

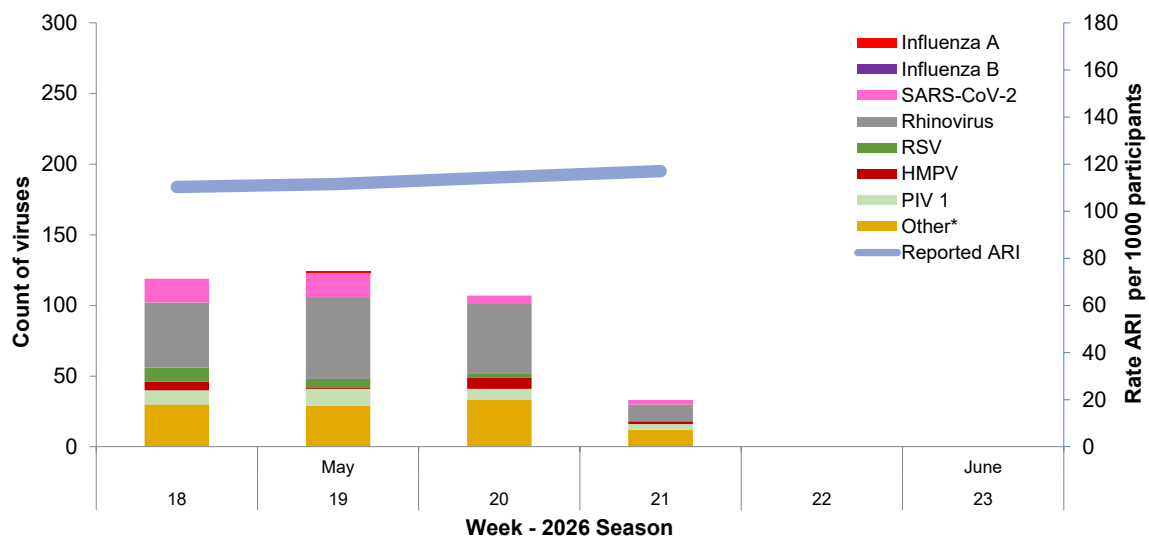


WellKiwis weekly report on acute respiratory illness and associated viruses

Week 21 ending 24 May 2026

The surveillance for community cohort-based acute respiratory illness (ARI) or influenza-like illness (ILI) provides evidence to inform public health and clinical practice and to reduce the impact of influenza virus infection and other important respiratory pathogens such as SARS-CoV-2 (causing COVID-19 infection). As part of the WellKiwis influenza study, this weekly report summarises data obtained from the WellKiwis cohorts in Wellington. The report includes incidence and viruses for community cohort ARI cases for the past week as well as the cumulative period since 27 April 2026.

Figure 1 shows the weekly rate of acute respiratory illness (ARI) and associated viruses detected among the WellKiwis cohort participants during the study period.



Note: other viruses include enterovirus, adenovirus and parainfluenza virus types 2 and 3. The left axis indicates number of respiratory viruses detected among participants each week. The different coloured bars on the graph represent the count of the different respiratory viruses detected. The right axis shows weekly ARI rates - the blue line is the weekly rate of ARI reported by participants (per 1000). (Note: The case definition¹ in 2020–2026 has been widened compared to previous years, 2018–2019. This is to increase the sensitivity to detecting influenza as well as SARS-CoV-2 that causes COVID-19 infection). X-axis is based on the date of symptom onset.

The case definition in 2020–26: acute respiratory illness (ARI) with fever or feverishness and/or one of following symptoms (cough, running nose, wheezing, sore throat, shortness of breath, loss of sense of smell/taste) with onset in the past 10 days). And a clinician's judgement that the illness is due to an infection. The case definition in 2018 and 2019: influenza-like illness (ILI) with cough and fever/measured fever of $\geq 38^{\circ}\text{C}$ and onset within the past 10 days).



The WellKiwis cohort is an excellent platform to understand incidence, risk factors and household transmission caused by influenza and other respiratory viruses in our community.

Tables 1 and 2 below indicate all swabs tested for influenza and other non-influenza respiratory viruses from week 18 (starting 27 April) to this week.

Table 1. Non-influenza respiratory viruses among ARI cases, since 27 April 2026

<i>Non-influenza respiratory viruses</i>	WellKiwis Households	Wellkiwis Adults	WellKiwis Infants	Total
No. of specimens tested	350	35	230	615
No. of positive specimens (%) ¹	164 (46.9)	14 (40.0)	153 (66.5)	331 (53.8)
Respiratory syncytial virus (RSV)	6	0	13	19
Parainfluenza 1 (PIV1)	11	0	23	34
Parainfluenza 2 (PIV2)	4	0	5	9
Parainfluenza 3 (PIV3)	0	0	1	1
Rhinovirus (RV)	93	13	59	165
Adenovirus (AdV)	15	0	21	36
Human metapneumovirus (HMPV)	9	0	8	17
Enterovirus	31	2	25	58
SARS-CoV-2	18	0	25	43
Single virus detection (% of positives)	141 (86.0)	13 (92.9)	126 (82.4)	280 (84.6)
Multiple virus detection (% of positives)	23 (14.0)	1 (7.1)	27 (17.6)	51 (15.4)

¹ Positive specimens may be positive for more than one virus

Table 2. Influenza respiratory viruses among ARI cases, since 27 April 2026

<i>Influenza viruses</i>	WellKiwis Households	Wellkiwis Adults	WellKiwis Infants	Total
No. of specimens tested	350	35	231	616
No. of positive specimens (%) ¹	1 (0.3)	0 (0.0)	0 (0.0)	1 (0.2)
Influenza A	1	0	0	1
A (not subtyped)	0	0	0	0
A(H1N1)pdm09	1	0	0	1
A(H1N1)pdm09 by PCR	1	0	0	1
A/Missouri/11/2025 (H1N1)pdm09-like virus	0	0	0	0
A(H3N2)	0	0	0	0
A(H3N2) by PCR	0	0	0	0
A/Singapore/GP20238/2024 (H3N2)-like virus	0	0	0	0
Influenza B	0	0	0	0
B (lineage not determined)	0	0	0	0
B/Yamagata lineage	0	0	0	0
B/Yamagata lineage by PCR	0	0	0	0
B/Phuket/3073/2013 – like virus	0	0	0	0
B/Victoria lineage	0	0	0	0
B/Victoria lineage by PCR	0	0	0	0
B/Austria/1359417/2021-like virus	0	0	0	0
Influenza and non-influenza co-detection (% +ve)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)

¹ Positive specimens may be positive for more than one virus

Note: The PCR positive cases only include those participants with acute respiratory illnesses.



Table 3 below indicates the demographic status of ARI and influenza infection among WellKiwis participants.

Table 3. Demographic status of ARI and influenza infection, since 27 April 2026

Characteristics	ARI cases among WellKiwis participants		Influenza cases among WellKiwis participants	
	ARI Cases	ARI incidence (per 100)	Influenza Cases	Influenza incidence (per 100)
Overall	1216	40.0 (37.9, 42.2)	1	0.0 (0.0, 0.2)
<i>Age group (years)</i>				
<1	76	253.3 (216.2, 287.8)	0	0.0 (0.0, 12.1)
1–4	387	50.4 (45.8, 55.3)	0	0.0 (0.0, 0.5)
5–19	218	50.2 (44.1, 56.8)	0	0.0 (0.0, 0.8)
20–34	88	34.2 (27.7, 41.8)	0	0.0 (0.0, 1.4)
35–49	343	44.5 (40.2, 49.2)	0	0.0 (0.0, 0.5)
50–64	65	12.7 (9.9, 16.2)	1	0.2 (0.0, 1.1)
≥65	39	14.3 (10.2, 19.5)	0	0.0 (0.0, 1.4)
<i>Ethnicity</i>				
Māori	105	35.5 (29.2, 42.5)	0	0.0 (0.0, 1.2)
Pacific peoples	70	60.9 (48.2, 75.3)	0	0.0 (0.0, 3.2)
Asian	125	46.3 (38.9, 54.5)	0	0.0 (0.0, 1.4)
European and Other	916	38.8 (36.5, 41.3)	1	0.0 (0.0, 0.2)
<i>Sex</i>				
Female	688	39.9 (37.1, 42.9)	1	0.1 (0.0, 0.3)
Male	527	40.2 (37.0, 43.6)	0	0.0 (0.0, 0.3)
Other	1	12.5 (0.3, 64.9)	0	0.0 (0.0, 43.6)

