



NEW VARIANTS OF COVID-19

TYPES (1)

*United Kingdom- Variant B.1.1.7

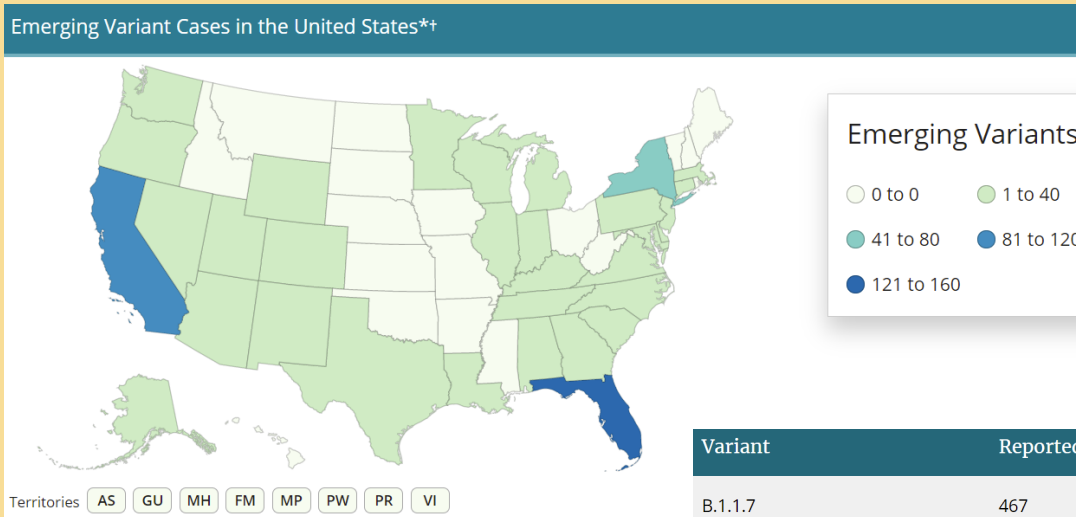
*South Africa- Variant B.1.351

*Brazil- Varian P.1

*All 3 Variants have been detected in the United States

DETAILS ON THE VARIANTS (1)

- The B.1.1.7 Variant was first detected in the US at the end of December 2020.
- The B.1.351 Variant was first detected in the US at the end of January 2021.
- The P.1 Variant was identified in Brazilians that traveled to Japan in early January 2021 and was detected in the US at the end of January 2021.
- All 3 variants appear to spread faster and easier than other variants out there.



DATA (2)

Variant	Reported Cases in US	Number of States Reporting
B.1.1.7	467	32
B.1.351	3	2
P.1	1	1

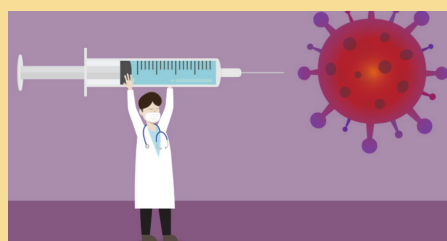
HOW THE VARIANTS OCCUR (3)

- Virus mutations occur as human and animal infections continue to increase.
- The mutations occur on the virus's spike proteins as either a substitution or deletion in its genes. This is an adaptable mechanism for the organism to survive.

UNANSWERED QUESTIONS (1)

- How widely these variants are spread.
- How the disease caused by these new variants differs from the disease caused by other variants that are currently circulating.
- How these variants may affect existing therapies, vaccines, and tests.

PREVENTIVE MEASURES (4,5,6)



SOURCE:

1. <https://www.cdc.gov/coronavirus/2019-ncov/transmission/variant.html>
2. <https://www.cdc.gov/coronavirus/2019-ncov/transmission/variant-cases.html>
3. <https://www.hopkinsmedicine.org/health/conditions-and-diseases/coronavirus/a-new-strain-of-coronavirus-what-you-should-know>
4. <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/index.html>
5. <https://www.clorox.com/resources/coronavirus/whats-the-difference-between-cleaning-sanitizing-and-disinfecting/>
6. <https://www.heart.org/en/news/2020/07/17/hopes-for-quick-covid-19-vaccine-rest-on-innovations-collaborations>

