

# **Pathogen Genomics Center of Excellence Situation Report**

2024-04-26

#### **Key Findings**

- Current data reflects a mixture of JN.1 descendents as the likely near term variants.
- Globally no other variants with unusual characteristics have been identified as having unusual growth.
- Some other point

Please see Situation Updates for COE group updates

### **Situation Update Details**

- Based on what XYZ(?), JN.1 and descendents continue to dominate. Some recombinations from JN.1 and other BA.5 variants are being monitoredtracked, but have yet to show significant growth relative other variants.
- Together this diversity suggests steady evolution against general population immunity with no indications of a variant driven wave of COVID-19 infections.
- As of 2024-04-30, there were X samples from MM/DD/YYYY MM/DD/YYYY, some comment on trend
- Some text here about image one. There is this variant that's here
- Some text about image two
- Image 3 has this
- Findings from a site's analysis of national data

#### Statewide COVID-19 Variants: Last 12 Weeks

Percent of genetic mutations (or variants) of the COVID-19 virus by lineage for the past 6 weeks.

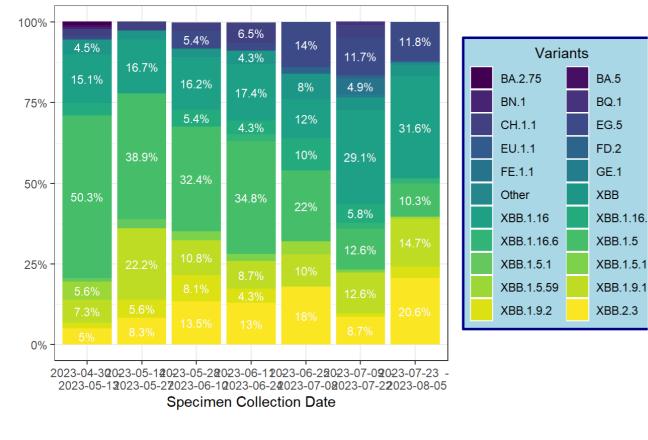
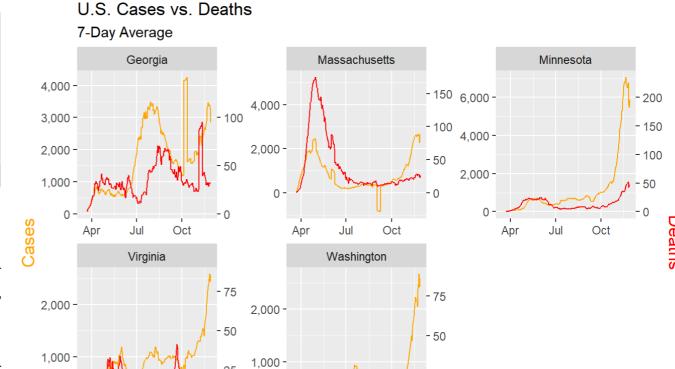


Figure 1: Proportion of variants by year.

#### Site Summaries

- Washington State Department of Health highest variant proportion is 50%
- Georgia Department of Public Health probablity of detection: 60 and the consensus genomes are uploaded to public repositories like GISAID and GenBank.
- Massachusetts Department of Health prop 50
- Virginia Deparment of Health 60%



Source: NY Times. Arthur Steinmetz

Figure 2: From the New York Times: A couple of observations are obvious. First when cases start to rise, deaths follow with a lag. Second, we have had three spikes in cases so far and in each successive instance the mortality has risen by a smaller amount. This suggests that, thankfully, we are getting better at treating this disease. It is NOT a function of increased testing because positivity rates have not been falling.

**Date** 

# Fatality Rates are Creeping Up Fatality Rate as a Percentage of Lagged Cases

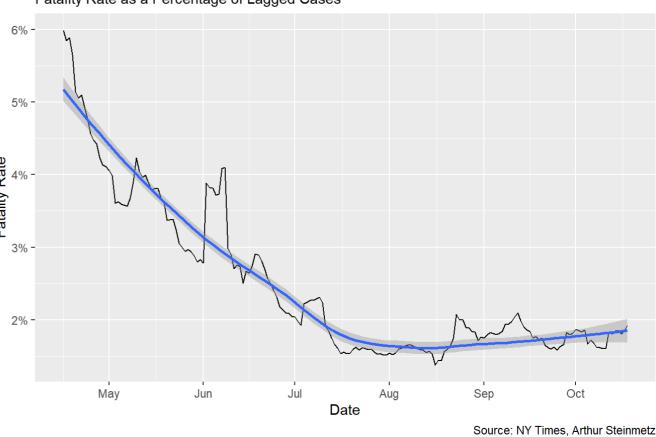


Figure 3: COVID-19 fatalities, outputs from New York Times modeling.

#### **Citations**

This is a simple placeholder for the manuscript's main document [1].

Figure 1 code source

Figure 2 code source

Figure 3 code source

main article code source

## **Bibliography**

[1] D. E. Knuth, "Literate Programming", *Comput. J.*, vol. 27, no. 2, p. 97, May 1984, doi: 10.1093/comjnl/27.2.97.