Key Points

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.

Influenza and influenza-like illnesses (ILI)

- Indicators of influenza activity continued to increase in the past week.
- ILI presentations at EDs and sentinel GPs increased in the past week.
- The number of influenza cases reported to the Department of Health increased to 146 cases in the past week.
- Non-influenza virus detections at PathWest increased in the past week.

Gastroenteritis

- Gastroenteritis presentations to sentinel GPs decreased in the past week, while presentations to EDs increased but remained below baseline levels.
- Notifications for rotavirus and detections of norovirus at PathWest decreased in the past week.

Other vaccine-preventable diseases

- **Chickenpox and shingles**: Chickenpox presentations to EDs and GPs were below baseline levels in the past week. Shingles presentations at sentinel GPs increased above baseline levels in the past week, while shingles presentations to EDs remained below baseline levels.
- **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)**: One IMD serogroup W case was notified in an adult in the past week.

Other diseases

**Coronavirus COVID-19**: As of 29th May 2022, WA has recorded 721,110 COVID-19 cases. See [webpage](http://ww2.health.wa.gov.au/Articles/F_Infectious-disease-data/Virus-WAtch) for further information.
Influenza and influenza-like illnesses (ILI)

The rate of ILI presentations to sentinel GPs increased in the past week to the mid-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) in WA by week, 2017 to 2022

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

Figure 2. Number and rate of ILI presentations/admissions to Emergency Departments in WA in the last eight weeks

Note: This graph is a summary of current EDIS data using the ICD codes B34.9 and J06.9, which are consistent with a clinical presentation of a viral illness. This data may differ from that presented in the Winter Respiratory Illness Report provided by the Information and System Performance Directorate.
The number of ILI-related presentations to EDs increased in the past week but remained in the mid-range of values usually reported at this time of year (Figure 3).

**Figure 3. Number of ILI presentations to Emergency Departments in WA by week, 2017 to 2022**

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

The number of influenza cases reported to the Department of Health increased to 146 cases in the past week and remained above the seasonal threshold (Figure 4).

**Figure 4. Number of influenza notifications in WA by week, 2017 to 2022**

Note: 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. This graph is a summary of all influenza notifications, by week of onset, received by the DoH, WA (through WANIDD) to the end of the current reporting week. The seasonal threshold defines a value above which may indicate epidemic seasonal influenza activity. The threshold value is calculated based on analysis of seasonal influenza data from the past four years. It cannot be used to interpret data from 2019 in this graph.
Of the 1,147 specimens submitted for influenza PCR testing at PathWest in the past week, 44 tested positive (Figure 5).

**Figure 5. Proportion of influenza PCR specimens positive for influenza at PathWest by week, 2017 to 2022**

![Graph showing proportion of influenza PCR specimens positive for influenza at PathWest by week, 2017 to 2022](image)

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

Non-influenza virus detections at PathWest increased in the past week (Figure 6).

**Figure 6. Number of non-influenza respiratory virus detections at PathWest by week, 2021 to 2022**

![Graph showing number of non-influenza respiratory virus detections at PathWest by week, 2021 to 2022](image)

Note: This graph is a summary of all WA samples positive for a common respiratory virus other than influenza reported by PathWest.
In the past week, there were 68,400 COVID-19 cases reported in WA, which was 31% lower than the previous week. Of these, 37% were diagnosed by PCR test and 63% were diagnosed by rapid antigen test (Figure 7).

Figure 7. Number of COVID-19 cases in WA by test type and notification date, 2022

![COVID-19 cases by test type and notification date](image)

Note: Data sourced from Public Health Operations COVID-19 Unified System (PHOCUS); Notification date is to the 8pm reporting period

**Gastroenteritis**

The rate of gastroenteritis presentations to sentinel GPs decreased in the past week to the low-range of values usually reported at this time of year (Figure 8).

Figure 8. Number of gastroenteritis presentations per 1000 consultations at sentinel GPs (Australian Sentinel Practices Research Network) in WA by week, 2017 to 2022

![Gastroenteritis presentations by week](image)
Gastroenteritis presentations and admissions to EDs increased in the past week but remained below baseline levels (Figure 9).

**Figure 9. Number of gastroenteritis presentations and admissions to Emergency Departments in WA in the last eight weeks**

*This graph is a summary of current EDIS data for gastroenteritis presentations and admissions. Baseline levels for gastroenteritis presentations and admissions were calculated using the mean of weekly EDIS data from week 1, 2017 to week 52, 2021.*

The number of gastroenteritis presentations at EDs increased in the past week but remained well below the range of values usually reported at this time of year (Figure 10).

**Figure 10. Number of gastroenteritis presentations to Emergency Departments in WA by week, 2017 to 2022**

*This graph is a summary of current EDIS data for gastroenteritis presentations*
Rotavirus notifications to the Department of Health and norovirus detections at PathWest decreased in the past week (Figure 11).

**Figure 11. Number of rotavirus notifications to the Department of Health and norovirus detections at PathWest in WA in the last eight weeks**

![Graph showing rotavirus notifications and norovirus detections](image)

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

**Viral rashes**

The rate of shingles presentations to sentinel GPs increased above the baseline level in the past week and there were no chickenpox presentations (Figure 12).

**Figure 12. Number of varicella-zoster presentations per 1000 consultations at sentinel GPs (Australian Sentinel Practices Research Network) in WA in the last eight weeks**

![Graph showing varicella-zoster presentations](image)
There number of chickenpox and shingles presentations to EDs remained below baseline levels in the past week (Figure 13).

**Figure 13. Number of varicella-zoster presentations to Emergency Departments in WA in the last eight weeks**

![Bar chart showing the number of chickenpox and shingles presentations to EDs in WA over the last eight weeks, with baseline levels indicated.]

Note: Baseline levels for varicella-zoster virus presentations to Emergency Departments in WA were calculated using the mean of weekly EDIS data from week 1, 2017 to week 52, 2021.

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