

COVID-19 WEEKLY SURVEILLANCE IN NSW

EPIDEMIOLOGICAL WEEK 21, ENDING 29 May 2021

Published 3 June 2021

Overview

Table 1. Number and proportion of COVID-19 cases in NSW by likely source of infection to week ending 29 May 2021

| | 202 | 20 | | 2021 | | | | |
|---------------------|---------------|---------------|--------------------------------|---------------------------------|--------------------------------|--|--|--|
| | Jan – Jun | July – Dec | year to date 1 Jan - 29 May | last 4 weeks 02 May - 29 May | last 7 days 23 May - 29 May | | | |
| | | | i Jaii - 29 iviay | UZ May - 29 May | 23 May - 29 May | | | |
| Overseas acquired | 1,893 (59 %) | 714 (46 %) | 603 (92 %) | 99 (98 %) | 15 (100 %) | | | |
| Interstate acquired | 67 (2 %) | 23 (1 %) | 0 | 0 | 0 | | | |
| Locally acquired | 1,237 (39 %) | 808 (52 %) | 51 (8 %) | 2 (2 %) | 0 | | | |
| Total | 3,197 (100 %) | 1,545 (100 %) | 654 (100 %) | 101 (100 %) | 15 (100 %) | | | |
| Variants of concern | - | 10 | 273 | 56 | 6 | | | |
| Deaths | 52 | 4 | 0 | 0 | 0 | | | |

Summary for the week ending 29 May 2021

- There were no locally acquired cases reported in the week ending 29 May 2021.
- There were 15 cases reported in overseas returned travellers this week, up 25% compared to the previous week.
- In the four weeks ending 29 May 2021, 54% (54/99) of overseas acquired cases have been identified as having COVID-19 variants of concern (B.1.1.7, B.1.351, B.1.617 and P1).
- In the four weeks ending 29 May 2021, ten (3%) overseas acquired COVID-19 cases self-reported being fully vaccinated prior to arrival in Australia.
- Testing rates increased compared to the previous week in most LHDs. There was a large increase in testing seen in the Murrumbidgee LHD likely associated with the Melbourne cluster and border exposure locations.
- The NSW Sewage Surveillance Program reported five detections –taken from the Bondi and Malabar sewage treatment plants and the sewage networks at Paddington (within the Bondi catchment), and Homebush and Botany (within the Malabar catchment). All detections were associated with known cases in returned travellers.
- On 24 May 2021 the state of Victoria reported a new locally acquired case. The locally acquired case was shown to have the same genomic sequencing of a case that returned from South Australia after spending time in hotel quarantine for returned overseas travellers in early May. In the week ending 29 May there were 35 locally acquired cases and more than 300 exposure locations associated with the current outbreak. For updated information on the Victorian outbreak please see https://www.dhhs.vic.gov.au/covid-19-chief-health-officer-update.

Indicators of effective prevention measure for COVID-19 in NSW for the week ending 29 May 2021

In the week ending 29 May, there were no locally acquired cases.

COVID-19 Vaccination program

- Australian Government Department of Health reports the number of vaccine doses administered across Australia <u>Daily COVID-19 vaccine rollout numbers</u>
- Therapeutic Goods Administration (TGA) report data on received reports of suspected side effects (also known as adverse events) and other safety information from Australia and overseas Weekly COVID-19 vaccine safety report
- AusVaxSafety is conducting active vaccine safety surveillance of the vaccines in use. Surveillance data have been
 provided by Vaxtracker, SmartVax and the Victorian Department of Health COVID-19 Vaccine Management System
 based on surveys sent on Day 3 after the vaccination Weekly COVID-19 vaccine safety surveillance report

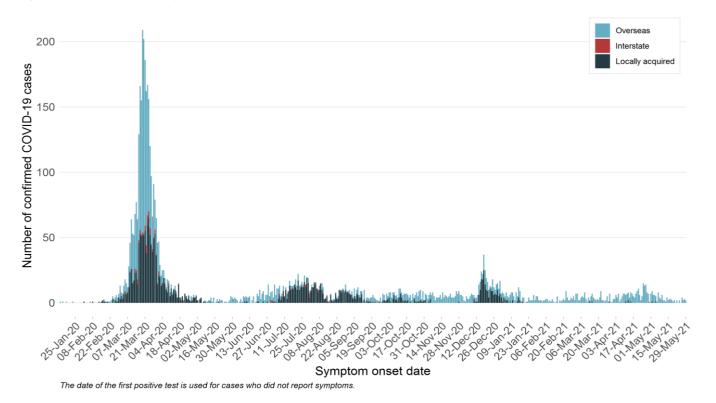
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Section 1: How is the outbreak tracking in NSW?

To understand how the outbreak is tracking we look at how many new cases are reported each day and the number of people being tested. Each bar in the graph below represents the number of new cases based on the date of symptom onset.

Figure 1. COVID-19 cases by likely infection source and illness onset, NSW, from 25 January 2020 to 29 May 2021



Interpretation: Between 13 January 2020 and 29 May 2021, there were 5,396 confirmed COVID-19 cases. Of those, 3,210 (60%) were overseas acquired, 90 (2%) were interstate acquired, and 2,096 (39%) were locally acquired.

COVID-19 cases reported in 2020

The epidemiology of COVID-19 in NSW continued to evolve since the first three cases were reported in NSW on 25 January 2020 in people who acquired their infection in China. The first locally acquired COVID-19 case in NSW was reported on 2 March 2020 and by mid-March case numbers had increased rapidly in overseas returned travellers and their contacts and within localised community outbreaks. In NSW, the number of reported daily cases peaked on 27 March 2020 at 213 cases. Public health action and the introduction of a range of stringent control measures, including the closure of international borders, 14-day mandatory quarantine for returned travellers and restrictions of movement within NSW lead to a decline in cases. Community transmission was interrupted by the end of May 2020.

In early July seeding of SARS-CoV-2 into South Western Sydney from an outbreak in Melbourne lead to a second wave of infection. Following intensive public health action community transmission was again interrupted by the end of November 2020.

In December 2020 two new introductions of SARS-CoV-2 caused outbreaks in Sydney's Northern Beaches and Berala in Sydney's West. Community transmission was again interrupted by the end of January 2021.

COVID-19 cases reported in 2021

Figure 2. COVID-19 cases by likely infection source and reporting date, NSW, from 1 January 2021 to 29 May 2021

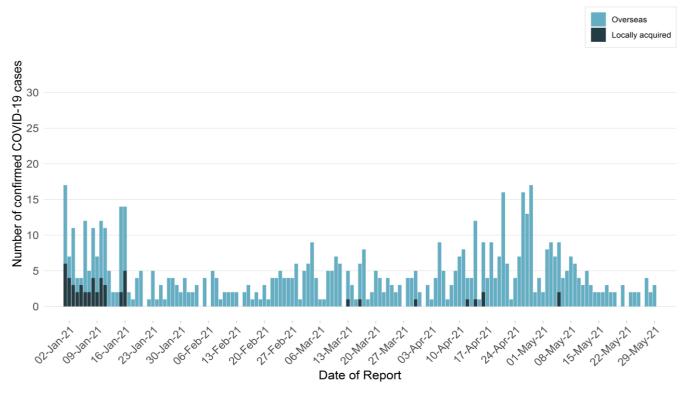


Table 2. COVID-19 cases and tests reported, NSW, from 1 January 2021 to 29 May 2021

| | Week ending 29 May | Week ending 22 May | % change | Total 2021 |
|--|-----------------------|-----------------------|----------|---------------|
| Number of cases | 15 | 12 | 25 % | 654 |
| Overseas acquired | 15 | 12 | 25 % | 603 |
| Interstate acquired | 0 | 0 | - | 0 |
| Locally acquired | 0 | 0 | - | 51 |
| Known epidemiological links to other cases or clusters | 0 | 0 | - | 44 |
| No epidemiological links to other cases or clusters | 0 | 0 | - | 7 |
| Number of tests | 106,548 | 92,071 | 16 % | 1,910,771 |

Note: The case numbers reported for previous weeks is based on the most up to date information from public health investigations.

Between 1 January and 29 May 2021, 51 locally acquired COVID-19 cases have been reported in NSW, of these:

- 11 were associated with the Avalon cluster
- $_{\circ}$ 31 were associated with the Berala cluster
- o Two cases, a guest and a security guard, were associated with a Sydney hotel quarantine cluster in mid-March
- One case acquired their infection from an infectious Queensland resident who was visiting a Byron Bay pub, detected as part of extensive contact tracing in late March
- Three cases in one family acquired their infection in hotel quarantine in mid-April
- o One person also acquired their infection in hotel quarantine in mid-April, in a different hotel
- Two cases, one a household contact of the other, from South Eastern Sydney acquired their infection from an unknown source in early May.

Interpretation: Since the elimination of local transmission in January, nine locally acquired cases have been identified and linked to five separate incursions of SARS-CoV-2 into NSW. The majority of cases reported in the last four weeks in NSW were overseas acquired (99/101, 98%).

Section 2: Variants of Concern (VoC)

Like other viruses, the SARS-CoV-2 virus that causes COVID-19 acquires mutations over time. Some of these mutations occur in regions that are critical to virus function, such as the spike protein. The spike protein allows the virus to enter human cells, which is why it is the target of many COVID-19 vaccines and part of our own immune response to the virus. Global surveillance is done to monitor the prevalence of mutations in the SARS-CoV-2 virus, with particular focus on those occurring in the spike protein that may reduce vaccine effectiveness or enable re-infection.

Australia's Communicable Diseases Genomics Network (CDGN) reports on the four internationally recognised VoCs, B.1.1.7, B.1.351, P1 and B.1.617:

- B.1.1.7 first identified in the United Kingdom in September 2020 and recognised as a VoC on 14 December 2020
- B.1.351 first identified in South Africa in December 2020 and recognised as a VoC on 18 December 2020
- P.1 first identified in Japan among a group of Brazilian travellers in December 2020 and recognised as a VoC on 2 January 2021
- B.1.617 first detected in India in October 2020 (reported by three sub-lineages, which vary in mutations). This lineage was recognised as a VoC on 11 May 2021

All VoCs have since spread beyond their initial country of origin with B.1.1.7 the most widely distributed worldwide. NSW Health Pathology has identified all four of the VoCs in NSW.

In the four weeks ending 29 May 2021, there have been:

- two locally acquired COVID-19 cases diagnosed with a VoC; both diagnosed with the B.1.617.2 variant.
- 54 returned travellers were diagnosed with a VoC. Of these:
 - o 33 (61%) with the B.1.1.7 variant
 - o 21 (39%) with the B.1.617 variant
- Of the 54 returned travellers diagnosed with a VoC, 54% likely acquired their infection in either India (13, 24%), Pakistan (8,15%) or Nepal (8,15%).

Table 3a. Locally acquired COVID-19 cases by VoC and week reported, NSW, 29 November 2020 to 29 May 2021

| | | Week ending | | | 29 Nov to | Total since 29 |
|-----------------------------------|---------|-------------|--------|-------|-----------|----------------|
| | 29 May* | 22 May* | 15 May | 8 May | 2 May | November |
| Total locally acquired cases | 0 | 0 | 0 | 2 | 225 | 227 |
| Local cases with VoC | 0 | 0 | 0 | 2 | 7 | 9 |
| B.1.1.7 | 0 | 0 | 0 | 0 | 6 | 6 |
| B.1.351 | 0 | 0 | 0 | 0 | 1 | 1 |
| B.1.617 | 0 | 0 | 0 | 2 | 0 | 2 |
| P.1 | 0 | 0 | 0 | 0 | 0 | 0 |
| % locally acquired cases with VoC | - | - | - | 100% | 3% | 4% |

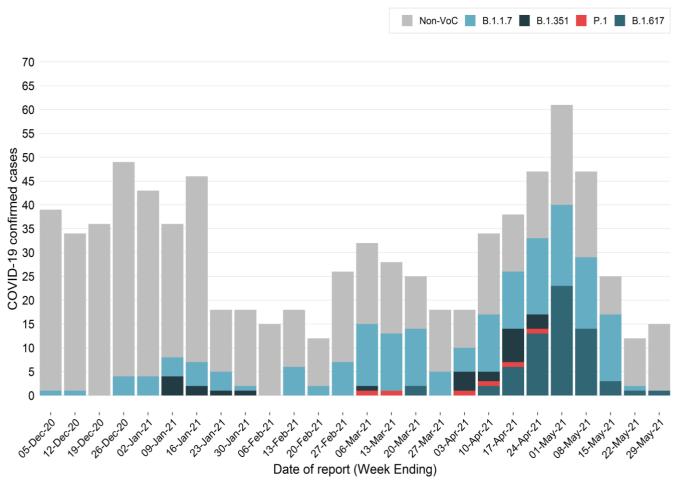
^{*}Note: identification of variants of concern is through whole genome sequencing. Results for reported cases in the most recent week may not be available at the time of reporting.

Table 3b. Overseas acquired COVID-19 cases by VoC and week reported, NSW, 29 November 2020 to 29 May 2021

| | | Week e | 29 Nov to | Total since 29 | | |
|------------------------------------|---------|---------|-----------|----------------|-------|----------|
| | 29 May* | 22 May* | 15 May | 8 May | 1 May | November |
| Total overseas acquired cases | 15 | 12 | 25 | 47 | 691 | 790 |
| Overseas cases with VoC | 6 | 2 | 17 | 29 | 220 | 274 |
| B.1.1.7 | 3 | 1 | 14 | 15 | 143 | 176 |
| B.1.351 | 0 | 0 | 0 | 0 | 25 | 25 |
| B.1.617 | 3 | 1 | 3 | 14 | 46 | 67 |
| P.1 | 0 | 0 | 0 | 0 | 6 | 6 |
| % overseas acquired cases with VoC | 40% | 17% | 68% | 62% | 32% | 35% |

^{*}Note: identification of variants of concern is through whole genome sequencing. Results for reported cases in the most recent week may not be available at the time of reporting.

Figure 3. Overseas acquired COVID-19 cases by VoC and week reported, NSW, 29 November 2020 to 29 May 2021



^{*}Note: identification of variants of concern is through whole genome sequencing. Results for reported cases in the most recent week may not be available at the time of reporting.

Interpretation: Since 29 November 2020 there have been 274 returned travellers diagnosed with a COVID-19 VoC. In the four weeks ending 29 May 2021, 54% (54/99) of overseas acquired cases have been identified as having COVID-19 variants of concern (B.1.1.7, B.1.351, B.1.617 and P1).

Section 3: Locally acquired COVID-19 transmission in NSW in the last four weeks

Information from cases who were diagnosed in the last four weeks is used to understand where COVID-19 is spreading in the community. This takes into account the incubation period and the time it takes for people to seek testing and for the laboratory to perform the test. This section summarises cases based on the date the case was reported to NSW Health.

Table 4. Locally acquired COVID-19 cases by LHD of residence and week reported, NSW, 2 May to 29 May 2021

| | | Week e | | Days since last | | |
|-----------------------|--------|--------|--------|-----------------|-------|---------------|
| Local Health District | 29 May | 22 May | 15 May | 8 May | Total | case reported |
| Central Coast | 0 | 0 | 0 | 0 | 0 | 151 |
| Illawarra Shoalhaven | 0 | 0 | 0 | 0 | 0 | 147 |
| Nepean Blue Mountains | 0 | 0 | 0 | 0 | 0 | 256 |
| Northern Sydney | 0 | 0 | 0 | 0 | 0 | 43 |
| South Eastern Sydney | 0 | 0 | 0 | 2 | 2 | 24 |
| South Western Sydney | 0 | 0 | 0 | 0 | 0 | 141 |
| Sydney | 0 | 0 | 0 | 0 | 0 | 138 |
| Western Sydney | 0 | 0 | 0 | 0 | 0 | 133 |
| Far West | 0 | 0 | 0 | 0 | 0 | 422 |
| Hunter New England | 0 | 0 | 0 | 0 | 0 | 43 |
| Mid North Coast | 0 | 0 | 0 | 0 | 0 | 403 |
| Murrumbidgee | 0 | 0 | 0 | 0 | 0 | 264 |
| Northern NSW | 0 | 0 | 0 | 0 | 0 | 60 |
| Southern NSW | 0 | 0 | 0 | 0 | 0 | 222 |
| Western NSW | 0 | 0 | 0 | 0 | 0 | 303 |
| NSW* | 0 | 0 | 0 | 2 | 2 | 24 |

^{*}Includes people with a usual place of residence outside of NSW

Interpretation: In the week ending 29 May, there were no locally acquired cases.

In the week ending 8 May, testing identified a locally acquired case of COVID-19 in person in their 50s in South Eastern Sydney. Three days later the partner of the case also tested positive. Whole genome sequencing showed that these two cases were infected with an identical virus (a variant of concern B.1.617) that had infected a person who acquired their infection in the United States and arrived in NSW in late April.

To check for any **direct transmission** between the overseas acquired case and the first locally acquired case who had onset of symptoms on 2 May, NSW Health conducted detailed interviews with the cases and reviewed other available data sources to establish their movements during the period when transmission might have occurred. We were unable to identify any opportunities for direct transmission between the overseas case and the locally acquired case.

To check for any **indirect transmission**, through an intermediary case, NSW Health contacted and tested over 900 people. These included:

- All potential upstream contacts of the locally acquired case people who had contact with the first locally acquired case at the time he could have acquired his infection:
 - o people in his family and social circles
 - people who were at venues he attended

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- · People who had contact with the overseas acquired case while they were infectious:
 - o on the flight to Sydney
 - o at the airport on the day of arrival
 - o at the quarantine hotel
 - o at the Special Health Accommodation
 - o during transport between these locations

Despite these extensive investigations, NSW Health has not identified how the initial locally acquired case was exposed to COVID-19.

To contain any risk of **ongoing transmission in the community**, NSW Health identified people through QR sign-in data and through public alerts who attended the venues visited by the locally acquired cases while they were infectious. Contacts were interviewed, tested and isolated according to their level of exposure. This investigation identified nine venues of concern and 201 close contacts in relation to exposure to the two cases and no further community transmission has been identified.

Further to the investigation and contact tracing, on Sunday 9 May 2021, NSW Health announced that temporary COVID-safe measures would be introduced across Greater Sydney. These measures remained in place until 12:01am Monday 17 May 2021. For further details please see the <u>NSW Health media release</u> for 16 May 2021.

Section 4: Current COVID-19 clusters in NSW

Public health staff interview all new cases at the time of diagnosis to identify the likely source of their infection. Cases are also asked to report all the locations visited and people with whom they have been in contact within their infectious period (generally two days prior to symptom onset until the time of isolation and three days in high-risk settings). Close contacts are quarantined to limit the spread of infection to others and encouraged to seek testing.

Clusters are defined as a group of two or more cases (who don't reside in the same household) that are infected with the same virus (with the identical genetic sequence) that are linked epidemiologically to each other. This means that a direct source of infection can be identified for each case in the cluster, through contact with a known case where transmission likely occurred.

A case that shares the same virus (with an identical genetic sequence) is not counted as part of the cluster if an epidemiological link to another case in the cluster has not been found. Although the case must have been infected through contact with an infectious person in the cluster, that contact or that infectious person has not been found.

Cases in community settings

There were no cases reported in the last week who were linked to recent clusters.

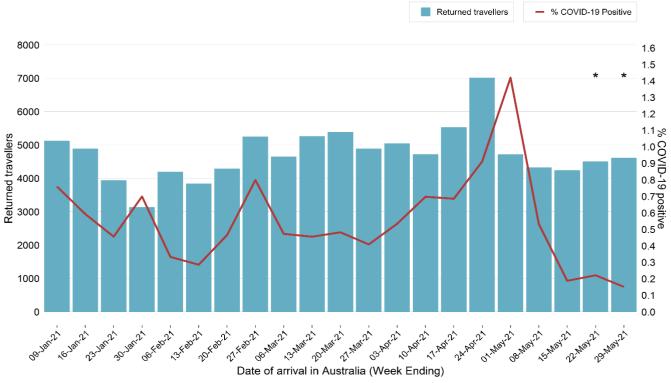
Section 5: COVID-19 in returned travellers

To limit the spread of COVID-19 into NSW, travel restrictions were introduced for all non-Australian citizens and permanent residents in mid-March 2020. In addition:

- From 29 March 2020 returned travellers have been quarantined in hotels for a 14-day period and travellers who develop symptoms are isolated until no longer infectious. Returned travellers are screened on entry and exit from quarantine and following release from quarantine.
- From 22 January 2021 (local time at departure point) all people travelling to Australia on flights must provide proof of a negative COVID-19 PCR test result at the time of check-in.

The figure below shows the number of returned travellers screened at Sydney International Airport since 2021. Returned travellers include international flight crew who are required to be tested before leaving the airport.

Figure 4. Returned travellers screened at Sydney International Airport by week of arrival and percent COVID-19 positive, NSW, 3 January 2021 to 29 May 2021



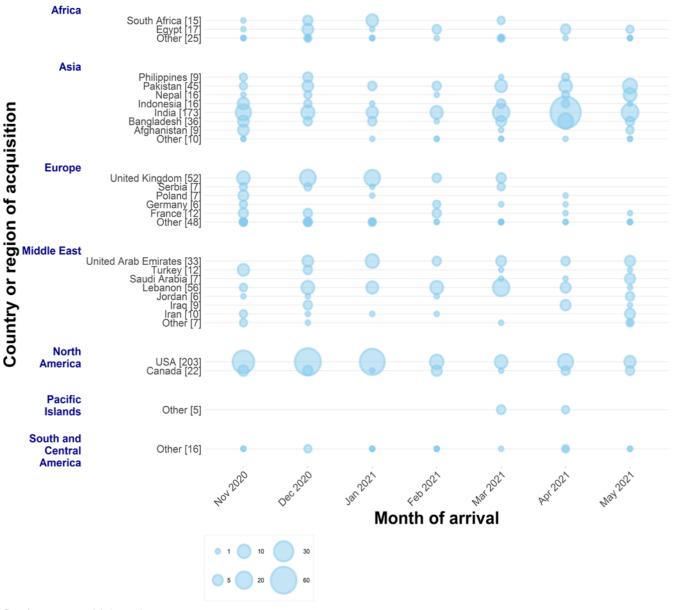
*Returned travellers entering Australia in the past 14 days are still in quarantine and may return a positive result prior to the end of their hotel quarantine period.

Interpretation: Since 3 January 2021, there has been on average 678 people screened on arrival through Sydney International Airport daily. In the last four weeks, 99 returned travellers have subsequently tested positive for COVID-19 while completing quarantine. The proportion of returned travellers who test positive for COVID-19 has been low. In the week ending 1 May 2021 the proportion increased to over 1% (1.3%) of returned travellers testing positive, but this has subsequently fallen back to lower levels.

Country of acquisition of COVID-19 for overseas travellers

The following figure displays the countries and regions with the greatest numbers of international travellers diagnosed with COVID-19 in NSW.

Figure 5. Overseas acquired COVID-19 cases by country of acquisition and arrival month, NSW, 1 October 2020 to 29 May 2021



^{*} Data for current month is incomplete

Interpretation: In April 2021, there was a significant increase in detections of COVID-19 in travellers from India, which has subsided in May. The pattern seen in COVID-positive travellers over time reflects the evolving nature of the pandemic in those areas and the country of origin of returned travellers.

In the last four weeks, there have been 99 COVID-positive travellers in NSW. The table below lists of countries of acquisition for these travellers.

Table 5. Top countries of acquisition for overseas acquired cases that have tested positive in the last four weeks, 2 May 2021 to 29 May 2021

| Country of acquisition of COVID-19 | Number (%) of cases in the last four weeks |
|------------------------------------|--|
| India | 20 (20 %) |
| Pakistan | 13 (13 %) |
| Nepal | 10 (10 %) |
| USA | 7 (7 %) |
| Iran | 5 (5 %) |
| Saudi Arabia | 5 (5 %) |
| United Arab Emirates | 5 (5 %) |
| Bangladesh | 3 (3 %) |
| Canada | 3 (3 %) |
| Jordan | 3 (3 %) |
| Other | 25 (25 %) |
| Total | 99 |

Interpretation: In the last four weeks, travellers returning from India accounted for the largest number of overseas acquired cases (20, 20%), followed by travellers returning from Pakistan (13, 13%), Nepal (10, 10%), and the USA (7,7%).

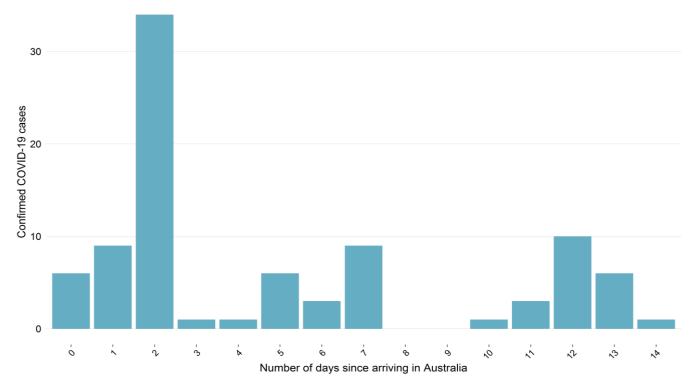
Cases among returned travellers in quarantine

The program of screening all overseas travellers after arrival in NSW commenced on 15 May 2020. From 30 June 2020, the program was extended to include screening of travellers on entry to quarantine, day 2 after arrival, and exit of quarantine. On 11 January 2021, exit screening of travellers was moved from day 10 to day 12 of quarantine. Testing is also carried out on individuals that became symptomatic in addition to these two tests, including those that are symptomatic on arrival.

Overseas returned travellers complete their quarantine in several facilities with majority of people in police-managed hotels or hotels managed by NSW Health (known as Special Health Accommodation). Since September 2020 international flight crew are also required to quarantine in police-managed hotels.

The figure below shows the number of overseas acquired cases in returned travellers within the quarantine program, by the number of days since they arrived in Australia. Overseas acquired cases include people with likely exposure overseas, in flight or who are household-like contacts of overseas acquired cases within hotel quarantine.

Figure 6. Number of overseas acquired cases in the last four weeks who tested positive for SARS-CoV-2 during the 14-day quarantine period, by days since arrival in NSW, 2 May to 29 May 2021



Interpretation: In the four weeks ending 29 May 2021, 34% of overseas acquired COVID-19 cases have tested positive within 2 days of arriving to Australia, with most people testing positive on day 2 screening.

Section 6: COVID-19 vaccination status

COVID-19 vaccinations began in Australia on 22 February 2021. The first people to receive the COVID-19 vaccines are priority groups who are at a higher risk of COVID-19 including quarantine and border workers, frontline healthcare workers, and aged and disability care residents and staff. There are a range of vaccines, with variable efficacy, currently being administered worldwide. People receiving vaccines are considered fully vaccinated two weeks after they complete the recommended course for that vaccine. Both vaccines being administered in Australia, Pfizer-BioNTech and AstraZeneca, and many from overseas such as Moderna and Sinovac, recommend a two-dose course. There is one single dose vaccine course currently being administered, the Johnson & Johnson vaccine in the USA.

The tables below show the number of COVID-19 cases by self-reported COVID-19 vaccination status.

- The number of cases reported as **fully vaccinated** refers to completion of the recommended course for the vaccine greater than 14 days prior to known exposure to COVID-19 or arrival in Australia.
- The number of cases reported as partially vaccinated refers to either:
 - the first dose of a two-dose vaccination being completed greater than 14 days prior to known exposure to COVID-19 or arrival in Australia, without receiving the second dose.
 - or, the second dose of a two-dose vaccination being completed within 14 days of known exposure to COVID-19 or arrival in Australia.
- The number of cases reported as **single dose within 14 days** refers to one dose of a two-dose vaccine (or single dose of Johnson & Johnson vaccine) being completed within 14 days of known exposure to COVID-19 or arrival in Australia.

Table 6a. Overseas acquired COVID-19 cases by vaccination status and week reported, NSW, 1 March to 29 May 2021

| Self-reported Vaccination | | Week | | | Total from 1 | |
|-------------------------------|----------------------|------------|------------|-------------|--------------|-------------|
| Status | 29 May 22 May 15 May | | 8 May | 1 Mar-1 May | Mar 2021 | |
| Total overseas acquired cases | 15 (100 %) | 12 (100 %) | 25 (100 %) | 47 (100 %) | 295 (100 %) | 394 (100 %) |
| Fully Vaccinated | 1 (7 %) | 1 (8 %) | 2 (8 %) | 0 | 6 (2 %) | 10 (3 %) |
| Partially Vaccinated | 0 | 1 (8 %) | 0 | 0 | 5 (2 %) | 6 (2 %) |
| Single dose within 14 days | 2 (13 %) | 0 | 0 | 3 (6 %) | 9 (3 %) | 14 (4 %) |
| None | 11 (73 %) | 10 (83 %) | 23 (92 %) | 44 (94 %) | 265 (90 %) | 353 (90 %) |
| Unknown | 1 (7 %) | 0 | 0 | 0 | 8 (3 %) | 9 (2 %) |
| Missing | 0 | 0 | 0 | 0 | 2 (1 %) | 2 (1 %) |

Table 6b. Locally acquired COVID-19 cases by vaccination status and week reported, NSW, 1 March to 29 May 2021

| Self-reported Vaccination | | Week e | 1 Mor 1 Mov | Total from | | | |
|------------------------------|---------------|--------|-------------|------------|-------------|------------|--|
| Status | 29 May 22 May | | 15 May | 8 May | 1 Mar-1 May | 1 Mar 2021 | |
| Total locally acquired cases | 0 | 0 | 0 | 2 (100 %) | 7 (100 %) | 9 (100 %) | |
| Fully Vaccinated | 0 | 0 | 0 | 0 | 0 | 0 | |
| Partially Vaccinated | 0 | 0 | 0 | 0 | 1 (14 %) | 1 (11 %) | |
| Single dose within 14 days | 0 | 0 | 0 | 0 | 1 (14 %) | 1 (14 %) | |
| None | 0 | 0 | 0 | 2 (100 %) | 5 (71 %) | 7 (78 %) | |
| Unknown/missing | 0 | 0 | 0 | 0 | 0 | 0 | |

Interpretation: Since 1 March 2021, ten (3%) cases reported being fully vaccinated prior to arrival in Australia, although they may not have been fully vaccinated prior to being exposed to COVID-19.

There have been no locally acquired cases reported as being fully vaccinated.

Section 7: COVID-19 in specific populations

Aboriginal people

Aboriginal and Torres Strait Islander communities are recognised as a priority group due to key drivers of increased risk of transmission and severity of COVID-19 which include mobility, remoteness, barriers to access including institutional racism and mistrust of mainstream health services, crowded and inadequate housing, and burden of disease.

Since the beginning of the pandemic there have been 49 Aboriginal people diagnosed with COVID-19, representing 1% of all cases in NSW.

Healthcare workers

The following describes infections of COVID-19 in healthcare workers (HCWs). HCWs in this section includes roles such as doctor, nurse, orderly, paramedic, laboratory technician, pharmacist, administrative staff, cleaners, and other support staff. Public health units routinely undertake investigations of COVID-19 cases in healthcare workers to identify ongoing risks in healthcare settings.

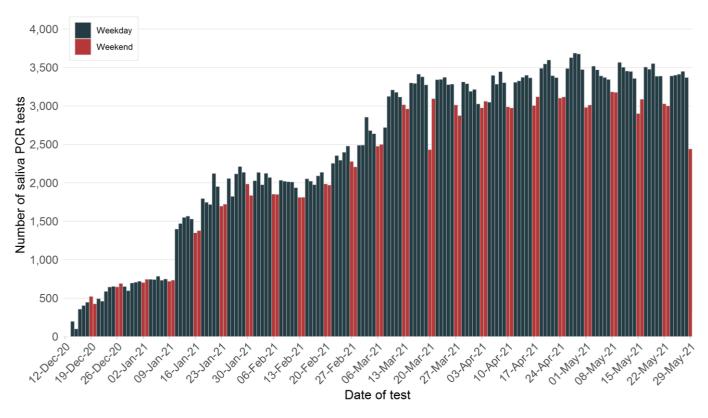
There were no locally acquired cases of COVID-19 reported in HCWs in the week ending 29 May 2021.

In total there have been 48 cases of COVID-19 in health care workers since 1 August 2020. Of these, 25 HCWs were potentially infected in healthcare settings. A further nine cases were social or household contacts of a known case, eight were exposed in community settings, and for six cases the source of infection is unknown. Prior to August 2020, there were 206 cases identified in HCWs who had worked in a health facility in the 14 days prior to symptom onset or date of testing (see COVID-19 in healthcare workers in NSW).

Border and quarantine workers – saliva testing screening program

As the number of COVID-19 cases rise across the world and more people return to Australia from overseas, increased numbers of COVID-19 cases are seen in returned overseas travellers in quarantine facilities. Routine screening of quarantine workers is implemented out of care and caution for staff members who work in NSW quarantine facilities. Screening involves a daily SARS-CoV-2 saliva PCR testing, which is painless and quick (see NSW hotel quarantine worker surveillance and testing program).

Figure 7. Daily numbers of saliva PCR test results reported for border and quarantine workers, NSW, 12 December 2020 to 29 May 2021



^{*} The number of saliva PCR tests on 15 May 2021 is incomplete due to delays in reporting negative results.

Interpretation: Since screening of quarantine workers began in December 2020, a total of 398,082 saliva PCR tests have been conducted. The number of saliva PCR tests increased significantly on 11 January 2021, which corresponds to the expansion of the NSW quarantine hotel worker surveillance and testing program. One confirmed case of COVID-19 has been reported through saliva PCR testing, reported on 13 March 2021.

The daily number of saliva PCR tests is not included in the total PCR testing numbers reported.

Section 8: COVID-19 deaths

How many people have died as a result of COVID-19?

Since the start of the pandemic, 1.0% of cases (56 people) have died as a result of COVID-19, most of whom were 70 years of age or older, including 28 residents of aged care facilities with known COVID-19 outbreaks. Approximately 21% (12/56) of the deaths were in overseas acquired cases.

There were no deaths reported in the week ending 29 May.

Table 7. Deaths as a result of COVID-19, by age group, NSW, from 25 January 2020 to 29 May 2021

| Age group (years) | Number of deaths | Number of cases | Case fatality rate |
|-------------------|------------------|-----------------|--------------------|
| 0-4 | 0 | 147 | 0% |
| 5-11 | 0 | 138 | 0% |
| 12-17 | 0 | 169 | 0% |
| 18-29 | 0 | 1,217 | 0% |
| 30-49 | 0 | 1,801 | 0% |
| 50-59 | 1 | 710 | 0.1% |
| 60-69 | 4 | 657 | 0.6% |
| 70-79 | 15 | 393 | 3.8% |
| 80+ | 36 | 164 | 22.0% |
| Total | 56 | 5,396 | 1.0% |

Interpretation: Cases older than 80 years of age had both the highest number of deaths and the highest case fatality rate. No cases under 50 years of age have died as a result of COVID-19 in NSW.

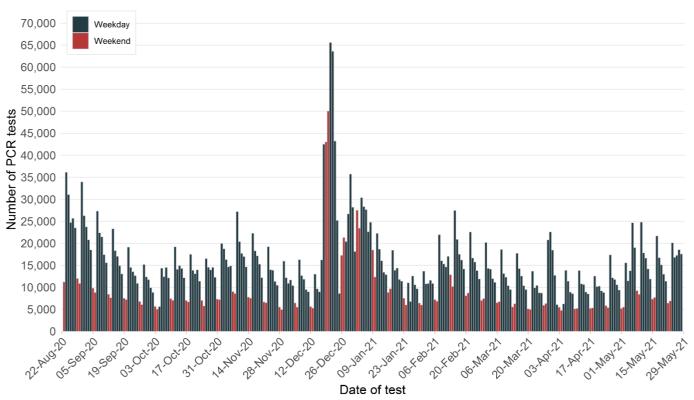
Section 9: COVID-19 testing in NSW

How much testing is happening?

The bars on the graph below show the number of tests by the date a person presented for the test. While public health facilities are generally open seven days a week, there may be less demand and availability for testing through GPs and private collection centres on weekends and public holidays. This likely explains lower testing numbers on weekends.

The PCR testing numbers reported are for tests performed on nose and throat swabs. Saliva PCR tests are not included, these are reported in the "Border and quarantine workers – saliva testing screening program" section on page 17.

Figure 8. Number of PCR tests per day, NSW, 11 July 2020 to 29 May 2021



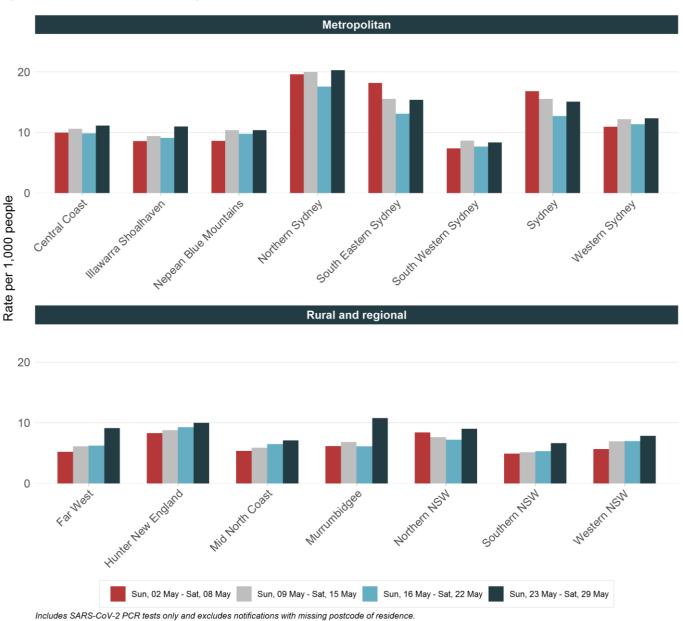
Includes SARS-CoV-2 PCR tests only and excludes repeat positive tests for an individual

Interpretation: Testing numbers increased in the week ending 29 May (up 15%) compared to the previous week. The average daily testing rate of 1.9 per 1,000 people in NSW each day increased compared to the previous week of 1.6 per 1,000 people.

¹ The number of tests per day displayed below is different to the 24 hour increase in tests reported each day as there are delays in some laboratories providing negative results to NSW Health.

Testing by Local Health District

Figure 9. Rates of COVID-19 testing by LHD of residence, NSW, 2 May to 29 May 2021

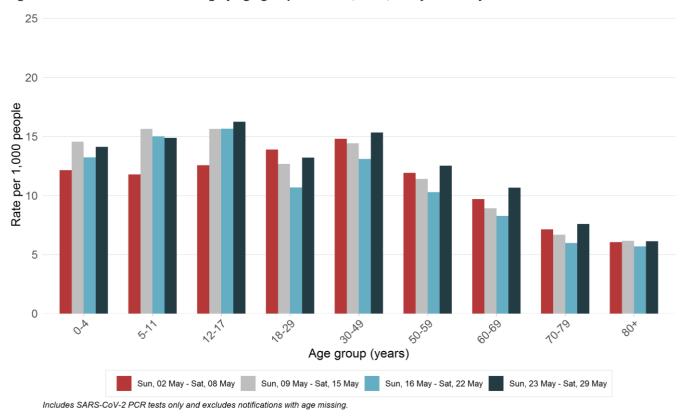


includes SARS-Cov-2 PCR lesis only and excludes notifications with missing postcode of residence.

Interpretation: State-wide weekly testing rates in the week ending 29 May increased when compared to the previous week (13.2 per 1,000 people compared to 11.4 per 1,000 people). The rate of testing in the last week doubled in the Murrumbidgee LHD, this was likely in response to the current Melbourne cluster and border exposure locations.

Testing by age group

Figure 10. Rates of COVID-19 testing by age group and week, NSW, 2 May to 29 May 2021



Interpretation: In the week ending 29 May, testing rates increased across most age groups when compared to the previous week, and were generally higher than the end of April.

Section 10: NSW Sewage Surveillance Program

The NSW Sewage Surveillance Program tests untreated sewage for fragments of the COVID-19 (SARS-CoV-2) virus at sewage treatment plant locations across NSW. In Sydney, testing is undertaken from both the sewage treatment plant (inlet sites) and sites within the network (network sites). Testing sewage can help track infections in the community and provide early warning of an increase in infections. These tests provide data to support NSW Health's response to COVID-19.

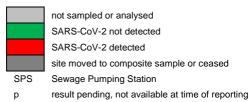
An infected person can shed virus in their faeces even if they do not have symptoms, and shedding can continue for several weeks after they are no longer infectious. The NSW sewage surveillance for SARS-CoV-2 is in the preliminary stages of analysis and work is progressing to assess the significance of the results. For example, it is not currently known the minimum number of cases that can be detected in a catchment. A small number of cases in a large sewage catchment may not be detected by sewage surveillance due to factors such as dilution, inhibition, reduction in shedding over the infection period or movement of cases.

The table below shows results for the last 10 weeks for sites that have had detections. The results from all sites across NSW are available in Appendix D.

Table 8. Locations with SARS-CoV-2 detections in sewage samples in the last 10 weeks, NSW, 21 March to 29 May 2021

| | | 27- Mar | 3- Apr | 10- Apr | 17- Apr | 24- Apr | 1- May | 8- May | 15- May | 22- May | 29- May |
|----------------|----------------------------------|------------|-----------|------------|------------|------------|-----------|-----------|------------|------------|------------|
| Pop. | Location | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| Sydney sewa | ge treatment plant (inlet sites) | | | | | | | | | | |
| 318,810 | Bondi | | | | | | | | | | |
| 4.057.740 | Malabar 1 | | | | | | | | | | |
| 1,857,740 | Malabar 2 | | | | | | | | | | |
| Sydney netw | ork sites | | | | | | | | | | |
| Bondi | Paddington Sewage Network | | | | | | | | | | |
| Malabar | Marrickville Sewage Network 1 | | | | | | | | | | |
| Malabar | Marrickville Sewage Network 2 | | | | | | | | | | |
| Malabar | Homebush SPS | | | | | | | | | | |
| Malabar | Olympic Park | | | | | | | | | | |
| Malabar | Botany Sewage Network | | | | | | | | | | |
| North Head | Allambie Heights Sewage Network | | | | | | | | | | |
| Regional sites | | | | | | | | _ | | | |
| 15,500 | Merimbula | | | | | | | | | | |
| 225,834 | Hunter - Burwood Beach | | | | | | | | | | |
| 7,700 | Lennox Head | | | | | | | | | | |

Sampling commenced week ending 18 July 2020



Interpretation: In the week ending 29 May, 145 sewage samples were tested for fragments of SARS-CoV-2. Of these, there were five detections – taken from the Bondi and Malabar sewage treatment plants and the sewage network at Paddington (within the Bondi catchment), Homebush (within the Malabar catchment) and Botany (within the Malabar catchment). All contain quarantine hotels where cases are known to have stayed or were associated with known cases in returned travellers. People can continue to shed fragments of the virus for several weeks.

Section 11: Other respiratory infections in NSW

Influenza and other respiratory virus cases and tests reported in NSW, up to 23 May 2021

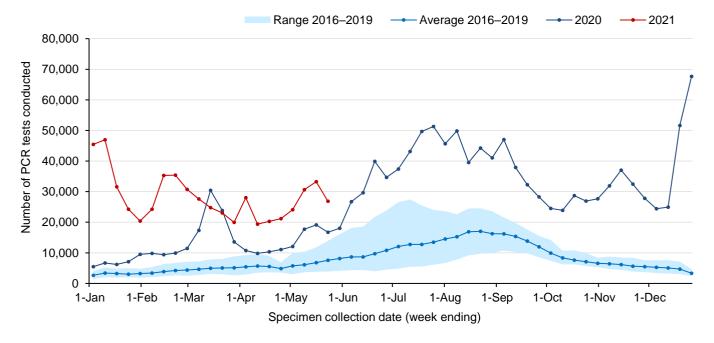
In NSW, routine surveillance for influenza and other respiratory viruses is conducted through sentinel laboratories. The number of all PCR tests (positive and negative) are provided to NSW Health by participating laboratories each week. Testing counts reflect the number of influenza PCR tests conducted; not all samples are tested for all respiratory viruses.

The most recent data available is for testing carried out to 23 May 2021. A total of 593,543 influenza tests have been performed at participating laboratories from 28 December 2020. Refer to Appendix B for PCR testing results for a range of respiratory viruses.

How much influenza testing is happening?

The red line in the figure below shows the number of PCR tests for influenza carried out each week in 2021, the dark blue line showing PCR tests for 2020. The light blue line shows the average number of PCR tests carried out for the same week in the previous four years (2016–2019) and the shaded area shows the range of tests reported in the same time period.

Figure 11. Testing for influenza by week, NSW, 1 January 2016 to 23 May 2021



Interpretation: In the week ending 23 May, the number of influenza tests decreased, with 26,889 influenza tests performed across participating laboratories compared with 33,277 the previous week. Testing for influenza continues to exceed the four-year average for this time of year.

How much influenza is circulating?

2.0

1.0

0.0

1-Jan

1-Feb

1-Mar

The graph below shows the proportion of tests found to be positive for influenza with the red line showing weekly counts for 2021, the dark blue line showing counts for 2020, the light blue line showing the average for 2016 to 2019 and the shaded area showing the range recorded for 2016 to 2019.

-2020 Range 2016-2019 Average 2016-2019 2021 50 40 Percent positive (%) 30 20 10 0 1-Apr 1-Jan 1-Feb 1-Mar 1-May 1-Jun 1-Jul 1-Aug 1-Sep 1-Oct 1-Nov 1-Dec Specimen collection date (week ending)

Figure 12. Proportion of tests positive for influenza, NSW, 1 January 2016 to 23 May 2021

Interpretation: In the week ending 23 May, the percent of influenza tests that were positive continued to be very low (<0.01%), indicating limited influenza transmission in the community. Since early March 2020, this percentage has remained far lower than the usual range for the time of year. There have been 10 influenza cases reported in 2021. Investigations into the source of these cases are ongoing, and further confirmatory testing is underway.

How many people have flu-like symptoms in the community?

FluTracking is an online survey that asks participants to report flu-like symptoms, such as fever or cough, in the last week. Across NSW approximately 25,000-30,000 people participate each week. The survey usually commences at the beginning of May in line with the flu season but has continued throughout the year due to the COVID-19 outbreak.

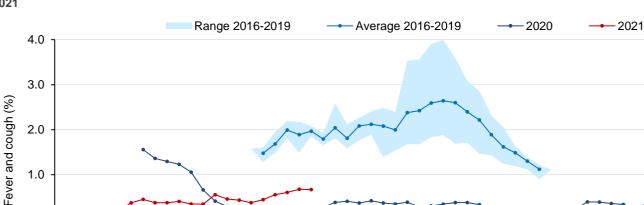


Figure 13. Proportion of FluTracker participants reporting influenza-like illness, NSW, 1 January 2016 to 30 May 2021

Interpretation: In NSW in the week ending 30 May, of the 21,385 people surveyed, 143 people (0.67%) reported flu-like symptoms. In the last four weeks, 47% (286/601) of new cases of flu-like illness reported having a COVID-19 test. The proportion of people being tested for COVID-19 has decreased since January, when 80% of people surveyed with flu-like symptoms were being tested, and has remained at around 50% since early April 2021.

1-Jun

1-Jul

Week ending

1-Sep

1-Aug

1-Oct

1-Nov

1-May

1-Apr

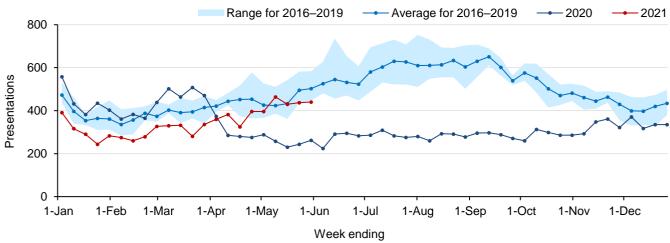
1-Dec

How are emergency department presentations tracking?

Improved hygiene and social distancing measures implemented during the COVID-19 pandemic have impacts on a broad range of other viral and bacterial infections.

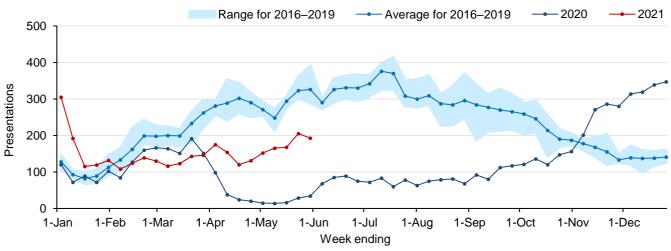
The figures below show weekly pneumonia and bronchiolitis presentations to Emergency Departments in NSW, using PHREDSS². The red line shows the weekly counts for 2021, the dark blue line showing counts for 2020, the light blue line showing the average for 2016 to 2019 and the shaded area showing the range recorded for 2016 to 2019.

Figure 14. Emergency Department pneumonia presentations, NSW, 1 January 2016 to 30 May 2021



Interpretation: Pneumonia presentations include people with diagnoses of viral, bacterial, atypical or unspecified pneumonia, and Legionnaires' disease, but excludes 'pneumonia with influenza' and provides an indicator of more severe respiratory conditions. In the week ending 30 May, pneumonia presentations remained below the seasonal average for this time of year.

Figure 15. Emergency Department bronchiolitis presentations, NSW, 1 January 2016 to 30 May 2021



Interpretation: Bronchiolitis is a common disease of infants often caused by respiratory syncytial virus (RSV). Public health measures introduced last year around social distancing and improved hygiene practices coincided with a large decrease in bronchiolitis presentations for the majority of 2020. A rise in bronchiolitis presentations in the later part of 2020 corresponds to an increase in RSV detections. In the week ending 30 May 2021, bronchiolitis presentations deceased and remain below the seasonal range for this time of year.

² NSW Health Public Health Rapid, Emergency Disease and Syndromic Surveillance (PHREDSS) system, CEE, NSW Ministry of Health. Comparisons are made with data for the preceding 5 years. Includes unplanned presentations to 67 NSW emergency departments (accounts for 87% of total public ED activity).

Appendix A: COVID-19 PCR tests in NSW by Local Government Area

| | | Week ending | | | Total since January 2021 | | | |
|--------------------------|-------------------------|-------------|----------------------------------|------|----------------------------------|--------|----------------------------------|--|
| | | 29- | May | 22- | May | , i | | |
| Local Health District | Local Government Area | No. | Tests per 1,000 population | No. | Tests per 1,000 population | No. | Tests per 1,000 population | |
| Central Coast | LHD Totaf | 3926 | 11.13 | 3485 | 9.88 | 222372 | 630.19 | |
| | Balranald | 35 | 14.97 | 4 | 1.71 | 744 | 318.22 | |
| | Broken Hill | 155 | 8.87 | 139 | 7.95 | 9784 | 559.76 | |
| Far West | Central Darling | 4 | 2.18 | 4 | 2.18 | 581 | 315.93 | |
| | Wentworth | 81 | 11.48 | 41 | 5.81 | 3571 | 506.31 | |
| | LHD Total ² | 275 | 9.12 | 188 | 6.24 | 14680 | 487.00 | |
| | Armidale Regional | 268 | 8.71 | 254 | 8.25 | 15563 | 505.64 | |
| | Cessnock | 329 | 5.48 | 283 | 4.72 | 22706 | 378.53 | |
| | Dungog | 67 | 7.11 | 62 | 6.58 | 3820 | 405.39 | |
| | Glen Innes Severn | 31 | 3.49 | 33 | 3.72 | 2778 | 313.16 | |
| | Gunnedah | 65 | 5.13 | 68 | 5.36 | 4808 | 379.15 | |
| | Gwydir | 23 | 4.30 | 30 | 5.60 | 1081 | 201.94 | |
| | Inverell | 139 | 8.23 | 113 | 6.69 | 6412 | 379.63 | |
| | Lake Macquarie | 2579 | 12.53 | 2511 | 12.20 | 138243 | 671.41 | |
| | Liverpool Plains | 47 | 5.95 | 41 | 5.19 | 3141 | 397.44 | |
| | Maitland | 1140 | 13.39 | 1046 | 12.28 | 62173 | 730.02 | |
| | Mid-Coast | 542 | 5.78 | 467 | 4.98 | 36302 | 386.87 | |
| Hunter New England | Moree Plains | 61 | 4.60 | 62 | 4.68 | 4473 | 337.30 | |
| 9 | Muswellbrook | 131 | 8.00 | 111 | 6.78 | 6773 | 413.57 | |
| | Narrabri | 49 | 3.73 | 68 | 5.18 | 3756 | 285.95 | |
| | Newcastle | 2414 | 14.58 | 2230 | 13.47 | 134168 | 810.34 | |
| | Port Stephens | 656 | 8.93 | 556 | 7.57 | 42281 | 575.40 | |
| | Singleton | 186 | 7.93 | 196 | 8.35 | 13890 | 592.05 | |
| | Tamworth Regional | 612 | 9.79 | 554 | 8.86 | 33776 | 540.06 | |
| | Tenterfield | 24 | 3.64 | 13 | 1.97 | 1730 | 262.36 | |
| | Upper Hunter Shire | 106 | 7.48 | 83 | 5.85 | 6134 | 432.58 | |
| | Uralla | 23 | 3.83 | 30 | 4.99 | 1889 | 314.20 | |
| | Walcha | 24 | 7.66 | 22 | 7.02 | 1361 | 434.27 | |
| | LHD Totaf | 9518 | 9.99 | 8833 | 9.27 | 546838 | 574.18 | |
| | Kiama | 310 | 13.26 | 235 | 10.05 | 15649 | 669.16 | |
| | Shellharbour | 721 | 9.85 | 695 | 9.49 | 47351 | 646.58 | |
| Illawarra Shoalhaven | Shoalhaven | 873 | 8.26 | 713 | 6.75 | 52003 | 492.23 | |
| Gilouinavoii | Wollongong | 2712 | 12.43 | 2181 | 10.00 | 151951 | 696.66 | |
| | LHD Totaf | 4616 | 11.00 | 3824 | 9.11 | 266954 | 636.19 | |
| | Bellingen | 115 | 8.85 | 120 | 9.23 | 6040 | 464.76 | |
| | Coffs Harbour | 503 | 6.51 | 419 | 5.42 | 31489 | 407.48 | |
| Mid North | Kempsey | 200 | 6.72 | 167 | 5.61 | 13710 | 460.92 | |
| Coast | Nambucca | 95 | 4.80 | 89 | 4.49 | 7404 | 373.84 | |
| | Port Macquarie-Hastings | 691 | 8.18 | 672 | 7.95 | 40318 | 476.99 | |
| | LHD Total ² | 1604 | 7.11 | 1467 | 6.50 | 98961 | 438.53 | |
| Murrumbidgee | Albury | 902 | 16.60 | 407 | 7.49 | 27700 | 509.63 | |
| | | | | | | | | |

COVID-19 WEEKLY SURVEILLANCE IN NSW

Epidemiological week 21, ending 29 May 2021

| | | 29- | Week e | | May | Total since January 2021 | | | | |
|--------------------------|----------------------------------|------|----------------------------------|------|----------------------------------|--------------------------|----------------------------------|--|--|--|
| Local Health District | Local Government Area | No. | Tests per 1,000 population | No. | Tests per 1,000 population | No. | Tests per 1,000 population | | | |
| | Berrigan | 35 | 4.00 | 12 | 1.37 | 2545 | 290.86 | | | |
| | Bland | 25 | 4.19 | 23 | 3.85 | 2107 | 352.81 | | | |
| | Carrathool | 9 | 3.22 | 3 | 1.07 | 464 | 165.77 | | | |
| | Coolamon | 34 | 7.83 | 19 | 4.38 | 1884 | 434.00 | | | |
| | Cootamundra-Gundagai Regional | 65 | 5.79 | 60 | 5.34 | 4273 | 380.33 | | | |
| | Edward River | 72 | 7.93 | 22 | 2.42 | 3551 | 390.91 | | | |
| | Federation | 135 | 10.85 | 44 | 3.54 | 4496 | 361.50 | | | |
| | Greater Hume Shire | 147 | 13.66 | 73 | 6.78 | 4714 | 437.94 | | | |
| | Griffith | 265 | 9.80 | 200 | 7.40 | 13370 | 494.65 | | | |
| | Hay | 15 | 5.09 | 5 | 1.70 | 727 | 246.52 | | | |
| | Hilltops | 157 | 8.39 | 113 | 6.04 | 7795 | 416.76 | | | |
| | Junee | 16 | 2.39 | 22 | 3.29 | 2049 | 306.60 | | | |
| | Lachlan ¹ | 20 | 3.29 | 19 | 3.13 | 1311 | 215.80 | | | |
| | Leeton | 63 | 5.50 | 49 | 4.28 | 3884 | 339.36 | | | |
| | Lockhart | 21 | 6.39 | 18 | 5.48 | 1145 | 348.55 | | | |
| | Murray River | 150 | 12.38 | 6 | 0.50 | 1258 | 103.81 | | | |
| | LHD Totaf | 25 | 6.38 | 9 | 2.30 | 1159 | 295.89 | | | |
| | Narrandera | 20 | 3.39 | 8 | 1.36 | 1487 | 252.08 | | | |
| | Snowy Valleys | 83 | 5.73 | 76 | 5.25 | 5969 | 412.25 | | | |
| | Temora | 25 | 3.96 | 18 | 2.85 | 1788 | 283.49 | | | |
| | Wagga Wagga | 924 | 14.16 | 633 | 9.70 | 39423 | 604.11 | | | |
| | LHD Totaf | 3214 | 10.78 | 1824 | 6.12 | 132228 | 443.56 | | | |
| | Blue Mountains | 1082 | 13.68 | 927 | 11.72 | 66209 | 836.84 | | | |
| | Hawkesbury | 798 | 11.86 | 756 | 11.23 | 45455 | 675.45 | | | |
| Nepean Blue | Lithgow | 100 | 4.63 | 112 | 5.18 | 9159 | 423.93 | | | |
| Mountains | Penrith | 2110 | 9.91 | 2051 | 9.63 | 158590 | 744.63 | | | |
| | LHD Totaf | 4065 | 10.40 | 3823 | 9.78 | 277264 | 709.14 | | | |
| | Ballina | 576 | 12.91 | 440 | 9.86 | 32605 | 730.60 | | | |
| | Byron | 430 | 12.26 | 319 | 9.09 | 25715 | 733.02 | | | |
| | Clarence Valley | 273 | 5.28 | 222 | 4.30 | 17704 | 342.69 | | | |
| | Kyogle | 47 | 5.34 | 52 | 5.91 | 2880 | 327.42 | | | |
| Northern NSW | Lismore | 490 | 11.21 | 410 | 9.38 | 25073 | 573.86 | | | |
| | Richmond Valley | 218 | 9.29 | 190 | 8.10 | 11046 | 470.74 | | | |
| | Tenterfield | 24 | 3.64 | 13 | 1.97 | 1730 | 262.36 | | | |
| | Tweed | 759 | 7.82 | 603 | 6.22 | 41079 | 423.49 | | | |
| | LHD Total | 2799 | 9.02 | 2238 | 7.21 | 156491 | 504.22 | | | |
| | Hornsby | 2314 | 15.22 | 2030 | 13.35 | 109791 | 722.03 | | | |
| | Hunters Hill | 562 | 37.52 | 448 | 29.91 | 24747 | 1652.00 | | | |
| | Ku-ring-gai | 3153 | 24.80 | 2635 | 29.91 | 145264 | 1142.43 | | | |
| Nauth | Lane Cove | 1462 | 36.41 | 1364 | 33.97 | 69929 | 1741.48 | | | |
| Northern Sydney | Mosman | 636 | 20.53 | 494 | 15.95 | 29611 | 955.78 | | | |
| -,, | North Sydney | 1105 | 20.53 14.73 | 944 | 12.58 | 54773 | 730.10 | | | |
| | Northern Beaches | | | | | | | | | |
| | | 5555 | 20.31 | 4931 | 18.03 | 362866 | 1326.75 | | | |
| | Parramatta ¹ | 3292 | 12.80 | 2861 | 11.12 | 160948 | 625.78 | | | |

| | | | Week e | anding | | | | | |
|--------------------------|-----------------------------------|-------|----------------------------------|--------|----------------------------------|--------------------------|----------------------------------|--|--|
| | | 29- | May | | May | Total since January 2021 | | | |
| Local Health District | Local Government Area | No. | Tests per 1,000 population | No. | Tests per 1,000 population | No. | Tests per 1,000 population | | |
| | Ryde | 2495 | 19.01 | 2153 | 16.40 | 103901 | 791.50 | | |
| | Willoughby | 1323 | 16.30 | 1101 | 13.56 | 56745 | 698.92 | | |
| | LHD Total ² | 19389 | 20.28 | 16808 | 17.58 | 990739 | 1036.43 | | |
| | Bayside | 2043 | 11.45 | 1741 | 9.76 | 106264 | 595.66 | | |
| | Georges River | 1604 | 10.06 | 1493 | 9.36 | 90040 | 564.62 | | |
| | Randwick | 2775 | 17.83 | 2326 | 14.94 | 144900 | 930.94 | | |
| South Eastern | Sutherland Shire | 3323 | 14.41 | 2902 | 12.58 | 185624 | 804.92 | | |
| Sydney | Sydney ¹ | 4833 | 19.62 | 3808 | 15.46 | 238774 | 969.27 | | |
| | Waverley | 1535 | 20.66 | 1287 | 17.32 | 83724 | 1126.91 | | |
| | Woollahra | 1531 | 25.78 | 1376 | 23.17 | 73722 | 1241.38 | | |
| | LHD Total | 14756 | 15.39 | 12552 | 13.09 | 771420 | 804.32 | | |
| | Camden | 1327 | 13.08 | 1285 | 12.67 | 94943 | 935.98 | | |
| | Campbelltown | 1829 | 10.70 | 1683 | 9.85 | 128070 | 749.20 | | |
| | Canterbury-Bankstown ¹ | 3335 | 8.82 | 3071 | 8.13 | 225058 | 595.52 | | |
| South Western | Fairfield | 1140 | 5.39 | 1043 | 4.93 | 97964 | 462.76 | | |
| Sydney | Liverpool | 1897 | 8.34 | 1745 | 7.67 | 153686 | 675.29 | | |
| | Wingecarribee | 599 | 11.71 | 463 | 9.05 | 40487 | 791.78 | | |
| | Wollondilly | 388 | 7.30 | 373 | 7.02 | 27250 | 512.71 | | |
| | LHD Totaf | 8667 | 8.35 | 7988 | 7.69 | 651830 | 627.64 | | |
| | Bega Valley | 306 | 8.88 | 210 | 6.09 | 14632 | 424.41 | | |
| | Eurobodalla | 263 | 6.84 | 219 | 5.69 | 21618 | 561.90 | | |
| | Goulburn Mulwaree | 202 | 6.49 | 172 | 5.52 | 15241 | 489.56 | | |
| Southern NSW | Queanbeyan-Palerang Regional | 354 | 5.79 | 289 | 4.73 | 21459 | 351.21 | | |
| Southern NSW | Snowy Monaro Regional | 160 | 7.69 | 142 | 6.83 | 9314 | 447.90 | | |
| | Upper Lachlan Shire | 56 | 6.95 | 43 | 5.34 | 3459 | 429.21 | | |
| | Yass Valley | 101 | 5.91 | 78 | 4.56 | 5238 | 306.55 | | |
| | LHD Totaf | 1442 | 6.64 | 1153 | 5.31 | 90993 | 419.19 | | |
| | Burwood | 308 | 7.58 | 311 | 7.66 | 21169 | 521.25 | | |
| | Canada Bay | 1531 | 15.94 | 1318 | 13.72 | 82140 | 854.97 | | |
| | Canterbury-Bankstown ¹ | 3335 | 8.82 | 3071 | 8.13 | 225058 | 595.52 | | |
| Sydney | Inner West | 3333 | 16.60 | 2733 | 13.61 | 189546 | 943.90 | | |
| | Strathfield | 653 | 13.92 | 498 | 10.61 | 37228 | 793.33 | | |
| | LHD Tota ^p | 4833 | 19.62 | 3808 | 15.46 | 238774 | 969.27 | | |
| | LHD Totaf | 10516 | 15.09 | 8878 | 12.74 | 593080 | 851.18 | | |
| | Bathurst Regional | 448 | 10.27 | 406 | 9.31 | 25919 | 594.23 | | |
| | Blayney | 85 | 11.52 | 44 | 5.96 | 4227 | 572.84 | | |
| | Bogan | 19 | 7.36 | 14 | 5.43 | 1120 | 434.11 | | |
| | Bourke | 6 | 2.32 | 4 | 1.54 | 682 | 263.32 | | |
| | Brewarrina | 3 | 1.86 | 5 | 3.10 | 391 | 242.71 | | |
| Western NSW | Cabonne | 89 | 6.53 | 88 | 6.45 | 4423 | 324.41 | | |
| | Cobar | 33 | 7.08 | 31 | 6.66 | 1490 | 319.88 | | |
| | Coonamble | 7 | 1.77 | 14 | 3.54 | 1185 | 299.39 | | |
| | Cowra | 112 | 8.79 | 111 | 8.71 | 4883 | 383.19 | | |
| | Dubbo Regional | 380 | 7.07 | 328 | 6.11 | 24966 | 464.75 | | |
| | Forbes | 39 | 3.94 | 31 | 3.13 | 2890 | 291.74 | | |
| | | | | | | | | | |

COVID-19 WEEKLY SURVEILLANCE IN NSW

Epidemiological week 21, ending 29 May 2021

| | | | Week | ending | | Total since January 2021 | | |
|--------------------------|-------------------------|--------|----------------------------------|--------|----------------------------------|--------------------------|----------------------------------|--|
| | | 29- | May | 22- | May | Total Since C | January 2021 | |
| Local Health District | Local Government Area | No. | Tests per 1,000 population | No. | Tests per 1,000 population | No. | Tests per 1,000 population | |
| | Gilgandra | 8 | 1.89 | 17 | 4.01 | 1226 | 289.22 | |
| | Lachlan ¹ | 20 | 3.29 | 19 | 3.13 | 1311 | 215.80 | |
| | Mid-Western Regional | 249 | 9.86 | 257 | 10.18 | 11874 | 470.24 | |
| | Narromine | 34 | 5.22 | 41 | 6.29 | 2389 | 366.58 | |
| | Oberon | 45 | 8.32 | 50 | 9.24 | 2220 | 410.28 | |
| | Orange | 499 | 11.75 | 396 | 9.33 | 29662 | 698.74 | |
| | Parkes | 70 | 4.72 | 55 | 3.71 | 5431 | 366.04 | |
| | Walgett | 15 | 2.52 | 8 | 1.34 | 1962 | 329.58 | |
| | Warren | 18 | 6.67 | 19 | 7.04 | 1697 | 629.22 | |
| | Warrumbungle Shire | 48 | 5.17 | 39 | 4.20 | 3613 | 389.42 | |
| | Weddin | 15 | 4.15 | 16 | 4.43 | 1129 | 312.48 | |
| | LHD Totaf | 2232 | 7.83 | 1989 | 6.98 | 134314 | 471.26 | |
| | Blacktown | 4513 | 12.05 | 4279 | 11.43 | 265532 | 709.12 | |
| | Cumberland | 2424 | 10.04 | 2297 | 9.51 | 166978 | 691.36 | |
| Western Sydney | Parramatta ¹ | 3292 | 12.80 | 2861 | 11.12 | 160948 | 625.78 | |
| Cydney | The Hills Shire | 3479 | 19.55 | 3175 | 17.84 | 175910 | 988.43 | |
| | LHD Totaf | 13000 | 12.34 | 11968 | 11.36 | 742838 | 705.16 | |
| NSW Total ³ | | 106548 | 13.17 | 92071 | 11.38 | 1910771 | 236.19 | |

Appendix B: Number of positive PCR test results for influenza and other respiratory viruses at sentinel NSW laboratories, January 2020 to 23 May 2021

The reported testing numbers reflect the number of influenza PCR tests conducted. Not all samples are tested for all of the other respiratory viruses. Therefore, data presented may tend to under-represent current respiratory virus activity in NSW.

Testing numbers in NSW from 28 December 2020–23 May 2021

| Specimen collection date | PCR tests conducted | Influ No. | uenza A %Pos | Influ No. | uenza B %Pos | Adeno- virus | Para- influenza | RSV | Rhino- virus | HMPV** | Entero- virus |
|--------------------------|---------------------|--------------|-----------------|--------------|-----------------|-----------------|--------------------|--------|-----------------|--------|------------------|
| | | | | | | | | | | | |
| Total | 593,543 | 3 | <0.01% | 7 | <0.01% | 2,797 | 3,820 | 10,235 | 35,560 | 139 | 4,350 |
| Month ending | | | | | | | | | | | |
| 31 January* | 168,596 | 1 | <0.01% | 0 | 0.00% | 416 | 88 | 3,275 | 3,541 | 23 | 560 |
| 28 February | 125,718 | 2 | <0.01% | 0 | 0.00% | 419 | 106 | 2,386 | 8,667 | 22 | 910 |
| 28 March | 95,458 | 0 | 0.00% | 0 | 0.00% | 507 | 354 | 1,909 | 8,891 | 18 | 1,187 |
| 2 May* | 112,962 | 0 | 0.00% | 3 | <0.01% | 802 | 1,515 | 1,653 | 8,141 | 48 | 1,128 |
| Week ending | | | | | | | | | | | |
| 9 May | 30,643 | 0 | 0.00% | 1 | <0.01% | 265 | 490 | 336 | 2,112 | 8 | 174 |
| 16 May | 33,277 | 0 | 0.00% | 1 | <0.01% | 228 | 739 | 379 | 2,306 | 10 | 202 |
| 23 May | 26,889 | 0 | - 0.00% | 2 | <0.01% | 214 | 528 | 297 | 1,902 | 10 | 189 |

Testing numbers in NSW from January-27 December 2020

| Specimen | PCR tests | Influ | enza A | Influ | enza B | Adeno- | Para- | RSV | Rhino- | HMPV** | Entero- |
|-----------------|-----------|-------|--------|-------|--------|--------|-----------|--------|---------|--------|---------|
| collection date | conducted | No. | %Pos. | No. | %Pos. | virus | influenza | KSV | virus | пигу | virus |
| Total | 1,393,182 | 6,631 | 0.48% | 955 | 0.07% | 9,139 | 9,193 | 22,004 | 138,737 | 2,435 | 6,434 |
| Month ending | | | | | | | | | | | |
| 3 February * | 34,953 | 2,508 | 7.18% | 401 | 1.15% | 846 | 1,900 | 752 | 5,036 | 599 | 335 |
| 1 March | 40,575 | 2,363 | 5.82% | 315 | 0.78% | 798 | 2,435 | 1,118 | 8,245 | 437 | 1,007 |
| 29 March | 85,238 | 1,549 | 1.82% | 200 | 0.23% | 898 | 4,117 | 1,977 | 18,088 | 664 | 1,502 |
| 3 May * | 54,128 | 70 | 0.13% | 13 | 0.02% | 175 | 273 | 410 | 2,250 | 48 | 210 |
| 31 May | 71,525 | 35 | 0.05% | 6 | 0.01% | 237 | 62 | 115 | 3,511 | 27 | 112 |
| 28 June | 130,922 | 42 | 0.03% | 11 | 0.01% | 629 | 83 | 178 | 28,321 | 112 | 246 |
| 2 August * | 227,152 | 34 | 0.01% | 2 | <0.01% | 1,251 | 89 | 209 | 31,589 | 79 | 427 |
| 30 August | 174,594 | 9 | 0.01% | 2 | <0.01% | 1,137 | 37 | 299 | 13,926 | 14 | 235 |
| 27 September | 145,489 | 6 | 0.00% | 1 | <0.01% | 938 | 35 | 866 | 8,416 | 61 | 259 |
| 1 November * | 131,686 | 7 | 0.01% | 1 | <0.01% | 894 | 56 | 3,508 | 5,632 | 51 | 662 |
| 29 November | 129,164 | 6 | <0.01% | 3 | <0.01% | 752 | 42 | 6,255 | 8,252 | 192 | 884 |
| 27 December | 167,756 | 2 | <0.01% | 0 | _ | 584 | 64 | 6,317 | 5,471 | 151 | 555 |

Notes: Preliminary laboratory data is provided by participating sentinel laboratories on a weekly basis and are subject to change. Serological diagnoses are not included.

HMPV – Human

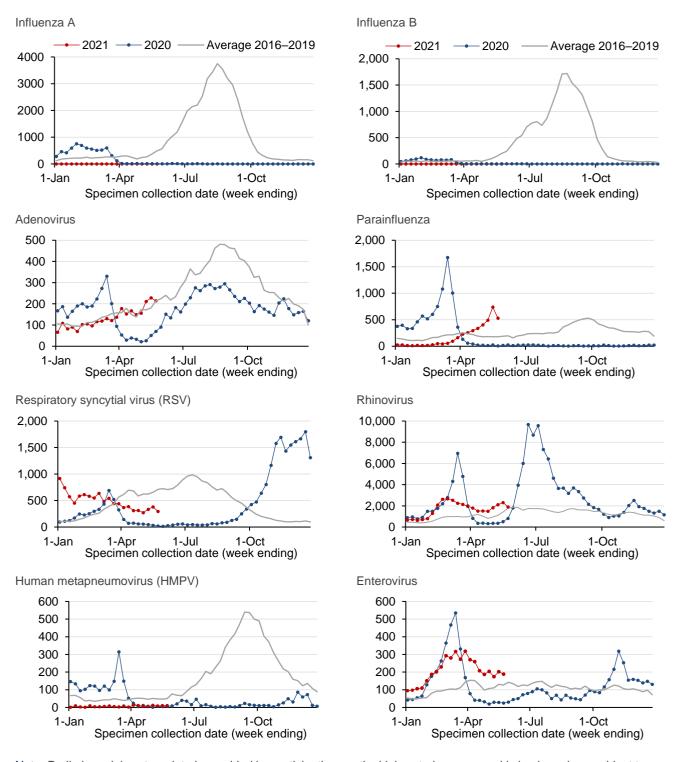
metapneumovirus

RSV - Respiratory syncytial virus

*Five-week period

Appendix C: Number of positive PCR test results for influenza and other respiratory viruses at sentinel NSW laboratories, January 2020 to 23 May 2021

Not all samples are tested for all of the other respiratory viruses. Therefore, data presented may tend to under-represent current respiratory virus activity in NSW.



Note: Preliminary laboratory data is provided by participating sentinel laboratories on a weekly basis and are subject to change. Serological diagnoses are not included.

Appendix D: SARS-CoV-2 testing in sewage samples collected in the previous 10 weeks, week ending 29 May 2021

The NSW Sewage Surveillance Program tests untreated sewage for fragments of the COVID-19 (SARS-CoV-2) virus at sewage treatment plant locations across NSW. Griffith sewage treatment plant has been added as a new site. The table below shows results for the last 10 weeks of samples collected across all sites in NSW.

| Sydney Sites | | 27- Mar | 3- Apr | 10- Apr | 17- Apr | 24- Apr | 1- May | 8- May | 15- May | 22- May | 29- May |
|--------------|---------------------------|------------|-----------|------------|------------|------------|-----------|-----------|------------|------------|------------|
| Pop. | Location | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 60, 514 | Blue Mountains (Winmalee) | | | | | | | | | | |
| 4,681 | North Richmond | | | | | | | | | | |
| 13,052 | Richmond | | | | | | | | | | |
| 110,114 | Penrith | | | | | | | | | | |
| 12,000 | Lithgow | | | | | | | | | | |
| 19,000 | South Windsor | | | | | | | | | | |
| 8,000 | McGraths Hill | | | | | | | | | | |
| 69,245 | Warriewood | | | | | | | | | | |
| 1,241 | Brooklyn | | | | | | | | | | |
| 31,924 | Hornsby Heights | | | | | | | | | | |
| 57,933 | West Hornsby | | | | | | | | | | |
| 318,810 | Bondi | | | | | | | | | | |
| 233,176 | Cronulla | | | | | | | | | | |
| 1 057 740 | Malabar 1 | | | | | | | | | | |
| 1,857,740 | Malabar 2 | | | | | | | | | | |
| 181,005 | Liverpool | | | | | | | | | | |
| 98,743 | West Camden | | | | | | | | | | |
| 6,882 | Wallacia | | | | | | | | | | |
| 14,600 | Picton | | | | | | | | | | |
| 161,200 | Glenfield | | | | | | | | | | |
| 1,341,986 | North Head | | | | | | | | | | |
| 26,997 | Castle Hill Cattai | | | | | | | | | | |
| 20,997 | Castle Hill Glenhaven | | | | | | | | | | |
| 163,374 | Quakers Hill | | | | | | | | | | |
| 119,309 | Rouse Hill | | | | | | | | | | |
| 37,061 | Riverstone | | | | | | | | | | |
| 163,147 | St Marys | | | | | | | | | | |
| 73,686 | Shellharbour | | | | | | | | | | |
| 55,000 | Wollongong | | | | | | | | | | |
| 68,000 | Port Kembla | | | | | | | | | | |
| 93,000 | Bellambi | | | | | | | | | | |

COVID-19 WEEKLY SURVEILLANCE IN NSW

| E | pidemiolo | gical | week 21 | . endino | 29 May | v 2021 |
|---|-----------|-------|---------|----------|--------|--------|
| _ | | ~ | | | | |

| Sydney Netw | ork Sites | 27- Mar | 3- Apr | 10- Apr | 17- Apr | 24- Apr | 1- May | 8- May | 15- May | 22- May | 29- May |
|--------------|--|------------|-----------|------------|------------|------------|-----------|-----------|------------|------------|------------|
| Network | Location | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| Bondi | Paddington Sewage Network | | | | | | | | | | |
| Bondi | Rozelle Sewage Network | | | | | | | | | | |
| Cronulla | Caringbah Sewage Network | | | | | | | | | | |
| Cronulla | Miranda Sewage Network | | | | | | | | | | |
| Malabar | Earlwood Sewage Network | | | | | | | | | | |
| Malabar | Marrickville Sewage Network 1 | | | | | | | | | | |
| Malabar | Marrickville Sewage Network 2 | | | | | | | | | | |
| Malabar | Bardwell Creek Sewage Network | | | | | | | | | | |
| Malabar | Arncliffe Sewage Network 1 | | | | | | | | | | |
| Malabar | Arncliffe Sewage Network 2 | | | | | | | | | | |
| Malabar | Blakehurst Sewage Network | | | | | | | | | | |
| Malabar | Padstow Sewage Network 1 | | | | | | | | | | |
| Malabar | Padstow Sewage Network 2 | | | | | | | | | | |
| Malabar | Fairfield Sewage Pumping Station 1 | | | | | | | | | | |
| Malabar | Fairfield Sewage Pumping Station 2 | | | | | | | | | | |
| Malabar | Homebush Sewage Pumping Station | | | | | | | | | | |
| Malabar | Olympic Park | | | | | | | | | | |
| Malabar | Croydon Sewage Network | | | | | | | | | | |
| Malabar | Dulwich Hill Sewage Network | | | | | | | | | | |
| Malabar | Canterbury Sewage Network | | | | | | | | | | |
| Malabar | Botany Sewage Network | | | | | | | | | | |
| Malabar | Maroubra Sewage Network | | | | | | | | | | |
| North Head | Camellia Sewage Pumping Station - North | | | | | | | | | | |
| North Head | Camellia Sewage Pumping Station - South | | | | | | | | | | |
| North Head | Auburn Sewage Network | | | | | | | | | | |
| North Head | Northmead Sewage Pumping Station | | | | | | | | | | |
| North Head | Northmead Sewage Network | | | | | | | | | | |
| North Head | Tunks Park Sewage Network | | | | | | | | | | |
| North Head | Vineyard Creek Sewage Network | | | | | | | | | | |
| North Head | Boronia Park Sewage Network | | | | | | | | | | |
| North Head | West Lindfield Sewage Network | | | | | | | | | | |
| North Head | Lane Cove West Sewage Network | | | | | | | | | | |
| North Head | Allambie Heights Sewage Network | | | | | | | | | | |
| North Head | Buffalo Creek Reserve Sewage Network | | | | | | | | | | |
| Glenfield | Minto Sewage Network | | | | | | | | | | |
| Liverpool | Ireland Park Sewage Network | | | | | | | | | | |
| Quakers Hill | Eastern Creek Sewage Network | | | | | | | | | | |
| St Marys | Ropes Creek Sewage Network | | | | | | | | | | |

COVID-19 WEEKLY SURVEILLANCE IN NSW Epidemiological week 21, ending 29 May 2021

| Regional Sites | | 27- Mar | 3- Apr | 10- Apr | 17- Apr | 24- Apr | 1- May | 8- May | 15- May | 22- May | 29- May |
|----------------|----------------------------|------------|-----------|------------|------------|------------|-----------|-----------|------------|------------|------------|
| Pop. | Location | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 14,700 | Bowral | | | | | | | | | | |
| 14,000 | Mittagong | | | | | | | | | | |
| 9,000 | Moss Vale | | | | | | | | | | |
| 1,000 | Berrima | | | | | | | | | | |
| 2,000 | Bundanoon | | | | | | | | | | |
| 900 | Robertson | | | | | | | | | | |
| 16,068 | Bombo | | | | | | | | | | |
| 7,200 | Gerringong/Gerroa | | | | | | | | | | |
| 32,000 | Ulladulla | | | | | | | | | | |
| 18,000 | Bomaderry | | | | | | | | | | |
| 37,500 | Nowra | | | | | | | | | | |
| 16,000 | St Georges Basin | | | | | | | | | | |
| 11,000 | Cullburra Beach | | | | | | | | | | |
| 139,500 | Gosford-Kincumber | | | | | | | | | | |
| 59,060 | Charmhaven | | | | | | | | | | |
| 29,300 | Wyong-Toukley | | | | | | | | | | |
| 38,900 | Bateau Bay | | | | | | | | | | |
| 41,300 | Woy Woy | | | | | | | | | | |
| 5,000 | Perisher | | | | | | | | | | |
| 8,400 | Thredbo | | | | | | | | | | |
| 3,000 | Jindabyne | | | | | | | | | | |
| 8,000 | Cooma | | | | | | | | | | |
| 500 | Gunning | | | | | | | | | | |
| 500 | Charlottes Pass | | | | | | | | | | |
| | Albury composite | С | С | С | С | С | | С | С | С | С |
| 51,750 | Albury Kremer St | | | | | | | | | | |
| | Albury Waterview | | | | | | | | | | |
| 22,419 | Goulburn | | | | | | | | | | |
| 21,000 | Batemans Bay | | | | | | | | | | |
| 18,000 | Moruya | | | | | | | | | | |
| 17,000 | Narooma | | | | | | | | | | |
| 8,000 | Eden | | | | | | | | | | |
| 15,500 | Merimbula | | | | | | | | | | |
| 5,000 | Bermagui | | | | | | | | | | |
| 7,800 | Deniliquin | | | | | | | | | | |
| 48,000 | Queanbeyan | | | | | | | | | | |
| | Wagga Wagga composite | С | С | С | С | С | С | С | С | С | С |
| | Wagga Wagga- inlet 1 | | | | | | | | | | |
| 50,000 | Wagga Wagga- inlet 2 | | | | | | | | | | |
| | Wagga Wagga -Kooringal STP | | | | | | | | | | |
| | Griffith | | | | | | | | | | |
| 2,050 | Bourke | | | | | | | | | | |
| | Dodino | | | | | | | | | | |

COVID-19 WEEKLY SURVEILLANCE IN NSW

Epidemiological week 21, ending 29 May 2021

| Regional Site | Regional Sites (con't) | | 3- Apr | 10- Apr | 17- Apr | 24- Apr | 1- May | 8- May | 15- May | 22- May | 29- May |
|---------------|--------------------------|-----------|-----------|------------|------------|------------|-----------|-----------|------------|------------|------------|
| Pop. | Location | Mar 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 40,000 | Orange | | | | | | | | | | |
| 12,000 | Mudgee | | | | | | | | | | |
| 36,603 | Bathurst | | | | | | | | | | |
| 19,000 | Broken Hill | | | | | | | | | | |
| 500 | Dareton | | | | | | | | | | |
| 11,600 | Parkes | | | | | | | | | | |
| 37,000 | Dubbo | | | | | | | | | | |
| 24,000 | Armidale | | | | | | | | | | |
| 45,000 | Tamworth | | | | | | | | | | |
| | Muswellbrook | | | | | | | | | | |
| | Narrabri | | | | | | | | | | |
| | Tenterfield | | | | | | | | | | |
| | Urbenville | | | | | | | | | | |
| 10,000 | Moree | | | | | | | | | | |
| 26,394 | Taree | | | | | | | | | | |
| 12,000 | Forster | | | | | | | | | | |
| 7,582 | Hallidays Point | | | | | | | | | | |
| 5,180 | Harrington | | | | | | | | | | |
| 10,715 | Hawks Nest | | | | | | | | | | |
| 225,834 | Hunter - Burwood Beach | | | | | | | | | | |
| 60,000 | Hunter - Shortland | | | | | | | | | | |
| 115,000 | Hunter - Belmont | | | | | | | | | | |
| 60,000 | Hunter - Morpeth | | | | | | | | | | |
| 58,300 | Hunter - Boulder Bay | | | | | | | | | | |
| 35,000 | Hunter - Raymond Terrace | | | | | | | | | | |
| 32,000 | Hunter - Dora Creek | | | | | | | | | | |
| 42,000 | Hunter - Toronto | | | | | | | | | | |
| 70,000 | Hunter - Edgeworth | | | | | | | | | | |
| 2,500 | Hunter - Karuah | | | | | | | | | | |
| 3,000 | Hunter -Dungog | | | | | | | | | | |
| 21,500 | Hunter - Kurri Kurri | | | | | | | | | | |
| 32,000 | Hunter - Cessnock | | | | | | | | | | |
| 40,000 | Hunter - Farley | | | | | | | | | | |
| 32500 | Lismore composite | | С | | С | С | С | С | С | С | С |
| 17,000 | East Lismore | | | | | | | | | | |
| 15,500 | South Lismore | | | | | | | | | | |
| 18,958 (both | Byron Bay - Ocean Shores | | | | | | | | | | |
| plants total) | Byron Bay | | | | | | | | | | |
| 2,000 | Bangalow | | | | | | | | | | |
| 3,500 | Mullumbimby | | | | | | | | | | |
| 31,104 | Ballina | | | | | | | | | | |
| 7,700 | Lennox Head | | | | | | | | | | |
| 16,000 | Tweed - Murwillumbah | | | | | | | | | | |

| Regional Site | Regional Sites (con't) | | 3- Apr | 10- Apr | 17- Apr | 24- Apr | 1- May | 8- May | 15- May | 22- May | 29- May |
|---------------|------------------------|----|-----------|------------|------------|------------|-----------|-----------|------------|------------|------------|
| Pop. | Location | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 75,000 | Tweed - Banora Point | | | | | | | | | | |
| 25,000 | Tweed - Kingscliff | | | | | | | | | | |
| 18,000 | Tweed - Hastings Point | | | | | | | | | | |
| 18,550 | Grafton composite | С | | С | С | С | С | С | С | С | О |
| 12,250 | North Grafton | | | | | | | | | | |
| 6,300 | South Grafton | | | | | | | | | | |
| 6,500 | Yamba | | | | | | | | | | |
| 8,730 | Nambucca Heads | | | | | | | | | | |
| 54,370 | Port Macquarie | | | | | | | | | | |
| 7,010 | Bonny Hills | | | | | | | | | | |
| 8,540 | Dunbogan | | | | | | | | | | |
| 12,105 | South West Rocks | | | | | | | | | | |
| 4,052 | Crescent Head | | | | | | | | | | |
| 12,000 | Urunga | | | | | | | | | | |
| 50,000 | Coffs Harbour | | | | | | | | | | |

Sampling commenced week ending 18 July 2020

not sampled or analysed
SARS-CoV-2 not detected
SARS-CoV-2 detected

site moved to composite or ceased

composite of the separate influent samples

n result from network sites

Glossary

| Term | Description |
|--------------------------|--|
| Case | A person infected who has tested positive to a validated specific SARS-CoV-2 nucleic acid test or has had the virus identified by electron microscopy or viral culture. Blood tests (serology) is only used in special situations following a public health investigation and require other criteria to be met in addition to the positive serology result (related to timing of symptoms and contact with known COVID-19 cases). Case counts include: - NSW residents diagnosed in NSW who were infected overseas or in Australia (in NSW or interstate), and - interstate or international visitors diagnosed in NSW who were under the care of NSW Health at the time of diagnosis |
| Health care workers | Individuals who work within a hospital or other healthcare settings, including staff in direct or indirect contact with patients or infectious materials. |
| Incubation period | The time in which the case was infected. The incubation period for COVID-19 is between 1 and 14 days prior to symptom onset. |
| Overseas acquired case | Case who travelled overseas during their incubation period. While testing rates in NSW are high and case counts are low, cases who have travelled overseas in their incubation period are considered to have acquired their infection overseas. |
| Interstate acquired case | Case who travelled interstate during their infection and the public health investigation concludes the infection was likely acquired interstate. |
| Cluster | Group of cases sharing a common source of infection or are linked to each other in some way. |

Dates used in COVID-19 reporting

| Event | Date name | Source |
|--|-----------------------|---|
| Person first starts to feel unwell | Date of symptom onset | Public health staff interview all cases at the time of diagnosis. This is the date provided to NSW Health by the case. |
| Person has a swab taken | Date of test | This date is provided to NSW Health by the laboratory when the test result (positive or negative) is notified. |
| Laboratory notifies NSW Health of result | Date of notification | This date is provided to NSW Health by the laboratory. Laboratories prioritise notification of positive results to allow prompt public health action. Positive cases: The date of notification is collected by NSW Health on the day of notification. Cases are informed of their diagnosis by their doctor or public health staff as soon as the result is available. The date of notification to NSW Health is usually the same day as the date the case finds out about the result. Negative cases: Some laboratories notify NSW Health of negative results in batches at regular intervals. For these laboratories the date of notification to NSW Health does not reflect the date the negative result was available at the laboratory. NSW Health does not collect information on the date the person was informed of the result. |