

# **COVID-19 Update**

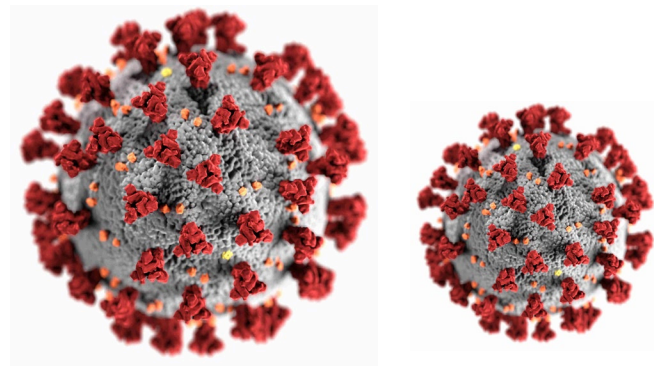
**Dr Mark Cunningham-Hill**

Medical Director, NEBGH

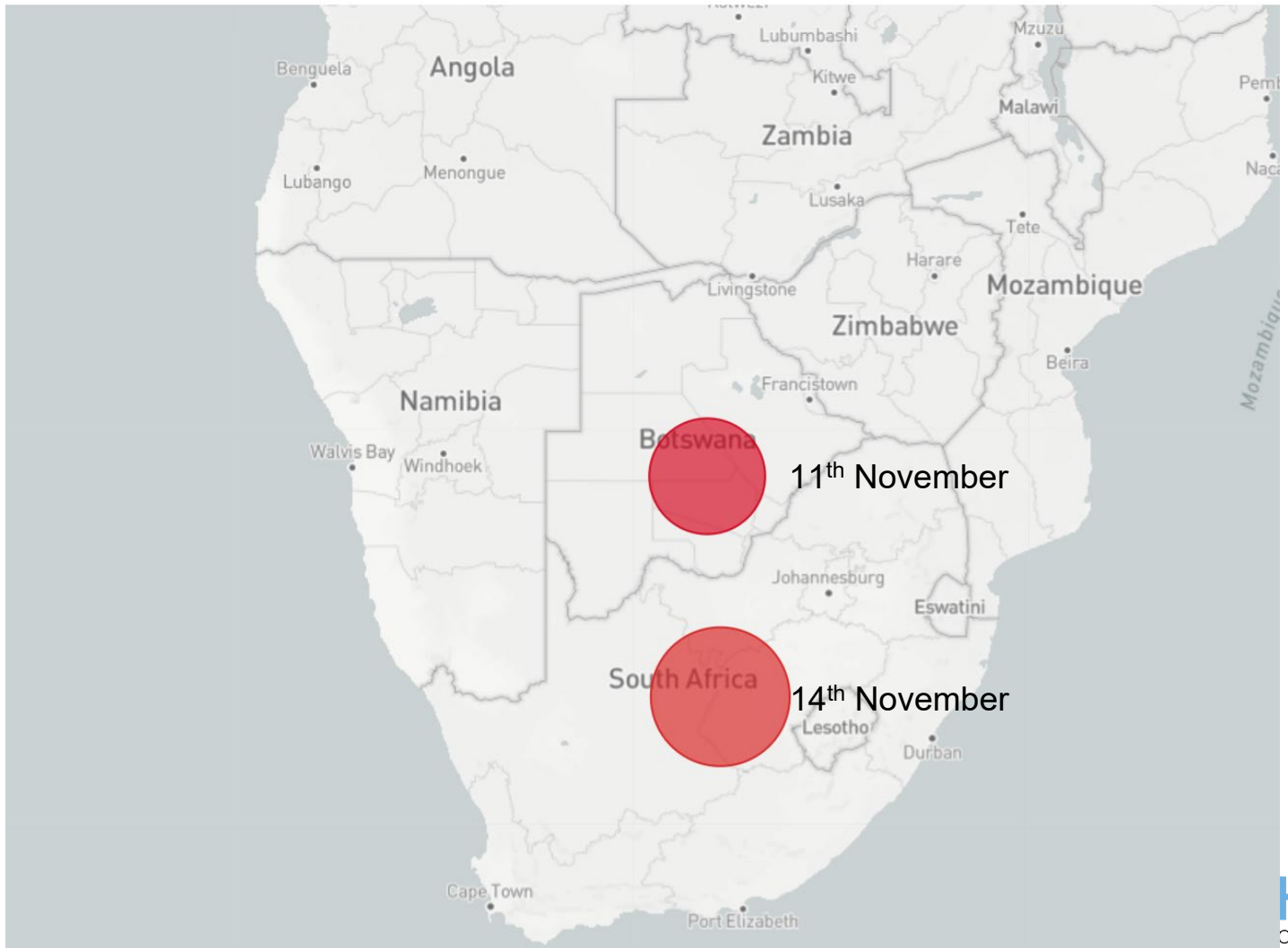
Monday, November 29<sup>th</sup> 2021

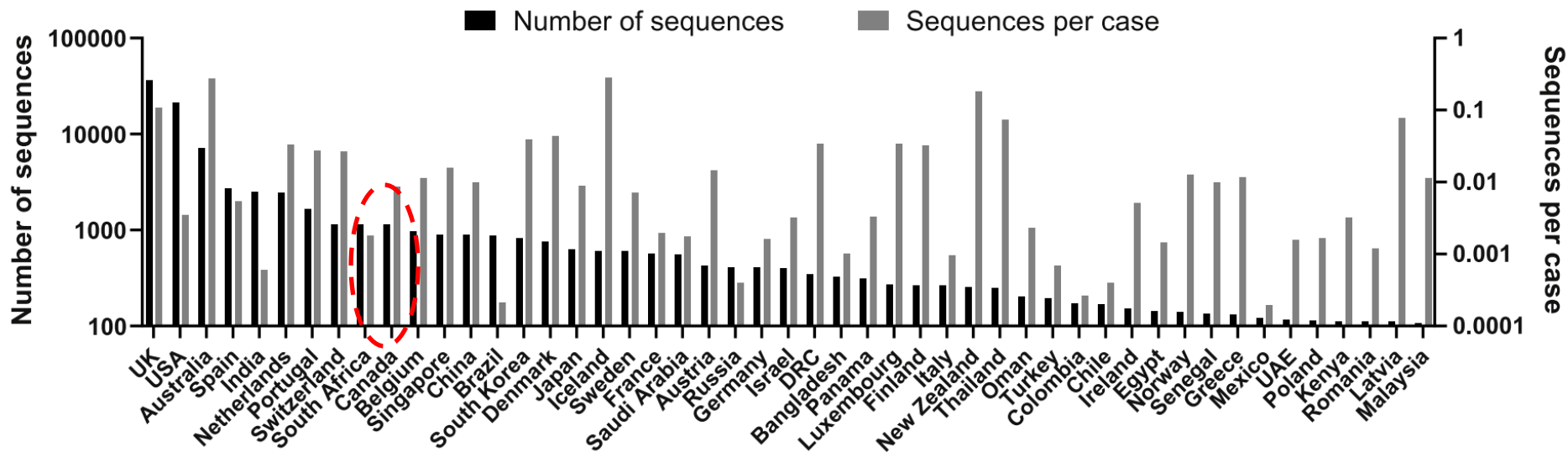
Oo

Omicron



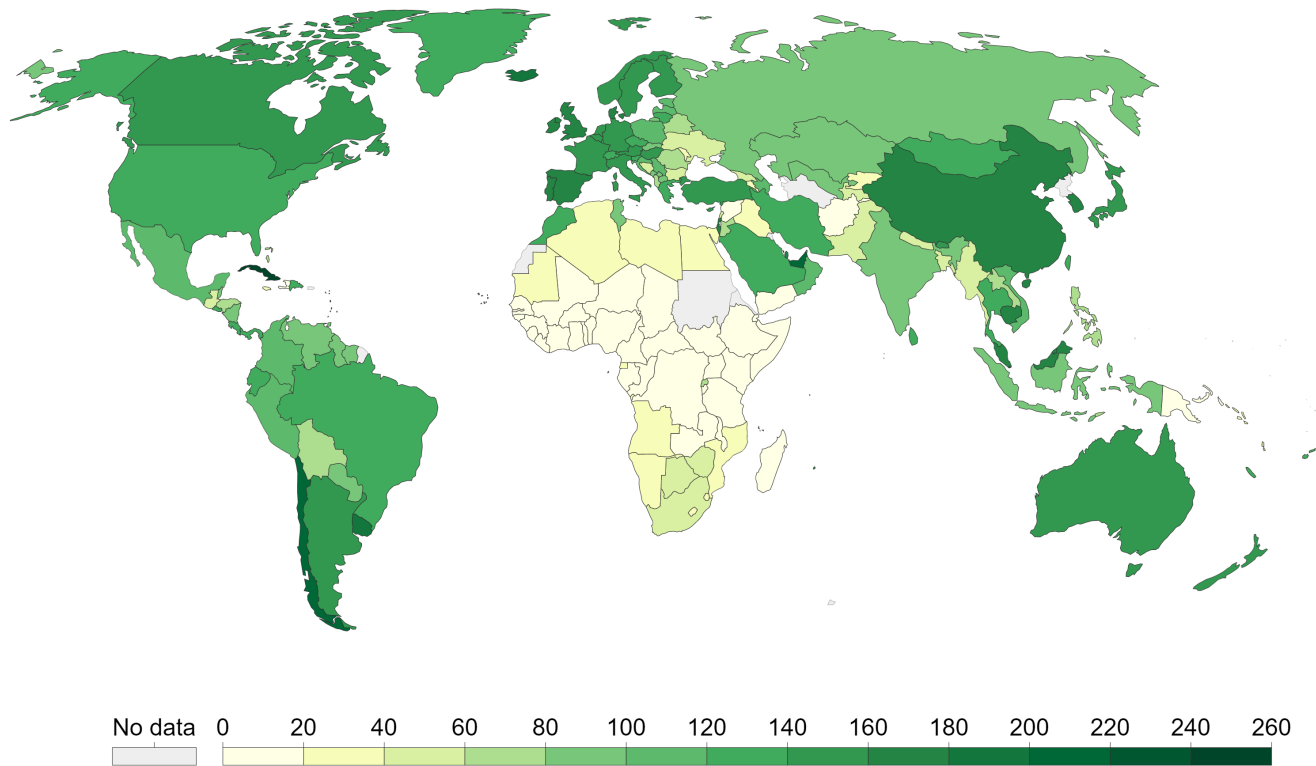
B.1.1.529





# COVID-19 vaccine doses administered per 100 people

All doses, including boosters, are counted individually. As the same person may receive more than one dose, the number of doses per 100 people can be higher than 100.



Source: Official data collated by Our World in Data – Last updated 28 November 2021, 11:30 (London time)  
[OurWorldInData.org/coronavirus](https://OurWorldInData.org/coronavirus) • CC BY

# Phylogeny

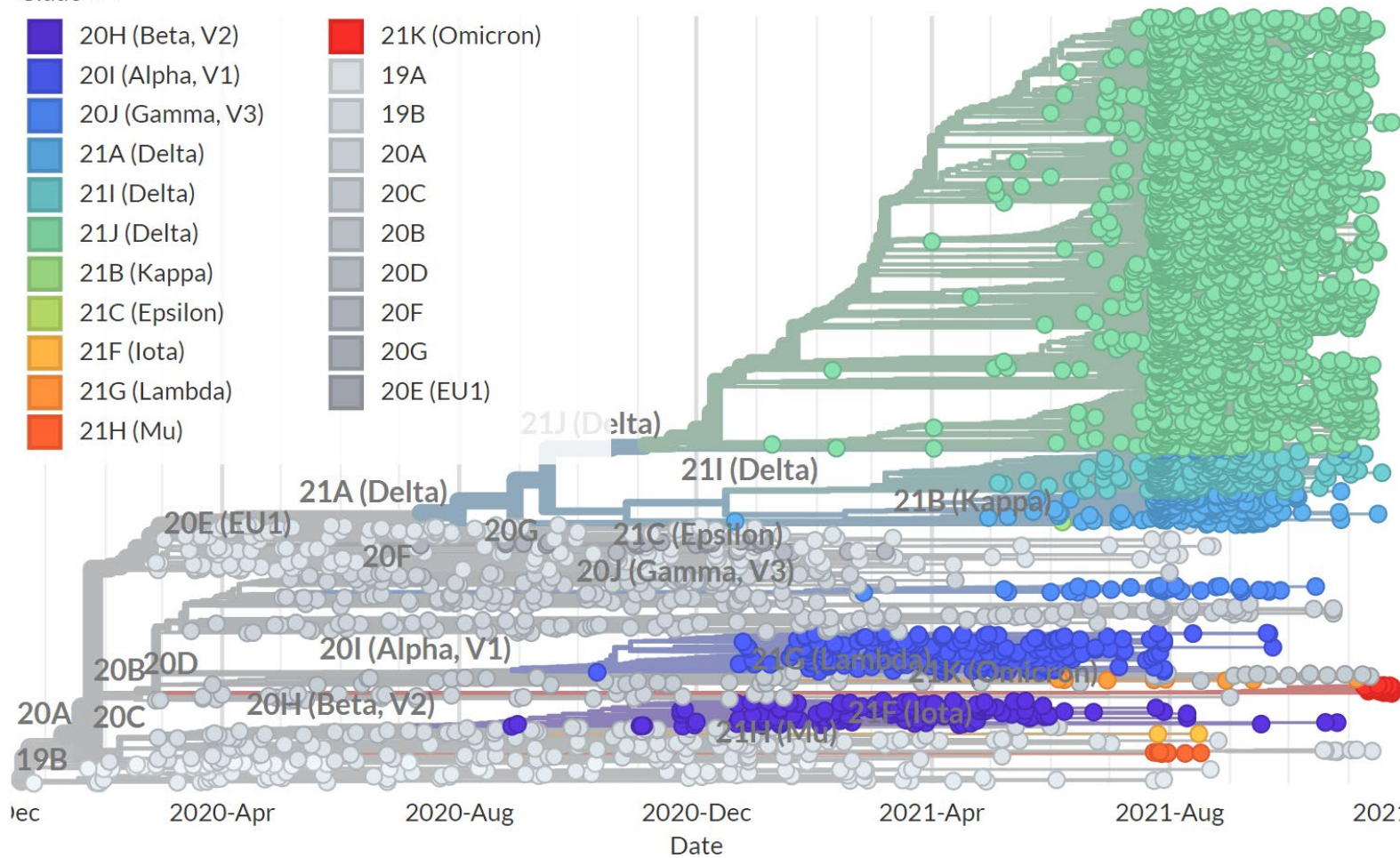


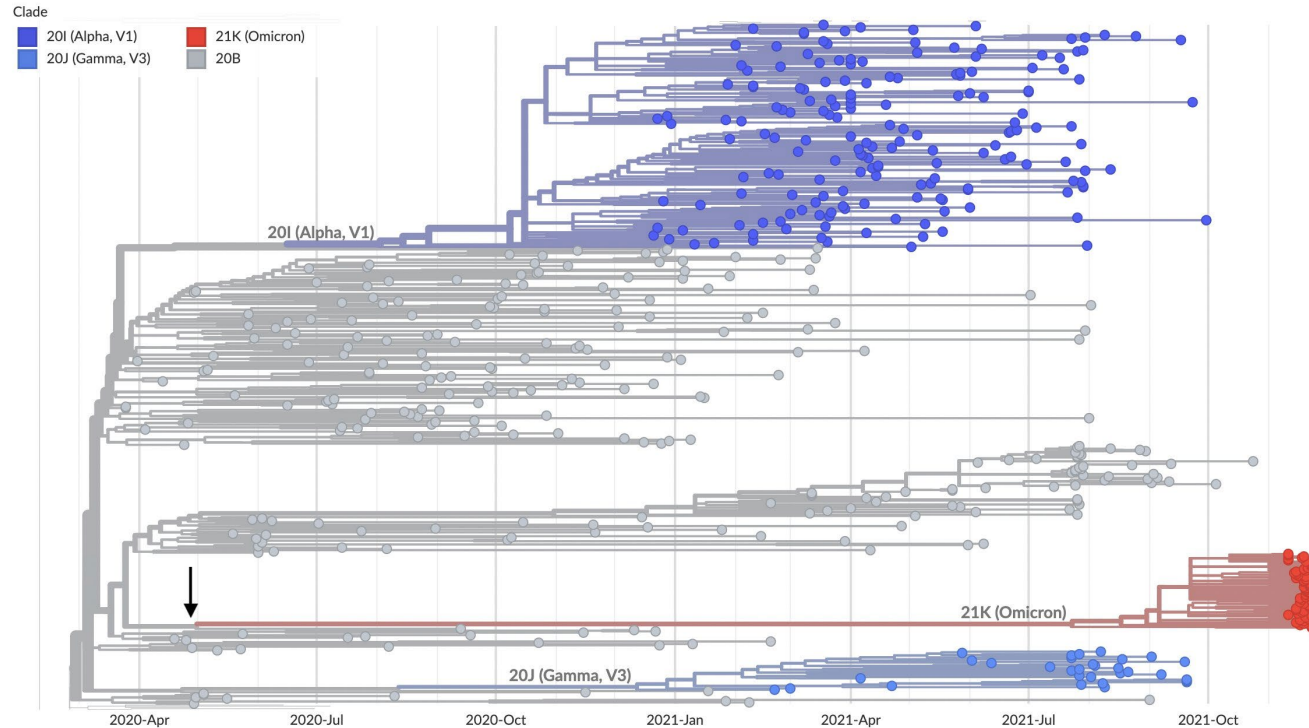
ZOOM TO SELECTED

RESET LAYOUT

Clade ^

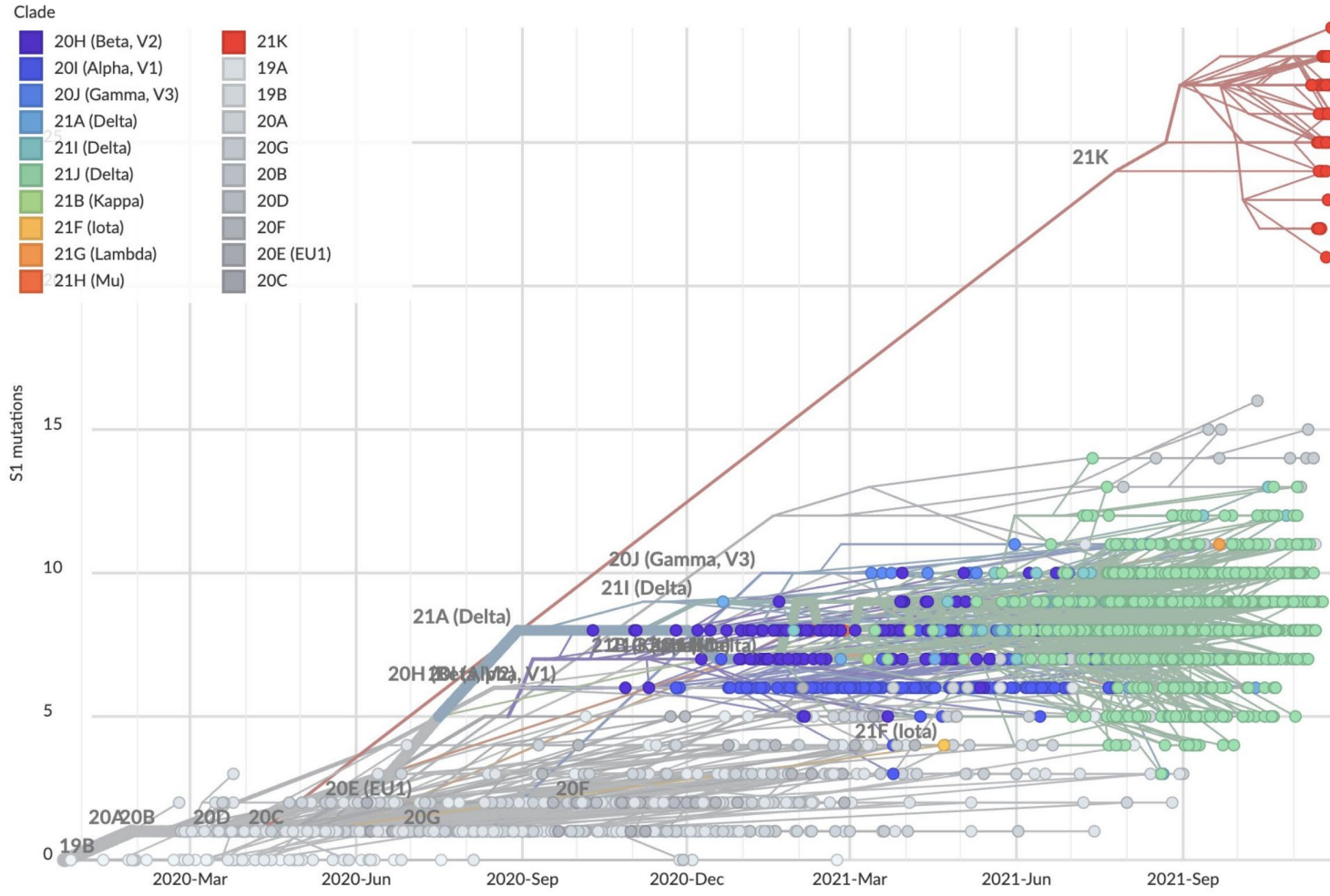
- |                 |               |
|-----------------|---------------|
| 20H (Beta, V2)  | 21K (Omicron) |
| 20I (Alpha, V1) | 19A           |
| 20J (Gamma, V3) | 19B           |
| 21A (Delta)     | 20A           |
| 21I (Delta)     | 20C           |
| 21J (Delta)     | 20B           |
| 21B (Kappa)     | 20D           |
| 21C (Epsilon)   | 20F           |
| 21F (Iota)      | 20G           |
| 21G (Lambda)    | 20E (EU1)     |
| 21H (Mu)        |               |





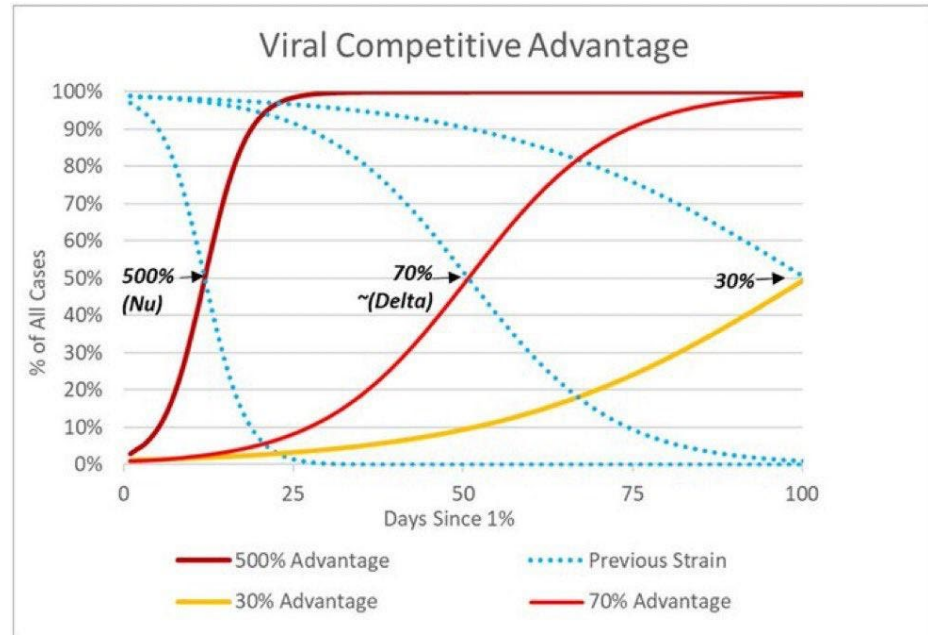
- This extremely long branch (>1 year) indicates an extended period of circulation in a geography with poor genomic surveillance
- Or continual evolution in a chronically infected individual before spilling back into the population





# What we don't know - yet

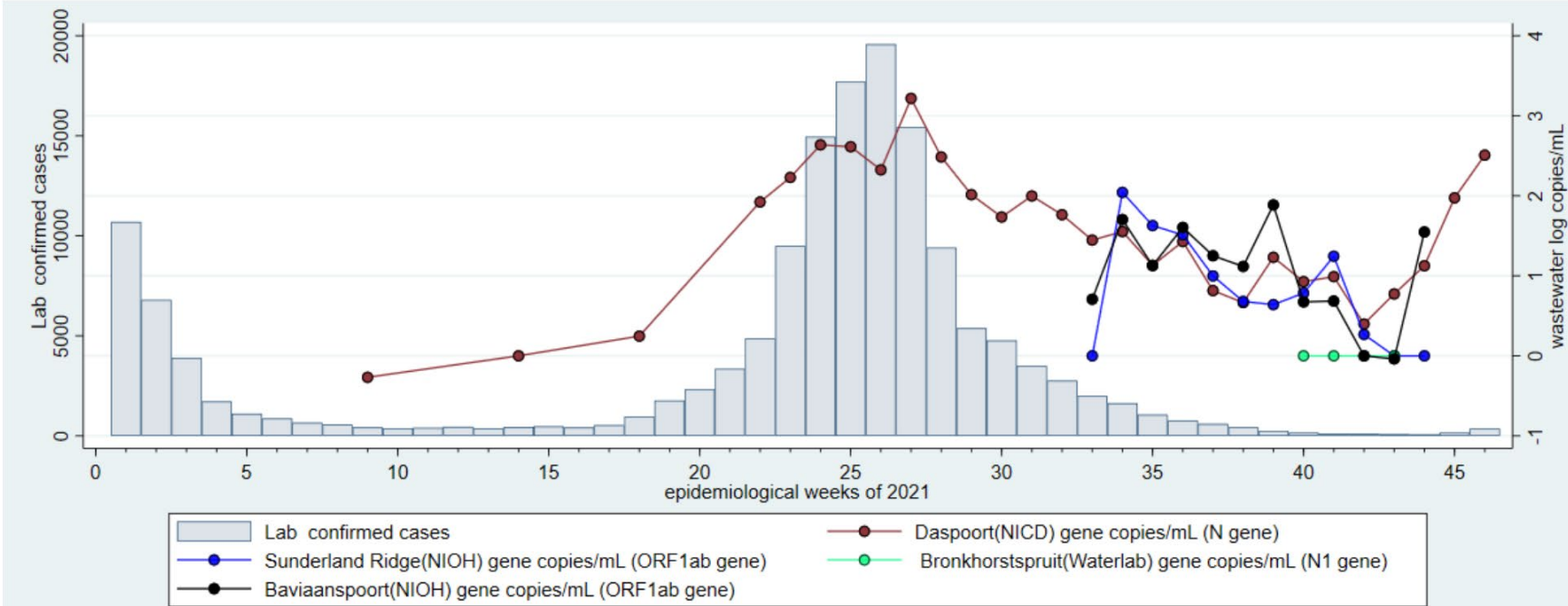
- **Transmissibility:** It is not yet clear whether Omicron is more transmissible (e.g., more easily spread from person to person) compared to other variants, including Delta.



# Gauteng Province

## A: City of Tshwane South (sub-districts 3, 4, 6, and 7)

A



# What we don't know - yet

- **Severity of disease:** It is not yet clear whether infection with Omicron causes more severe disease compared to infections with other variants:
  - Preliminary data suggests that cases from Omicron have been mild even in unvaccinated individuals
  - However, there are increasing rates of hospitalization in South Africa, but this may be due to increasing overall numbers of people becoming infected, rather than a result of specific infection with Omicron.
  - There is currently no information to suggest that symptoms associated with Omicron are different from those from other variants.
  - Initial reported infections were among university students—younger individuals who tend to have more mild disease
  - All variants of COVID-19 can cause severe disease or death, in particular for the most vulnerable people, and thus prevention is always key.

# What we don't know - yet

- **Effectiveness of prior SARS-CoV-2 infection**

- Preliminary evidence suggests there may be an increased risk of reinfection with Omicron (ie, people who have previously had COVID-19 could become reinfected more easily with Omicron), as compared to other variants of concern, but information is limited. More information on this will become available in the coming days and weeks.

- **Effectiveness of vaccines:**

- WHO, Researchers and Vaccine industry are working to understand the potential impact of this variant on vaccines.
- Vaccines remain critical to reducing severe disease and death, including against the dominant circulating variant, Delta.
- Current vaccines remain effective against severe disease and death.

- **Effectiveness of current treatments:**

- Corticosteroids and antivirals will likely still be effective
- Monoclonal antibodies are being assessed to see if they are still as effective given the changes to parts of the virus in the Omicron variant.

# What we don't know - yet

- **Effectiveness of current tests:**

- PCR tests continue to detect infection, including infection with Omicron
  - Causes S-gene dropout – failure to detect 1 of the 3 target genes – potential surrogate marker for Omicron
- A nucleotide deletion at position 9 which some rapid antigens look for:
  - Studies are ongoing to determine whether there is any impact on other types of tests, including rapid antigen detection tests.

# Known or suspected cases of Omicron variant (28 Nov 2021)

Locally acquired Travel associated

- Possible local transmission in Belgium and Hong Kong
- 13 out of 61 passengers arriving from S Africa in the Netherlands tested positive for Omicron

# My Thoughts

- Don't panic!
- We will know a lot more in the coming days
- Organizations:
  - Cautious approach to international travel
  - Watch and wait to see what the data on Omicron is before making any big announcements on changing ways/places of work
  - Encourage or mandate where possible vaccinations
  - Consider how boosters are included as part of the definition of 'fully vaccinated'
  - Continue or review masking policies
  - Maintain the ventilation systems
- Individuals:
  - Get vaccinated; Get your booster
  - Wear a mask in public places, especially indoors
  - Cautious approach to international travel

The background of the slide features several large, detailed, red coronavirus particles. These particles are spherical with a textured surface and are covered in numerous protruding, cone-shaped spikes. The particles are set against a dark red, slightly blurred background, with some particles appearing more prominent than others.

# Questions

## Upcoming NEBGH virtual events:

- **Dec. 6** – Monday COVID-19 Update w/ Dr. Mark
- **Dec. 9** - Pharmacy Benefits Strategies for Now - and Later
- **Dec. 16** – 27<sup>th</sup> Annual Tribute to Leadership