3rd March 2023

COVID-19 Genomics Insights Dashboard (CGID) #34

The COVID-19 genomics insights dashboard (CGID) provides a public and high-level overview of viral genomic surveillance across Aotearoa New Zealand. It aims to explain how whole-genome sequencing (WGS) complements other epidemiological data to support public health decision-making. As SARS-CoV-2, the virus that causes COVID-19, continues to adapt, mutate, and spread, the CGID reports trends and insights gained by our WGS surveillance programme here in Aotearoa New Zealand, and abroad.

Summary Infographics & Insights:





Northland, Bay of Plenty, and the East Coast, and caused their exclusion from the report, resulting in underrepresentation in these regions A complex mixture of immune-evasive variants is

- A complex mixture of immune-evasive variants is circulating Aotearoa New Zealand with no single dominant lineage
- The XBB subvariant continues to grow as a proportion of all cases. The XBB.1.5 lineage accounts for 17% of all sequenced cases in the reporting period
- CH.1.1 (a BA.2.75* group derivative) is the most common variant (42% of cases), followed by XBB, XBF, and other BA.2.75 lineages
- Wastewater analysis showed XBB (including XBB.1.5) at 35%, CH.1.1 at 33%, and BA.2.75* at 24%. Minor contributions were BQ.1.1 (2%), BA.4/BA.5 (1%), and XBC (5%).

The CGID report is produced 'at pace' by ESR in collaboration with Massey University, University of Auckland, and University of Otago. Data & insights are subject to change and correction



Figure 1: Frequency of SARS-CoV-2 variants in the New Zealand community each week (for the past 16 weeks) as determined by whole-genome sequencing. Only variants with a frequency above 1% are shown. Data is subject to change as samples will still be added to the most recent two-week period. [The category 'unassigned' is typically where a partial genome has been recovered, and a definitive assignment to a variant is not possible].



Figure 2: Frequency XBB lineages over time. Data for CH.1.1, the most commonly tracked variant over this time, is provided for context.