INFLUENZA AND INFLUENZA-LIKE ILLNESSES (ILI)
Summary: Influenza activity is currently at inter-seasonal levels.
- ILI presentations at sentinel GPs and EDs are fluctuating at low levels.
- Influenza notifications are fluctuating around the seasonal threshold level, above levels experienced during recent inter-seasonal periods. PathWest laboratory detections and percent positivity are at inter-seasonal levels after a slight increase in recent weeks.
- Overall non-influenza respiratory virus activity remains low.

GASTROENTERITIS
- Gastroenteritis activity at sentinel GPs and EDs is currently around expected levels for this time of year.
- Rotavirus activity remains low and relatively stable, while norovirus activity has increased over summer.

VARICELLA AND OTHER VACCINE-PREVENTABLE VIRAL DISEASES
- Chickenpox and shingles activity at both sentinel GPs and EDs continues to fluctuate around baseline levels.
- Rubella: no cases have been confirmed in WA since two imported cases in early April 2017.
- Measles: no cases have been confirmed since an imported case was reported in early January.
- Mumps: one confirmed case in the past week, acquired in Queensland.

Routine influenza detections decreased this week. ILI presentations reported by WA ASPREN sentinel GPs remained low. Of the two samples submitted for influenza testing by sentinel GPs, one (50%) tested positive.

The rate of ILI presentations to WA ASPREN sentinel GPs remains at interseasonal levels.
The following is a summary of current Emergency Department sentinel surveillance (EDSS) data for respiratory viral presentations.

**Viral Respiratory ED Presentations and Admissions**

Respiratory viral presentations and admissions to sentinel EDs remain stable.

**ED Respiratory Viral Presentations, 2014-2018**

The number of respiratory viral presentations to sentinel EDs remained stable this week, and in the upper range of interseasonal levels.
The number of influenza notifications received by the Department of Health is fluctuating around the calculated seasonal threshold level and above levels experienced during recent inter-seasonal periods. 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 29/01/2018 and 04/02/2018. The seasonal threshold defines a value above which indicates epidemic seasonal influenza activity. The threshold value is calculated based on analysis of seasonal influenza data from the past eight years.

The percentage of specimens testing positive for influenza virus at PathWest decreased this week, and is now in the mid-range of values usually reported at this time of year. Of 141 specimens, 8 (6%) tested positive in the past week.

The graph is a summary of all WA routine and sentinel samples that have been processed by PathWest as of Wednesday 07th February 2018. This number does not include samples referred by other private laboratories for influenza subtyping.
Eight routine samples were subtyped by PathWest during this reporting week; 4 (50%) influenza A/H3N2; 2 (25%) influenza B; and 2 (25%) influenza A/H1N1.

The graph is a summary of all WA routine samples that have been recorded as subtyped at PathWest as of Wednesday 14th February 2018. This number does not include sentinel samples or samples referred by other private laboratories for influenza subtyping.

Overall non-influenza respiratory virus activity remains low.
The number of gastroenteritis presentations to sentinel GPs is in the lower range of values usually seen at this time of year.

The following is a summary of current Emergency Department Sentinel Surveillance (EDSS) data for gastroenteritis presentations. Baseline levels for gastroenteritis presentations were calculated using the mean of weekly EDIS data from week 1, 2013 to week 52, 2017.

Gastroenteritis presentations and admissions to sentinel EDs continue to fluctuate around baseline level.
The number of gastroenteritis presentations to sentinel EDs is in the mid-range of values observed during this time period in recent years.

Rotavirus activity remains low, while norovirus activity remains within expected levels for this time of year.
Shingles and chickenpox activity at WA ASPREN sentinel GPs is fluctuating around 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, 2013 to week 52, 2017.

The following is a summary of current Emergency Department sentinel surveillance (EDSS) data for varicella-zoster virus presentations. Baseline levels for varicella-zoster virus presentations were calculated using the mean of weekly EDIS data from week 1, 2013 to week 52, 2017.

Shingles presentations at sentinel EDs remained above baseline level for the third week in a row. Chickenpox presentations are at baseline levels.