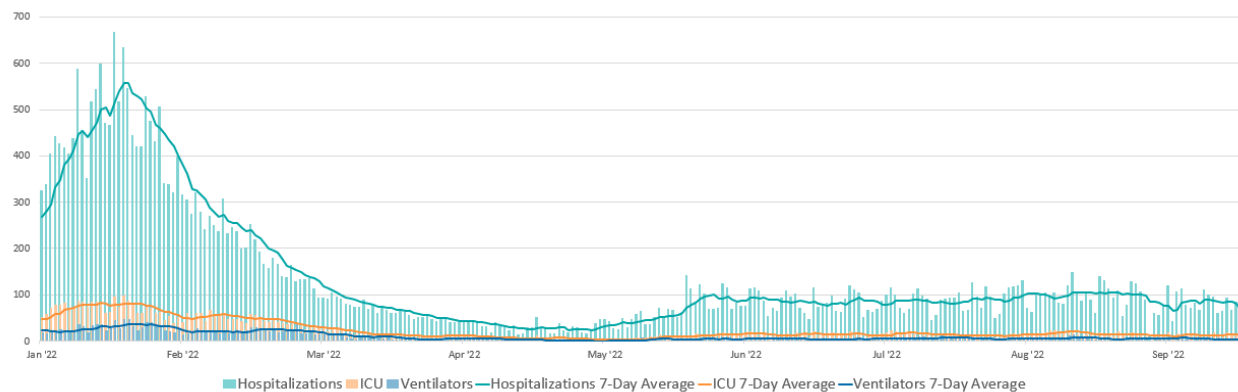
#### 3.1 Summary of Hospitalizations & Fatalities

Among hospitals in the Richmond Catchment Area, **Hospitalizations** appear to have **plateaued** during the months of June, July and August. A small decrease has been observed in September. **ICU hospitalizations** and **ventilator utilizations** appear to be **following the same trend**. It is now clear that **Fatalities** peaked in January with totals not seen since January 2021 in both Richmond and Henrico, although they appear to have decreased since then. No fatalities were reported during the month of May in Richmond. In both districts, several fatalities were reported during the months of June, July, and August and now September. **Data related to deaths can be 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**

Richmond Catchment Area, January 1st, 2021 - September 22nd, 2022



\*Sum of Daily Counts displayed above- Hospitalizations: 35516 of 137780 (All Time), ICU Hospitalizations: 6167 of 31328, Ventilator Utilizations: 2617 of 16350

- From February through early April Hospitalizations decreased to levels last seen in summer 2021, while ICU Hospitalizations and Ventilator Utilizations dropped to fairly minimal levels.
- Hospitalizations, ICU Hospitalizations and Ventilator Utilizations **increased** in May, 2022
- Hospitalizations, ICU Hospitalizations and Ventilator Utilizations **plateaued** since June, 2022. This plateau has continued through July and August. Hospitalizations show some signs of **decreasing** in September

## 4.0 VACCINATION

### 4.1 Vaccine Summary

As of Sep 22, 72.0% of the **region's population** has received at least one dose of the vaccine, 67.8% of the region's population has been fully vaccinated and 34.9% of the region's population have received a booster dose.

Approximately 71.2% of the **combined Richmond City and Henrico County population** has received at least one dose, 66.9% of the two districts' combined population has been fully vaccinated and 34.9% have received a booster dose.

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 has been met by all age groups over 12 years old.

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

### 4.2 Percentage of Population Vaccinated by Age Group as of Sep 22, 2022

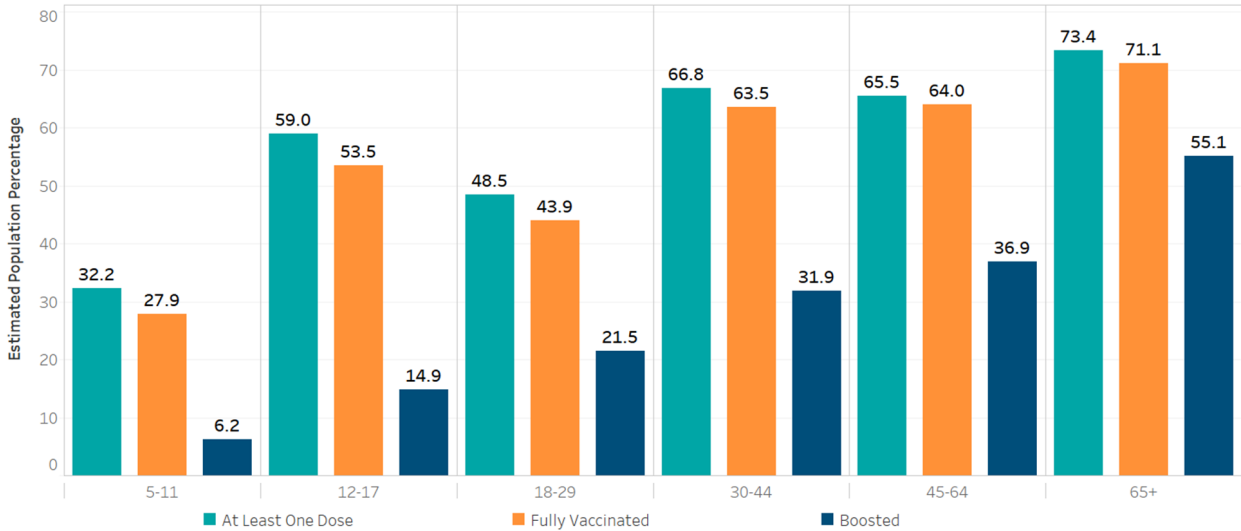
| County   | Age Group | POPULATION | PEOPLE WITH AT LEAST ONE DOSE | PEOPLE FULLY VACCINATED | PEOPLE WITH BOOSTER |
|----------|-----------|------------|-------------------------------|-------------------------|---------------------|
| Richmond | 5-11      | 15,198     | 5,637 (37.1%)                 | 4,671 (30.7%)           | 995 (6.5%)          |
|          | 12-17     | 11,150     | 7,426 (66.6%)                 | 6,535 (58.6%)           | 1,714 (15.4%)       |
|          | 18+       | 190,750    | 133,581 (70%)                 | 124,669 (65.4%)         | 68,613 (36%)        |
|          | 65+       | 31,809     | 26,090 (82%)                  | 24,939 (78.4%)          | 18,581 (58.4%)      |
| Henrico  | 5-11      | 28,406     | 14,661 (51.6%)                | 12,785 (45%)            | 2,389 (8.4%)        |
|          | 12-17     | 25,954     | 20,749 (79.9%)                | 19,097 (73.6%)          | 5,833 (22.5%)       |
|          | 18+       | 256,660    | 217,499 (84.7%)               | 207,466 (80.8%)         | 116,056 (45.2%)     |
|          | 65+       | 52,720     | 50,110 (95%)                  | 48,592 (92.2%)          | 36,556 (69.3%)      |

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 Vaccine by County & Age

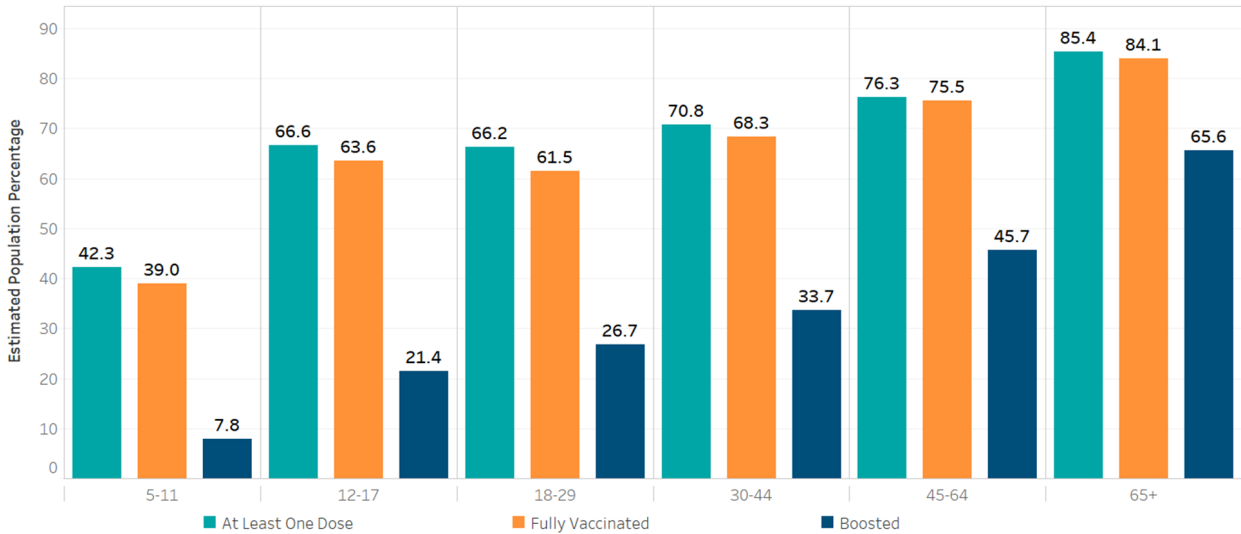
### Vaccination Uptake Estimations by Vaccination Status & Age Group

Richmond City, VA; September 21, 2022



### Vaccination Uptake Estimations by Vaccination Status & Age Group

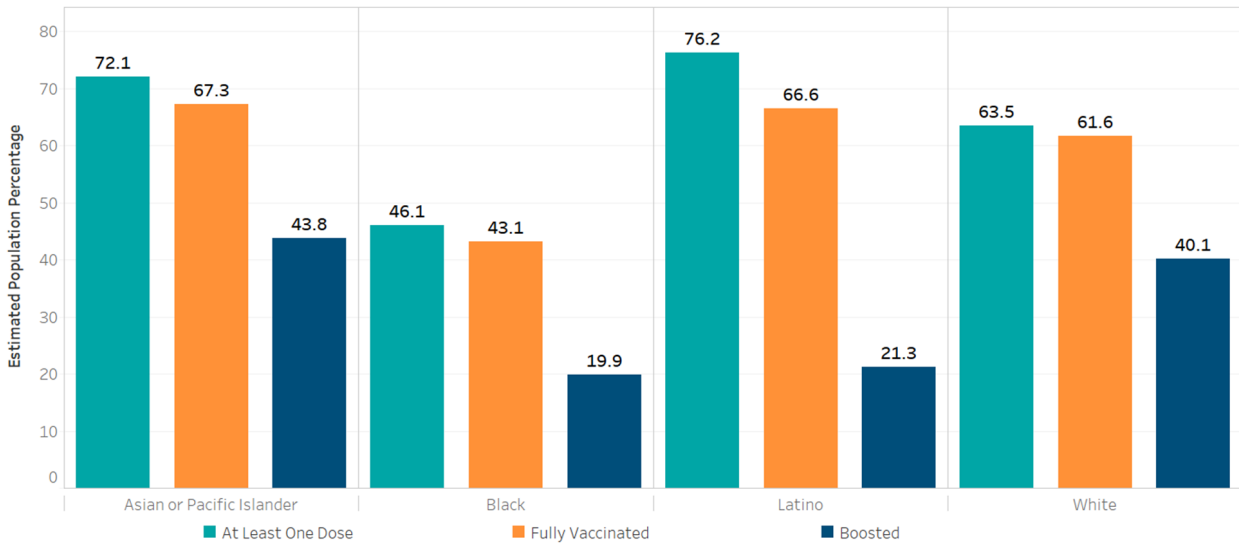
Henrico County, VA; September 21, 2022



## 4.5 Vaccine by County & Race

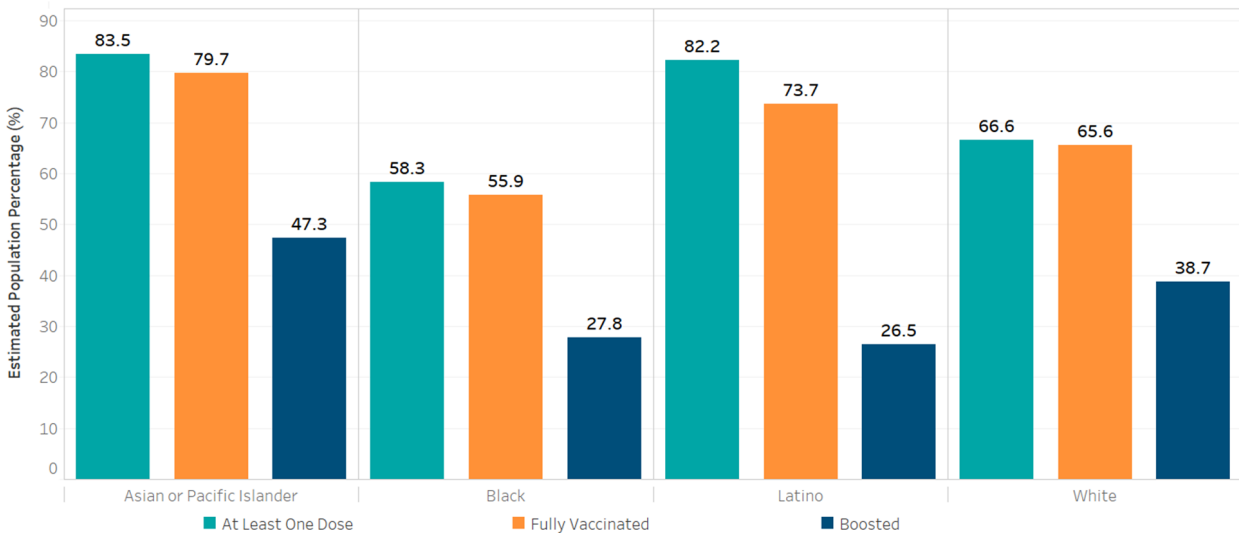
### Vaccination Uptake Estimations by Vaccination Status & Racial/Ethnic Group

Richmond City, VA; September 21, 2022



### Vaccination Uptake Estimations by Vaccination Status & Racial/Ethnic Group

Henrico County, VA; September 21, 2022

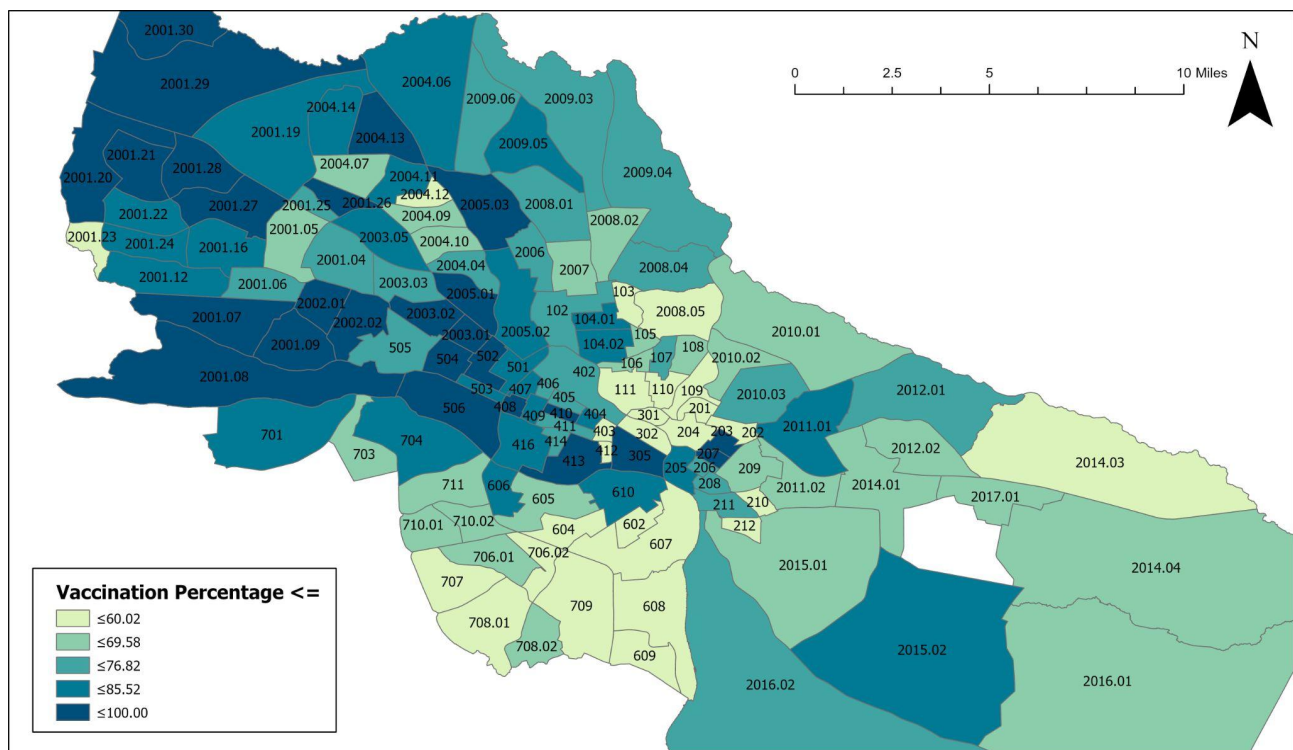


## 4.5 Vaccine Distribution Maps

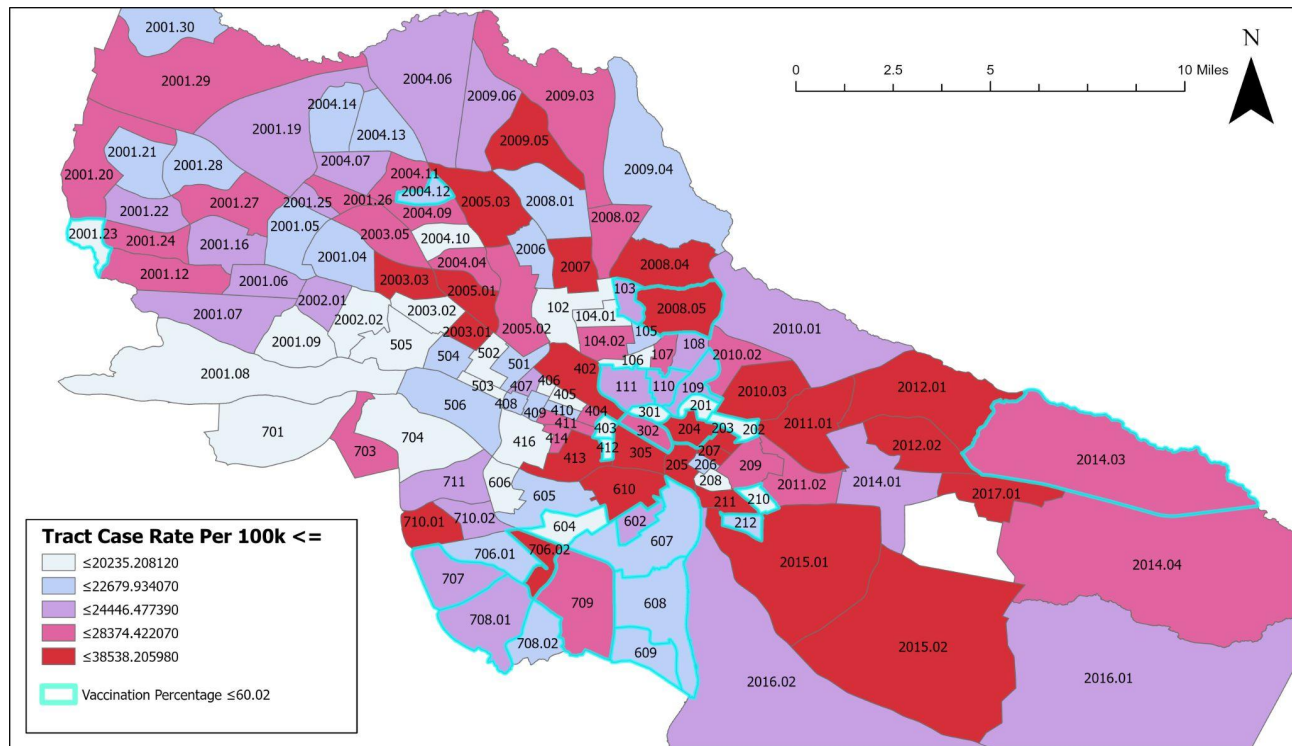
Below are maps that compare vaccination uptake percentage and COVID-19 burden by census tract. The data collected is consistent with statewide and national data trends; lower income communities of color tend to experience more severe outcomes of COVID-19, yet are disproportionately undervaccinated. RHHD 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.

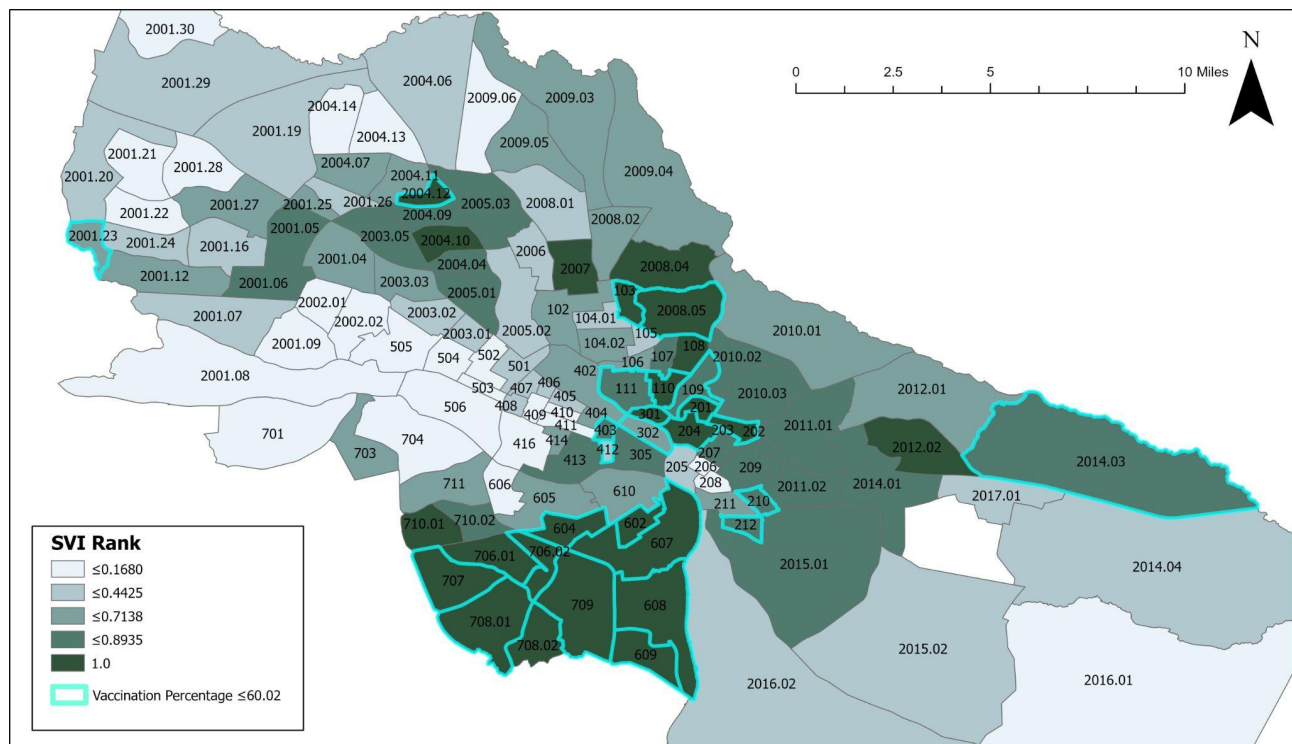
Vaccination Percentage by Census Tract  
Richmond City, VA & Henrico County, VA (Sep 22nd, 2022)



## COVID-19 Case Rate per 100k & Low Vaccination Percentage Tracts Richmond City, VA & Henrico County, VA (Sep 22nd, 2022)



## Social Vulnerability & Low Vaccination by Census Tract Richmond City, VA & Henrico County, VA (Sep 22nd, 2022)





- **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 Level - Added 3/21/2022**

A measure of the impact of COVID-19 illness on health and healthcare systems, created by the CDC. The CDC looks at the combination of three metrics — new COVID-19 admissions per 100,000 population in the past 7 days, the percent of staffed inpatient beds occupied by COVID-19 patients, and total new COVID-19 cases per 100,000 population in the past 7 days — to determine the COVID-19 community level. New COVID-19 admissions and the percent of staffed inpatient beds occupied represent the current potential for strain on the health system. Data on new cases acts as an early warning indicator of potential increases in health system strain in the event of a COVID-19 surge.

Using these data, the COVID-19 community level is classified as low, medium, or high.

**Community Transmission**

Refers to when an individual is infected with the COVID-19 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-19 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](mailto: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.