Laboratory-based Virology Weekly Report

Week 28 ending 13 July 2025

The laboratory-based surveillance for influenza and common respiratory viruses is carried out all-year-around by the New Zealand virus laboratory network consisting of the WHO National Influenza Centre (NIC) at PHF Science 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 New Zealand population). In addition, this laboratory network also conducts testing for public health surveillance, including SARI, ILI and WellKiwis (i.e. SHIVERS) cohort surveillance. Furthermore, some of untyped enteroviruses, adenoviruses and respiratory syncytial viruses are referred to PHF Science for further typing.

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 2025. The latest information on COVID-19 cases is available on the Ministry of Health website here

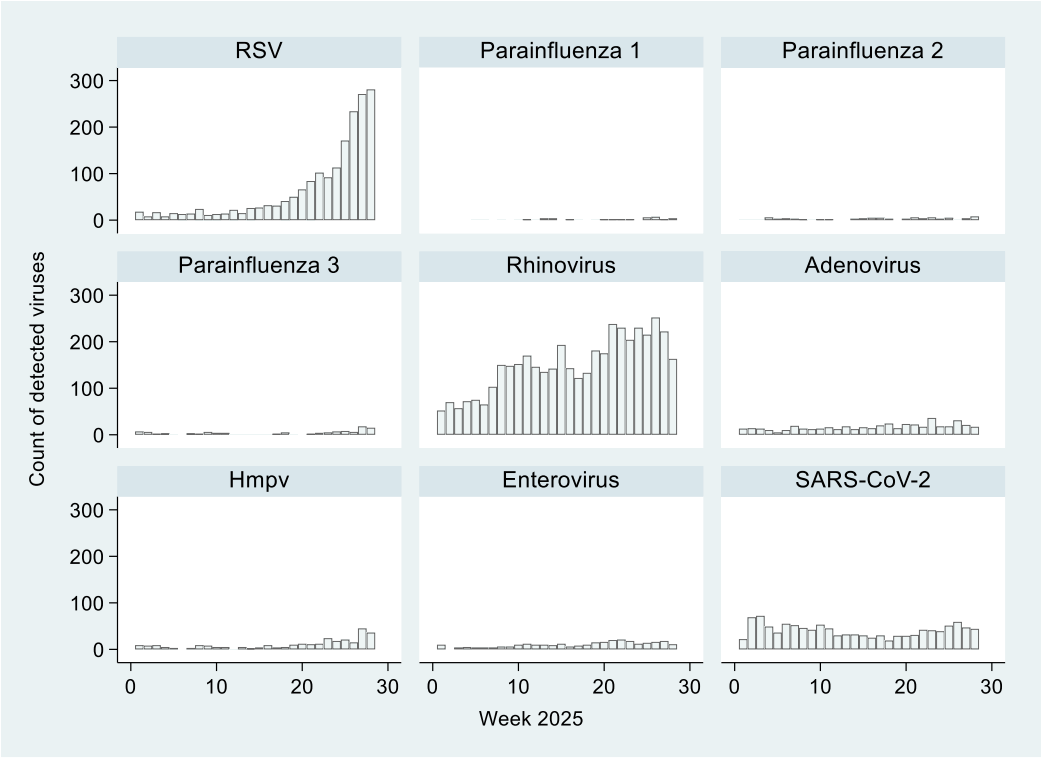
Table 1. Influenza respiratory viruses reported since 1 January 2025

Influenza viruses	Total
No. of positive specimens	3738
Influenza A	2555
A (not subtyped)	1287
A(H1N1)pdm09	987
A(H1N1)pdm09 by PCR	987
A/Victoria/4897/2022 (H1N1)pdm09-like	0
A(H3N2)	281
A(H3N2) by PCR	281
A/Croatia/10136RV/2023 (H3N2)-like	0
Influenza B	1183
B (lineage not determined)	998
B/Yamagata lineage	0
B/Yamagata lineage by PCR	0
B/Phuket/3073/2013-like	0
B/Victoria lineage	185
B/Victoria lineage by PCR	185
B/Austria/1359417/2021-like	0

Table 2. Non-influenza respiratory viruses reported since 1 January 2025

Non-influenza respiratory viruses	Total
No. of positive viruses	8510
SARS-CoV-2	1151
Respiratory syncytial virus (RSV)	1813
Parainfluenza 1 (PIV1)	46
Parainfluenza 2 (PIV2)	86
Parainfluenza 3 (PIV3)	116
Rhinovirus (RV)	4238
Adenovirus (AdV)	471
Human metapneumovirus (hMPV)	298
Enterovirus	291

Figure 1. Non-influenza respiratory viruses reported since 1 January 2025, by week



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

Figure 2. Influenza viruses reported since 1 January 2025, by week

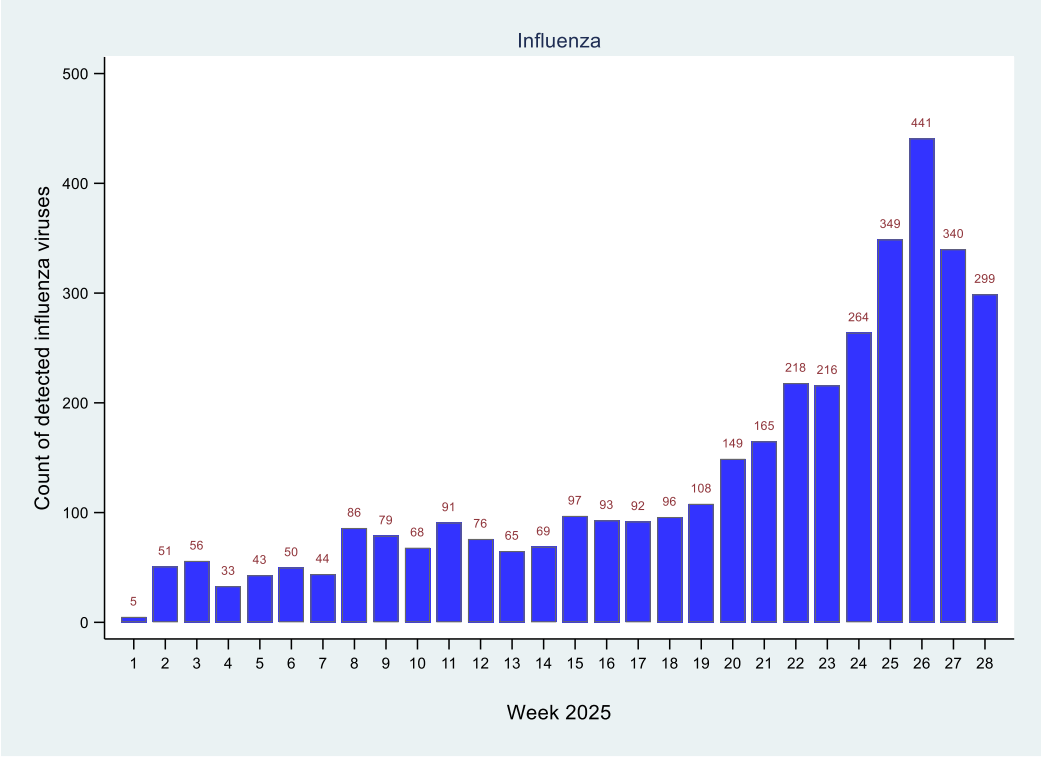


Table 3. Number of adenovirus types since 1 January 2025

Adenovirus type	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Adenovirus type 1				3	1							
Adenovirus type 2				2								
Adenovirus type 4					3	1						
Adenovirus type 37		2										
Adenovirus type 40				1								
Adenovirus type 41	8	3	2	4		1						

Table 4. Number of enterovirus types since 1 January 2025

Enterovirus type	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Coxsackie A virus type 4					1							
Coxsackie A virus type 6	8	5	21	14	12	9						
Coxsackie A virus type 8			1									
Coxsackie A virus type 16						1						
Echovirus type 11			2									
Echovirus type 30						1						
Enterovirus type C105					1							

Table 5. Number of respiratory syncytial virus types reported since 1 January 2025

RSV type	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
RSV A	3	1	1	11	23	26						
RSV B	2			7	20	31						

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