Virus WAtch

Week ending 6th November 2020

Key Points

It is important to note that the influenza and ILI surveillance systems in WA have been impacted by the COVID-19 pandemic. Therefore interpretation of 2020 influenza and ILI activity should be done with caution and needs to 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 and the impact of physical distancing measures.

Influenza and influenza-like illnesses (ILI)

- **Summary:** Indicators of influenza activity remain at or below interseasonal levels.
- ILI activity at sentinel EDs remained within the upper range of levels usually reported for this time of year. ILI activity at sentinel GPs remains below levels usually seen at this time of year.
- There were no positive influenza samples reported by PathWest in the past week.
- RSV detections decreased in the past week but remain higher than usually reported at this time of year.

Gastroenteritis

- Gastroenteritis presentations at sentinel GPs remain in the upper range of levels normally reported at this time of year. The rate of gastroenteritis presentations at sentinel EDs remained in the lower range.
- PathWest laboratory detections of norovirus decreased in the past week, and rotavirus notifications remained at low levels.

Other vaccine-preventable diseases

- **Shingles and chickenpox:** Shingles presentations at sentinel GPs and EDs were above baseline this week.
- **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.

Other diseases

- **Coronavirus COVID-19:** As of 10 December 2020, a total of 832 COVID-19 cases have been confirmed in WA. See [webpage](http://www.health.wa.gov.au) for further information.


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, gastroenteritis and varicella-zoster disease, together with relevant laboratory information, to alert health care workers in WA to important circulating viruses. All figures and data were accurate at time of publication, but subject to change. 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.
- Notification data derived from disease notifications received by CDCD, WA Department of Health from medical providers and public or private laboratories in WA. These data are updated routinely to include admission status for all public and public/private hospitals in WA and 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 August 2020, daily reporting of COVID-19 cases include only confirmed cases diagnosed by nose and throat swabs. See [webpage](http://www.health.wa.gov.au) for further information.
Influenza and influenza-like illnesses

The rate of ILI presentations to sentinel GPs in the past week remains in the lower range of levels usually reported at this time of year. There were no samples submitted for influenza testing by sentinel GPs in the past week.

The following is a summary of current Emergency Department Sentinel Surveillance (EDSS) data for respiratory viral presentations.

**ED viral-illness* presentations and admissions**

<table>
<thead>
<tr>
<th>Week ending</th>
<th>Number of ILI presentations</th>
<th>Number of ILI admissions</th>
<th>ILI/1000 presentations</th>
<th>ILI/1000 admissions</th>
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<tbody>
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<td>25/10/20</td>
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<td>6/12/20</td>
<td>499</td>
<td>27</td>
<td>499</td>
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</table>

*The graph is a summary of presentations at Emergency Department Sentinel Surveillance (EDSS) sites 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.

Respiratory viral presentations and admissions to sentinel EDs increased in the past week.
The graph is a summary of presentations at Emergency Department Sentinel Surveillance (EDSS) sites 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 sentinel EDs was in the upper range of levels usually reported at this time of the year.

The graph is a summary of all influenza notifications received by the DoH, Western Australia to the end of the current reporting week, for which cases had date of symptom onset or specimen collection between 30/11/2020 and 07/12/2020. 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.

Influenza notifications reported to the Department of Health in the past week remain below the seasonal threshold. No influenza notifications were received by the Department of Health in the past week.
The graph is a summary of all WA samples reported by PathWest, excluding samples referred by other private laboratories for influenza subtyping.

The percentage of specimens positive for influenza virus at PathWest remains below levels usually reported at this time of year. None of the 523 specimens submitted for influenza testing were positive for influenza in the past week.

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).

No PCR positive influenza samples have been reported by PathWest since July.
The graph is a summary of all WA samples positive for a common respiratory virus other than influenza reported at PathWest.

RSV detections decreased this week but remain higher than usually reported at this time of year.

COVID-19 activity remains low in Western Australia. All recently reported cases were acquired overseas.
Gastroenteritis presentations to sentinel GPs are in the upper range of values usually reported at this time of year.

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, 2015 to week 52, 2019.

Gastroenteritis presentations and admissions to sentinel EDs in the past week remain at or below baseline levels.
The number of gastroenteritis presentations to sentinel EDs remain well below the range of values normally reported at this time of year.

**Viral rashes**

**GP varicella-zoster virus presentations**

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, 2015 to week 52, 2019.
No chickenpox presentations were reported by sentinel GPs in the past five weeks. Shingles presentations remained above baseline levels.

The following is a summary of current Emergency Department sentinel surveillance (EDSS) data for varicella-zoster virus presentations.

**ED varicella-zoster virus presentations**

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<tr>
<td>6/12/20</td>
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Baseline levels for varicella-zoster virus presentations were calculated using the mean of weekly EDIS data from week 1, 2015 to week 52, 2019.

Chickenpox and shingles presentations at sentinel EDs were above baseline levels in the past week.

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