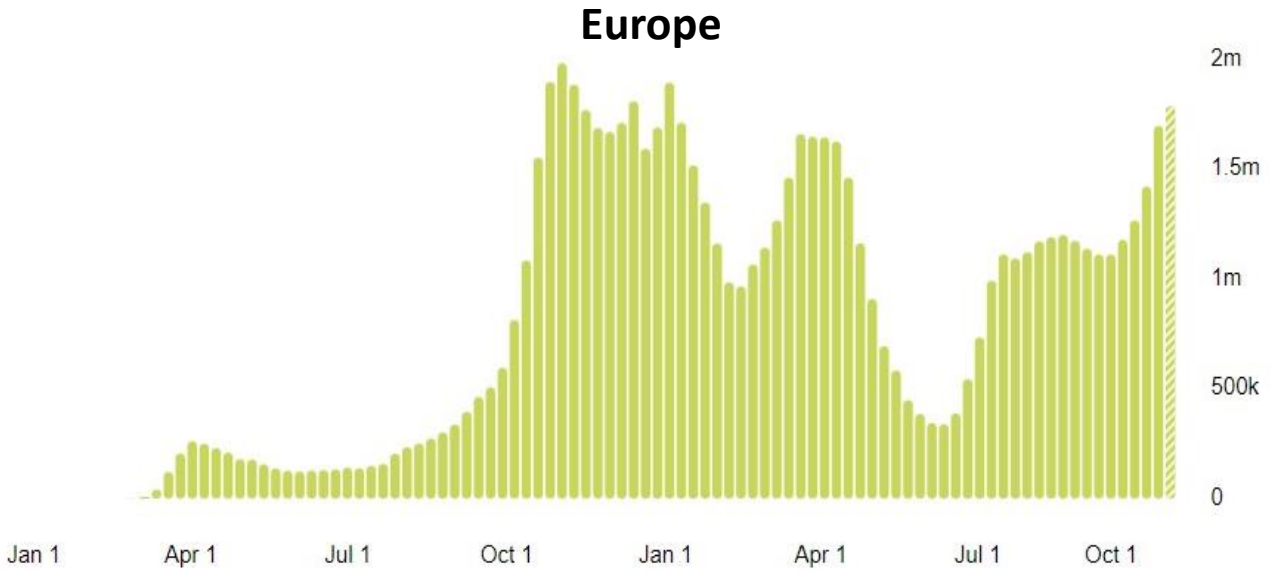
Virginia
COVID-19 Surveillance Data Update

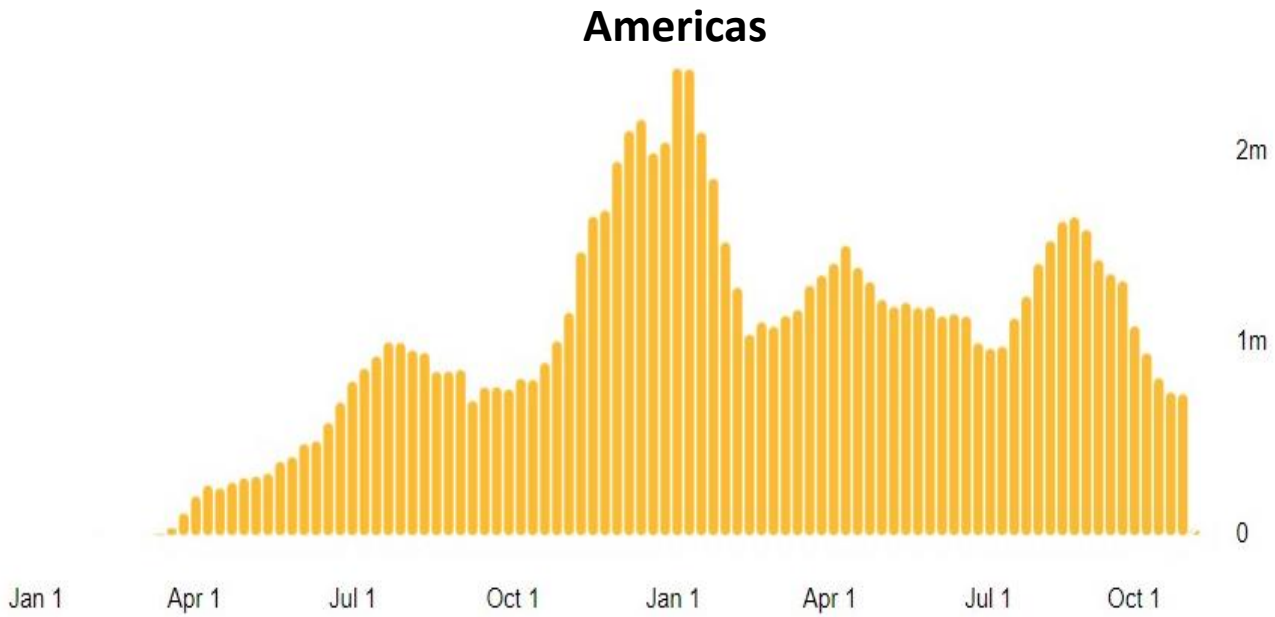
November 4, 2021

VIRGINIA'S HEALTH IS IN OUR HANDS.
Do your part, stop the spread.

Global: COVID-19 Surging in Europe

Updated 11/1

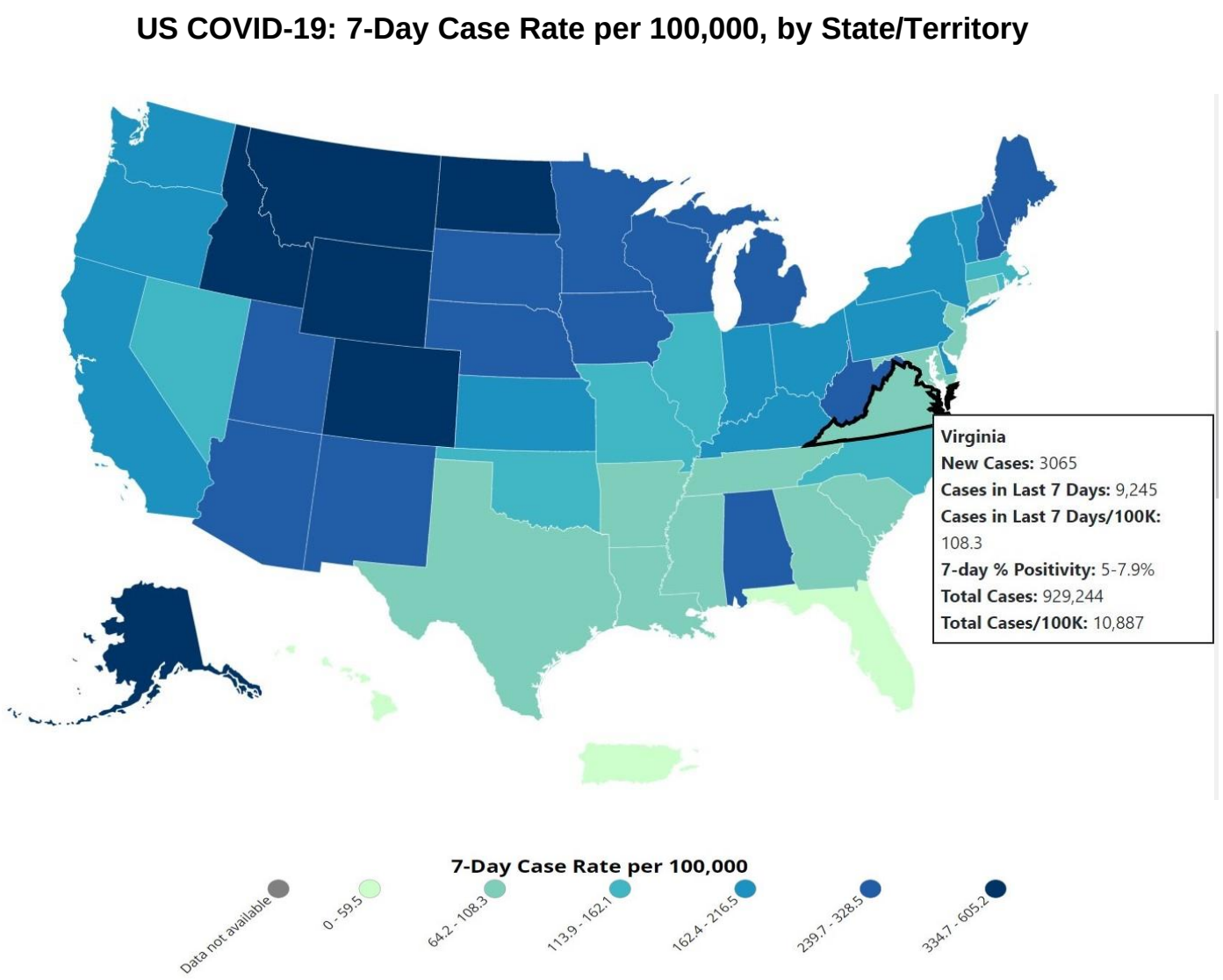




- **Europe** is seeing another COVID-19 surge with **1,786,313 cases** for the week ending **10/25/21**
- The **Americas** have **735,217 cases in comparison**
- Eastern Europe, Spain, United Kingdom, and France are seeing the worst-case rates
- Attributed to low vaccination rates, vaccine hesitancy, and the encroaching winter weather
- The **United Kingdom** is seeing a spike in Delta variants **AY4, AY3, AY6 and AY 4.2**
- Currently **AY 4.2** also known as **Delta Plus** is accounting for **6% of cases**

National: Weekly COVID-19 Case Rate

Updated 11/3



	Cases in the Last 7 Days Per 100k Population
Virginia	108.3 (-12.0%)
U.S.	157.7 (+13.4%)
Alaska	605.2 (-11.3%)
Montana	467.4 (-17.3%)
North Dakota	454.4 (-1.9%)

Our Neighbors

Rates Higher than Virginia

West Virginia, **314.3** (-10.1%)
Kentucky, **164.4** (-23.5%)
North Carolina, **126.9** (-13.3%)

Rates Lower than Virginia:

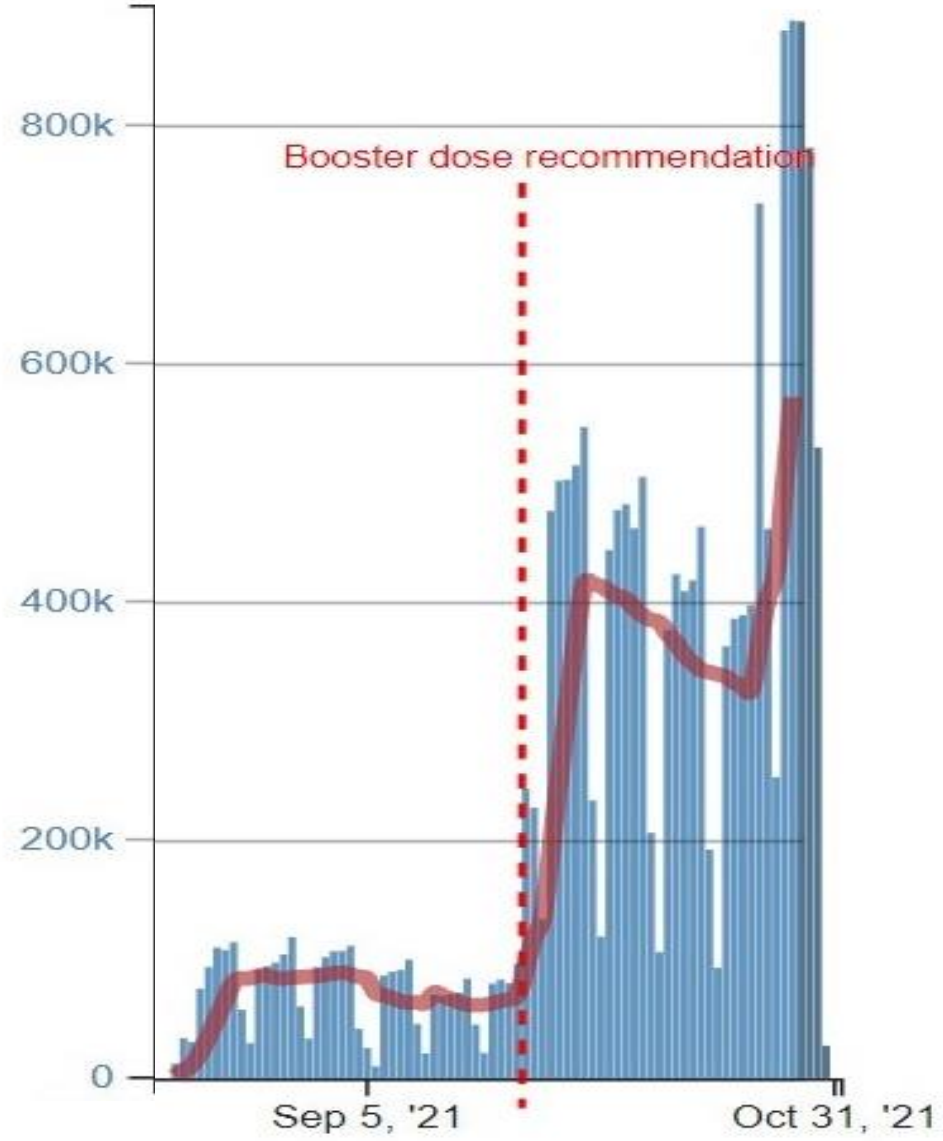
Maryland, **82.8** (-7.1%)
District of Columbia, **83.7** (-3.0%)
Tennessee, **72.8** (-45.1%)

Source: CDC COVID Data Tracker Please note rate change comparisons are from the previous week's data.

National: Vaccination Booster Doses

Updated 11/1

US Fully Vaccinated People Receiving a Booster Dose



Over 15 Million people have received booster doses as of 10/28/21

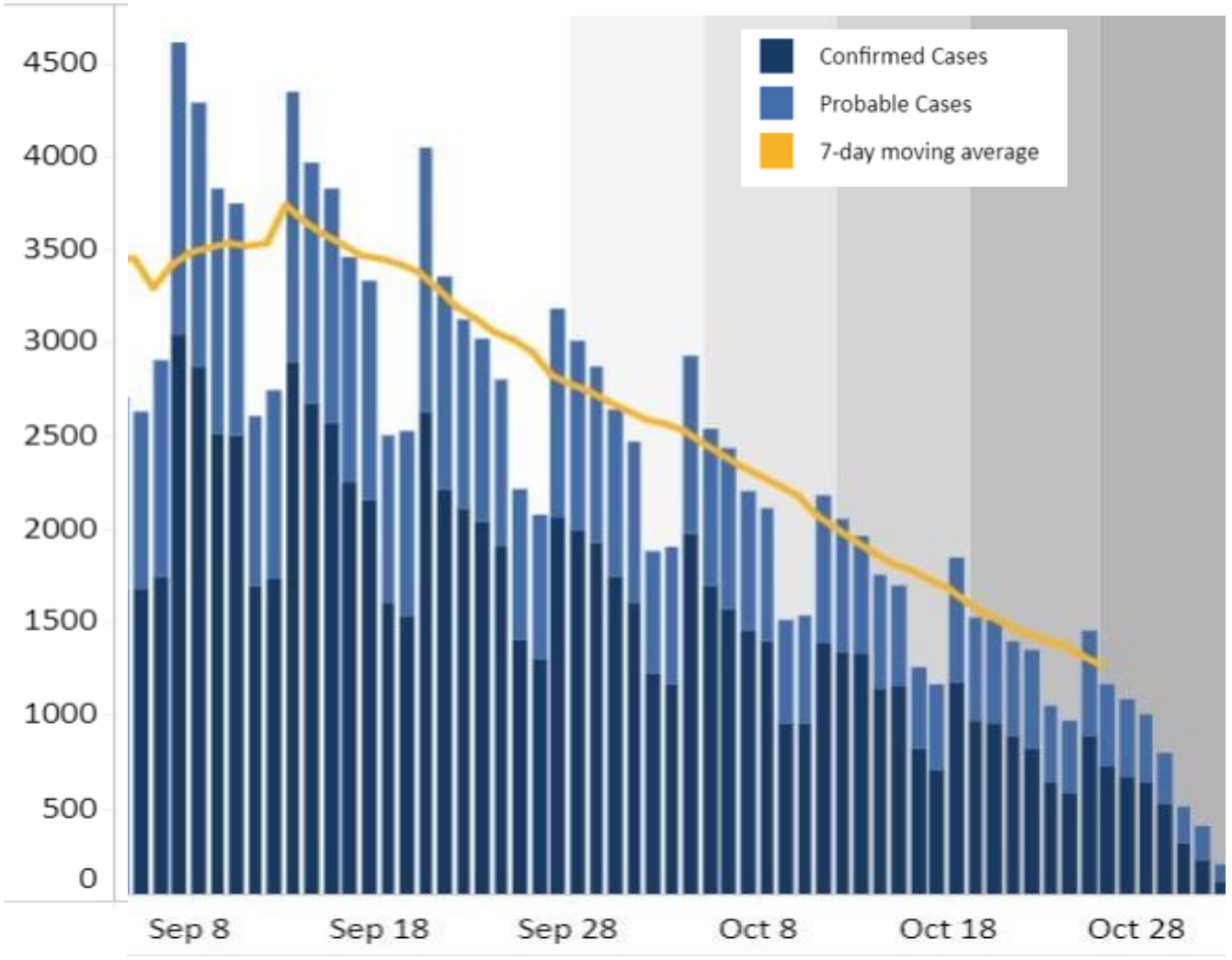
The CDC Advisory Committee on Immunization Practices issued recommendations for an additional vaccine dose for the following people who are increased risk:

- Moderately to severe immunocompromised persons aged ≥ 12
  - They should receive and mRNA booster dose ≥ 28 days after primary series
- LTC residents, persons aged 18 ≥ 64 with underlying medical conditions, persons aged 18 ≥ 64 with increased due to occupational or institutionalized exposure
  - They should receive any type of approved booster dose ≥ 6 months after primary series
- Persons who received the J&J vaccine
  - They should receive any type of approved booster dose ≥ 2 months after primary series
- The volume of vaccine administered for J&J and Pfizer is the same as the primary series, but Moderna is ½ the primary series dose

Virginia: Cases, Hospitalizations, and Deaths

Updated 11/3

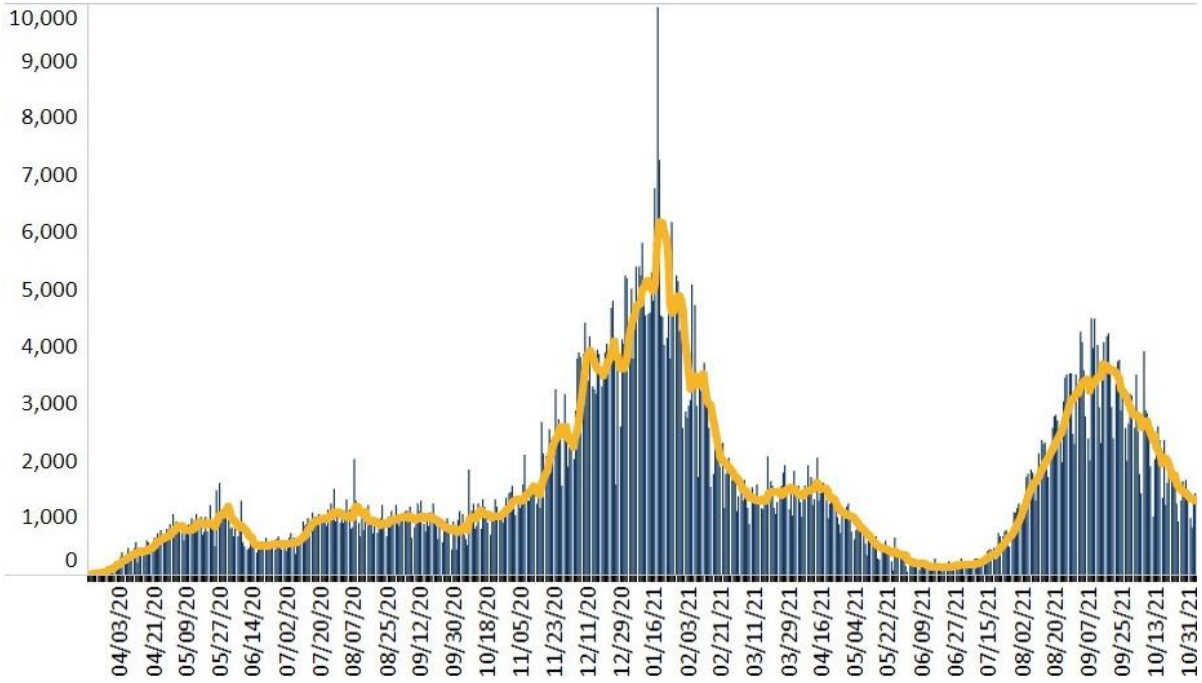
Cases by Date of Symptom Onset, last 60 days



Gray shaded area illness may not have been reported yet

- Compared to last week, **cases** decreased to 1,293 (7-day MA) per day (-12.2%)
  - 79% lower than the January peak of 2021
  - **Equal to the March low of 2021**
  - 902% higher than the June low of 2021
- **Hospitalizations** decreased to 1,005 per day (-18.5%)
- **Deaths** decreased to 32.1 per day (-7.8%)

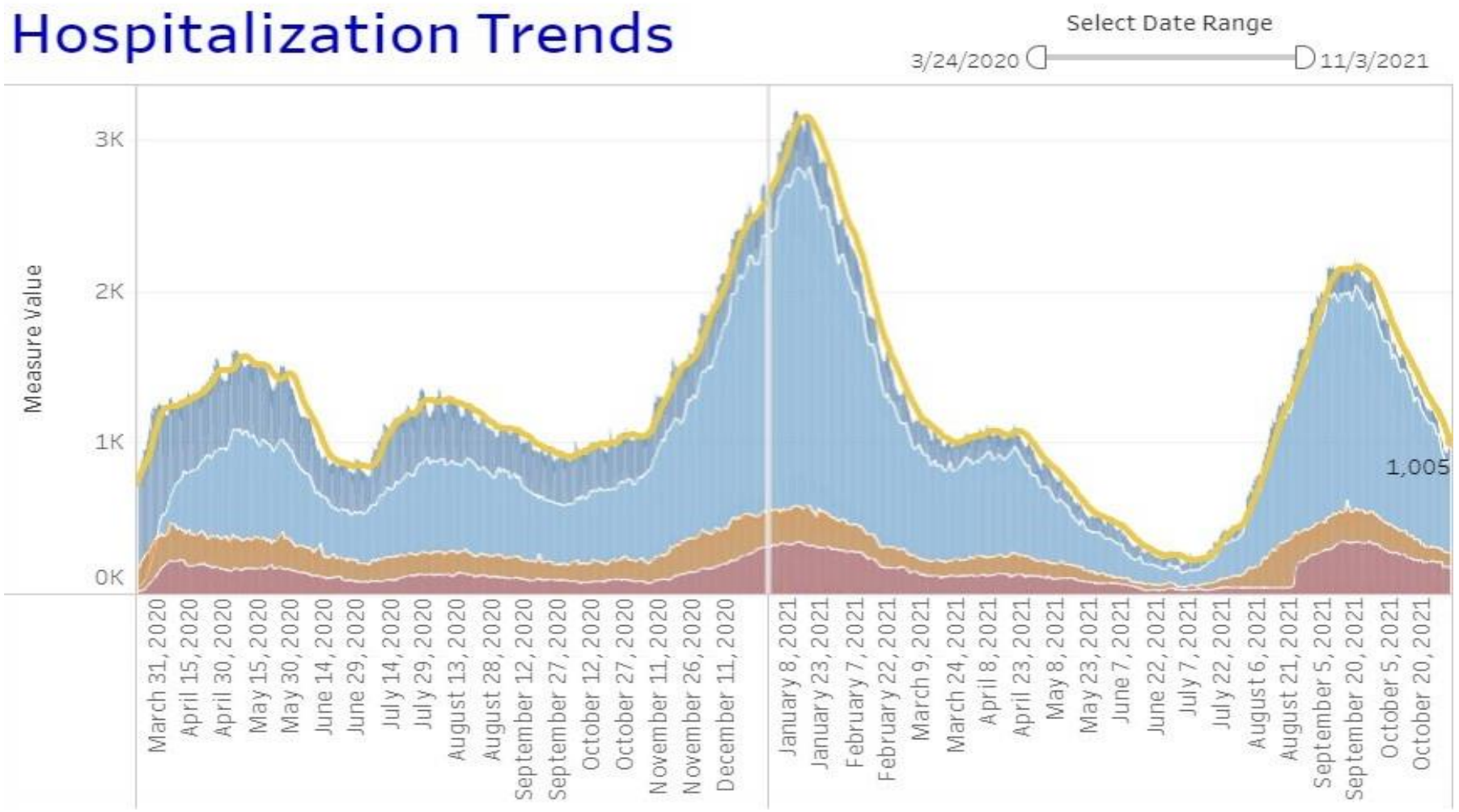
Cases, All Reporting Timeline



Source: Cases – Coronavirus (virginia.gov), Cases and Deaths - Coronavirus (virginia.gov), VHHA Hospitalizations – Coronavirus (virginia.gov), Data represent a 7-day moving average

Virginia: COVID-19 Hospitalizations

Updated 11/3



1,005
7-day Average Current Hospitalizations

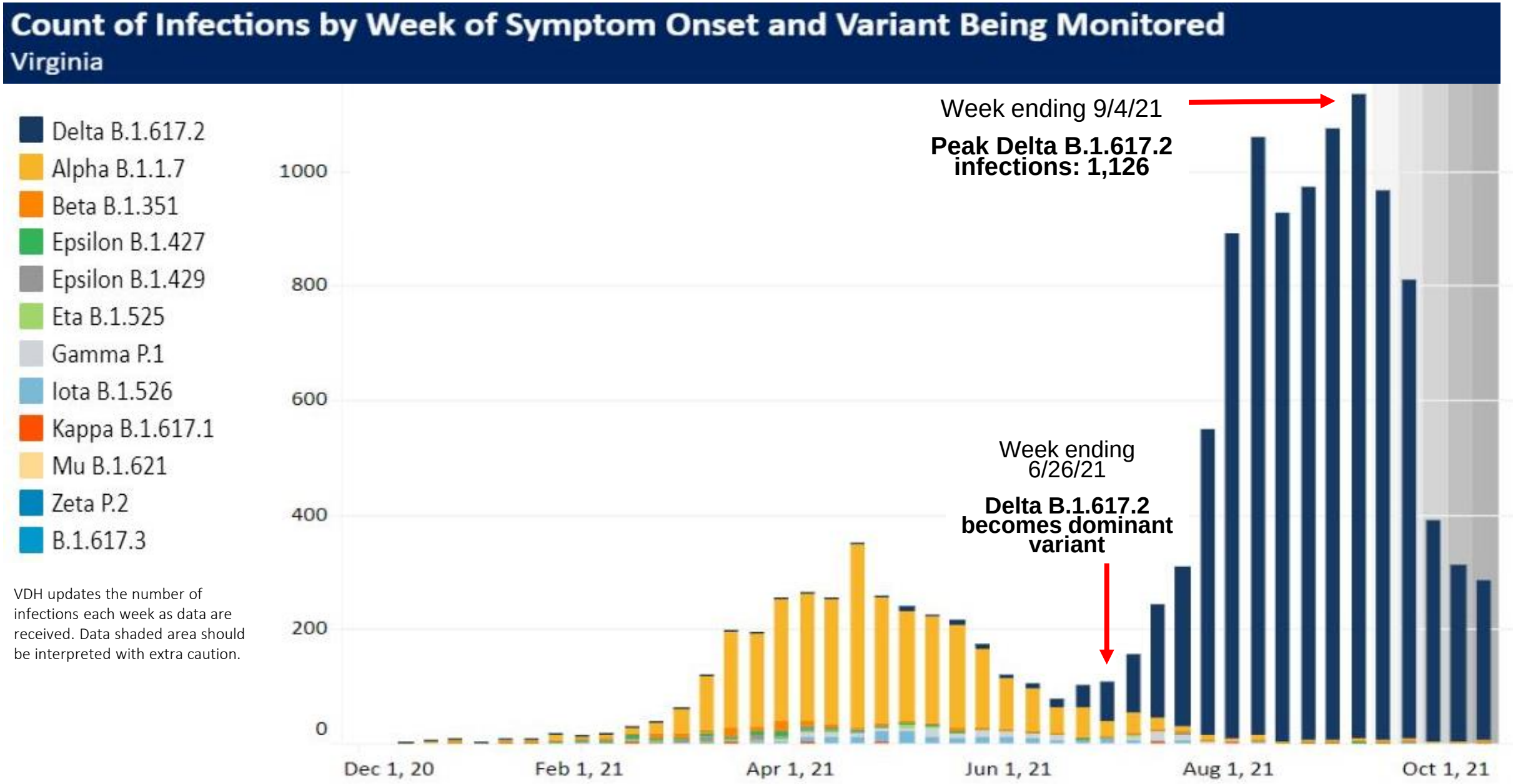
-18.5%
% Change in 7-day Average

-68.1%
% Change from peak 7-day Average (Jan 2021)

Source: [VHHA Hospitalizations – Coronavirus (virginia.gov)]

Virginia: Variants of Concern

Updated 11/1



VDH updates the number of infections each week as data are received. Data shaded area should be interpreted with extra caution.

Source: [Variants – Coronavirus (virginia.gov)]

Virginia: Regional Metric Summary

Updated 11/3

Metrics date: 11/3/2021

	Central	Eastern	Far Southwest	Near Southwest	Northern	Northwest
New cases per 100k within the last 7 days	107.4 ↓	83.6 ↓	234.1 ↓	148.9 ↓	68.0 ↓	141.4 ↓
% Positivity 7-day moving average	5.6% ↓	6.5% ○	11.3% ↓	8.0% ↑	2.9% ↓	6.9% ↓
COVID-like ED visits rate per 100k	16.0 ↓	10.8 ↓	18.6 ↓	16.0 ↓	5.7 ↓	10.0 ↓

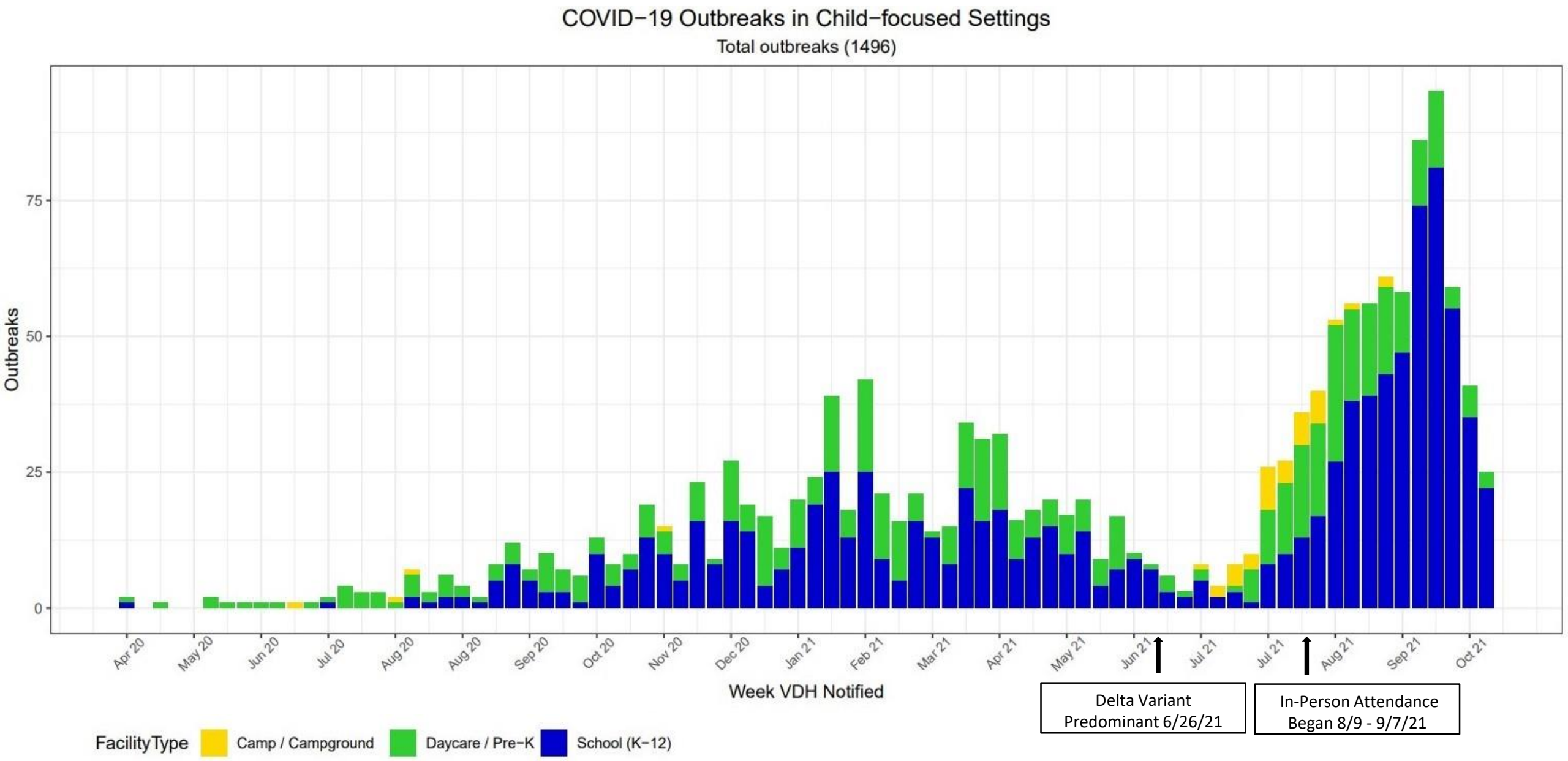
Burden	Level 0	Level 1	Level 2	Level 3	Level 4
New Cases	<10	10-49		50-100	>100
% Positivity	<3	3-5	5-8	8-10	>10
CLI ED Visits	<4		4-5.9		≥6

Symbol	Trend
↑	Increasing
↓	Decreasing
○	Fluctuating

Source: Region Metrics – Coronavirus
Data represents a 7-day moving average, trends compared to 1 week ago

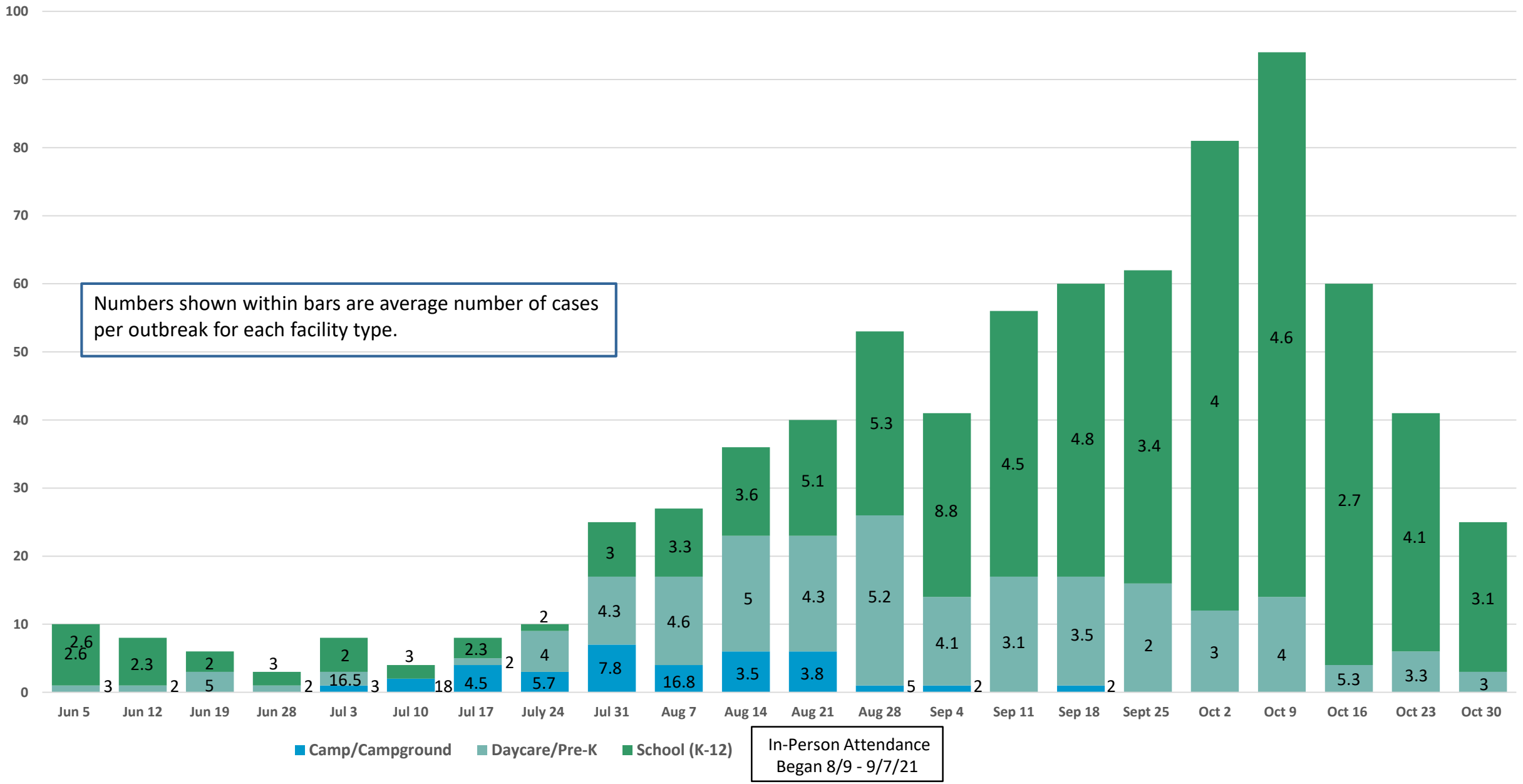
COVID-19 Outbreaks in Child-Focused Settings (full pandemic)

Updated 11/1



Number of Outbreaks in Child-Focused Facilities Over the Last 5 Months

Updated: 11/1



COVID-19 Literature Review Health Care Workers

Updated 10/25

The impact of COVID-19 on health care workers: a closer look at deaths: September 2021

- In a WHO worldwide study, surveillance data reported **6,643 deaths in healthcare workers** which is estimated to be **60% lower** than the **actual death toll**
- Mounting evidence is showing the death of healthcare workers to be much greater that what has been reported, the **estimated range is between 80,000 to 180,000** with a central population-based estimate of **115,500 deaths**
- The underreporting of deaths in healthcare workers is more likely in poor countries with inadequate death registries
- Greater and continued efforts of advocacy for the **equitable distribution of vaccines** need to be made, as well as tailored communication systems must be designed in poorer nations

COVID-19 in Health-Care Workers: A Living Systematic Review and Meta-Analysis of Prevalence, Risk Factors, Clinical Characteristics, and Outcomes: January 2021

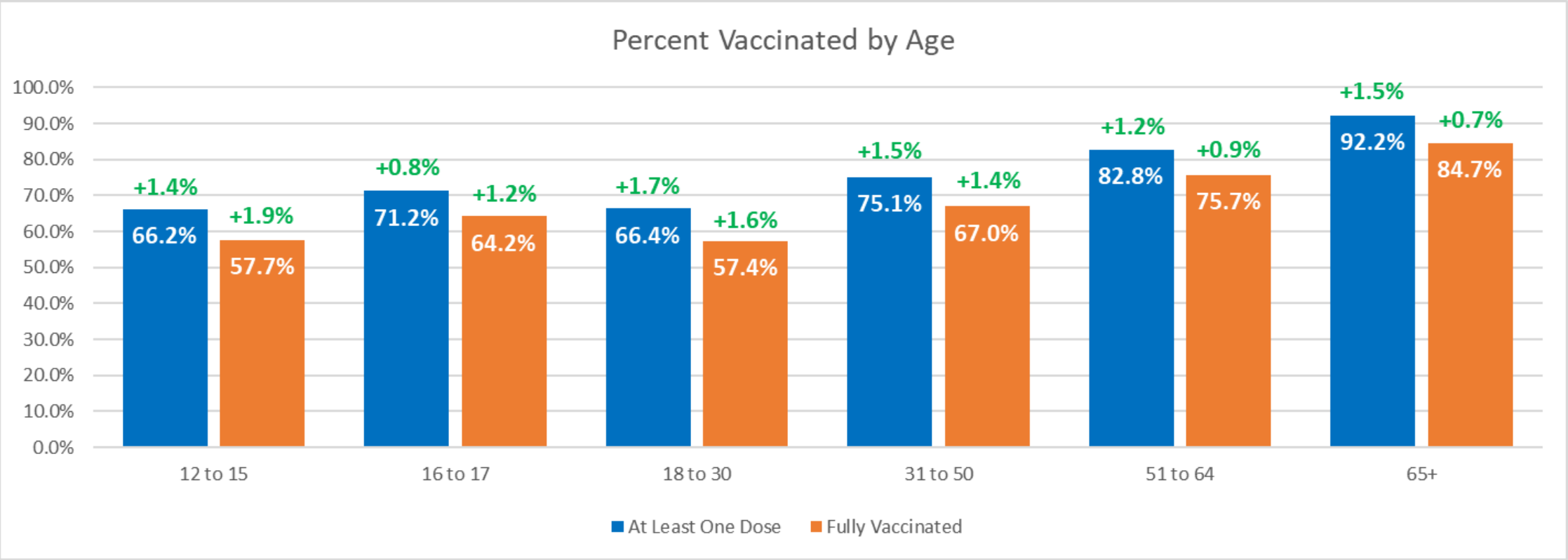
- A literature review/meta-data analysis examined **97 studies of the effect of COVID-19 in healthcare workers around the world**
- A total of 230,298 health care workers were assessed, and results indicated that **7% - 11% of workers** had **tested positive for COVID-19, 5% developed severe COVID-19** complications and **0.5% died**
- Most of the COVID-19 impacted health workers worked in **non-emergency hospital settings** and **48%** of them were **nurses**, the most common symptoms were fever (57%), and dry cough (57%)

COVID-19 Breakthrough Infections in Vaccinated Health Care Workers: October 2021

- In an Israeli study evaluating breakthrough infections of COVID-19, **1497 healthcare workers** who received the Pfizer vaccine **39 (2.6%)** health care workers experienced a **breakthrough infection**
- 26 (67%) of the health care workers with breakthrough infection presented with mild symptoms and the other 13 (33%) were asymptomatic

Virginia: Vaccination by Age Groups

Updated 11/3



Virginia Vaccination by Age

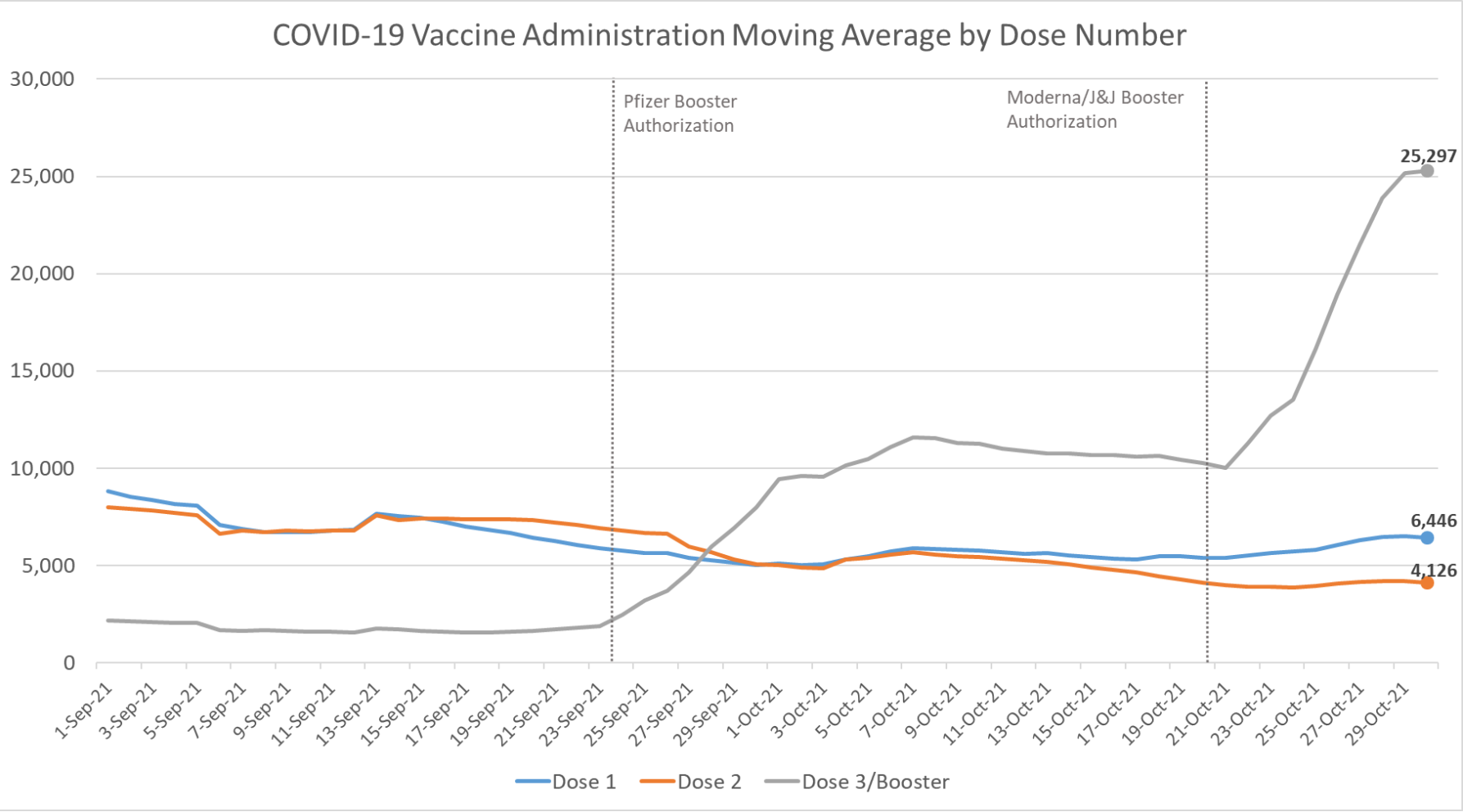
- ✓ **83.4%** **(+1.7%)** of the Adult (18+) Population Vaccinated with at Least One Dose
- ✓ **73.6%** **(+1.4%)** of the Eligible (12+) Population Fully Vaccinated
- ✓ **92.2%** **(+1.7%)** of Virginians 65+ and **67.9%** **(+1.5%)** of 12 to 17 year olds have received at least one dose
- ✓ **63.0%** **(+1.5%)** of the Total Population has been Fully Vaccinated
- ✓ **66.9%** of the 5+ Population is Fully Vaccinated

- Green percent represents percent increase from two weeks prior

Source: COVID-19 in Virginia: Vaccine Summary, Keep Virginia Safe Tournament | Metaculus

Third Dose/Booster shot administrations are increasing

- Third Dose/Booster administrations are seeing a very sharp increase following Moderna/J&J Booster Authorization
- First Dose administrations are increasing slightly while Second Dose administrations are plateauing

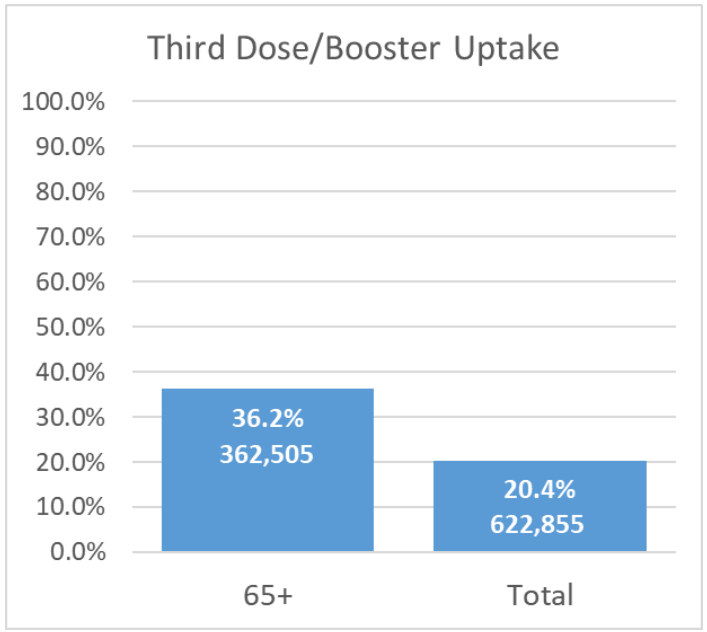


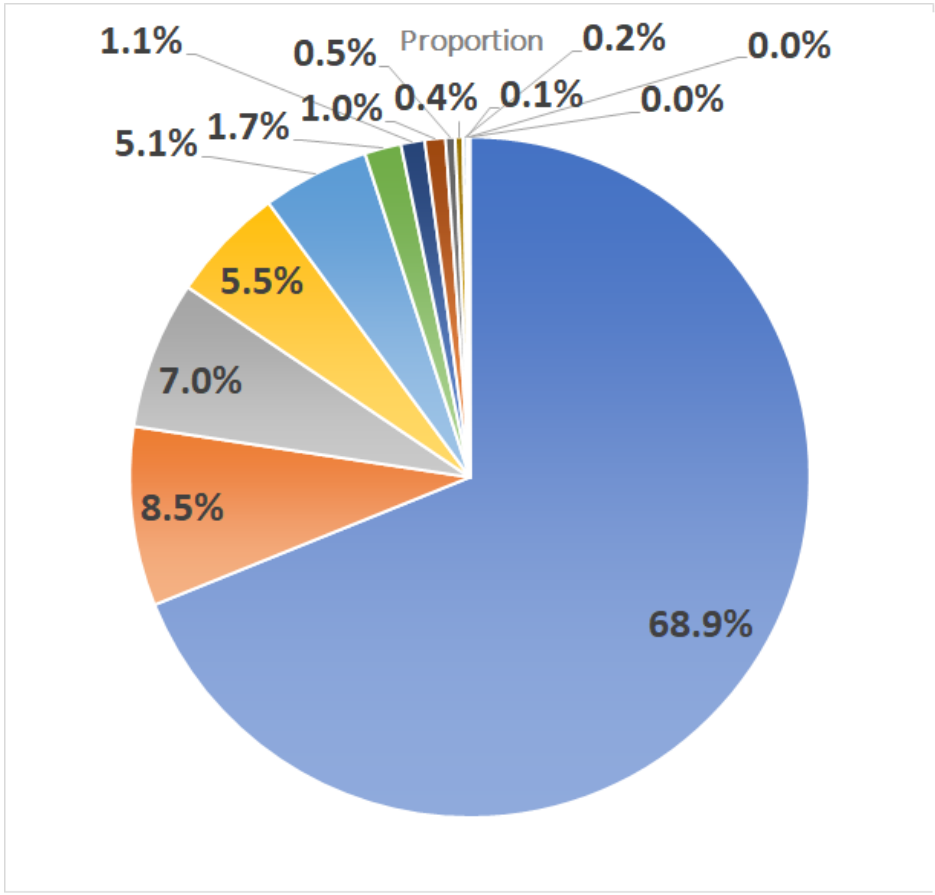
Federal doses not included in this number

Source: [COVID-19 Vaccine Summary – Coronavirus (virginia.gov)]

Updated 11/3

Third Dose/Booster Metrics





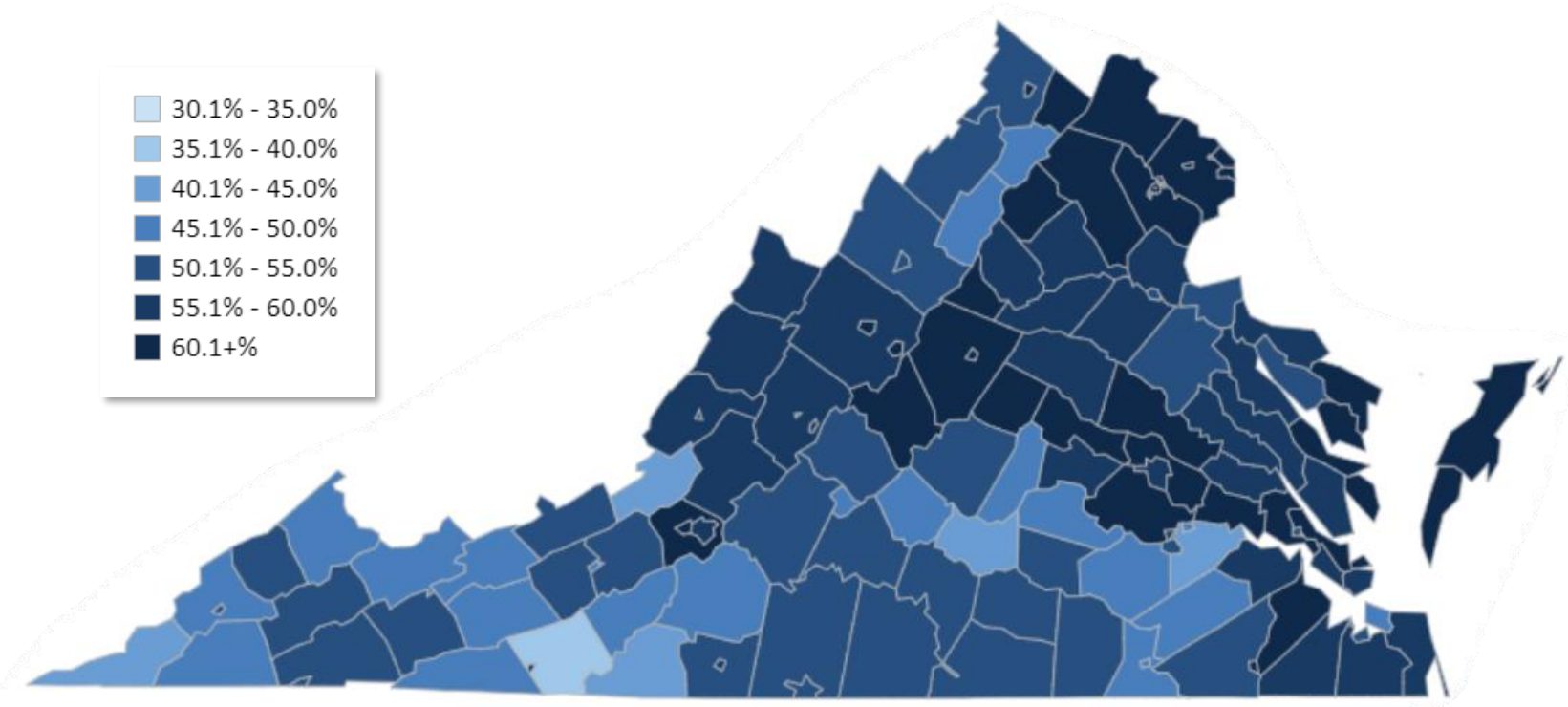
- Pharmacy – chain
- Public health provider – public health clinic
- Medical practice – family medicine
- Hospital
- Other
- Medical practice – other specialty
- Medical practice – internal medicine
- Community Health Center(non-FQHC/non-Rural Health Clinic)
- Medical practice – pediatrics
- Long-term care – nursing home, etc
- Health center – student
- Medical practice – OB/GYN
- Unclassified
- Corrections/detention health services

Federal doses not included in this number
Source: [COVID-19 Vaccine Summary – Coronavirus (virginia.gov)]

Virginia: Vaccination across the Commonwealth by Geography

Updated 11/3

Percent of the Total Population with at Least One Dose by Locality



2013 SRHP Isserman Classification	12 to 15	16 to 17	18 to 30	31 to 50	51 to 64	65+	Grand Total
Mixed Urban	66%	74%	68%	69%	80%	93%	**65%**
Urban	69%	77%	60%	72%	80%	89%	**75%**
Mixed Rural	48%	56%	53%	60%	71%	84%	**61%**
Rural	40%	47%	47%	54%	67%	80%	**74%**
Grand Total	**61%**	**68%**	**59%**	**67%**	**76%**	**87%**	**71%**

Federal doses not included in this number
Source: COVID-19 Vaccine Summary – Coronavirus (virginia.gov)

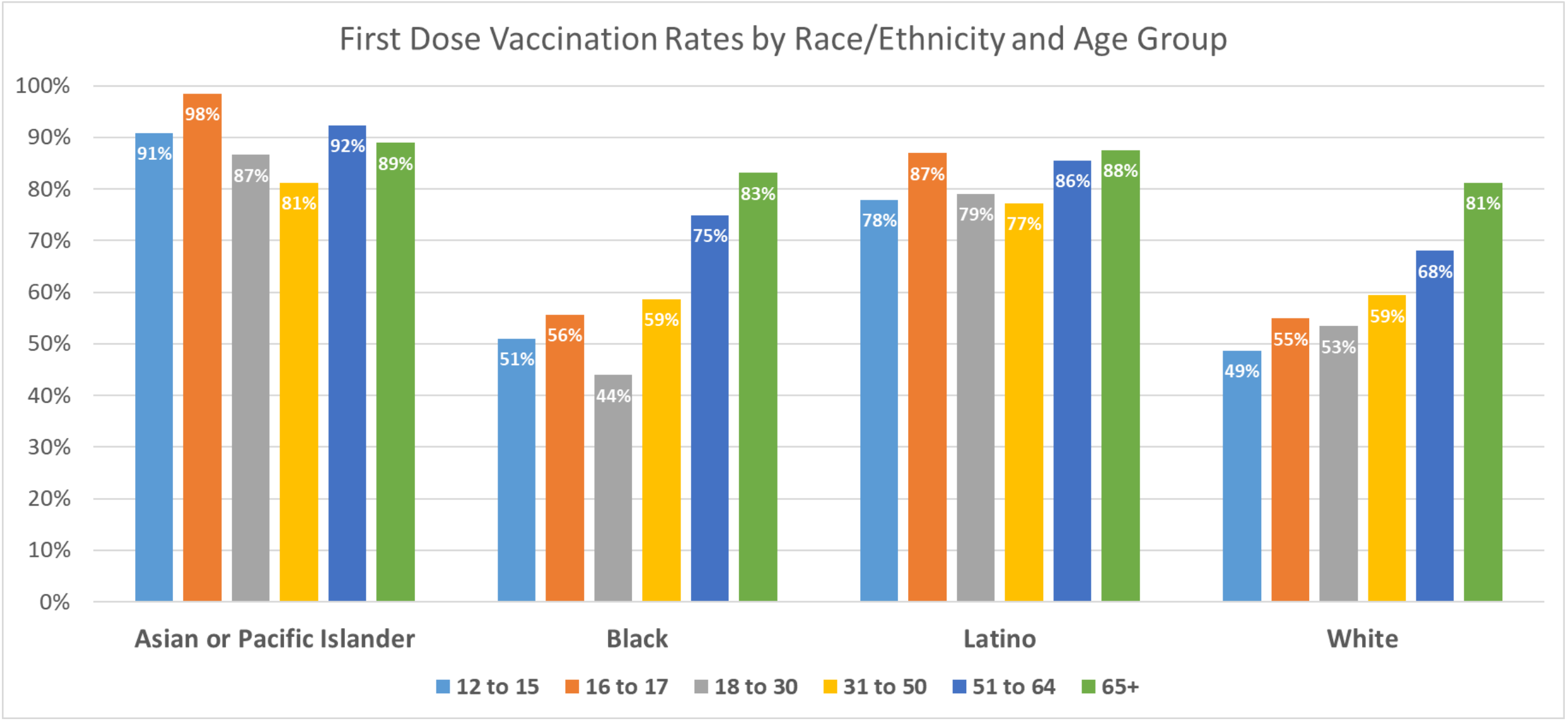
First Dose Vaccination Rate by Region for Total Population

Region Name	1st Dose Vaccination	% Change 2 Weeks
Central	59.9%	+1.2%
Eastern	57.3%	+1.7%
Northern	69.4%	+1.2%
Northwest	58.0%	+1.2%
Southwest	51.9%	+1.2%

- 0 (-1 over 2 weeks) out of 133 Localities have a first dose vaccination rate below 40%
- 37 (+0 over 2 weeks) out of 133 Localities have a first dose vaccination rate above 60%
- There is a disparity across Urban and Rural areas by Age Groups, with Rural Adolescents the Lowest Vaccinated group

Virginia: Vaccination by Race/Ethnicity

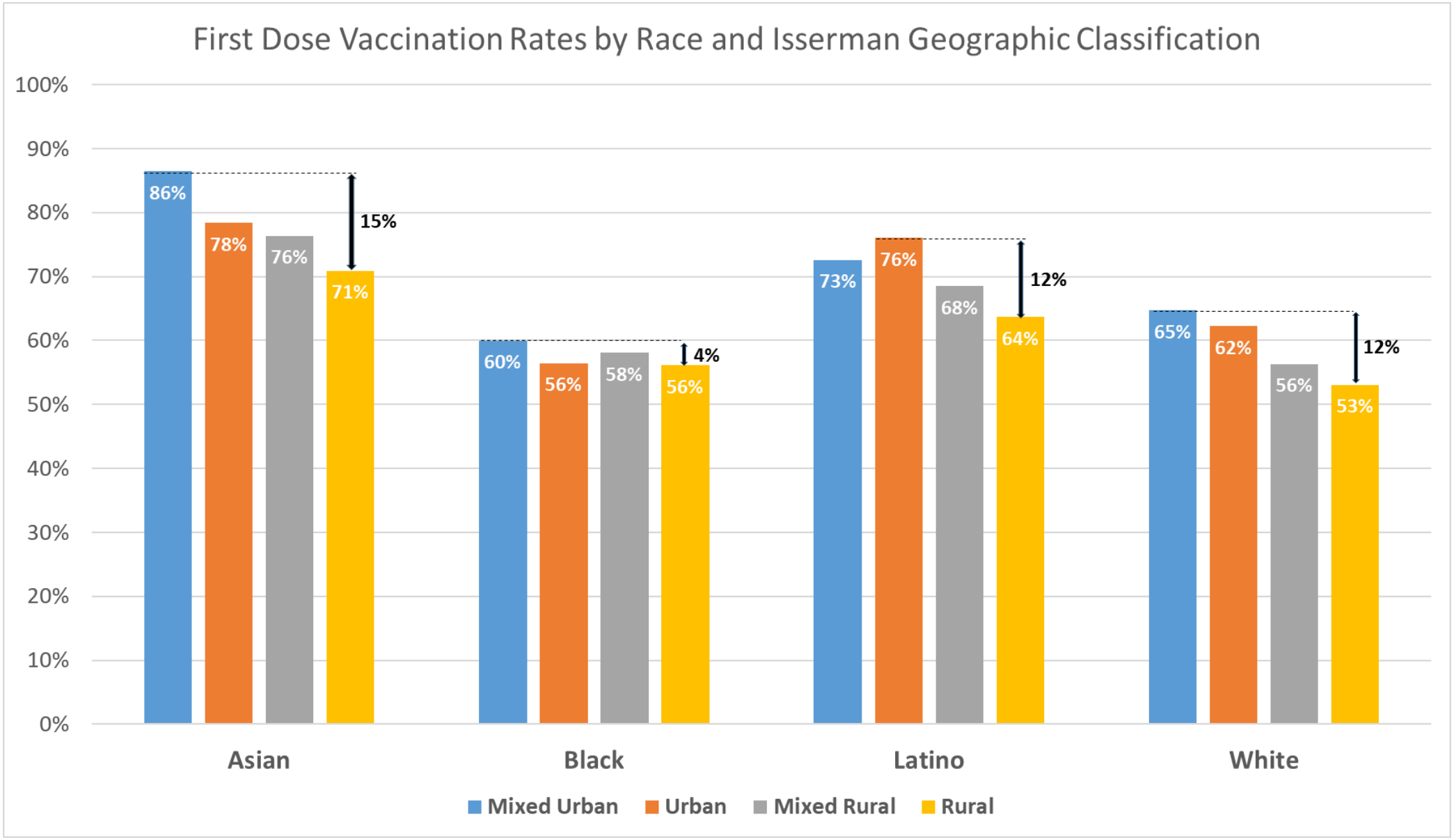
Updated 11/3



Source: [COVID-19 Vaccine Summary – Coronavirus (virginia.gov)]

Virginia: Vaccination by Race/Ethnicity

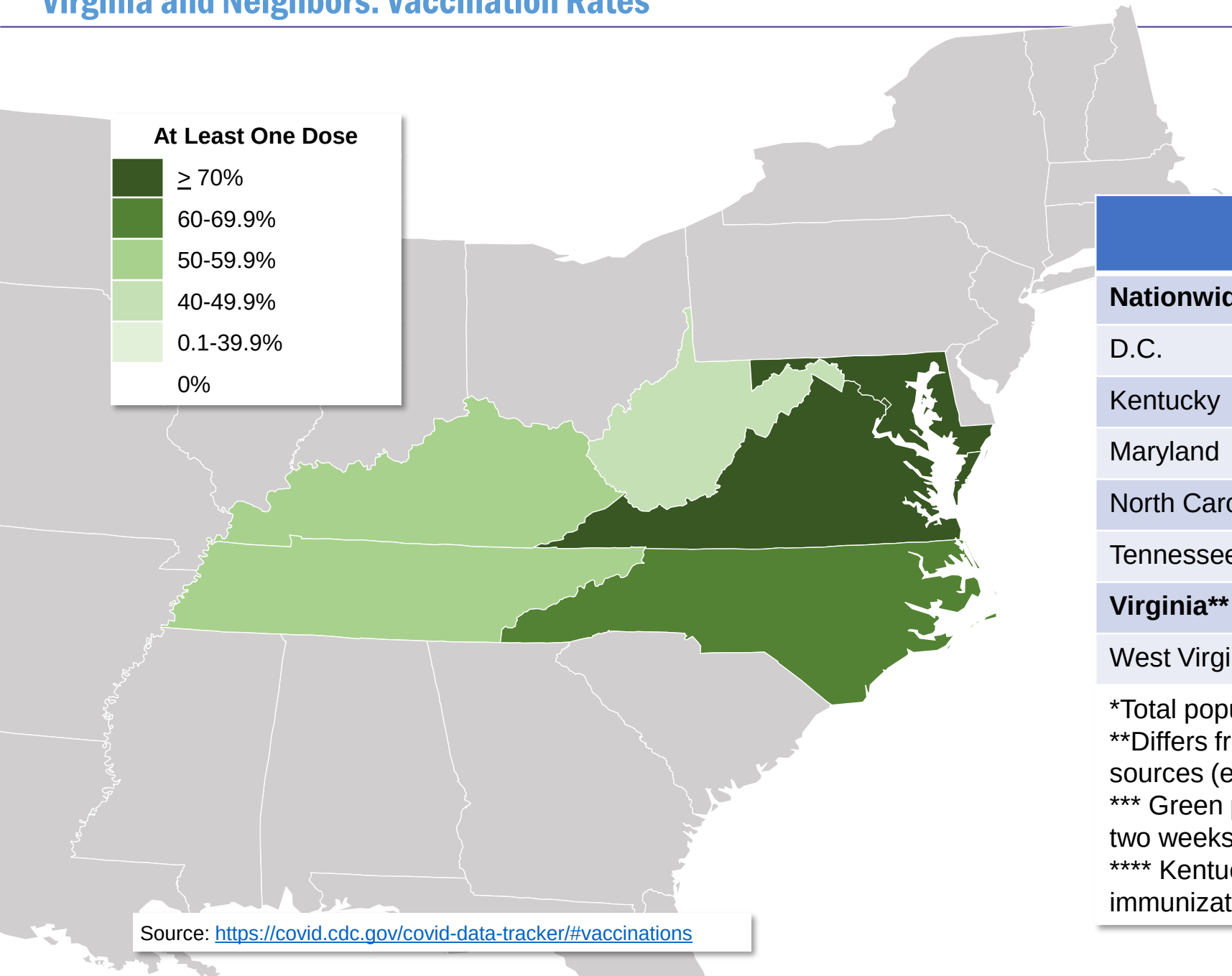
Updated 11/3



Source: [COVID-19 Vaccine Summary – Coronavirus (virginia.gov)]

Virginia and Neighbors: Vaccination Rates

Updated 11/3



Source: https://covid.cdc.gov/covid-data-tracker/#vaccinations

	At Least One Dose*	Fully Vaccinated*
Nationwide	**66.9% (+1.4%)**	**58.1% (+1.8%)**
D.C.	75.0% (+3.0%)	62.6% (+1.8%)
Kentucky	57.6% (-7.4%)	50.8% (-6.1%)
Maryland	73.1% (+1.4%)	66.3% (+1.4%)
North Carolina	64.8% (+4.0%)	52.8% (+1.7%)
Tennessee	54.7% (+1.5%)	47.8% (+1.7%)
Virginia**	**71.3% (+1.9%)**	**63.2% (+1.6%)**
West Virginia	49.0% (+0.6%)	41.0% (+0.2%)

*Total population, includes out-of-state vaccinations
**Differs from previous slide because all vaccination sources (e.g., federal) are included
*** Green percent represents percent increase from two weeks prior
**** Kentucky adjusted first dose rates due to some immunizations being counted twice