



Virus WAch

Week ending 5th January 2025

Key points

Influenza and influenza-like illnesses (ILI)

- In the past week, most indicators of ILI activity increased or remained stable, except for the rate of ILI related admissions to EDs and the number of respiratory illness presentations to EDs which decreased.
- Influenza notifications increased to 143 cases but remained below the seasonal threshold.
- Respiratory syncytial virus (RSV) notifications remained stable the past week.
- Total non-influenza respiratory virus detections at PathWest Laboratory Medicine (PathWest) decreased in the past week.
- In the past week, COVID-19 PCR positive cases increased to 342 notifications. The SARS-CoV-2 concentration in wastewater from the Perth metropolitan area decreased this week. Genomic sequencing of clinical samples and SARS-CoV-2 wastewater fragments indicated that SARS-CoV-2 Omicron sub-lineages KP.3.X, XEC and KP.X predominated clinical samples, while KP.3.X and XEC predominated wastewater. See [COVID-19 wastewater dashboard](#).

Gastroenteritis

- Rotavirus notifications to the Department of Health decreased and norovirus detections at PathWest increased.

Other vaccine-preventable diseases

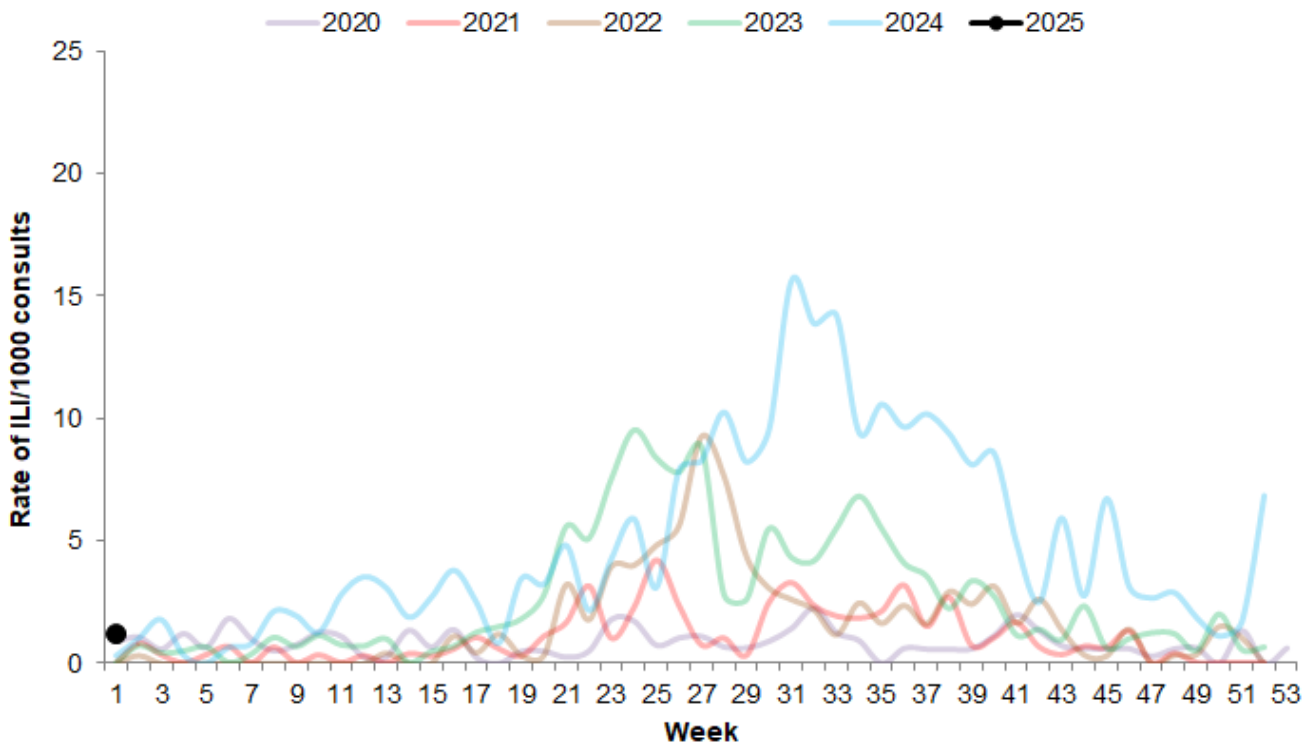
- **Measles:** No measles cases were notified in the past week.
- **Mumps:** No mumps cases were notified in the past week.
- **Rubella:** No rubella cases were notified in the past week.
- **Invasive meningococcal disease (IMD):** No IMD cases were notified in the past week.

For information relating to other notifiable diseases in WA, see [Notifiable infectious disease dashboard](#).

Influenza and influenza-like illnesses (ILI)

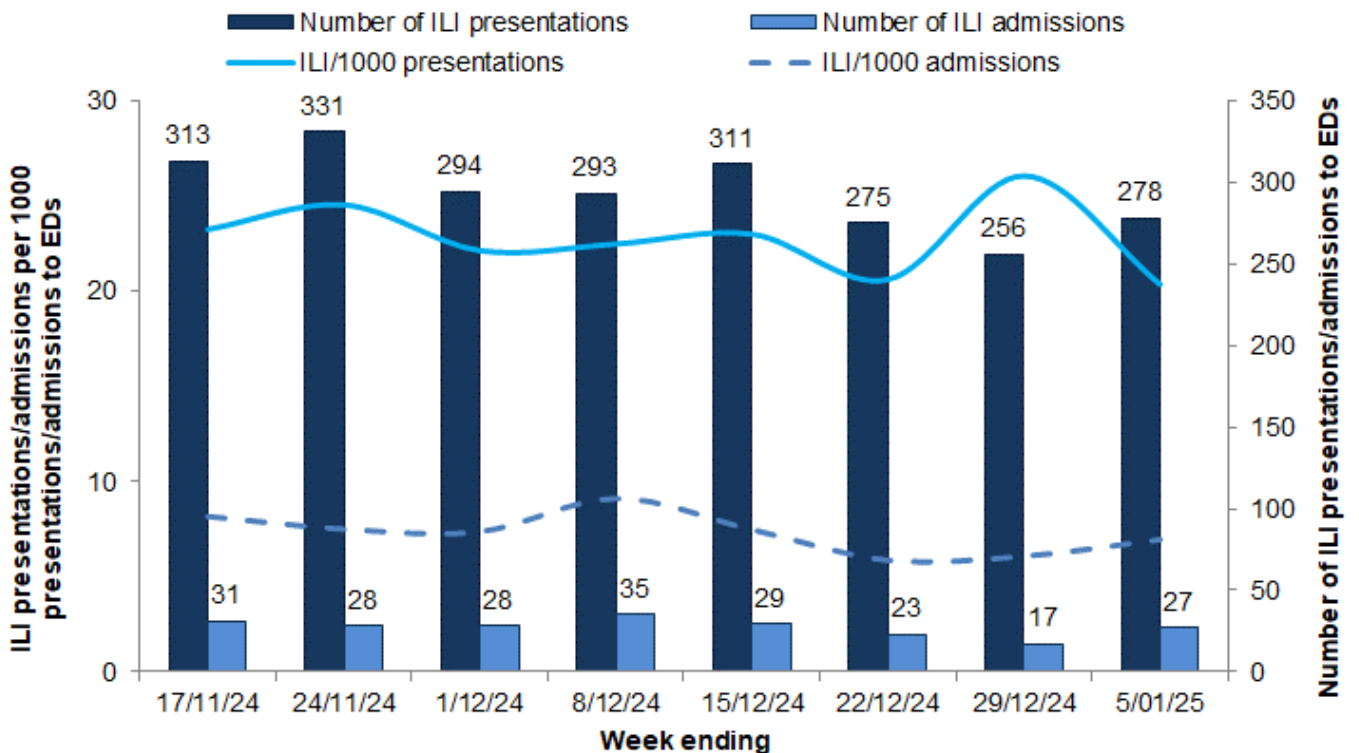
The rate of ILI presentations to sentinel GPs was in the higher range of values usually reported at this time of year (Figure 1).

Figure 1. Rate of ILI per 1000 consultations at sentinel GPs (Australian Sentinel Practices Research Network) by week, WA, 2020 to 2025 YTD



The rate of ILI-related presentations to EDs decreased in the past week, while the rate of admissions increased slightly (Figure 2).

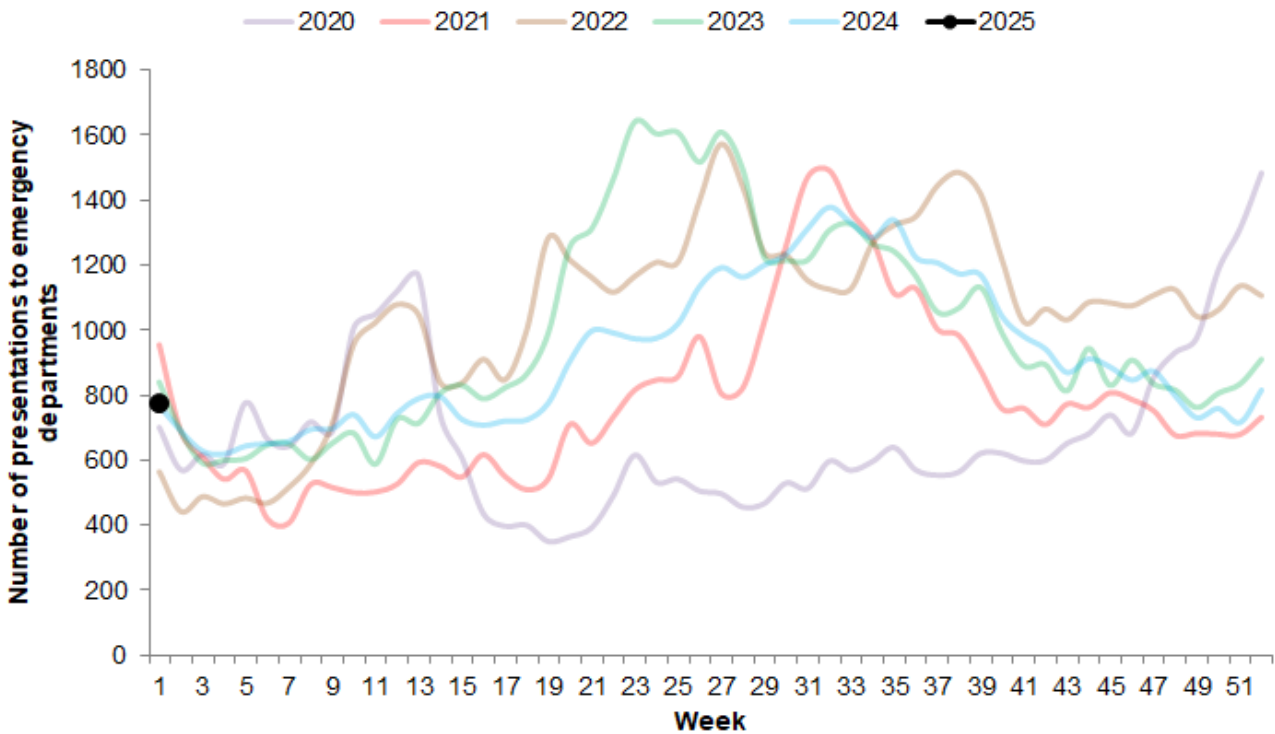
Figure 2. Number and rate of ILI presentations/admissions to emergency departments in the past eight weeks, WA



Note: This graph is a count of current EDIS data using the ICD codes B34.9 and J06.9, which are consistent with a clinical presentation of influenza-like illness. This data may differ from that presented in the Winter Respiratory Illness Report provided by the Information and System Performance Directorate, DoH.

In the past week, the number of respiratory illness presentations to EDs decreased but were in the mid-range of values usually reported at this time of year (Figure 3).

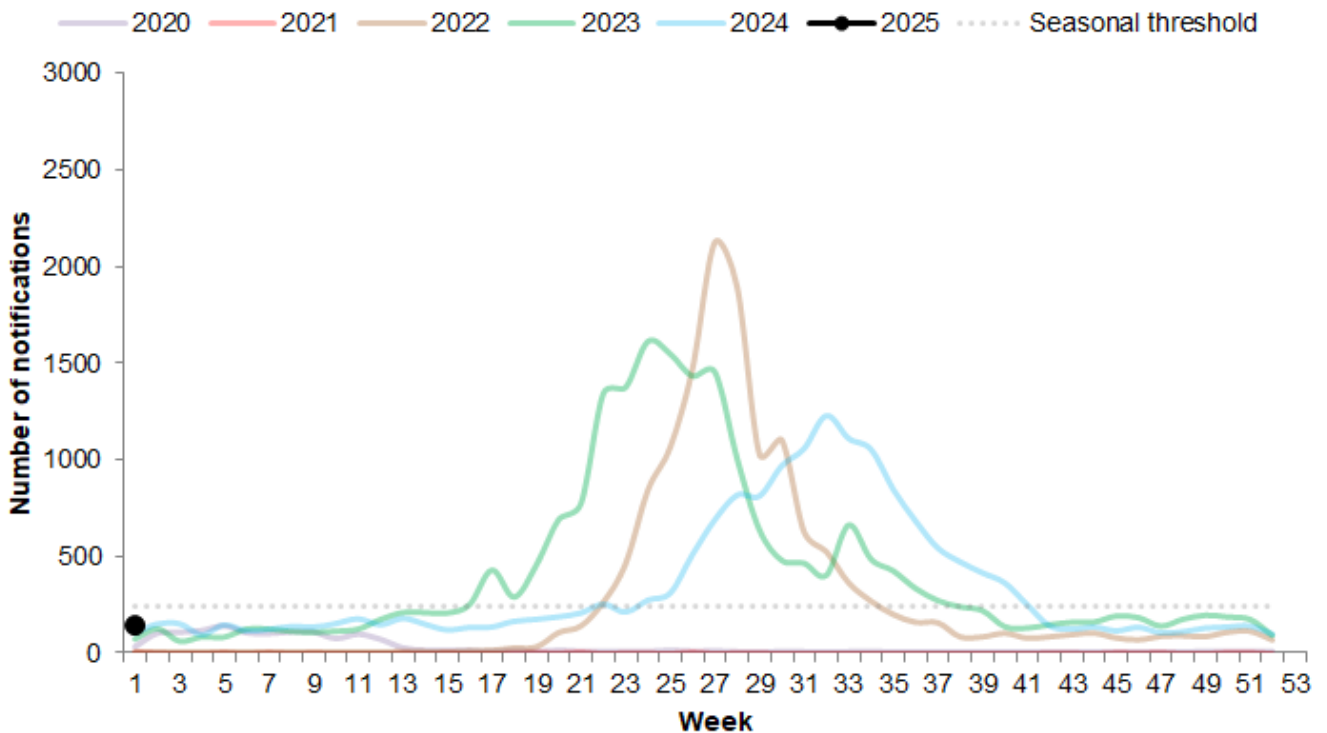
Figure 3. Number of respiratory illness presentations to emergency departments by week, WA, 2020 to 2025 YTD



Note: This graph is a count of current EDIS data using the ICD codes B34.9, H66.9, J00, J06.9, J09.0, J10.0, J10.1, J10.8, J11.0, J11.1, J11.8, J12.9, J18.0, J18.1, J18.8, J18.9, J20.9, J21.9, J22, J40, J44.0, J44.1, J44.9, J45.9, J46.0, J98.8, J98.9, R05 and COVID-19 code U07.1, which are consistent with a clinical presentation of all respiratory-like illness. This data is different to Figure 2 but similar to that presented in the Winter Respiratory Illness Report provided by the Information and System Performance Directorate, DoH.

In the past week the number of influenza cases notified to the Department of Health increased by 51% to 143 cases but remained below the seasonal threshold (Figure 4).

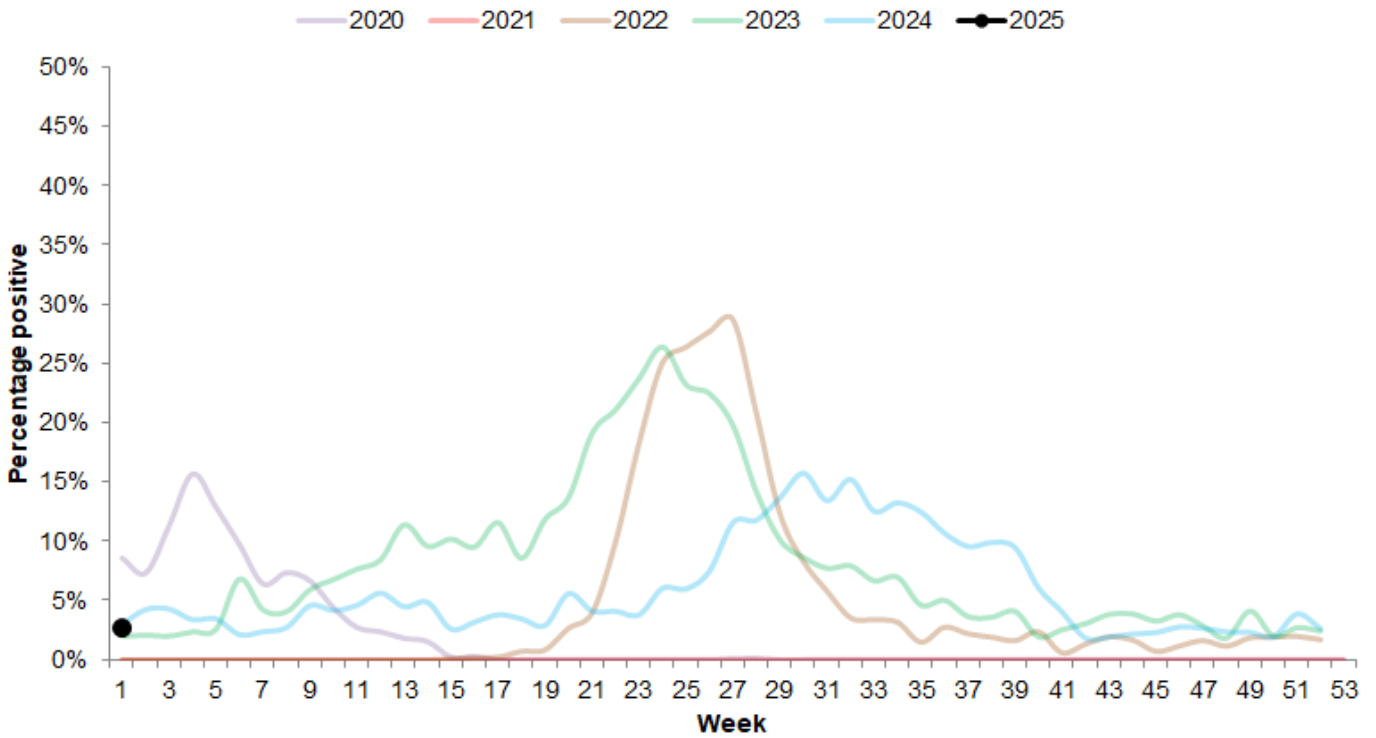
Figure 4. Number of influenza notifications by week, WA, 2020 to 2025 YTD



Note: This graph is a count of all influenza notifications by week of receipt by the DoH, WA (through WANIDD) to the end of the current reporting week. The seasonal threshold defines a value above which may indicate seasonal influenza activity. The threshold value is calculated based on analysis of inter-seasonal influenza data from 2016 to 2019 and 2023.

The influenza PCR test positivity at PathWest remained stable 2.7% (37 detections) in the past week. (Figure 5).

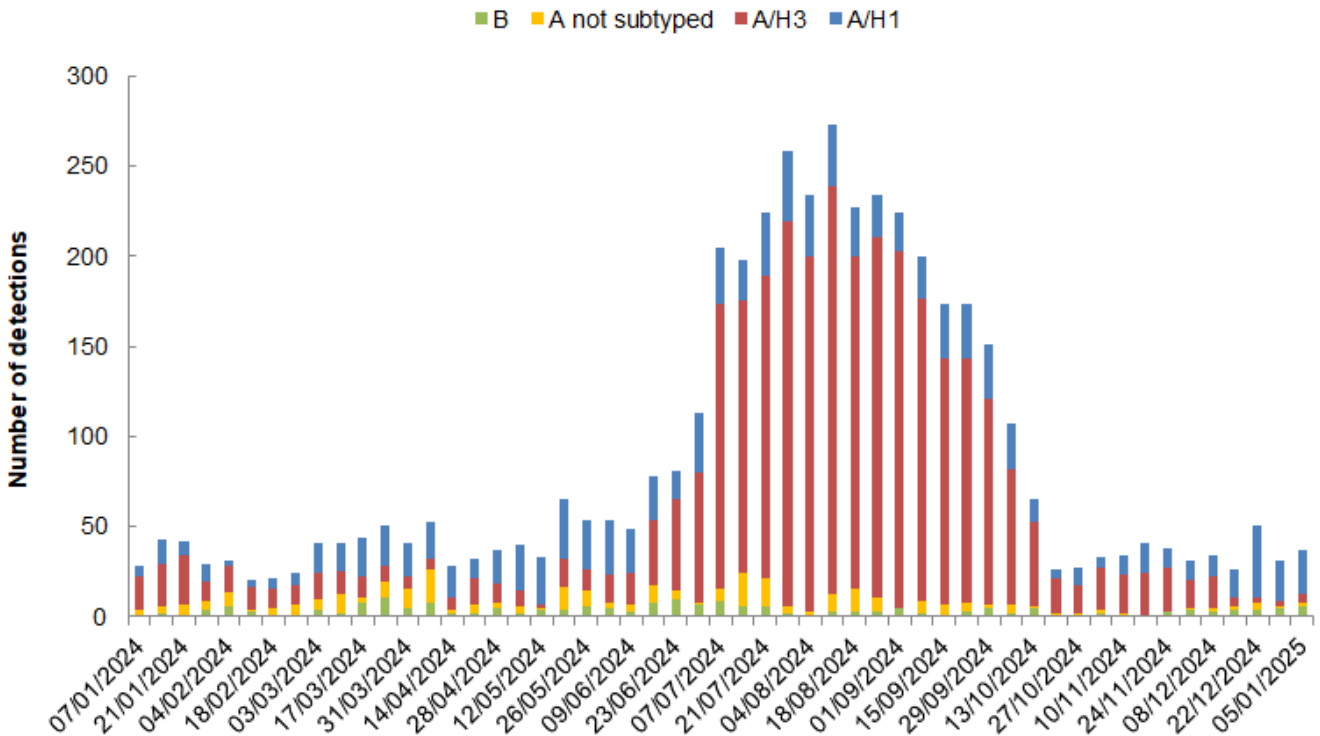
Figure 5. Proportion of PCR positive influenza detections at PathWest by week, WA, 2020 to 2025 YTD



Note: This graph is a count of all WA samples reported by PathWest, excluding samples referred by other private laboratories for influenza subtyping.

PathWest reported 37 influenza detections in the past week, which included 25 A/H1, 4 A/H3, 2 influenza A not subtyped, and 6 influenza B (Figure 6).

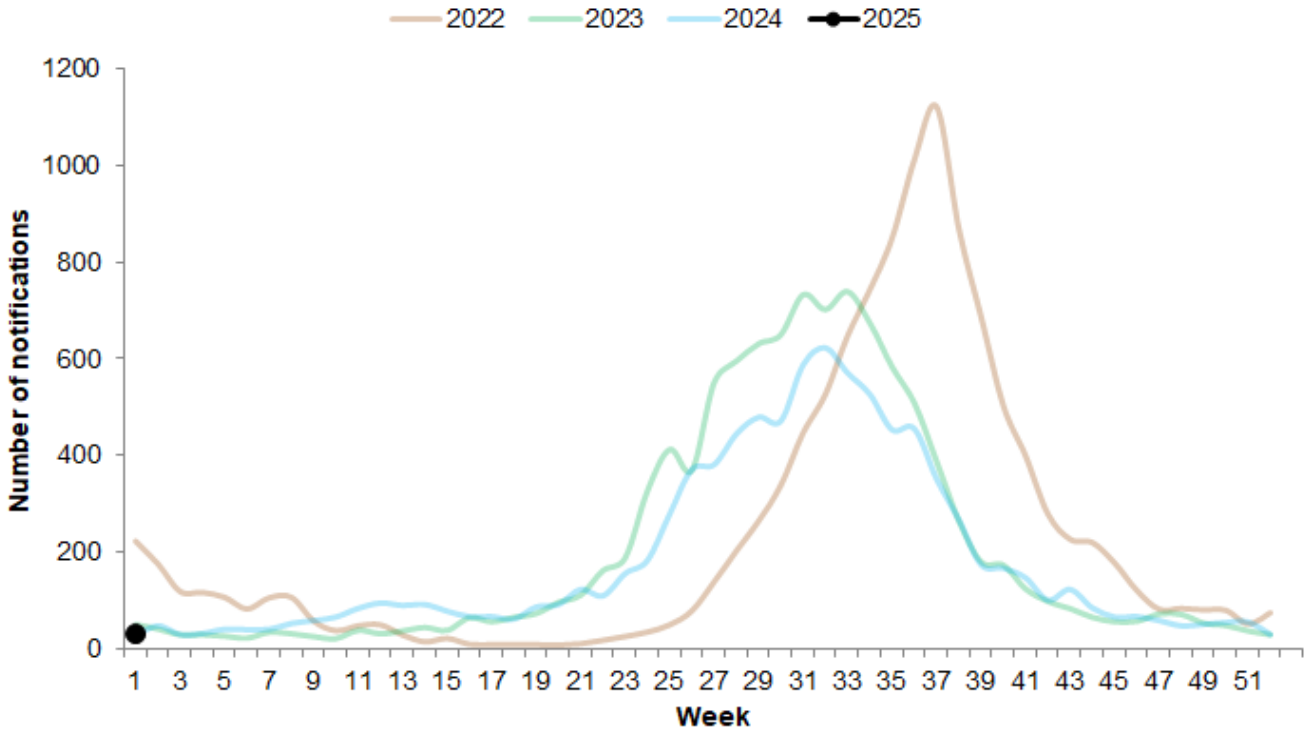
Figure 6. Number of PCR positive influenza detections at PathWest by type, subtype and week, WA, 2024 to 2025 YTD



Note: The graph is a summary of all WA samples positive for influenza reported at PathWest, excluding samples referred by other private laboratories for influenza subtyping. These samples were tested using a rapid testing method that does not determine the influenza subtype (i.e., influenza A/H3N2 or A/H1N1)

The number of respiratory syncytial virus (RSV) cases notified to the Department of Health remained stable at 30 cases in the past week (Figure 7).

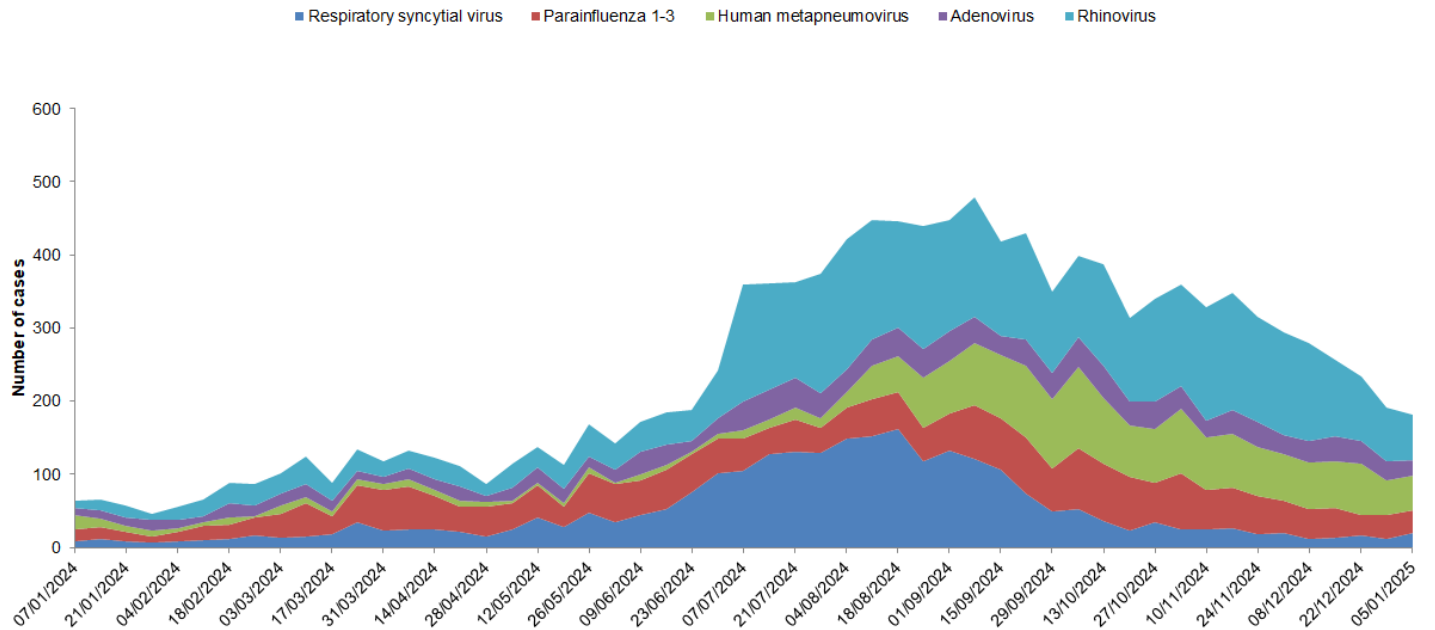
Figure 7. Number of respiratory syncytial virus (RSV) notifications by week, WA, 2022 to 2025 YTD



Note: Respiratory syncytial virus (RSV) was made a notifiable infectious disease in WA in July 2021. This graph is a count of all RSV by week of onset by the DoH, WA (through WANIDD) to the end of the current reporting week.

Non-influenza respiratory virus detections at PathWest decreased in the past week. The most common non-influenza respiratory virus detected was rhinovirus (61 cases) (Figure 8).

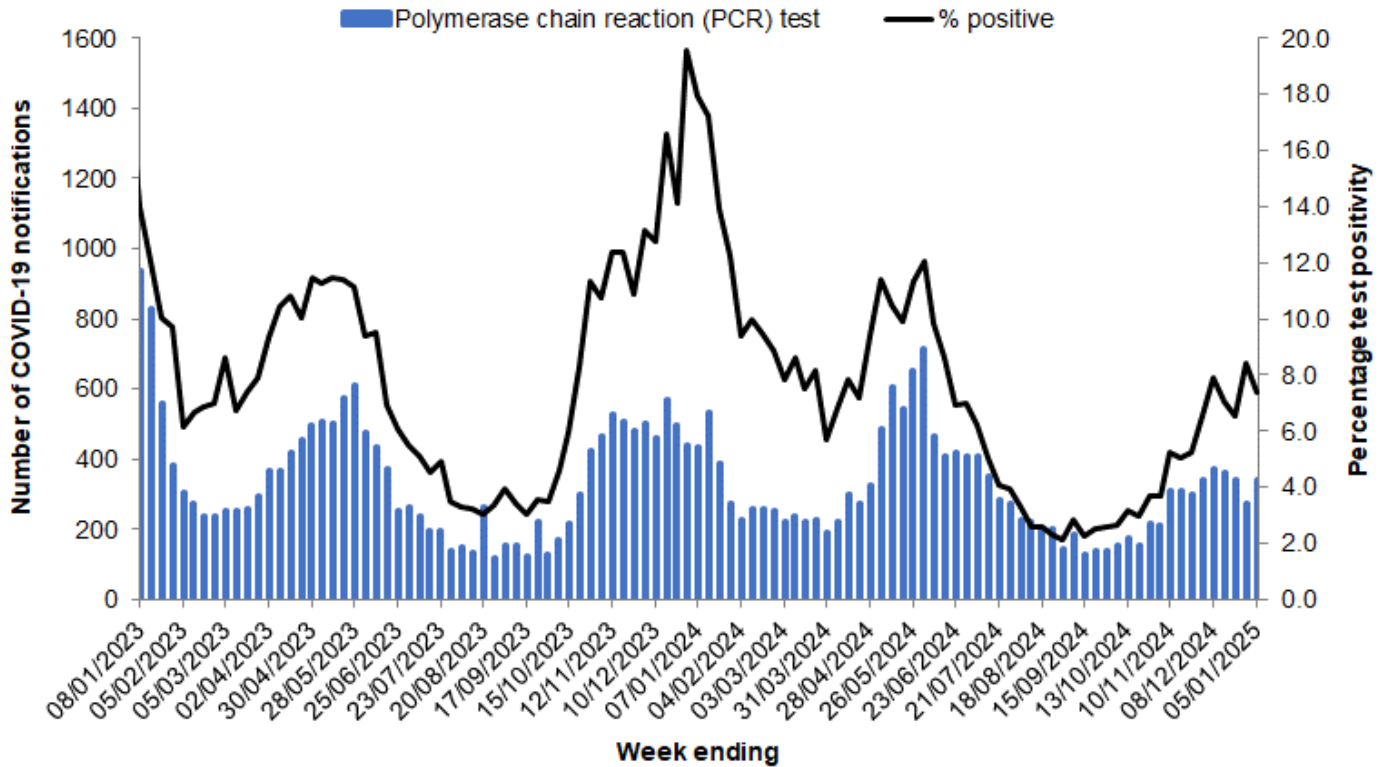
Figure 8. Number of non-influenza respiratory virus detections at PathWest by week, WA, 2024 to 2025 YTD



Note: This graph is a count of all WA samples positive for a common respiratory virus other than influenza reported by PathWest. Rhinovirus detections have increased since July 2024. This reflects a change in laboratory testing scope which has increased the number of Rhinovirus tests performed and does not necessarily reflect increasing incidence of this virus.

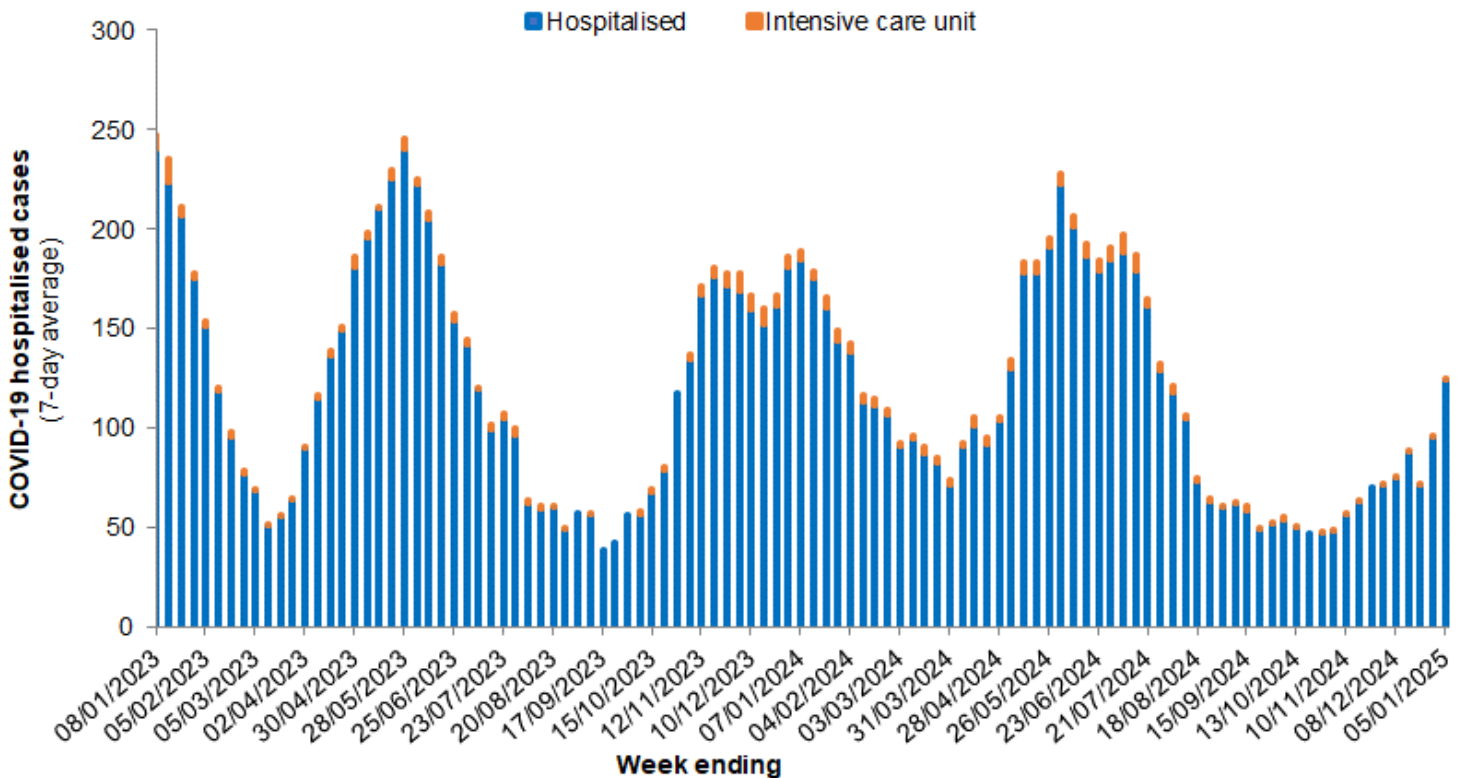
In the past week, the number of COVID-19 notifications to the Department of Health increased to 342 notifications (Figure 9).

Figure 9. COVID-19 notifications and test positivity by notification week, WA, 2023 to 2025 YTD



In the past week, currently hospitalised cases increased to an average of 124 per day. The 7-day average for cases currently in intensive care units remained at one (Figure 10).

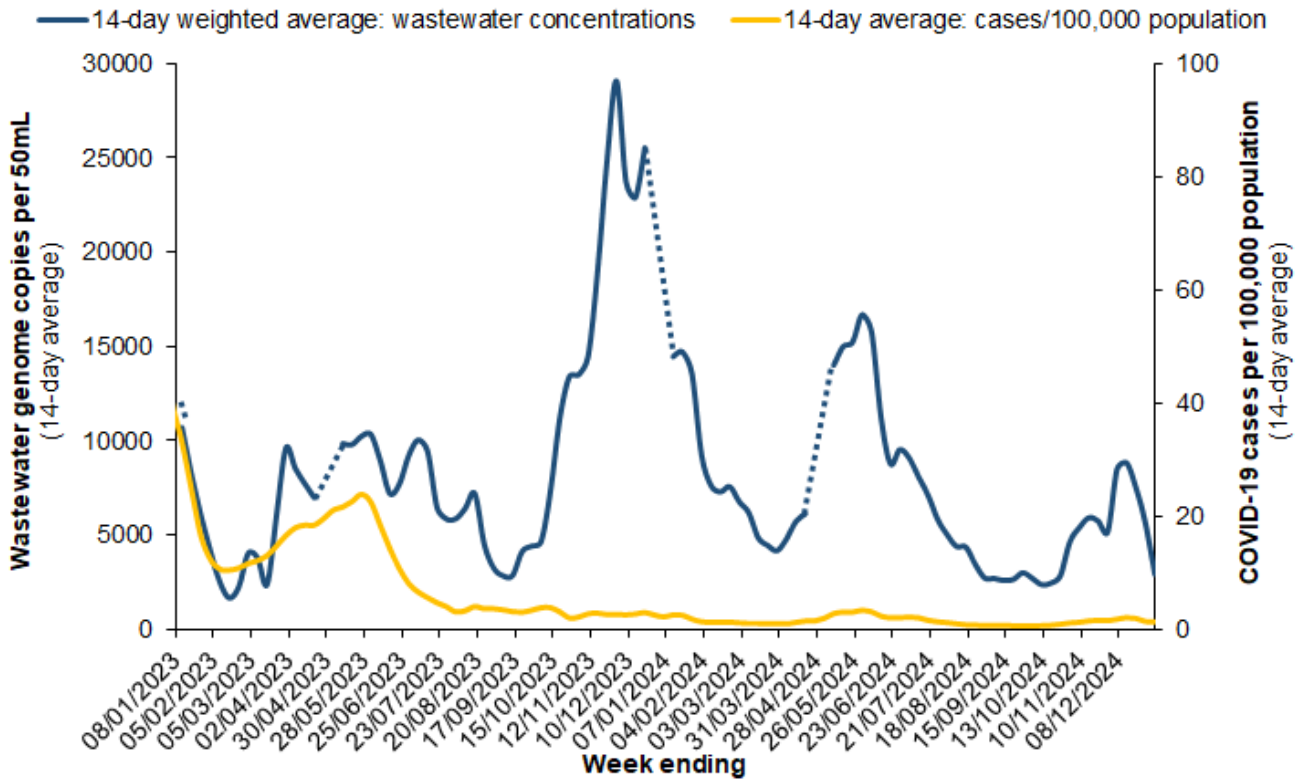
Figure 10. 7-day average of COVID-19 cases currently in hospital or in ICU, WA, 2023 to 2025 YTD



Note: 'Hospitalised' relates to active and cleared (>5 days after the first positive COVID-19 PCR test) COVID-19 cases that are current hospital inpatients. 'Intensive care unit' (ICU) is a subset of hospitalised and relates to active/cleared COVID-19 cases that are currently in an ICU. The reason for admission may be unrelated to COVID-19 for some people.

The SARS-CoV-2 concentration in wastewater from the Perth metropolitan area decreased in the past week (Figure 11).

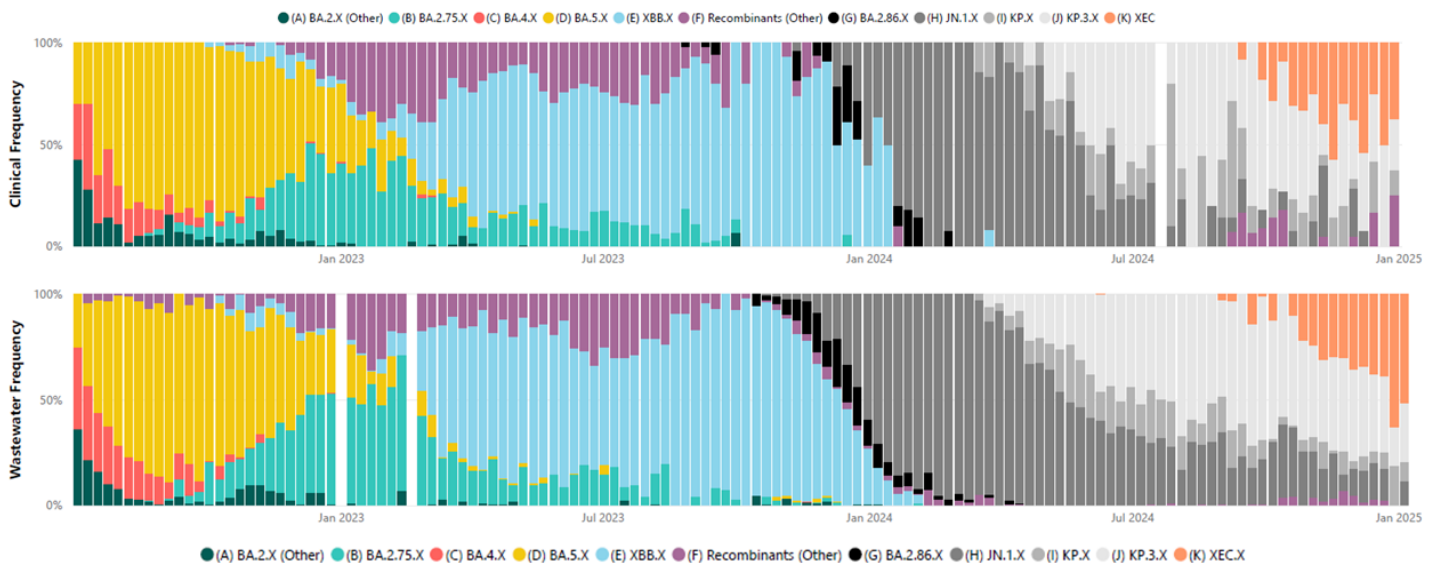
Figure 11. SARS-CoV-2 concentration in wastewater and COVID-19 notification rate, Perth metropolitan area, WA, 2023 to 03 January 2025.



Note: Wastewater is sourced from three wastewater treatment plants in the Perth metropolitan area (Subiaco, Woodman Point and Beenyup). Dotted lines in wastewater concentration represents missing results that could not be determined due to no sample collection or sample analysis failure. A more sensitive SARS-CoV-2 test was introduced December 2024 resulting in an increase (approximately 20%) in the quantification values when compared to the previous values.

Genomic sequencing of clinical samples and SARS-CoV-2 fragments indicated SARS-CoV-2 Omicron sub-lineages KP.3.X, XEC and KP.X predominated clinical samples, while KP.3.X and XEC predominated in wastewater. (Figure 12).

Figure 12. Distribution of SARS-CoV-2 variants in clinical samples (top) and metropolitan wastewater catchments (bottom), 03 July 2022 to 3 January 2025.

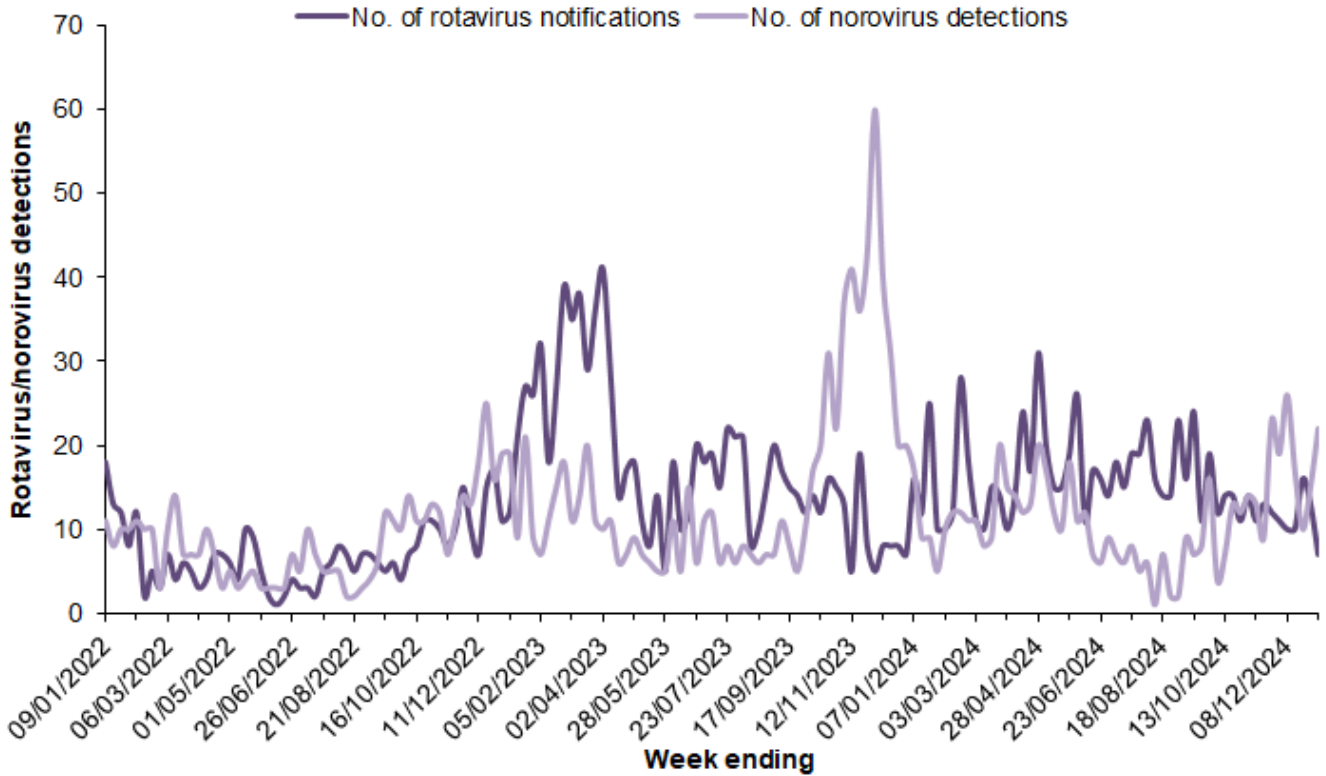


Note: The X following the lineage name indicates the inclusion of all descendant lineages. The distribution of variants in wastewater is largely representative of the distribution of variants in clinical cases, although for most recent weeks is slightly skewed due to the small number and lag in sequencing of clinical cases. Therefore, the most recent week of clinical sequencing has been removed to minimise the possibility of misinterpretation and the distribution in wastewater samples provides a more representative indication of the community distribution of SARS-CoV-2 variants for this period.

Gastroenteritis

In the past week, rotavirus notifications to the Department of Health decreased and norovirus detections at PathWest increased (Figure 13).

Figure 13. Number of rotavirus notifications to the Department of Health and norovirus detections at PathWest, WA, 2022 to 2025 YTD



Note: Rotavirus notifications reported to the Department of Health include detections from all WA pathology laboratories. Norovirus detections are from PathWest only.

Report notes

Virus WAtch is a weekly electronic publication by the Communicable Disease Control Directorate (CDCD) and key collaborators. It provides a brief summary of general practice and hospital emergency department sentinel surveillance data on influenza-like illness and gastroenteritis, together with relevant laboratory information, to alert health care workers in WA about important circulating viruses. All figures and data were accurate at time of publication, but subject to change. Please note that the influenza and ILI surveillance systems in Western Australia (WA) have been impacted by the COVID-19 pandemic. Therefore, respiratory viral activity should be interpreted with caution and take into account the effects of changes in health seeking behaviour including accessing alternate health services such as telehealth, focused testing for COVID-19 at COVID-19 clinics or specific acute respiratory infection clinics, increased testing for other respiratory viruses and the impact of international border closures. The data collections used to create this publication include:

- Sentinel general practice (GP) data collected by WA members of the Australian Sentinel Practices Research Network (ASPREN).
- Emergency Department (ED) data provided by the Emergency Department Information System (EDIS), which currently incorporates data from the following hospitals: Fiona Stanley Hospital, Sir Charles Gardiner Hospital, Royal Perth Hospital, Perth Children's Hospital, King Edward Memorial Hospital, St John of God Midland, Bunbury Hospital, Armadale Hospital, Joondalup Health Campus, and Rockingham General Hospital.
- Disease notification data are sourced from the Western Australian Notifiable Infectious Diseases Database (WANIDD). These data are received by CDCD, WA Department of Health from medical providers and public or private laboratories in WA. Hospitalisation data are included in the report during the influenza season.
- Viral laboratory data obtained from PathWest laboratories at QEII Medical Centre, as well as via notification data sent by all WA laboratories to CDCD, WA Department of Health.
- As of 1 January 2022, the definition of a confirmed influenza case has changed to remove 'Single high titre by CFT or HAI to influenza virus' from the list of [laboratory definitive evidence](#).
- As of March 2022, this report includes COVID-19 cases sourced from Public Health Operations COVID-19 Unified System (PHOCUS).
- From 9 October 2023, it is no longer a requirement to register positive COVID-19 Rapid Antigen Test (RAT) results to the WA Department of Health. Therefore, probable COVID-19 cases diagnosed by RAT will not be reported from that date.
- From 14 January 2024, the methodology for calculating the influenza seasonal threshold has changed. The threshold value is calculated based on analysis of inter-seasonal influenza data from 2016 to 2019 and 2023.
- Current and archived issues of Virus Watch http://ww2.health.wa.gov.au/Articles/F_I/Infectious-disease-data/Virus-WAtch.

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