

The delta variant in Sri Lanka assigned a new sub-lineage

The Allergy Immunology and Cell Biology Unit, Department of Immunology and Molecular Medicine have been carrying out sequencing of the SARS-CoV-2 viruses since the onset of the pandemic. With the identification of the delta variant in Sri Lanka, they also detected a delta variant with several unique mutations in the spike protein (A701S, A222V, A1078S).

This delta variant with mutations has now been assigned a new lineage AY.28 and this delta variant is now names as B.1.617.2.28 Sri Lankan lineage. This AY.28 sub lineage that was initially detected during late May 2021, subsequently accounted for approximately 50-60% of the infections in the Western Province. Further investigations to characterize this sub-lineage is underway.

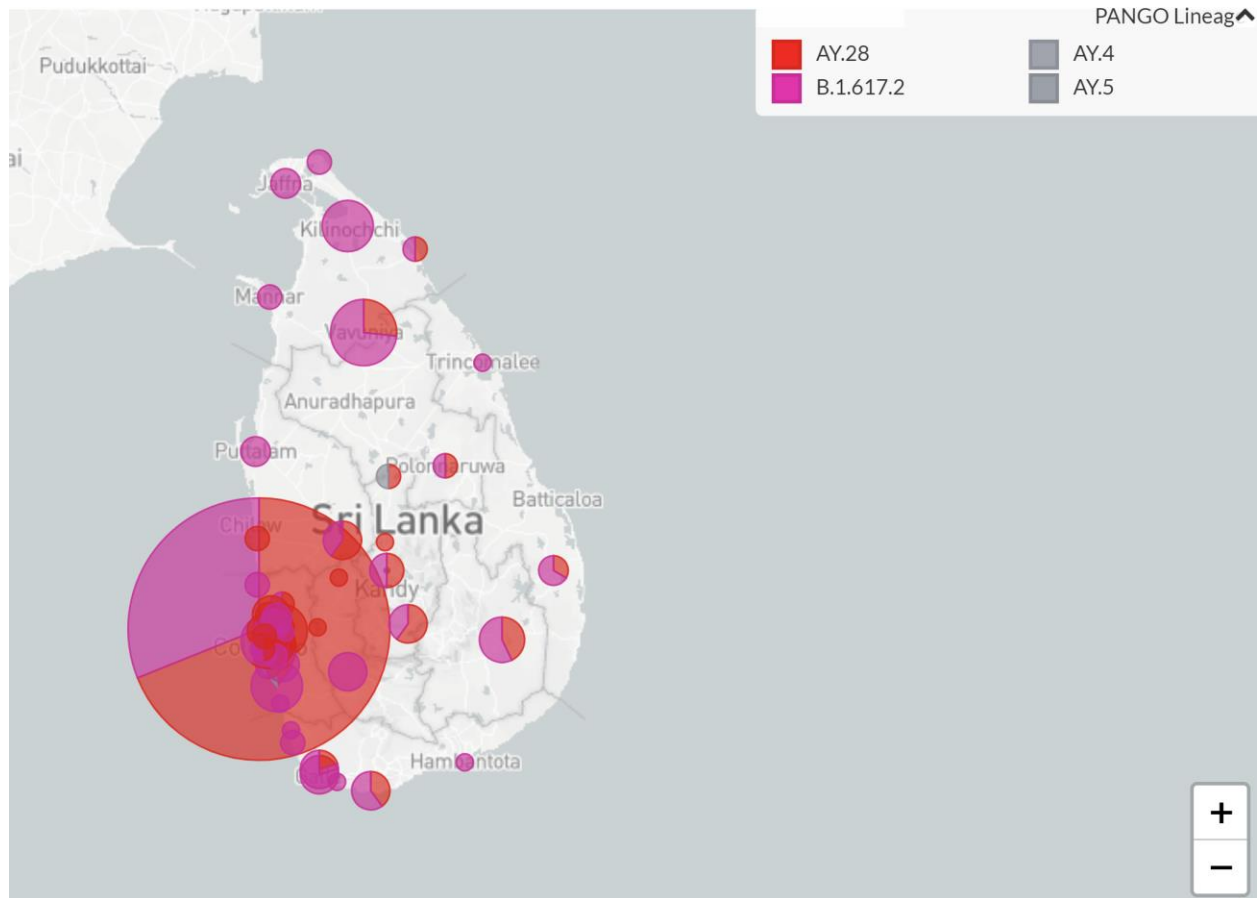


Figure 1: The cumulative prevalence of AY.28 delta sub lineage in different regions in Sri Lanka.

Cumulative Prevalence

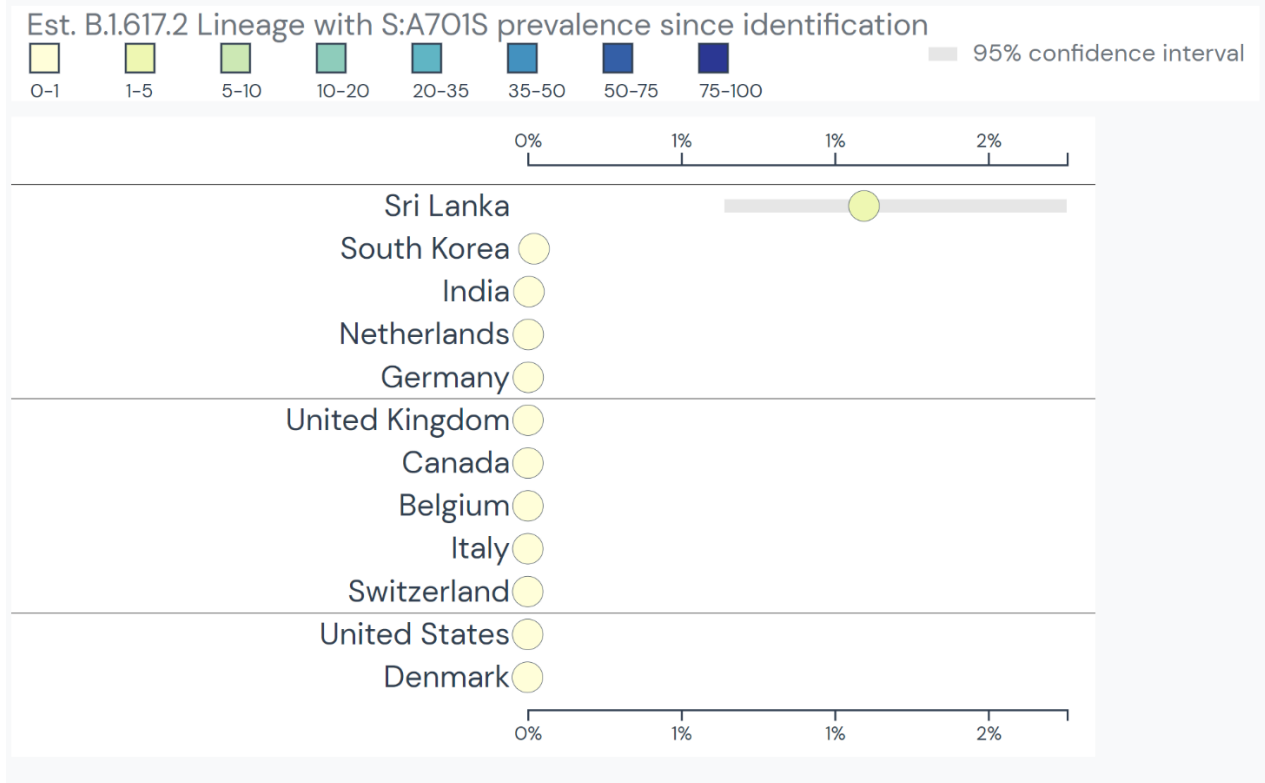


Figure 2: Locations where this particular delta variant is detected.

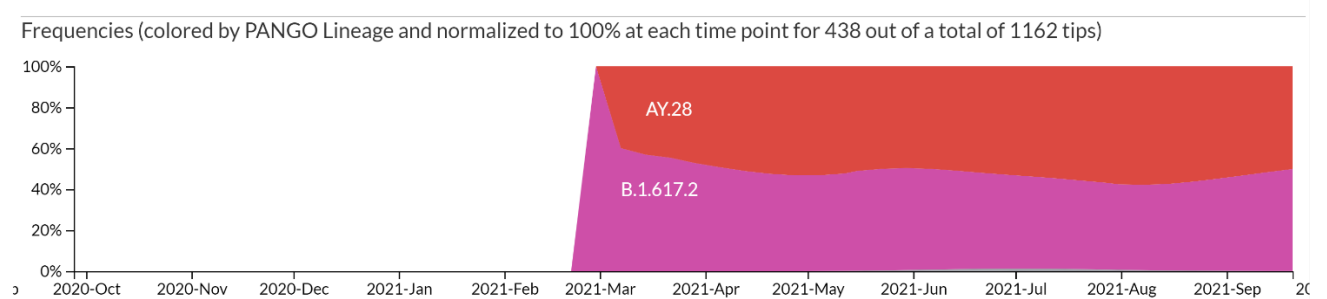


Figure 3: The relative frequency of detection of AY.28 delta sub lineage in comparison to other delta sub-lineages in Sri Lanka

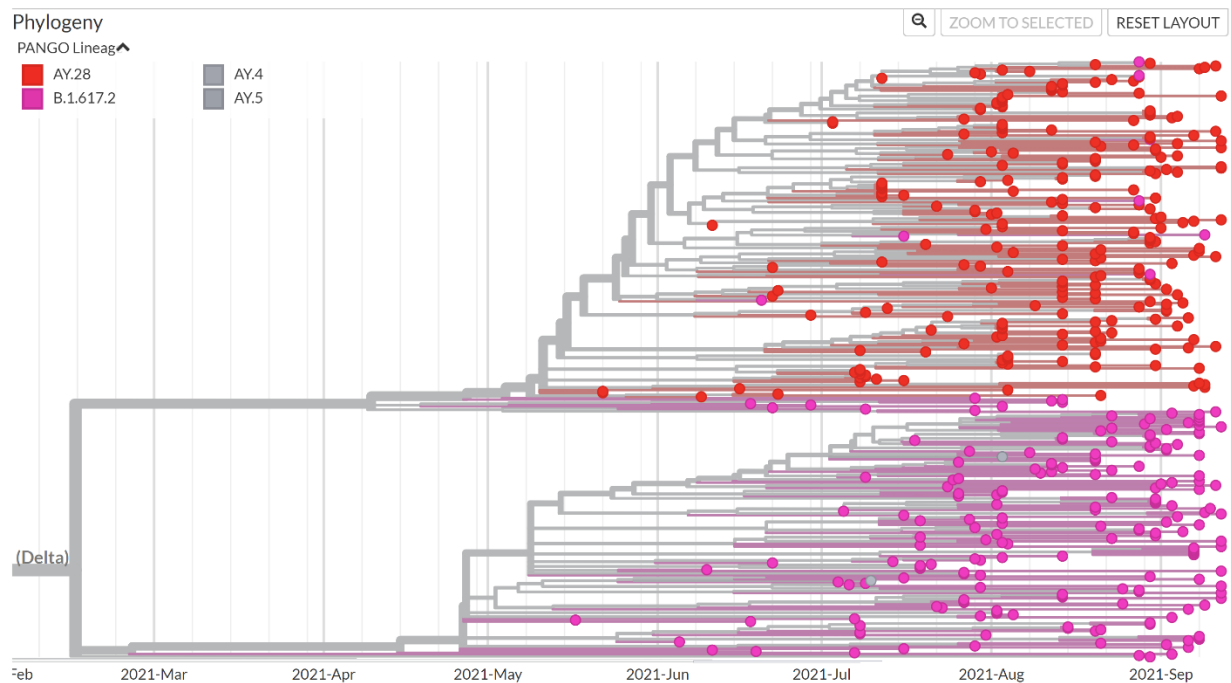


Figure 4: Phylogenetic tree of the delta variants and sub lineages detected in Sri Lanka

References

B.1.617.2 Lineage with S:A701S Report. Alaa Abdel Latif, Julia L. Mullen, Manar Alkuzweny, Ginger Tsueng, Marco Cano, Emily Haag, Jerry Zhou, Mark Zeller, Emory Hufbauer, Nate Matteson, Chunlei Wu, Kristian G. Andersen, Andrew I. Su, Karthik Gangavarapu, Laura D. Hughes, and the Center for Viral Systems Biology. outbreak.info, (available at https://outbreak.info/situation-reports?pango=B.1.617.2&mutts=S%3AA701S&loc=USA&loc=USA_US-CA&loc=LKA&selected=Worldwide&overlay=false). Accessed 26 September 2021.