Virus WAtch

Week ending 19th January 2020

Key Points

Influenza and influenza-like illnesses (ILI)

- **Summary**: Indicators of influenza activity were generally above levels usually reported during this time of year in WA.
- ILI activity at sentinel GPs remained low in the past week.
- ILI presentations at sentinel EDs increased in the past week, while admissions remained stable.
- PathWest influenza detections and test percent positivity were higher than levels usually reported at this time of year.
- Influenza A accounted for 82% of influenza detections at PathWest in the past week, comprising 80% influenza A/H1, 10% influenza A/H3 and 20% influenza A/not subtyped.
- Overall non-influenza activity remained relatively stable in the past week.

Gastroenteritis

- While the rate of gastroenteritis presentations to sentinel GPs was lower than levels normally reported at this time of year, the number of presentations and admissions to sentinel EDs was higher than baseline levels.
- PathWest laboratory detections of norovirus remained relatively stable in the past week, and rotavirus remained at low levels

Other vaccine-preventable diseases

- **Shingles and chickenpox**: There were no chickenpox presentations to sentinel GPs in the past week and the number of presentations to sentinel EDs was lower than baseline levels. The rate of shingles presentations at sentinel GPs and the number of presentations to sentinel EDs was higher than baseline levels.
- **Measles**: One measles case was notified in the past week.
- **Mumps**: No mumps cases were notified in the past week.
- **Rubella**: No rubella cases notified in the past week.
- **Invasive meningococcal disease (IMD)**: No meningococcal cases were notified in the past week.
Influenza and influenza-like illnesses

The number of routine PathWest influenza detections increased in the past week and there were no detections among the samples submitted for influenza testing by sentinel GPs.

The rate of ILI presentations to sentinel GPs this week was in the lower range of levels usually reported during this time of year.
The following is a summary of current Emergency Department Sentinel Surveillance (EDSS) data for respiratory viral presentations.

Respiratory viral presentations to sentinel EDs increased in the past week while admissions remained relatively stable.

The number of respiratory viral presentations to sentinel EDs increased in the past week and was higher than levels usually reported during this time of year.

*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.
Influenza notifications reported to the Department of Health in the past week was above the seasonal threshold.

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 13/01/2020 and 19/01/2020. 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.

The percentage of specimens positive for influenza virus at PathWest was higher than levels usually reported at this time of year. Of 181 specimens submitted, 22 (12.2%) tested positive 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.
Twenty-two positive samples were reported by PathWest in the past week, of which 20 were influenza A and two were influenza B. Of the 20 influenza A cases, 14 were A/H1, two were A/H3 and four were not subtyped.

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 overall non-influenza activity remained relatively stable in the past week.

The graph is a summary of all WA samples positive for a common respiratory virus other than influenza reported at PathWest.
Gastroenteritis presentations and admissions to sentinel EDs in the past week were higher than baseline levels.

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, 2014 to week 52, 2018.
The number of gastroenteritis presentations to sentinel EDs decreased in the past week but remained higher than the values normally reported at this time of year.

**Viral rashes**

There were no chickenpox presentations reported by WA ASPREN GPs in the past week and the rate of shingles presentations was higher than baseline levels.

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, 2014 to week 52, 2018.
The following is a summary of current Emergency Department sentinel surveillance (EDSS) data for varicella-zoster virus presentations.

Chickenpox presentations to sentinel EDs in the past week were lower than baseline levels, and the shingles presentation rate was higher.

Baseline levels for varicella-zoster virus presentations were calculated using the mean of weekly EDIS data from week 1, 2014 to week 52, 2018.