

Laboratory-based Virology Weekly Report

Week 24 ending 18 June, 2023

The laboratory-based surveillance for influenza and common respiratory viruses is carried out all-year-around by the NZ virus laboratory network consisting of the WHO National Influenza Centre (NIC) at ESR and six hospital laboratories in Auckland (2), Waikato, Wellington, Christchurch and Dunedin. This laboratory network tests specimens ordered by clinicians for hospital inpatients and outpatients during normal clinical practice (serving ~70% of the NZ population). In addition, this laboratory network also conducts testing for public health surveillance, including SARI, ILI and WellKiwis (i.e. SHIVERS) cohort surveillance.

Caution is needed in the interpretation: 1) Sample collection is ordered by clinicians based on clinical judgement for patient management, rather than a systematic sampling approach for surveillance; 2) The number of laboratory tests can be influenced by testing priorities and demands, reagent and resource availability; 3) Testing technology and instruments evolve over the years which may have contributed to improved sensitivity for detection in recent years.

Tables and Figures below show the weekly influenza and common non-influenza viruses reported from the laboratory network in 2023. (Note: SARS-CoV-2 is reported: https://nzcoviddashboard.esr.cri.nz/#!/)

Table 1. Influenza respiratory viruses reported, since 1 January 2023.

Influenza viruses	Total
No. of positive specimens	4544
Influenza A	2975
A (not subtyped)	2450
A(H1N1)pdm09	479
A(H1N1)pdm09 by PCR	397
A/Sydney/5/2021 (H1N1)pdm09-like	82
A(H3N2)	46
A(H3N2) by PCR	46
A/Darwin/6/2021 (H3N2)-like	0
Influenza B	1569
B (lineage not determined)	1370
B/Yamagata lineage	0
B/Yamagata lineage by PCR	0
B/Phuket/3073/2013-like	0
B/Victoria lineage	199
B/Victoria lineage by PCR	147
B/Austria/1359417/2021-like	52

Table 2. Non-influenza respiratory viruses reported, since 1 January 2023.

Non-influenza respiratory viruses	Total
No. of positive specimens	3923
SARS-CoV-2	57
Respiratory syncytial virus (RSV)	1728
Parainfluenza 1 (PIV1)	9
Parainfluenza 2 (PIV2)	59
Parainfluenza 3 (PIV3)	19
Rhinovirus (RV)	1221
Adenovirus (AdV)	545
Human metapneumovirus (hMPV)	177
Enterovirus	165



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RSV Parainfluenza 1 Parainfluenza 2 200 100 0 -Rhinovirus Parainfluenza 3 Adenovirus 200 100 0-Enterovirus SARS-CoV-2 Hmpv 200 100 0 10 20 30 10 20 30 10 20 30

Figure 1. Non-influenza respiratory viruses reported, since 1 January 2023, by week.

Numbers for recent weeks are updated due to time lag in receiving laboratory test results.

Week 2023

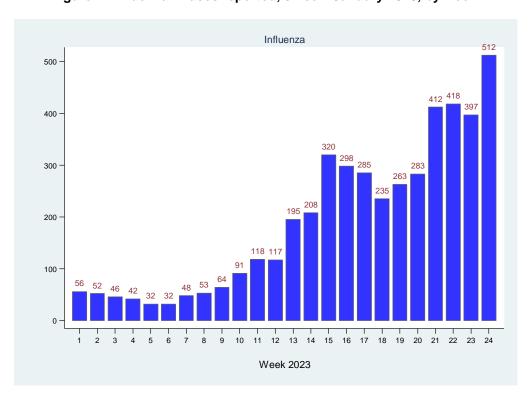


Figure 2. Influenza viruses reported, since 1 January 2023, by week.

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