# WEEKLY CASE REPORT FOR EXTERNAL USE

Mon Feb 8 - Sun Feb 14, 2021

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## KEY TAKEAWAYS

- According to the VDH **Pandemic Metrics** Dashboard, the Central Region is experiencing a high burden of cases and a substantial activity level, but with a decreasing. As of February 15, the daily case incidence rate in Richmond was 36.2 cases per 100,000, a decrease from last week's rate of 38.5. Percent **positivity** for the locality is 6.7% and decreasing. In Henrico, the daily case incidence rate is 33.2 cases per 100,000, a decrease from last week's rate of 43.5. Percent **positivity** for the locality is 8.7% and decreasing.
- **Cases** in both districts continue to decrease. Compared to last week, based on VEDSS data by date, cases in Richmond dropped from a 7 day average of 39 to 334 daily new cases per 100,000 population. In Henrico, cases dropped from 81 to 30.9 new cases per day, per 100,000, compared to 81 per 100,000.
    - **Regarding subgroups**, females still bear a higher proportion of cases in both districts, both cumulatively and in the last 4 weeks. Regarding the proportion of cases by age group 20-29 year olds continue to be in the lead in Richmond, both cumulatively and in the last 4 weeks. In Henrico, 20-29 year olds continue to lead, though closely followed by 30-39 year olds. Regarding race and ethnicity, in Richmond, the highest proportion of cases is still among Black individuals, again both cumulatively and in the last 4 weeks. In Henrico in the last 4 weeks the proportion of cases for which race/ethnicity is unreported surpases any other group, followed by cases among White individuals. Cumulatively, the proportion of cases is also highest among White individuals. The proportion of cases for which race/ethnicity is unreported has decreased, though remains notably high in both districts with 29.4% unreported in Richmond and 33.2% in Henrico based on data from the past month.
- VEDSS data suggest that **hospitalizations** among Richmond patients are declining overall, though hospitalizations have fluctuated since November and the data may be impacted by reporting lags. Hospitalizations among residents of Henrico also appear to be declining overall. Looking more broadly at the 11 hospitals that comprise the Richmond catchment area, data suggest declines in total hospitalizations, ICU hospitalizations and ventilator use. 10 out of 11 hospitals are operating at a normal clinical status. *Please note: hospitalizations by subgroup (sex, age, and race) will be reported on a monthly basis moving forward.*
- **Deaths** continue to fluctuate but remain low in Richmond and Henrico. Note that trends in the data are typically impacted by reporting lags. Additional death data is available on the VHD Dashboard. *Please note: deaths by subgroup (sex, age, and race) will be reported on a monthly basis moving forward.*
- Richmond and Henrico Health Districts are currently in Phase 1B of **vaccination**. Eligible people include healthcare workers, people living and working in long-term care facilities, police, school staff (K-12), childcare workers, and people over the age of 65. As of February 16, 2021, **154,132 doses have been administered in the Richmond region. 34,257 people have been fully vaccinated.** The majority of vaccine recipients in Richmond and Henrico have been female. In Richmond the majority of vaccines have been given to people 30-39 years old. In Henrico the majority of vaccines have been given to people 50-59, closely followed by 30-39, and 60-69 years olds, though these numbers represent counts, rather than rates. Available data indicate that eligible White individuals have received the majority of the vaccine, but a large percentage of recipients' race/ethnicity is unreported.

## 1.0 COVID-19 SNAP SHOT

### 1.1 Confirmed cases, hospitalizations, fatalities, and probable cases by county

| CASE STATUS | RICHMOND CITY | HENRICO COUNTY | VIRGINIA |
|---|---|---|---|
| New cases this week (Feb 15) | 633 | 848 | 22483 |
| All cases | 14098 | 20471 | 553308 |
| Confirmed cases | 11722 | 15430 | 438276 |
| Hospitalizations | 641 | 792 | 21905 |
| Deaths | 127 | 329 | 6047 |
| Probable cases | 2376 | 5041 | 115032 |
| Hospitalizations | 19 | 25 | 1137 |
| Deaths | 21 | 29 | 990 |
| Case rate per 100,000 | 6118.0 | 6188.0 | 6482.4 |

*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 the most recent as of July 1, 2019 from the U.S Census Bureau QuickFacts*

### 1.2 Current COVID-19 hospitalizations in the Richmond catchment area on Feb 16, 2021

*The data included in this section comes from VHASS and it includes data from the following hospitals: 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 | 315 | 101 |
| Pending Hospitalizations | 30 | |
| Confirmed - ICU | 73 | 17 |
| Pending - ICU | * | |
| Confirmed - Ventilators | 42 | 460 |
| Pending - Ventilators | * | |

*Counts <5 have been suppressed

Within these 11 hospitals that comprise the Richmond catchment area, there are currently 17 available adult ICU beds, and 460 available ventilators. Based on the VHASS hospital dashboard on February 16th, 2021, 10 out of the 11 hospitals are operating at normal clinical status. CJW Jonston Willis is operating at a full clinical status.**

**A clinical status of "normal" indicates that hospital clinical resources are operating within normal conditions. 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 TESTING ENCOUNTERS AND POSITIVITY

### 2.1 Testing summary

Total tests by testing modality and the associated 7-day average in percent positivity are summarized in the table below. Data are from from the VDH public dashboard on February 15, 2021.

| | RICHMOND CITY | | HENRICO COUNTY | |
|---|---|---|---|---|
| | Tests | Positivity | Tests | Positivity |
| PCR* | 196,635 | 6.7% | 282,854 | 8.7% |
| Antigen | 28,558 | 10.0% | 62,501 | 7.3% |
| Total (PCR, antigen, and antibody) | 229,187 | 7.3% | 353,544 | 8.5% |

*All testing metrics included in previous reports have been based on PCR tests

## 3.0 COVID-19 CASES

### 3.1 SUMMARY OF CASES

**Cases**

Cases in both districts continue to decrease. Compared to last week, based on VEDSS data by date, cases in Richmond dropped from a 7 day average of 39 to 334 daily new cases per 100,000 population. In Henrico, cases dropped from 81 to 30.9 new cases per day, per 100,000, compared to 81 per 100,000.

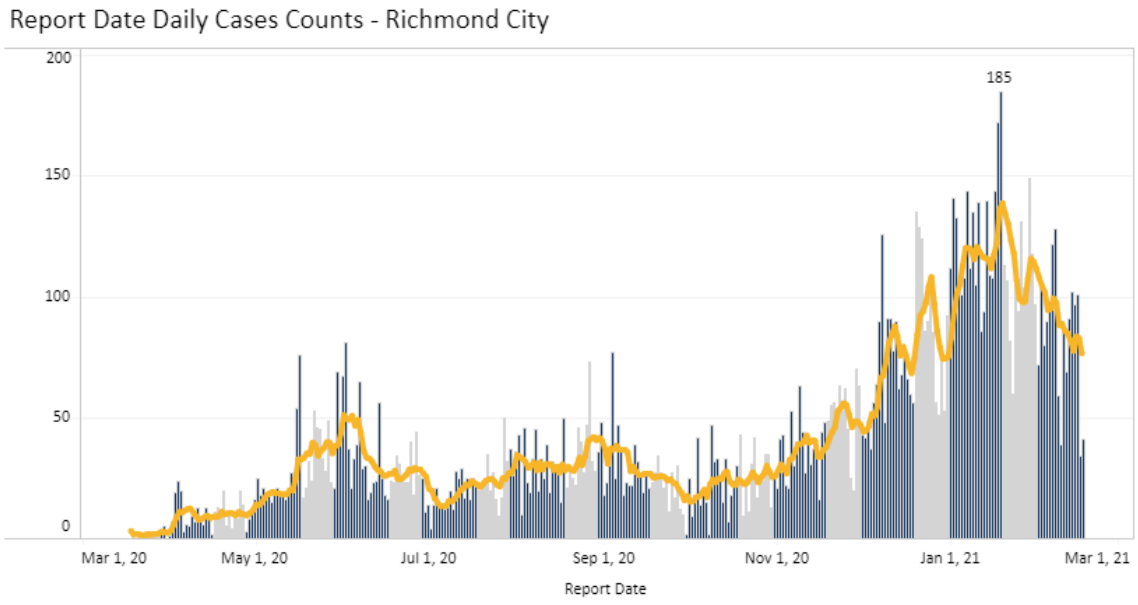
**Case Demographics**

Females still bear a higher proportion of cases in both districts, both cumulatively and in the last 4 weeks. Regarding the proportion of cases by age group 20-29 year olds continue to be in the lead in Richmond, both cumulatively and in the last 4 weeks. In Henrico, 20-29 year olds continue to lead, though closely followed by 30-39 year olds. Regarding race and ethnicity, in Richmond, the highest proportion of cases is still among Black individuals, again both cumulatively and in the last 4 weeks. In Henrico in the last 4 weeks the proportion of cases for which race/ethnicity is unreported surpases any other group, followed by cases among White individuals. Cumulatively, the proportion of cases is also highest among White individuals. The proportion of cases for which race/ethnicity is unreported has decreased, though remains notably high in both districts with 29.4% unreported in Richmond and 33.2% in Henrico based on data from the past month.

### 3.2 CASE REPORTS TRENDS BY DATE (SOURCE-VDH WEBSITE)

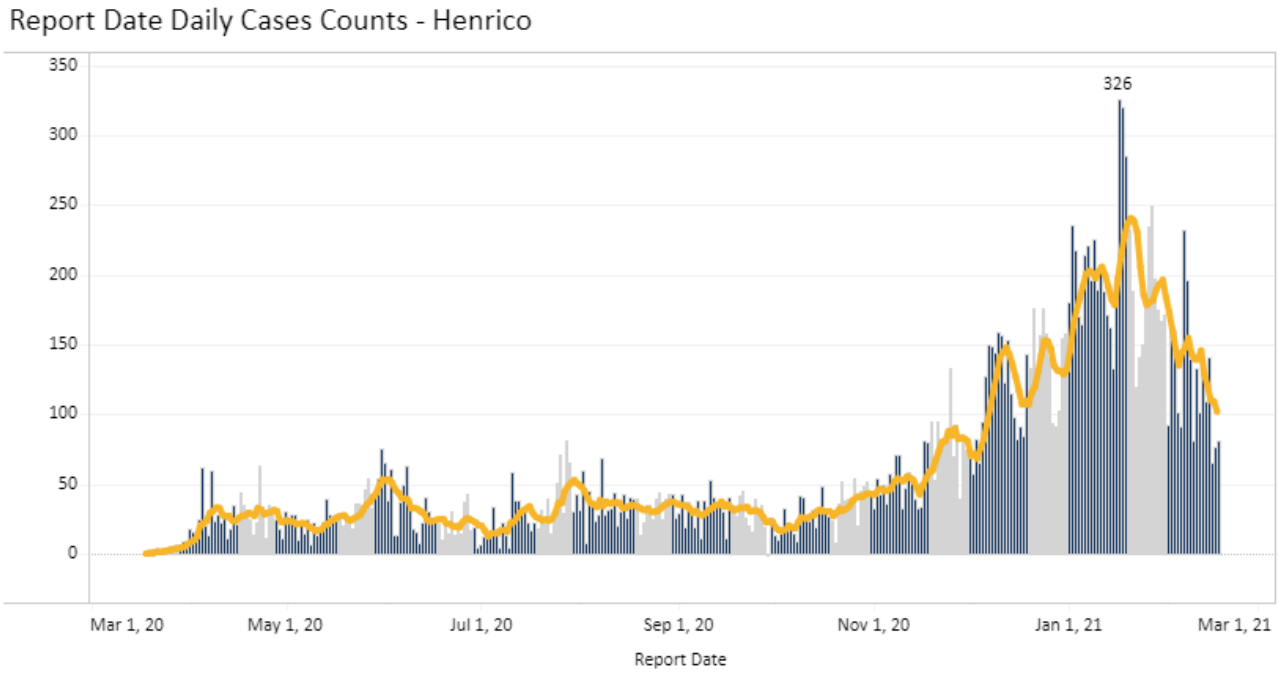
*The report date corresponds to the date the case count was reported publicly. The report date does not have any equivalent variable in VEDSS, and cannot be directly linked to case-specific dates (e.g., event dates or lab report dates). Case counts by report date are estimated by subtracting the cumulative cases on the previous day from that of the current day. The 7-day moving average is a recurrent average of the number of cases for each 7-day data sequence.*

| 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 |
|---|---|---|---|
| 41 | 76 | 33.4 | 505.3 |



- In Richmond, the 7-day average number of daily new cases reported this week appears to be plateauing or slightly decreasing. A total of 41 new cases were reported on February 16, 2021, with a 7-day average of 33.4 new daily cases per 100,000 population, compared to 39 new cases and a 7-day average of 38.5 a week ago.

| 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 |
|---|---|---|---|
| **81** | **102** | **30.9** | **513.0** |

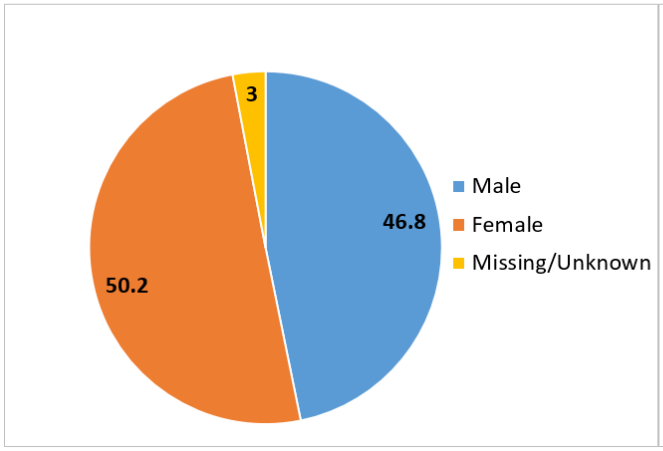



- In Henrico, new cases reported per day also appear to be decreasing. A total of 81 new cases were reported on February 16 with a 7-day average of 30.9 daily cases per 100,000 population, compared to 81 new cases and a 7-day average of 43.5 a week ago.

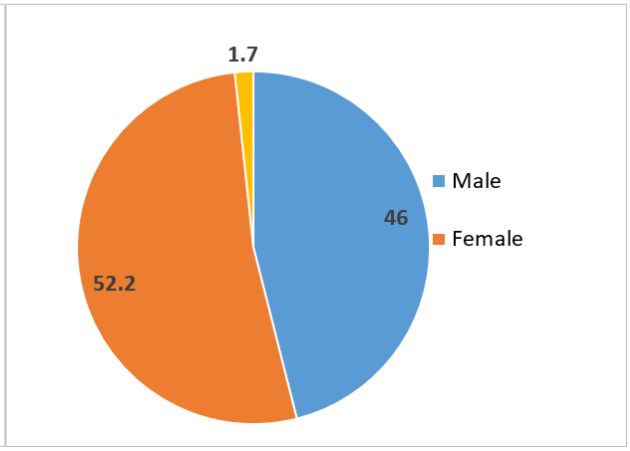
## 3.3 CASES BY SEX BY COUNTY

*All percentages are based on overall case distribution, rather than the proportion of known cases for each measure, and therefore may not correspond directly with VDH percentages.*

**COVID-19 case distribution by Sex in the last 4 weeks (Jan 19 – Feb 16, 2021) – Richmond City, VA (N=2030)**

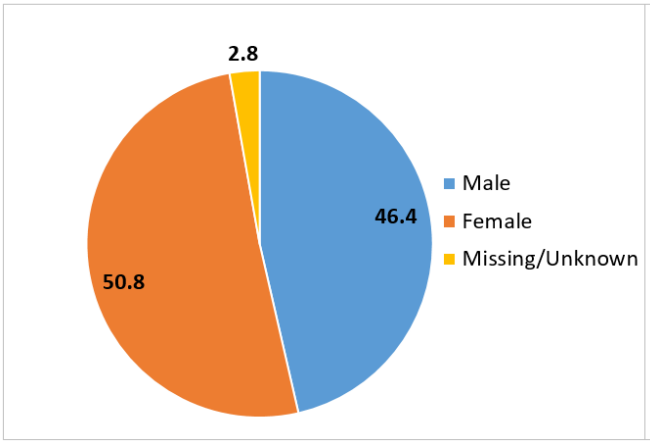



**Cumulative COVID-19 case distribution by Sex as of February 16, 2021 – Richmond City, VA (N=14098)**

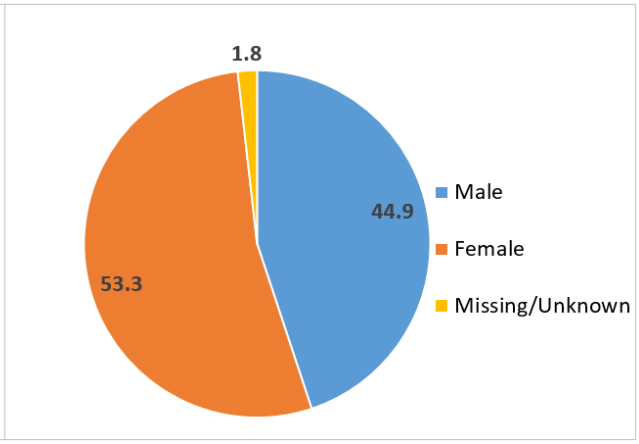



- In Richmond, females comprise a higher proportion of cases relative to males in the last 4 weeks (50.2% vs 46.8%) as well as cumulatively (52.2% vs 46.0%).

**COVID-19 case distribution by Sex in the last 4 weeks (Jan 19 – Feb 16, 2021) – Henrico County, VA (N=3910)**



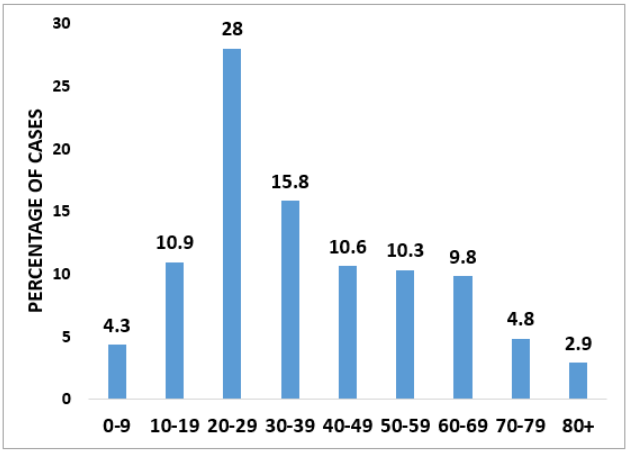

**Cumulative COVID-19 case distribution by Sex as of February 16, 2021 – Henrico County, VA (N=19623)**




- In Henrico, females also comprise a much higher proportion of cases relative to males in the last 4 weeks (50.8% vs 46.4%) and cumulatively (53.3% vs 44.9%).

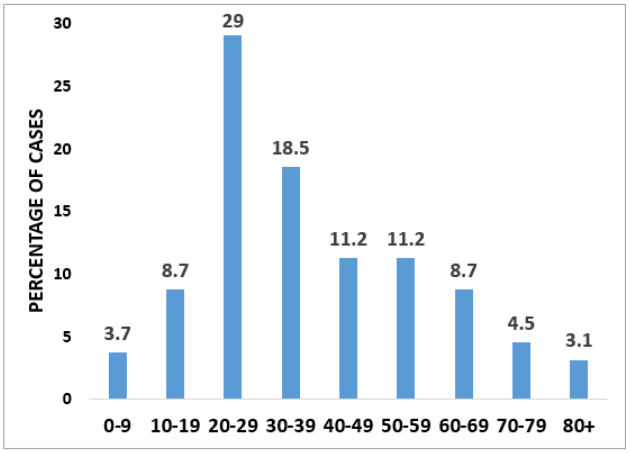
## 3.4 CASES BY AGE GROUP BY COUNTY

**COVID-19 case distribution by Age group in last 4 weeks (Jan 19 – Feb 16, 2021) – Richmond City, VA (N=2030)**




Age is missing for 2.7% (n=260) of cases

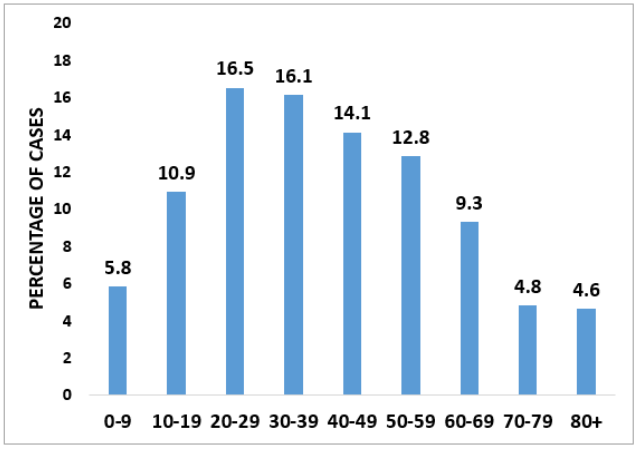
**Cumulative COVID-19 case distribution by Age group as of February 16, 2021 – Richmond City, VA (N=14098)**




Age is missing for 1.9% of cases

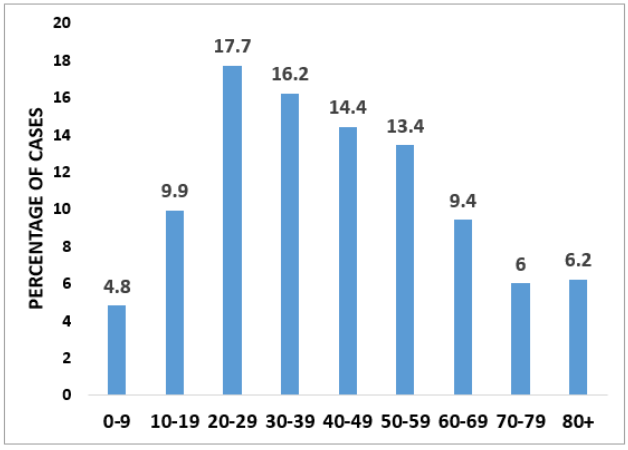
- In Richmond, individuals aged 20-29 (28.0%) still comprise the overwhelmingly highest number of cases in the last four weeks, followed by individuals aged 30-39 years (15.8%).

**COVID-19 case distribution by Age group in the last 4 weeks (Jan 19 – Feb 16, 2021) – Henrico County, VA (N=3910)**




Age is missing for 2.0% (n=404) of cases

**Cumulative COVID-19 case distribution by Age group as of February 16, 2021 – Henrico County, VA (N=19623)**

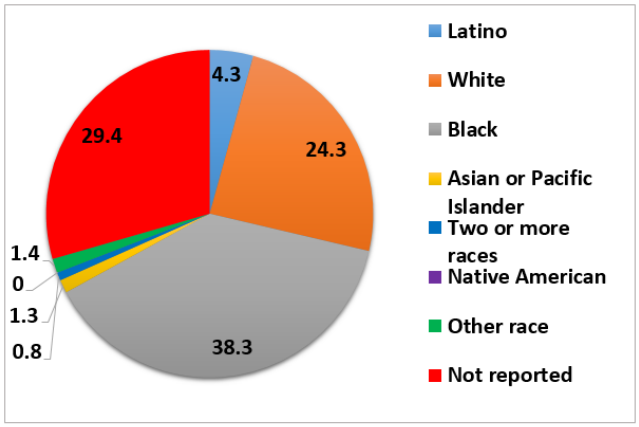



Age is missing for 5.1% (n=161) of cases

- In Henrico, individuals aged 20-29 (16.5%) and 30-39 years (16.1%) comprise the highest number of cases in the last four weeks, followed by 40-49 years (13.1%) and 50-59 years (11.5%), as case burdens are somewhat more evenly distributed across multiple age groups.

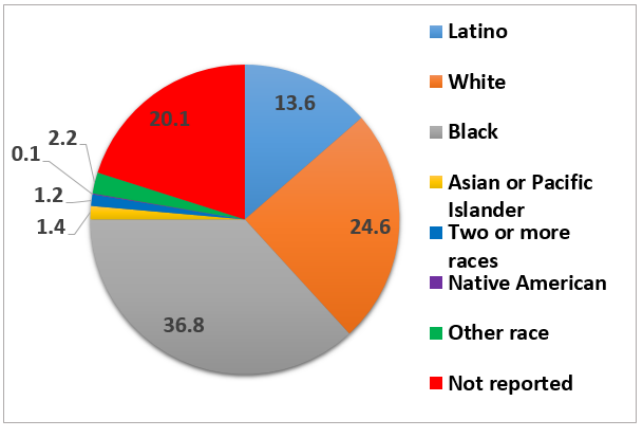
## 3.5 CASES AND POPULATION PROPORTIONS BY RACE AND ETHNICITY BY COUNTY

**COVID-19 case distribution by Race and ethnicity in the last 4 weeks (Jan 19 – Feb 16, 2021) – Richmond City, VA (N=2030)**




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

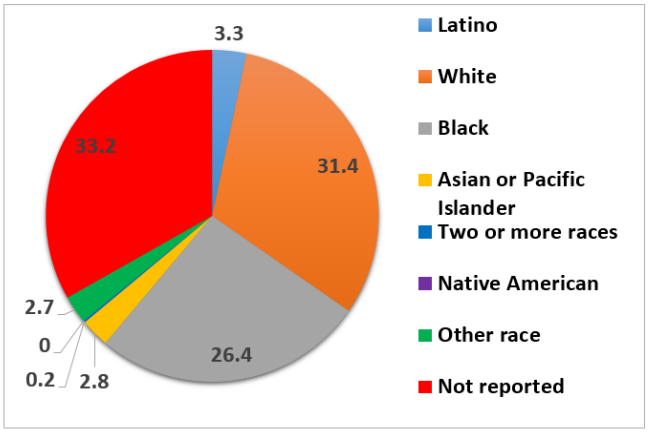
**Cumulative COVID-19 case distribution by Race and ethnicity as of February 16, 2021 – Richmond City, VA (N=14098)**




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

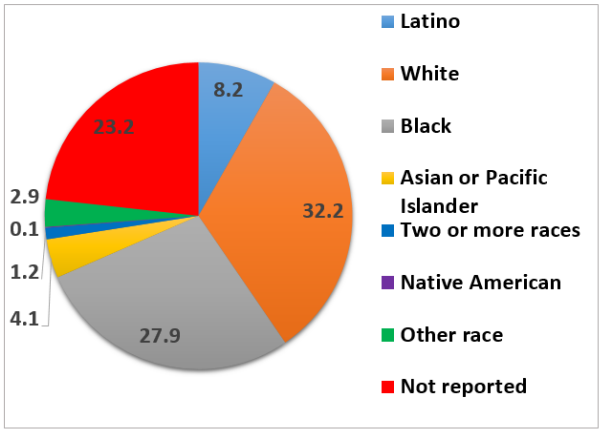
- In Richmond, the proportion of cases among Black individuals (38.3%) over the last 4 weeks constitutes the highest number of cases, followed by White individuals (24.3%). The case burden for Latino individuals is much lower over the last four weeks compared to the cumulative proportion of cases, but they continue to constitute the third largest proportion of cases (4.3%), excluding Not Reported cases.

**COVID-19 case distribution by Race and ethnicity in the last 4 weeks (Jan 19 – Feb 16, 2021) – Henrico County, VA (N=3910)**




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

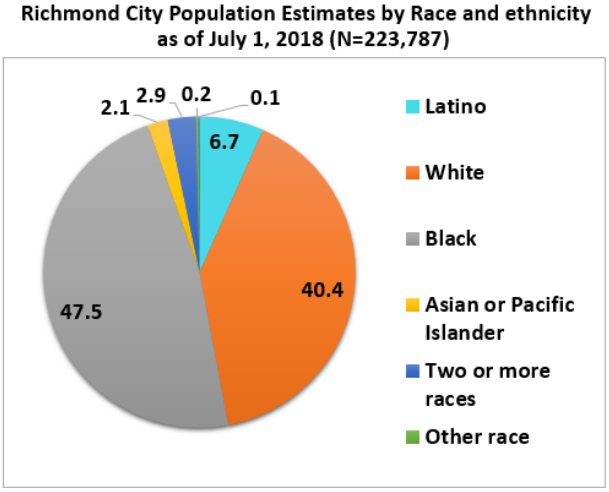
**Cumulative COVID-19 case distribution by Race and ethnicity as of February 16, 2021 – Henrico County, VA (N=19623)**

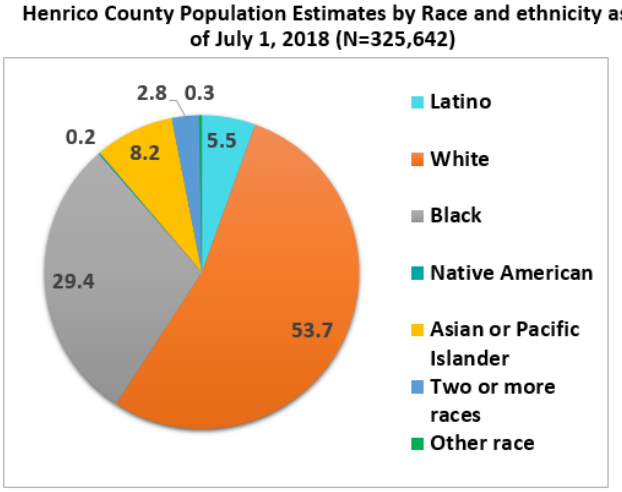



*Missing and Unknown Ethnicities were assumed to be of Non-Hispanic ethnicity

- In Henrico over the last 4 weeks, White individuals comprise the highest proportion of cases (31.4%), followed by Black individuals (26.4%). Latino individuals constitute a relative minority of cases over the same period (3.3%) and their case burden is notably lower compared to the cumulative proportion of cases.

*Population estimates for the Race and Ethnicity subgroup analyses are from the [2018 ACS 5-year estimates]*



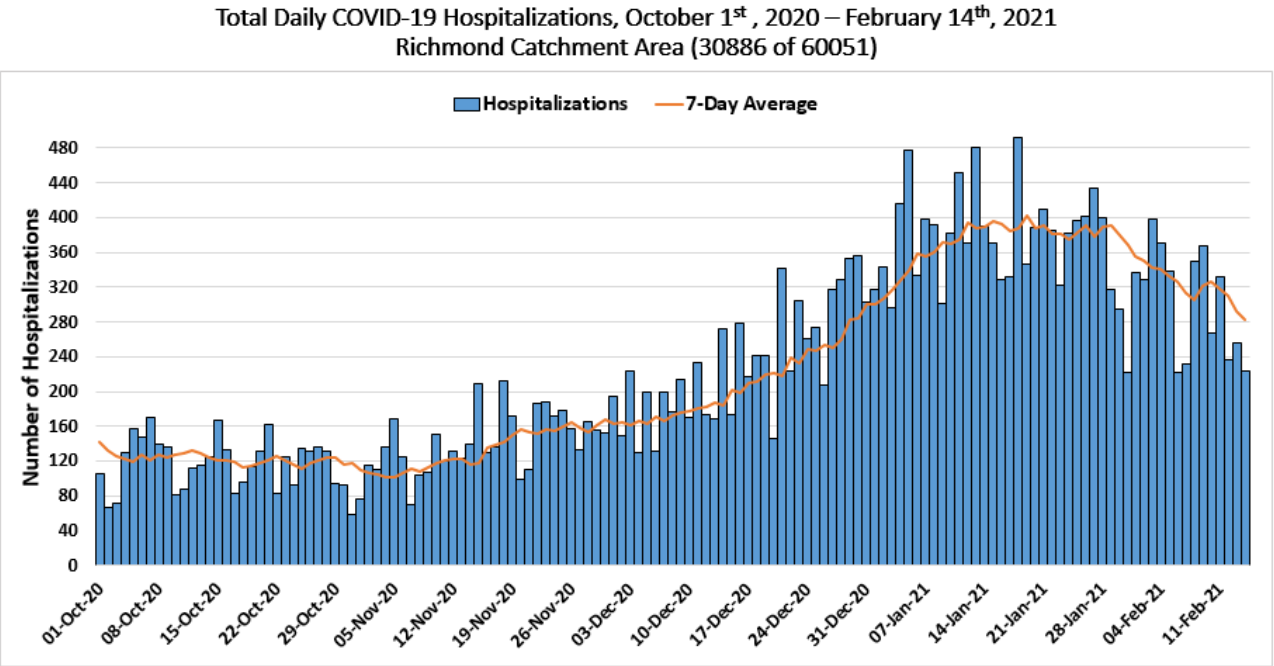

## 4.0 COVID-19 HOSPITALIZATIONS

### 4.1 SUMMARY OF HOSPITALIZATIONS

As with last week, VEDSS data suggest that hospitalizations among Richmond patients are declining overall, though hospitalizations have fluctuated since November and the data may be impacted by reporting lags. Hospitalizations among residents of Henrico also appear to be declining overall (see VDH Dashboard for additional trend data). Looking more broadly at the 11 hospitals that comprise the Richmond catchment area, data show plateaus in total hospitalizations, ICU hospitalizations. Ventilator use has fluctuated throughout the month of January. As summarized at the beginning of this report, 10 out of 11 hospitals are operating at a normal clinical status.

*Please note: hospitalizations by subgroup (sex, age, and race) will be reported on a monthly basis moving forward.*

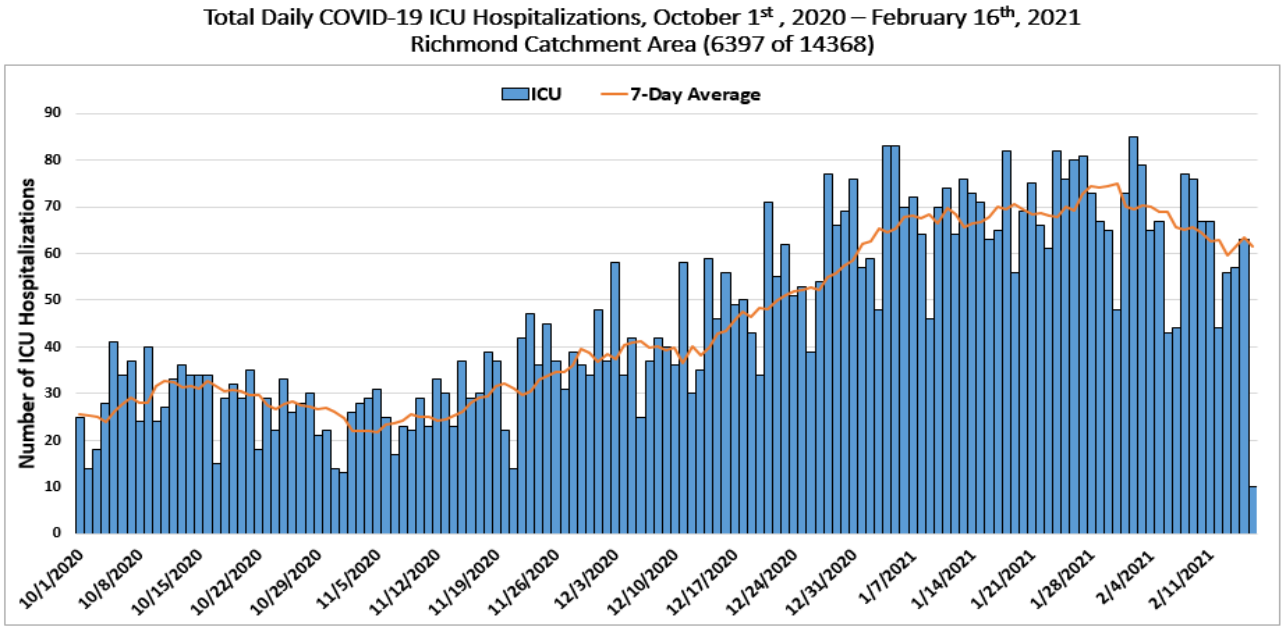
## 4.2 Hospitalizations (confirmed and pending) by day in the Richmond catchment area as of Feb 14, 2021




* Data points from March until September 30th are excluded to allow for clarity in trends/patterns
* Data points from February 15th and February 16th, 2021 were omitted due to issues with data quality

- Data from the 11 hospitals included in this analysis suggests a recent decrease in overall hospitalizations, following a noticeable increase throughout the month of December, and a plateau during the month of January.
-

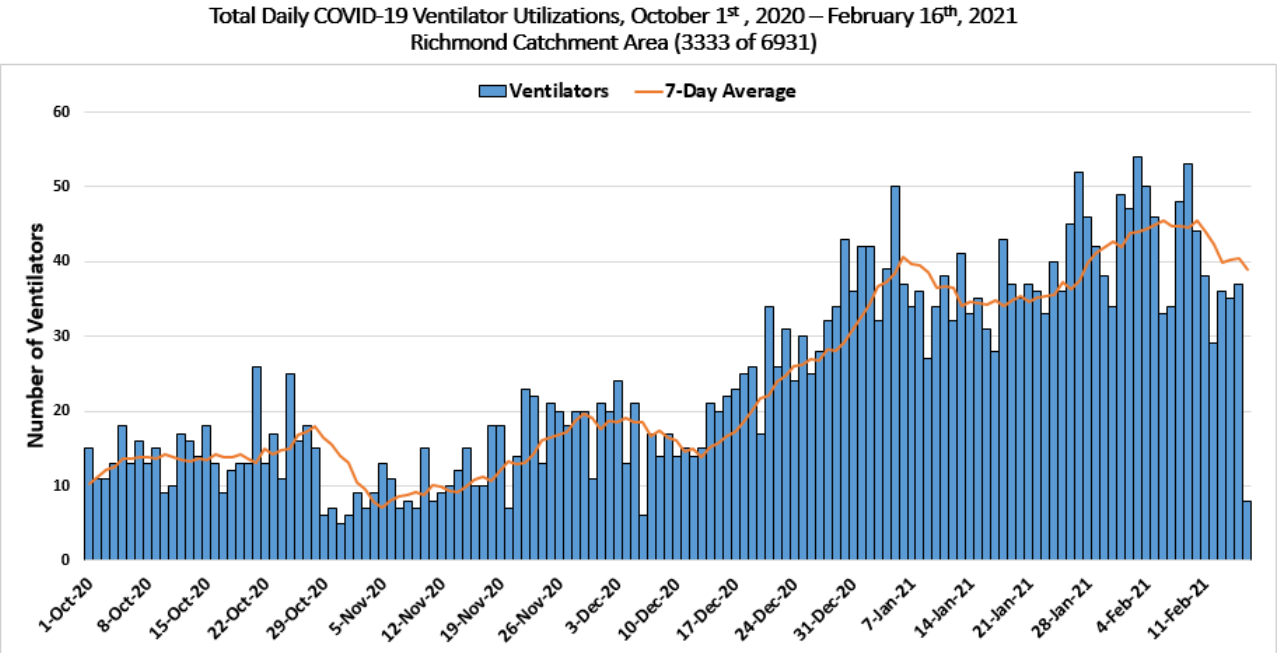
## 4.3 ICU HOSPITALIZATIONS (CONFIRMED AND PENDING) BY DAY IN THE RICHMOND CATCHMENT AREA AS OF FEB 16, 2021




* Data points from March until September 30th are excluded to allow for clarity in trends/patterns

- Following a recent plateau and mild fluctuations throughout January, ICU hospitalizations seem to be decreasing.

## 4.4 Ventilator utilizations (patients on ventilators) by day in the Richmond catchment area as of Feb 16, 2021




* Data points from March until September 30th are excluded to allow for clarity in trends/patterns

- Ventilator utilization fluctuated throughout December, and despite peaks towards the end of January, appears to be decreasing.

## 5.0 COVID-19 FATALITIES

### 5.1 SUMMARY OF FATALITIES

**Deaths** continue to fluctuate but remain low in Richmond and Henrico. Note that trends in the data are typically impacted by reporting lags. Additional death data is available on the VHD Dashboard.

*Please note: deaths by subgroup (sex, age, and race) will be reported on a monthly basis moving forward.*

## 6.0 VACCINATION

### 6.1 VACCINE SUMMARY

Richmond and Henrico Health Districts are currently in Phase 1B of vaccination. Eligible people include healthcare workers, people living and working in long-term care facilities, police, school staff (K-12), childcare workers, and people over the age of 65.

As of February 16, 2021, 154,132 doses have been administered in the Richmond region. 34,257 people have been fully vaccinated. The majority of vaccine recipients in Richmond and Henrico have been female. In Richmond the majority of vaccines have been given to people 30-39 years old. In Henrico the majority of vaccines have been given to people 50-59, closely followed by 30-39, and 60-69 years olds, though these numbers represent counts, rather than rates. Available data indicate that eligible White individuals have received the majority of the vaccine, but a large percentage of recipients' race/ethnicity is unreported.

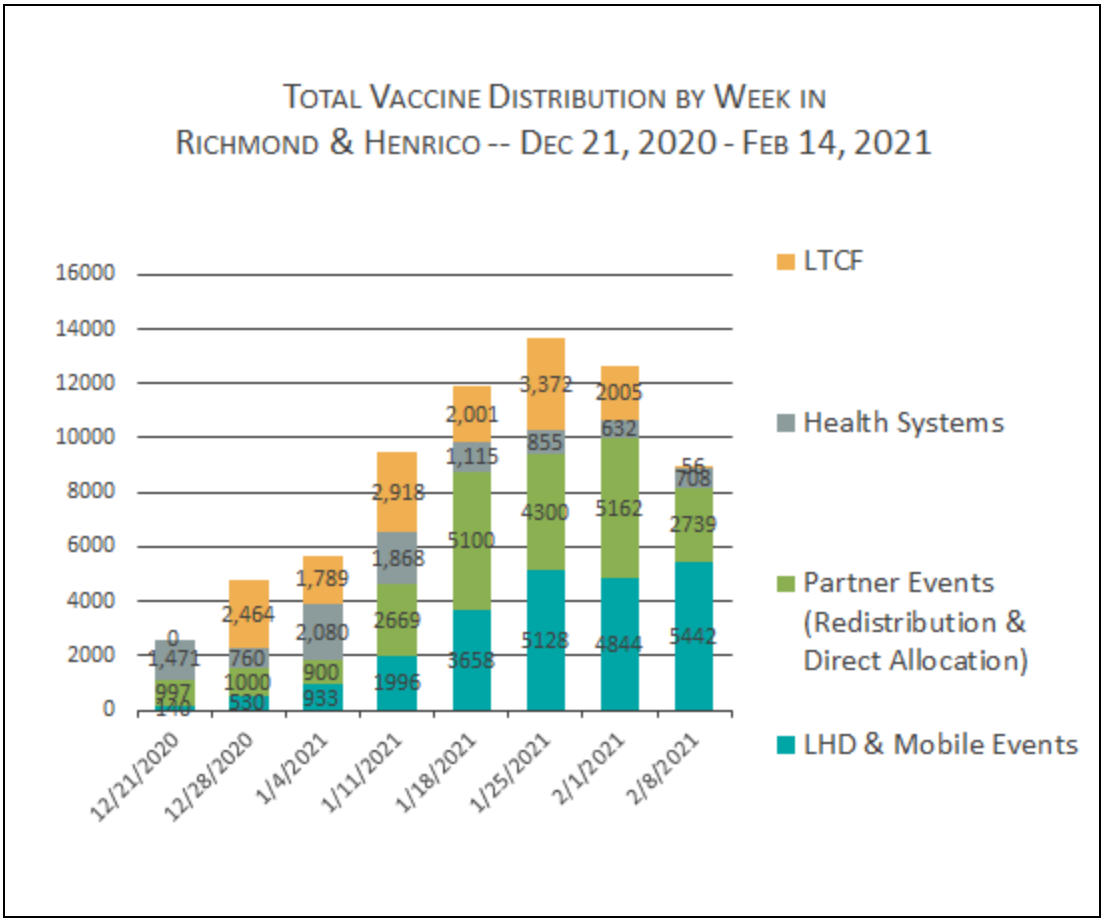
### 6.2 VACCINATIONS BY LOCALITY AS OF FEB 16, 2021 - SOURCE: VDH.VIRGINIA.GOV

| HEALTH DISTRICT | LOCALITY | POPULATION | DOSES ADMINISTERED | PEOPLE FULLY VACCINATED |
|---|---|---|---|---|
| Chesterfield | Chesterfield | 352,802 | 47,163 | 10,335 |
| | Colonial Heights | 17,428 | 2,456 | 494 |
| | Powhatan | 28,815 | 3,537 | 735 |
| Chickahominy | Charles City | 6,963 | 741 | 96 |
| | Goochland | 23,753 | 3,458 | 632 |
| | Hanover | 107,766 | 16,332 | 3,669 |
| | New Kent | 23,091 | 3,430 | 638 |
| Henrico | Henrico | 330,818 | 54,015 | 12,051 |
| Richmond | Richmond City | 226,622 | 23,000 | 5,607 |
| | **Total** | **1,118,058** | **154,132** | **34,257** |

As of February 16, 2021, **154,132 doses of the vaccine have been administered in the region, which has a population of 1,118,058. 3.06% of the region's population has been fully vaccinated.** We have set a goal of

vaccinating 75% of the population to reach herd immunity. First and second doses of the Pfizer vaccine must be administered at least 21 days apart. First and second doses of the Moderna vaccine must be administered at least 28 days apart.

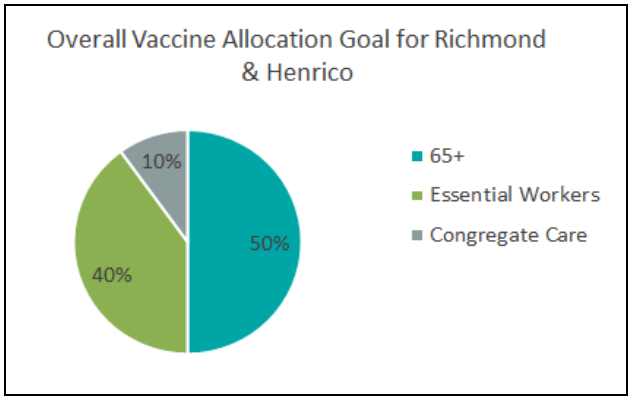
### 6.5 Weekly total vaccinations over time for Richmond and Henrico - source: internal tracking, VIIS

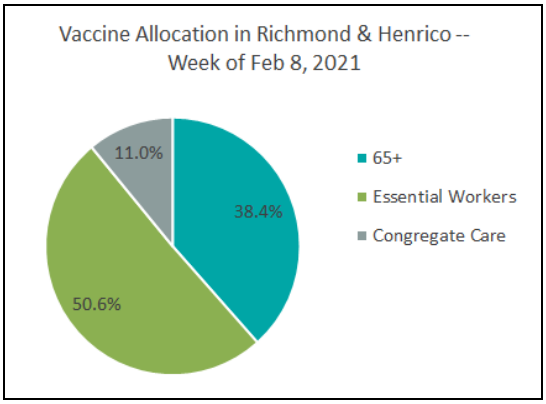



*New health system totals reflect the Richmond hospital catchment area, which includes VCU Health System, Retreat Doctors', Bon Secours Community, CWJ Chippenham, CWJ Johnson Willis, Bon Secours St. Mary's, Henrico Doctors, and Parham Doctors, Bon Secours St. Francis, and Memorial Regional Medical Center. VA Medical Center is included in the COVID-19 hospitalization section of this report but vaccination data for this hospital is not yet available in VIIS.

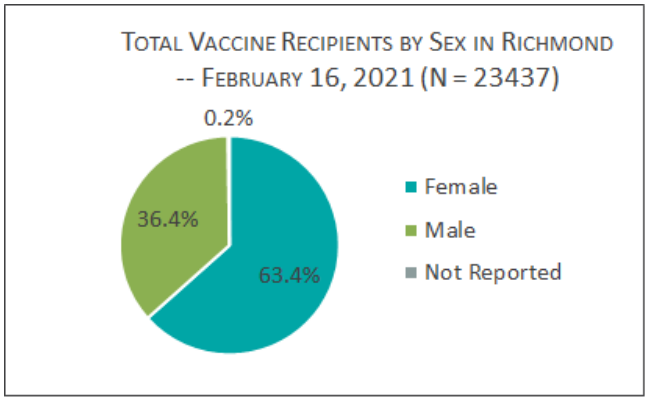
## 6.6 VACCINE DISTRIBUTION BY ELIGIBLE POPULATION IN RICHMOND & HENRICO - SOURCE: INTERNAL TRACKING

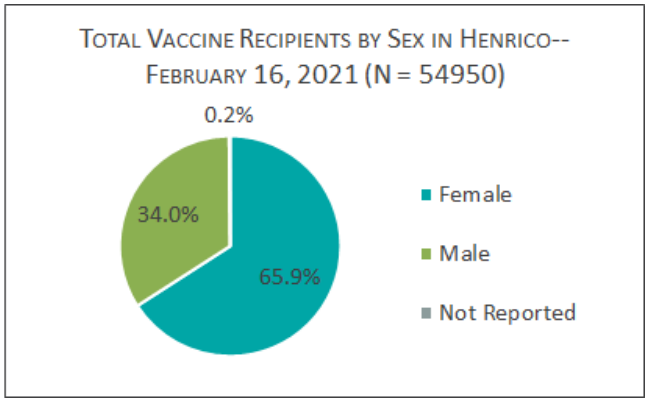
The following charts reflect RCHD/HCHD's goal for vaccine distribution and the actual distribution of vaccine among eligible priority populations in the past week.

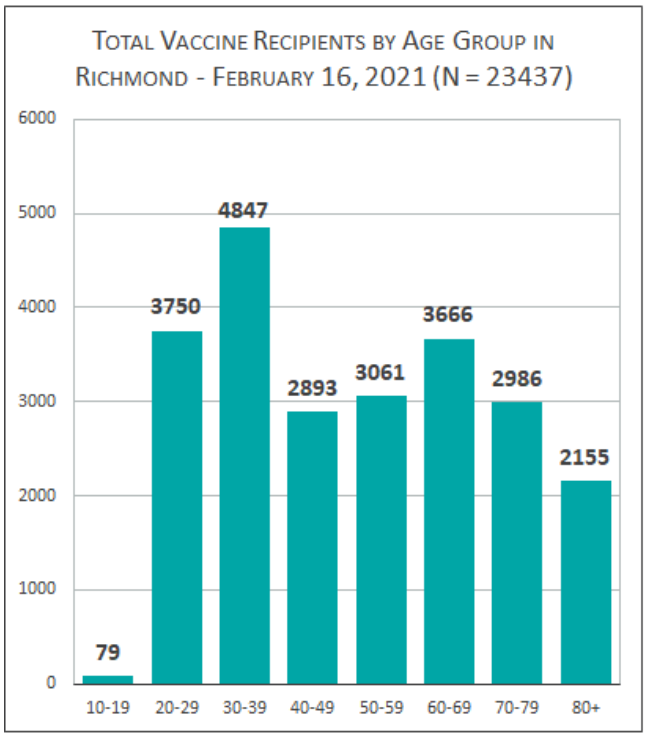


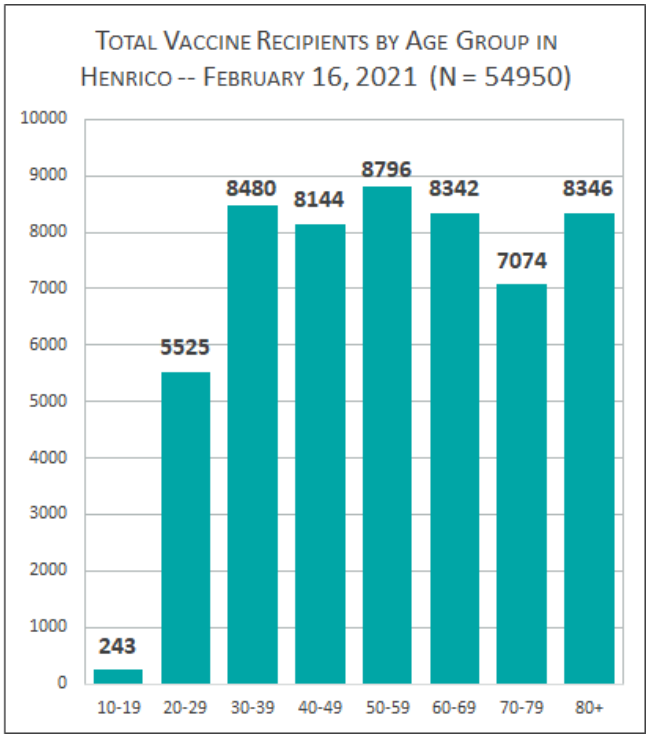




## 6.7 VACCINE DISTRIBUTION BY DEMOGRAPHIC SUBGROUP - SOURCE: VIIS

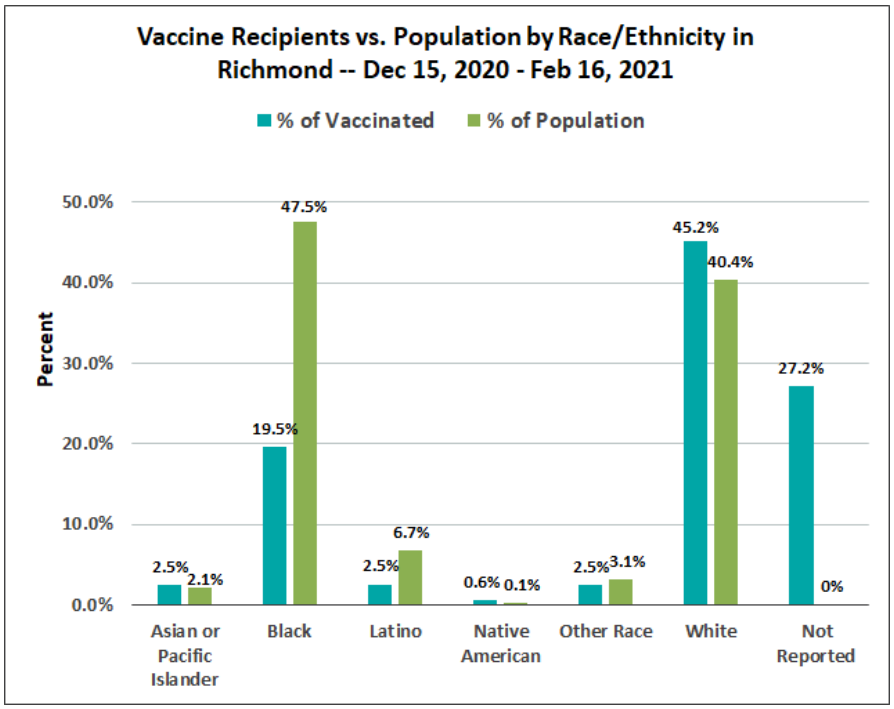


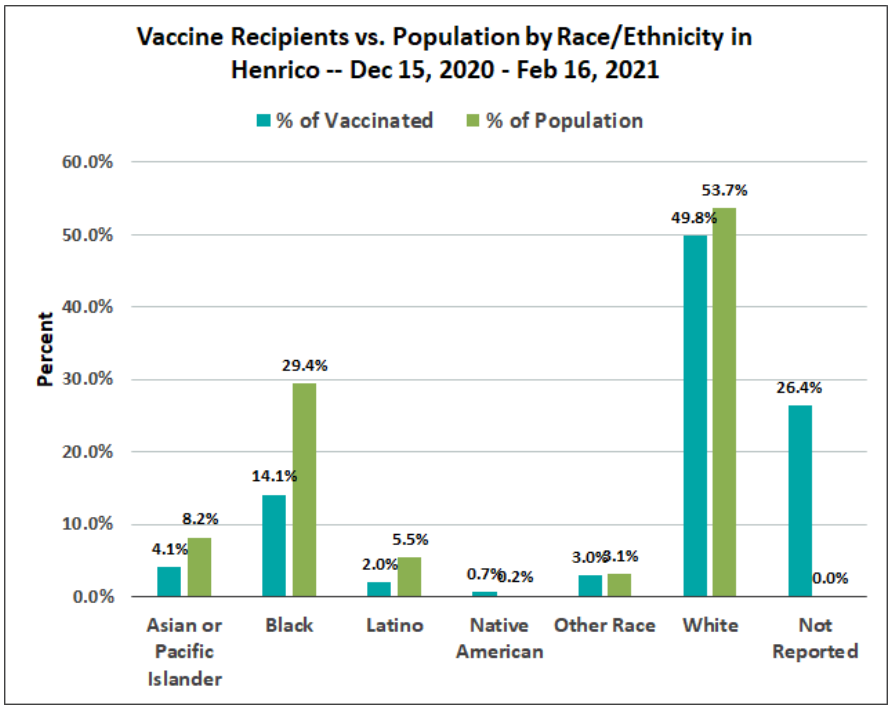




Total Vaccine Recipients by Age Group in Richmond - February 16, 2021 (N = 23437)
6000
5000
4000
3000
2000
1000
0
79
3750
4847
2893
3061
3666
2986
2155
10-19
20-29
30-39
40-49
50-59
60-69
70-79
80+


Total Vaccine Recipients by Age Group in Henrico -- February 16, 2021 (N = 54950)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
243
5525
8480
8144
8796
8342
7074
8346
10-19
20-29
30-39
40-49
50-59
60-69
70-79
80+

The following charts compare the percentage breakdown of racial or ethnic identification of vaccinated individuals to the racial or ethnic identification of the population. A notable discrepancy can be seen when looking at Black individuals, who comprise 47.5% of the Richmond population and 29.4% of the Henrico population yet remain only 19.5% of vaccine recipients in Richmond and only 14.1% of vaccine recipients in Henrico.



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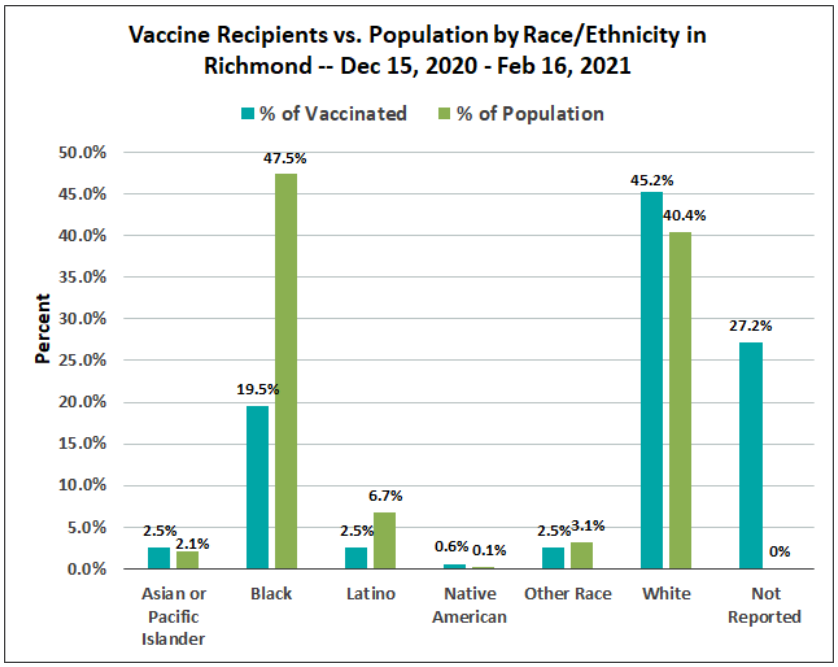


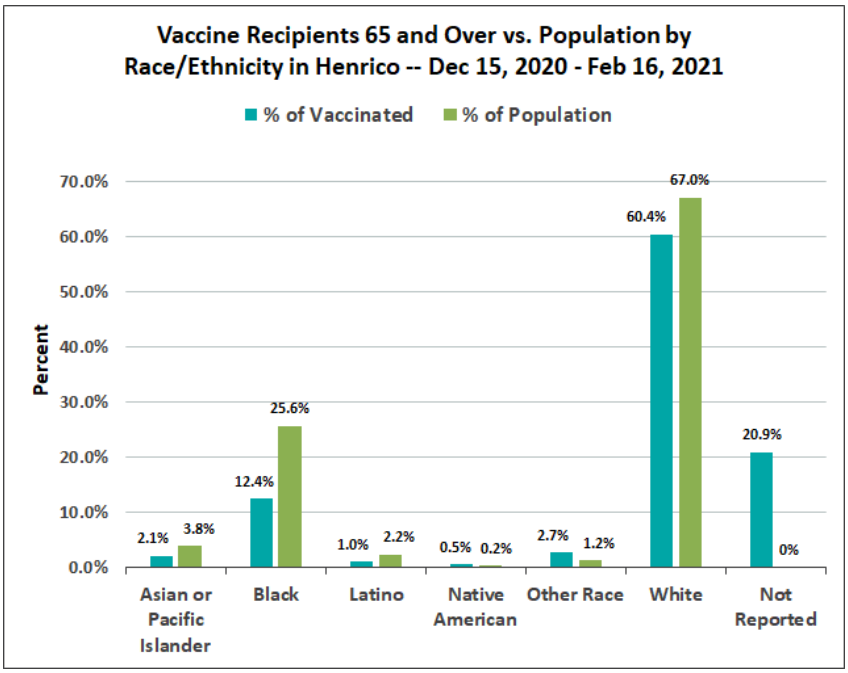

## 7.0 APPENDIX

### 7.1 CENSUS POPULATION ESTIMATES BY AGE AND RACE--RICHMOND CITY AND HENRICO COUNTY

**Richmond City Population Estimates by Age and Race, as of July 1, 2018 (N=228,783)**

| Age group (Years) | LATINO | NH WHITE | NH BLACK | NH OTHER |
|---|---|---|---|---|
| 0-9 | 3807 | 6375 | 13310 | 1232 |
| 10-19 | 2282 | 6587 | 13047 | 1554 |
| 20-29 | 3417 | 21968 | 18657 | 3146 |
| 30-39 | 2817 | 19613 | 14235 | 1897 |
| 40-49 | 1901 | 10191 | 10525 | 831 |
| 50-59 | 1129 | 10805 | 14747 | 690 |
| 60-69 | 525 | 10589 | 13292 | 574 |
| 70-79 | 218 | 5457 | 5866 | 271 |
| 80+ | 79 | 3599 | 3369 | 181 |

**Henrico County Population Estimates by Age and Race, as of July 1, 2018 (N=329,261)**

| Age group (Years) | LATINO | NH WHITE | NH BLACK | NH OTHER |
|---|---|---|---|---|
| 0-9 | 3764 | 17467 | 11946 | 6531 |
| 10-19 | 3464 | 18739 | 13872 | 5470 |
| 20-29 | 2870 | 19249 | 15019 | 5142 |
| 30-39 | 3360 | 22298 | 13542 | 7601 |
| 40-49 | 2608 | 22194 | 12532 | 5766 |
| 50-59 | 1696 | 25701 | 13509 | 3338 |
| 60-69 | 819 | 23639 | 10596 | 2368 |
| 70-79 | 391 | 14553 | 5349 | 1147 |
| 80+ | 174 | 9618 | 2487 | 442 |