Virus WAtch

Week ending 30th January 2022

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 remain below interseasonal levels.
- ILI-related presentations to EDs increased slightly in the past week and ILI activity at sentinel GPs remained in the lower range of values usually seen at this time of year.
- There were no PCR positive influenza samples reported by PathWest in the past week.
- With the exception of SARS-CoV-2, there was an overall decrease in non-influenza virus detections at PathWest in the past week.

Gastroenteritis
- Gastroenteritis presentations at sentinel GPs remained stable while presentations at EDs increased in the past week.
- Notifications for rotavirus decreased and detections of norovirus remained stable in the past week.

Other vaccine-preventable diseases
- **Chickenpox and shingles**: Shingles presentations to sentinel GPs decreased below baseline levels in the past week while presentations at EDs increased above baseline levels. There were no chickenpox presentations to sentinel GPs and presentations to EDs were 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)**: No IMD cases were notified past week.

Other diseases
Coronavirus COVID-19: As of 30th January 2022, a total of 1,505 confirmed COVID-19 cases have been notified in WA. See [webpage](http://www2.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 remained in the lower 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 slightly in the past week while the number of admissions remained stable (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 respiratory viral presentations to EDs increased slightly in the past week but remained below the range of values usually reported at this time of year (Figure 3).

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

![Graph showing the number of respiratory viral presentations to EDs in WA by week from 2017 to 2022.](image)

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.

There were no influenza notifications reported to the Department of Health in the past week (Figure 4).

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

![Graph showing the number of influenza notifications in WA by week from 2017 to 2022.](image)

Note: 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.
None of the 921 specimens submitted for influenza PCR testing at PathWest were positive in the past week (Figure 5). The last PCR positive influenza sample reported by PathWest was in July 2020.

**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.

With the exception of SARS-CoV-2, there was an overall decrease in non-influenza virus detections 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.
COVID-19 activity in WA increased in the past week with the majority of cases acquired locally as a contact of a confirmed case or as part of a known cluster (Figure 7).

Figure 7. Number of confirmed COVID-19 cases in WA by optimal date of onset and place of acquisition, 2020 to 2022

Note: This graph includes all specimens that tested positive for SARS-CoV-2 virus by polymerase chain reaction (PCR) tests at Western Australian pathology laboratories.

Gastroenteritis

The number of gastroenteritis presentations to sentinel GPs remained stable in the past week and remained in the mid-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 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
The number of norovirus detections at PathWest remained stable in the past week. Rotavirus notifications to the Department of Health decreased slightly in the past week but remained higher than average levels (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 weekly rotavirus 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 decreased in the past week to below baseline levels. There were no chickenpox presentations to sentinel GPs over the past eight weeks (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 weekly chickenpox and shingles presentations](image)

Note: Baseline levels for chickenpox and shingles presentations to WA ASPREN GPs per thousand consultations were calculated using the mean of weekly WA ASPREN data from week 1, 2017 to week 52, 2021.
Chickenpox presentations at EDs increased slightly in the past week but remained below baseline levels. Shingles presentations at EDs increased to above baseline levels (Figure 13).

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

No. of chickenpox presentations  No. of shingles presentations
Chickenpox baseline (2017-2021)  Shingles baseline (2017-2021)

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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