www.health.nsw.gov.au/coronavirus



COVID-19, influenza and RSV are all at a low level of activity

Summary

COVID-19 activity is at a low level across all indicators. Influenza activity remains stable at a low level. The RSV activity is at a low level. Pertussis, or whooping cough, notifications have dropped over the last 2 months.

Data sources and methods

NSW Health continually reviews the methods used to monitor respiratory virus activity in New South Wales. This is due to changes in testing, notification patterns and levels of respiratory virus, including COVID-19, in the community. These changes affect the usefulness of notifications for monitoring virus activity and community transmission over time. The Public Health, Rapid, Emergency and Syndromic Surveillance (PHREDSS) data, COVID-19 Wastewater Surveillance Program, Whole Genome Sequencing (WGS) data and the NSW Sentinel Laboratory Network results are currently of most value for monitoring COVID-19 and other respiratory viruses of importance in the community. Public registration of positive COVID-19 rapid antigen tests (RAT) in NSW ceased on 30 September 2023. NSW Health also monitors COVID-19 outbreaks in residential aged-care facilities that are published by the Australian Government and COVID-19 antiviral prescriptions dispensed in NSW.

The data source for this report updates as new information becomes available. Therefore, this report cannot be directly compared to previous versions of the NSW Respiratory Surveillance Report or to previous reporting periods. For additional information on the data sources and methods presented within this report please refer to COVID-19 surveillance report data sources and methodology.

Public Health Rapid, Emergency, Disease and Syndromic Surveillance

The PHREDSS system provides daily information about presentations to NSW public hospital emergency departments and subsequent admission to hospital categorised by symptom profile. Here we report on COVID-19, influenza-like illness and bronchiolitis (which is mainly caused by respiratory syncytial virus, RSV). These PHREDSS indicators, particularly the number of people admitted to hospital, are useful for monitoring the severity of illness and the impact on the health system.

Interpretation: The presentations to EDs and admissions for COVID-19, influenza-like illness (ILI) and bronchiolitis in young children are all at a low levels.

Figure 1. 'COVID-19' weekly counts of unplanned emergency department (ED) presentations and admission following presentation, 1 August 2023 - 16 February 2025, persons of all ages



Number of admissions
Number of presentations

Figure 2. 'Influenza-like illness' weekly counts of unplanned emergency department (ED) presentations and admission following presentation, 1 August 2023 - 16 February 2025, persons of all ages



Number of admissions
Number of presentations

Figure 3. Bronchiolitis weekly counts of unplanned emergency department (ED) presentations and admission following presentation, 1 August 2023 - 16 February 2025, children aged 0-4 years



Death surveillance

All-cause mortality

The model for rapid surveillance of excess all-cause mortality in NSW is updated annually, and has a focus on surveillance for increased mortality in recent months. The model outputs for the current year should not be directly compared to previous years' outputs, due to a change in the baseline of the model. The NSW model supports surveillance of the impact of circulating viruses such as COVID-19 and influenza on all-cause mortality. This is not the same approach as that used by the ABS or by the Actuaries Institute to examine excess mortality associated with COVID-19 during the pandemic period. These approaches modelled excess mortality in the absence of COVID-19.

Interpretation: Weekly lag adjusted all-cause mortality is below the seasonal baseline (red dotted line) and within the threshold of the usual variation band (grey shading).



Figure 4. All-cause death rate per 100,000 population, all ages, 1 January 2017 to 19 January 2025

Notes:

In this report, due to the time interval between a death occurring and the date on which the death is registered, only deaths reported 4 weeks prior to the date of analysis are used. Deaths are lag adjusted for the weeks ending 15 December 2024 to 19 January 2025. For additional information see COVID-19 surveillance report data sources and methodology for details.

Notifications of COVID-19, influenza and RSV

Notification data is obtained from laboratory tests for infections. This indicator provides information about community infection.

Interpretation: In the past week there was an increase of 4.43% in COVID-19 notifications, a decrease of 0.77% in influenza notifications, and an increase of 22.87% in RSV notifications.

Table 1: Notifications of COVID-19, influenza and RSV, NSW, tested in the week ending 15 February 2025

	COVID		Inf	luenza	RSV			
	Week ending 15 February 2025	Year to Date	Week ending 15 February 2025	Year to Date	Week ending 15 February 2025	Year to Date		
Gender								
Female	785	6,975 (57%)	685	4,363 (52%)	360	1,941 (53%)		
Male	605	5,265 (43%)	599	3,983 (48%)	360	1,722 (47%)		
Age group (years)								
0-4	160	1,366 (11%)	151	974 (12%)	388	1,767 (48%)		
5-9	54	261 (2%)	161	751 (9%)	27	136 (4%)		
10-19	118	568 (5%)	169	868 (10%)	32	148 (4%)		
20-29	101	959 (8%)	104	713 (9%)	27	158 (4%)		
30-39	158	1,324 (11%)	154	1,050 (13%)	28	187 (5%)		
40-49	174	1,293 (11%)	161	1,179 (14%)	27	174 (5%)		
50-59	128	1,175 (10%)	133	1,002 (12%)	37	237 (6%)		
60-69	133	1,329 (11%)	107	780 (9%)	51	273 (7%)		
70-79	183	1,716 (14%)	79	624 (7%)	51	290 (8%)		
80-89	124	1,565 (13%)	54	331 (4%)	38	202 (6%)		
90+	67	697 (6%)	12	76 (1%)	14	91 (2%)		
Local Health District of residence								
Central Coast	61	487 (4%)	39	192 (2%)	18	107 (3%)		
Far West	5	24 (0%)	1	7 (0%)	0	6 (0%)		
Hunter New England	94	870 (7%)	56	429 (5%)	75	315 (9%)		
Illawarra Shoalhaven	45	509 (4%)	51	296 (4%)	45	258 (7%)		
Mid North Coast	26	265 (2%)	16	95 (1%)	10	53 (1%)		
Murrumbidgee	27	382 (3%)	13	126 (2%)	3	35 (1%)		
Nepean Blue Mountains	78	715 (6%)	57	391 (5%)	38	219 (6%)		
Northern NSW	39	506 (4%)	43	229 (3%)	18	162 (4%)		
Northern Sydney	180	1,568 (13%)	233	1,632 (20%)	156	643 (18%)		
South Eastern Sydney	143	1,155 (9%)	157	1,100 (13%)	73	443 (12%)		
South Western Sydney	193	1,969 (16%)	197	1,056 (13%)	91	392 (11%)		
Southern NSW	15	119 (1%)	19	75 (1%)	11	37 (1%)		
Sydney	103	884 (7%)	94	727 (9%)	53	263 (7%)		
Western NSW	39	243 (2%)	8	172 (2%)	10	43 (1%)		
Western Sydney	340	2,469 (20%)	297	1,770 (21%)	116	679 (19%)		
Aboriginal status								
Aboriginal and/or Torres Strait Islander	29	239 (2%)	15	126 (2%)	13	81 (2%)		
Not Aboriginal or Torres Strait Islander	677	6,088 (50%)	676	4,604 (55%)	305	1,691 (46%)		
Not Stated / Unknown	686	5,921 (48%)	594	3,618 (43%)	402	1,891 (52%)		
Total	1,392	12,248 (100%)	1,285	8,348 (100%)	720	3,663 (100%)		

Note: Total includes all cases including those with missing gender, age, LHD; or who are interstate or overseas residents.

Figure 5. Weekly notifications of COVID-19*, Influenza and RSV, by date of test and type of test performed, NSW, 1 August 2023 to 15 February 2025



^{*}Public RAT registration ended 1 October 2023



Rates of COVID-19 notifications per 100,000 population

Interpretation: Rates of COVID-19 notifications are low across all ages.

Figure 6. Weekly rate of COVID-19* notifications per 100,000 population, by age group, Local Health District and test date, NSW, 1 August 2023 to 15 February 2025



*Public RAT registration ended 1 October 2023

Rates of influenza notifications per 100,000 population

Interpretation: Influenza notification rates are low in all age groups and across all districts.

Figure 7. Weekly rate of influenza notifications per 100,000 population, by age group, Local Health District and test date, NSW, 1 August 2023 to 15 February 2025



Rates of RSV notifications per 100,000 population

Interpretation: Rates of RSV notifications have been stable across most ages. There is a slight increase in those aged 0 to 2.

Figure 8. Weekly rate of respiratory syncytial virus notifications per 100,000 population, by age group, Local Health District and test date, NSW, 1 August 2023 to 15 February 2025



Other surveillance indicators

COVID-19 Whole Genome Sequencing

A subset of specimens from people who test positive with COVID-19 via PCR at NSW Health Pathology services undergo whole genome sequencing each week to identify and understand the behaviour of circulating variants. This sample may not necessarily reflect the distribution of all cases across NSW. NSW continues to monitor the sub-lineages in samples from ICU to monitor for increased disease severity.

Interpretation: NSW continues to monitor sub-lineages emerging globally and locally and consider their impact in the context of the local immunity profile. XEC has been the dominant variant in NSW since early December 2024.

Figure 9. Estimated weekly distribution of COVID-19 sub-lineages in the community, 1 August 2023 to 8 February 2025



BA.5	CH.1.1	XBB.1.9	KP.2
Other Recombinant	XBB	EG.5	KP.3
XBF	XBB.1.5	BA.2.86	KW 1.1
XBC	XBB.1.16	JN.1	XEC

COVID-19 Wastewater Surveillance Program

Trends are presented for Bondi, Liverpool, Quakers Hill, and Burwood Beach (Hunter) wastewater catchments from 15 August 2023 to the week ending 15 February 2025. For more information, please see the COVID-19 Wastewater Surveillance Program website: https://www.health.nsw.gov.au/Infectious/covid-19/Pages/sewage-surveillance.aspx.

Interpretation: Gene concentrations per 1,000 people are low across all catchment areas.

Figure 10. Gene concentration, per 1,000 people in each wastewater catchment, 1 August 2023 to 15 February 2025



NSW Sentinel Laboratory Network

The NSW Sentinel Laboratory Network comprises of 12 public and private laboratories throughout NSW who provide additional data on positive and negative test results. This data helps us understand which respiratory viruses are circulating and their level of activity. Note that the number of laboratories providing data differs between viruses and changes between weeks (Tables 2 and 3).

Interpretation: Test positivity for COVID-19 has increased to 6.1%, influenza has slightly increased to 6.1%, and RSV positivity has increased to 2.8%.





Figure 12. Number and proportion of tests positive for influenza at NSW sentinel laboratories by week, 1 August 2023 to 16 February 2025



Figure 13. Number and proportion of tests positive for RSV at NSW sentinel laboratories by week, 1 August 2023 to 16 February 2025









Table 2. Total number of COVID-19 notifications from NSW sentinel laboratories, in the four weeks to 16 February 2025

	Week ending										
	26 January		02 February		09 February		16 February				
	n	% pos									
SARS-CoV-2	805	8.6%	565	6.9%	527	5.8%	499	6.1%			
Number of COVID PCR tests conducted	9,328		8,242		9,110		8,232				
Number of laboratories reporting COVID	4		3		4		2				

Recent data is subject to change.

Table 3. Total number of other respiratory disease notifications from NSW sentinel laboratories, in the four weeks to 16 February 2025

	Week ending									
	26 January		02 February		09 February		16 February			
	n	% pos								
Influenza	1,424	6.1%	1,195	5.7%	1,202	5.9%	1,456	6.1%		
Respiratory syncytial virus (RSV)	470	2.0%	483	2.3%	411	2.0%	678	2.8%		
Adenovirus	409	1.8%	306	1.5%	330	1.6%	428	1.8%		
Human metapneumovirus (HMPV)	409	1.8%	310	1.5%	256	1.3%	373	1.6%		
Rhinovirus	3,046	13.1%	2,897	13.9%	3,068	15.2%	4,778	19.9%		
Enterovirus	176	0.8%	147	0.7%	67	0.3%	237	1.0%		
Parainfluenza	952	4.1%	784	3.8%	806	4.0%	848	3.5%		
Number of PCR tests conducted	23,308		20,855		20,228		23,967			
Number of laboratories reporting	12		10		11		9			

Recent data is subject to change.

FluTracking

FluTracking is an online health surveillance system used to detect epidemics of influenza across Australia and New Zealand. Participants complete an online survey each week to provide community level influenza-like illness surveillance, consistent surveillance of influenza activity across all jurisdictions over time, and year to year comparisons of the timing, attack rates and seriousness of influenza in the community. More information about FluTracking and ways to be involved are available here: https://info.flutracking.net/about/

Interpretation: Since mid-December 2024, there has been a decreasing trend with less than 1% of people reporting fever and cough. In the last week, the proportion has increased but still remains below 1%.



Figure 15. Proportion of FluTracking participants reporting influenza-like illness, NSW, 1 January to 16 February 2025

In Focus

Pertussis

Pertussis (commonly known as whooping cough) is caused by the bacteria *Bordetella pertussis*. Pertussis can cause serious illness in all ages but can be particularly dangerous in babies. Pertussis can cause pneumonia and can be life threatening. Anyone with pertussis can spread it to others. The bacteria spread from one person to another mainly when someone with the infection coughs and fine droplets that contain the bacteria spread into the surrounding air. Vaccination reduces the risk of infection and severe disease. There is seasonal variation in pertussis activity, with greater activity typically in the spring and summer months. Outbreaks of pertussis usually occur every few years as population immunity wanes. Public health interventions in place during 2020 and 2021 to reduce the transmission of COVID-19, also reduced other respiratory infections, including pertussis. In 2020 there was dramatic reduction in the rate of notifications to almost half of the low in 2013, with further reductions in 2021 and 2022 (Figure 16). Notifications of people with pertussis in NSW started to increase in 2023, with 2024 having the highest notification rate recorded since 2009. The highest rates of pertussis notifications are observed in children 5-14 years (Figure 17). The number of notifications in this age group increased rapidly from February 2024, reaching a maximum in September. Since mid-November the number of notifications in this age group has been declining and is now comparable to other age groups (Figure 18). Additional notification data can be found on the NSW Health pertussis data page.







Figure 17. Monthly pertussis notification rates per 100,000 by age group, 1 August 2023 to 31 January 2025

Figure 18. Weekly pertussis notifications by age group, 1 January 2024 to 15 February 2025

