



WEEK ENDING 15<sup>TH</sup> FEBRUARY 2015

## KEY POINTS

### INFLUENZA AND INFLUENZA-LIKE ILLNESSES (ILI)

**Summary:** Influenza and non-influenza respiratory virus activity remain low and at inter-seasonal levels.

- ILI presentations to sentinel general practitioners (GPs) and emergency departments (EDs) remain low this week.
- Routine and sentinel detections of influenza virus remain low, with influenza A/H3N2 constituting the majority of subtyped viruses; influenza A/H1N1 and influenza B continue to co-circulate.
- Detections of non-influenza respiratory viruses remain steady and low, with a slight increase in respiratory syncytial virus activity this week.

### GASTROENTERITIS

- Presentations to sentinel GPs and EDs are now consistent with this time period during previous years.
- Norovirus and rotavirus detections both declined this week.

### VARICELLA AND VIRAL RASHES

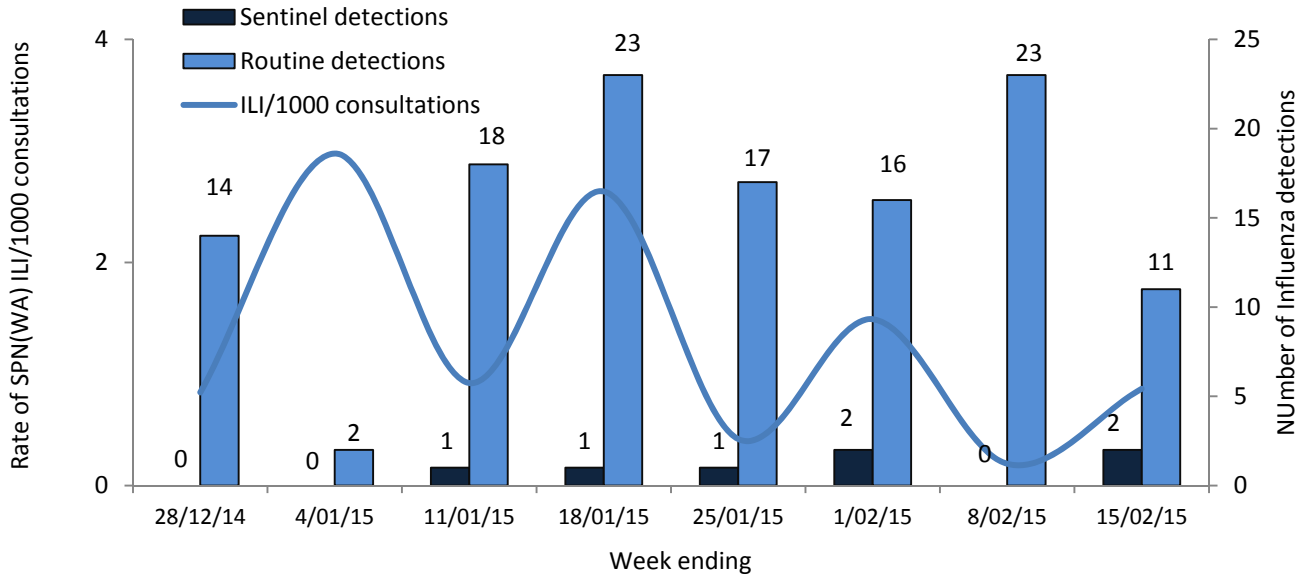
- Shingles presentations to both sentinel EDs and GPs are near or above baseline level. Chickenpox activity is low.
- No cases of measles, mumps or rubella were confirmed this week.

Current and archived issues of Virus Watch [http://www.public.health.wa.gov.au/3/487/3/virus\\_watch.pm](http://www.public.health.wa.gov.au/3/487/3/virus_watch.pm)

*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. General Practice data are collected by members of the Sentinel Practitioners Network of Western Australia - SPN(WA). Emergency Department data are provided by the Emergency Department Information System (EDIS), which incorporates data from the following hospitals: Royal Perth Hospital, Sir Charles Gairdner Hospital, Fremantle Hospital, Princess Margaret Hospital, King Edward Memorial Hospital, Bunbury Hospital, Armadale Hospital, Joondalup Health Campus, Swan District Hospital and Rockingham General Hospital. Viral laboratory data are obtained from PathWest laboratories at QEII Medical Centre and Princess Margaret Hospital for Children, as well as via notification data sent by all WA laboratories to CDCD, WA Department of Health. All figures and data were accurate at time of publication, but subject to change.*

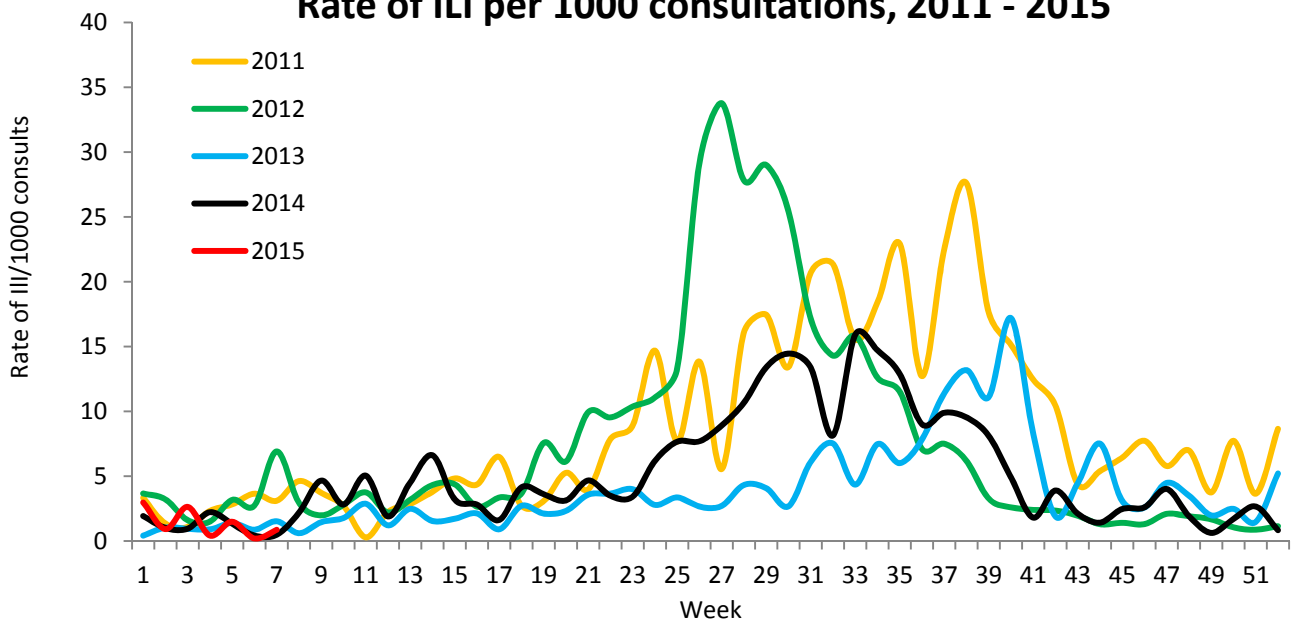
# Influenza and Influenza-like Illnesses

## Sentinel and Routine Influenza and Influenza-like Illness detections



The rate of ILI seen at sentinel GPs continues to fluctuate at low levels. Of 179 routinely collected specimens, 11 (6%) tested positive for influenza virus. Of 8 specimens collected at sentinel GP sites, 2 (25%) tested positive for influenza virus.

## Sentinel Practitioner Network of WA - GP surveillance Rate of ILI per 1000 consultations, 2011 - 2015

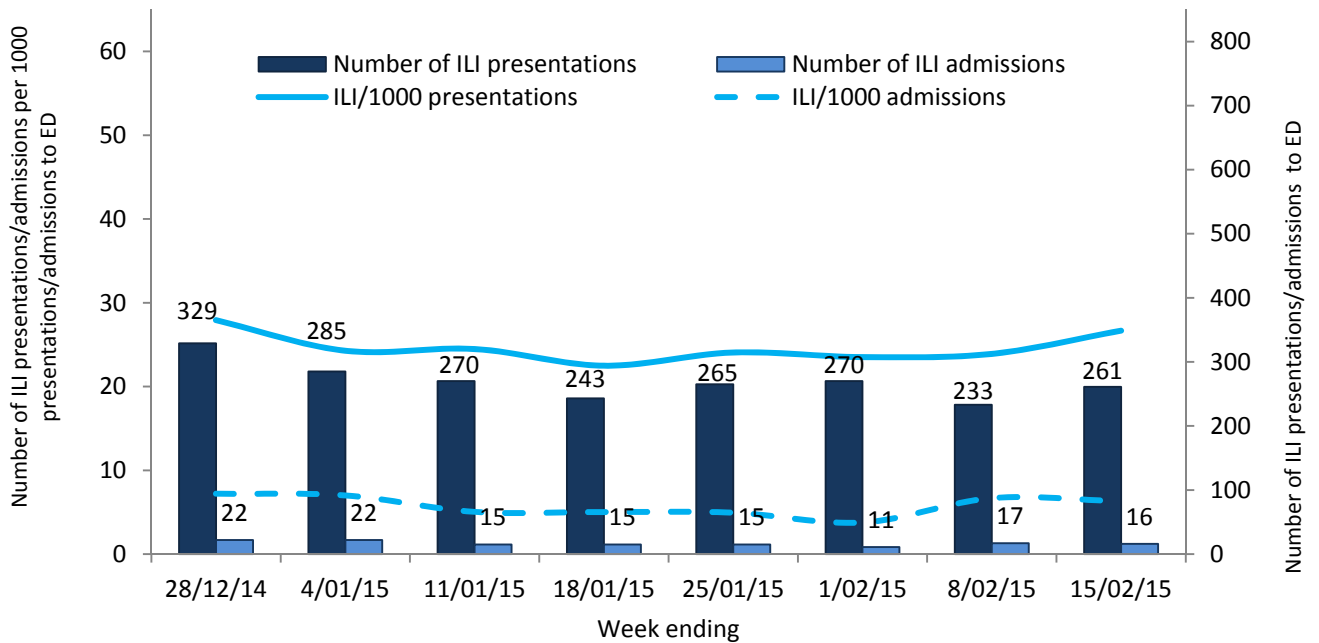


The rate of ILI presentations to SPN(WA) GPs remains low and is consistent with the rate of GP presentations during inter-seasonal periods.



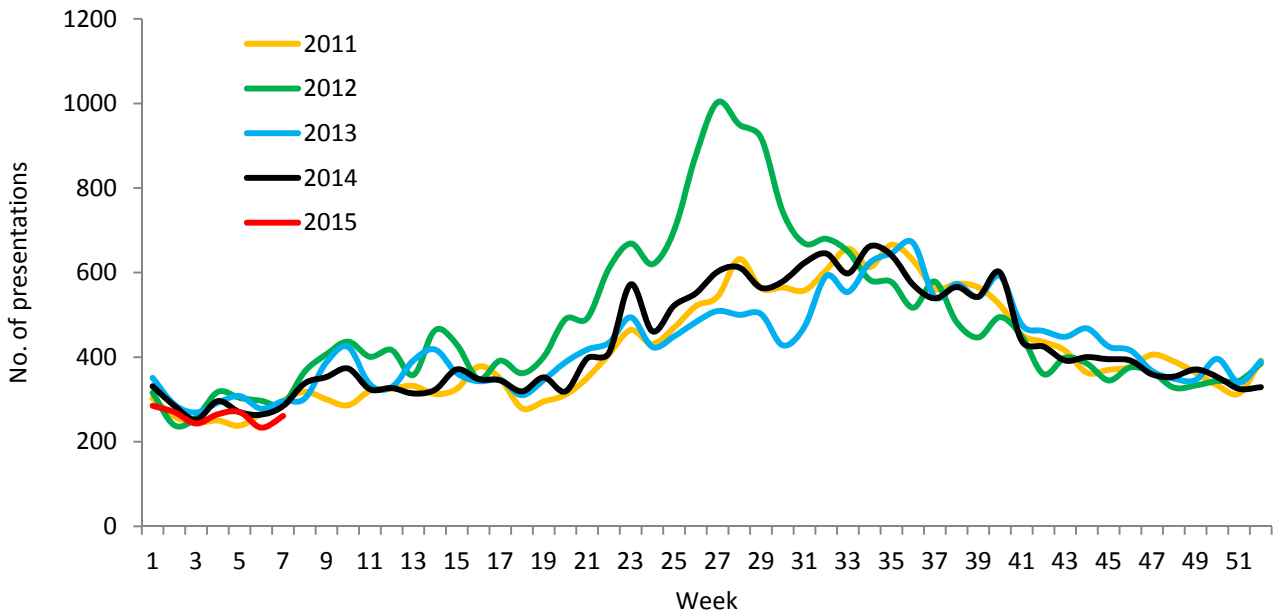
The following is a summary of current Emergency Department sentinel surveillance (EDSS) data for respiratory viral presentations.

### Viral Respiratory ED Presentations and Admissions



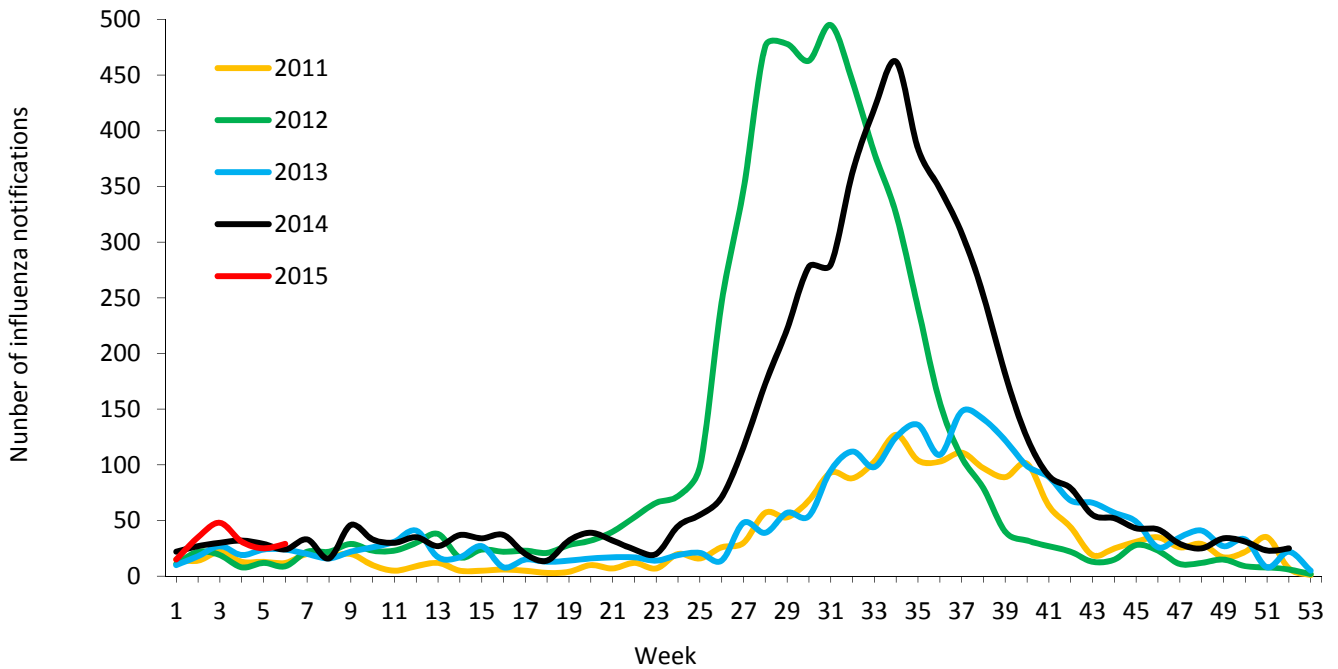
Presentations and admissions for viral respiratory illness to sentinel EDs remain low.

### ED Respiratory Viral Presentations, 2011 - 2015



The number of respiratory viral presentations to sentinel EDs this week is low and consistent with inter-seasonal levels experienced in recent years.

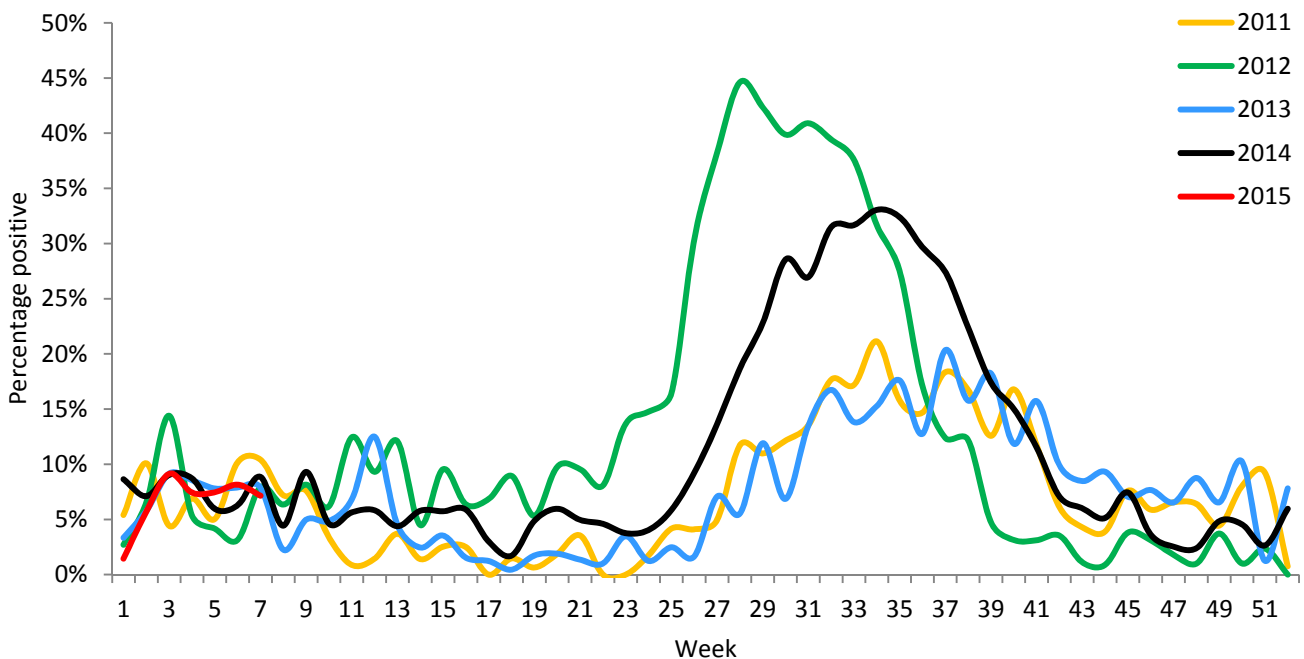
### Influenza notifications in Western Australia by week, 2011 to 2015



**Influenza notifications received by the Department of Health remain low this week (n=33 cases) and consistent with inter-seasonal levels.**

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 09/02/2015 and 15/02/2015.

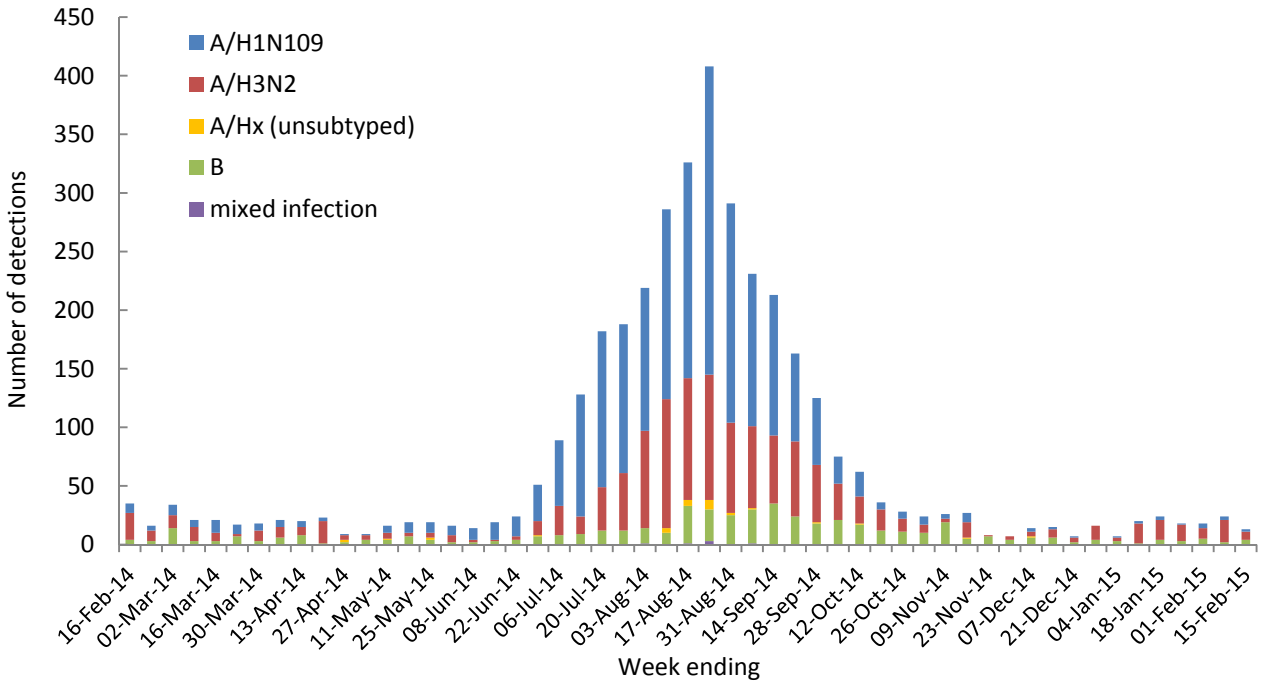
### PathWest-QEII-PMH influenza percentage positive 2011- 2015



**Among samples tested at PathWest this week, 7.1% were positive for influenza virus, which is consistent with values seen during this time period in recent years.**



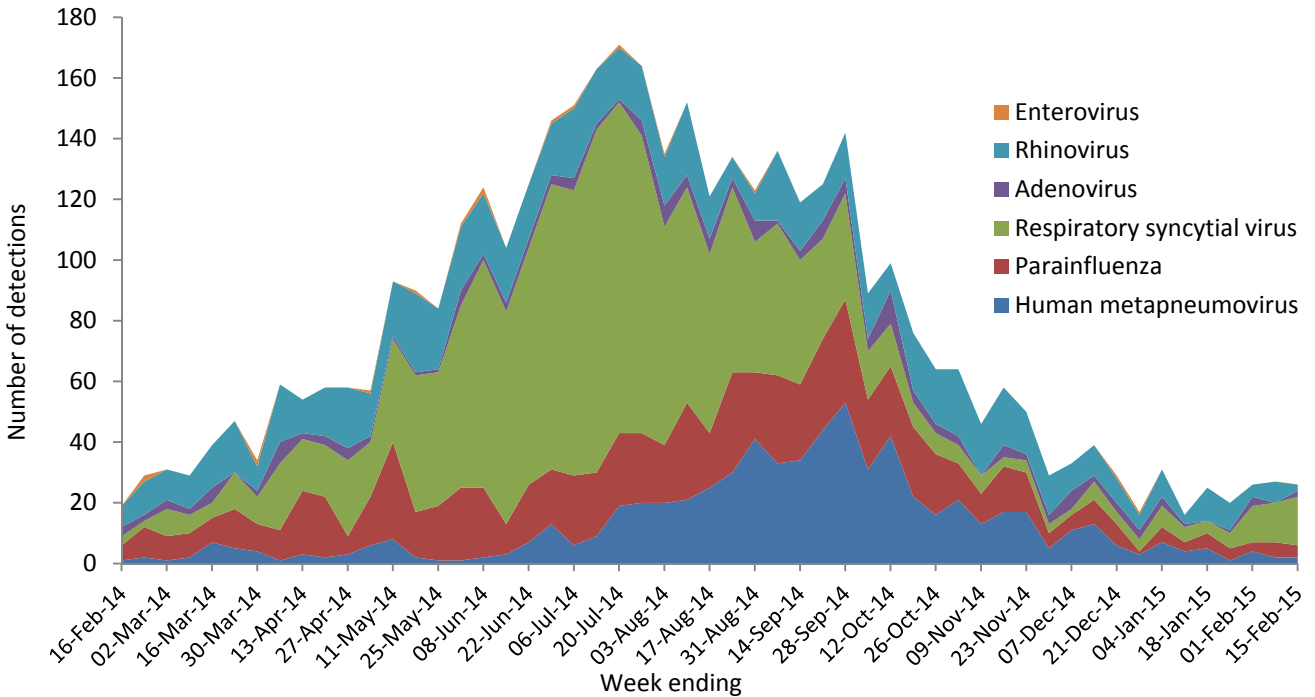
### PathWest-QEII-PMH 2014-2015 influenza subtypes



**Thirteen influenza virus were subtyped by PathWest and QEII during this reporting week; 7 (54%) were influenza A/H3N2, 2 (15%) were influenza A/H1N1, and 4 (31%) were influenza B.**

The graph is a summary of all samples that have been recorded as subtyped at PathWest QEII as of 12.01am Wednesday 18<sup>th</sup> February 2015. The number subtyped may not always correspond to the number of influenza detections.

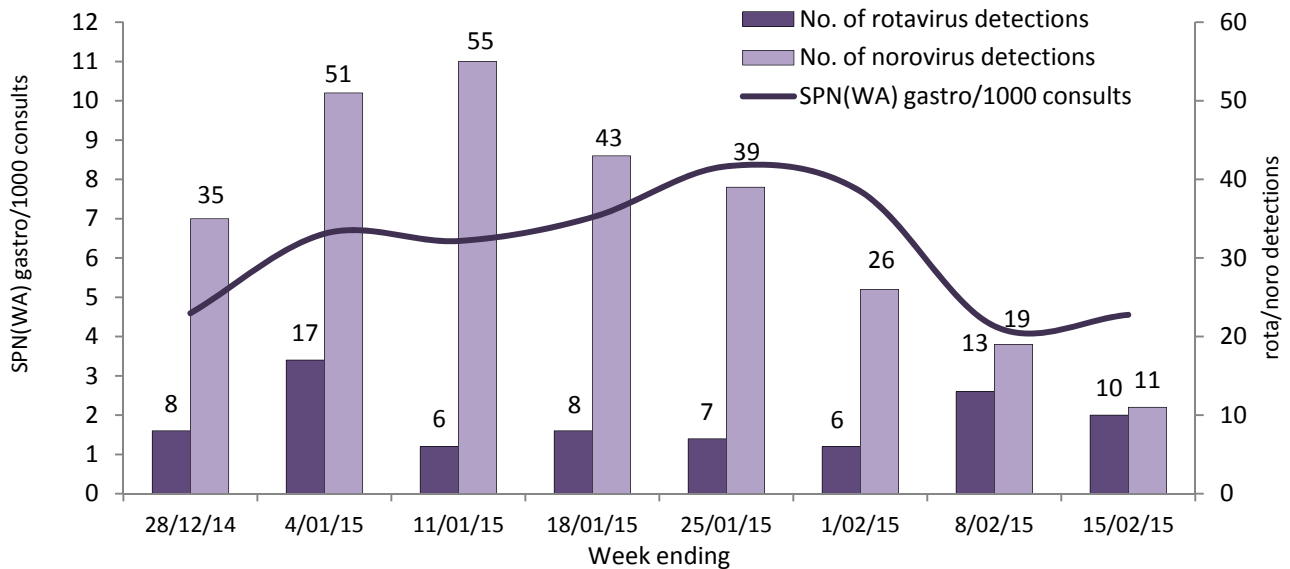
### 2014-2015 Non-influenza respiratory viruses - QEII and PMH



**There was an increase in respiratory syncytial virus activity this week, but overall non-influenza respiratory virus activity remains low.**

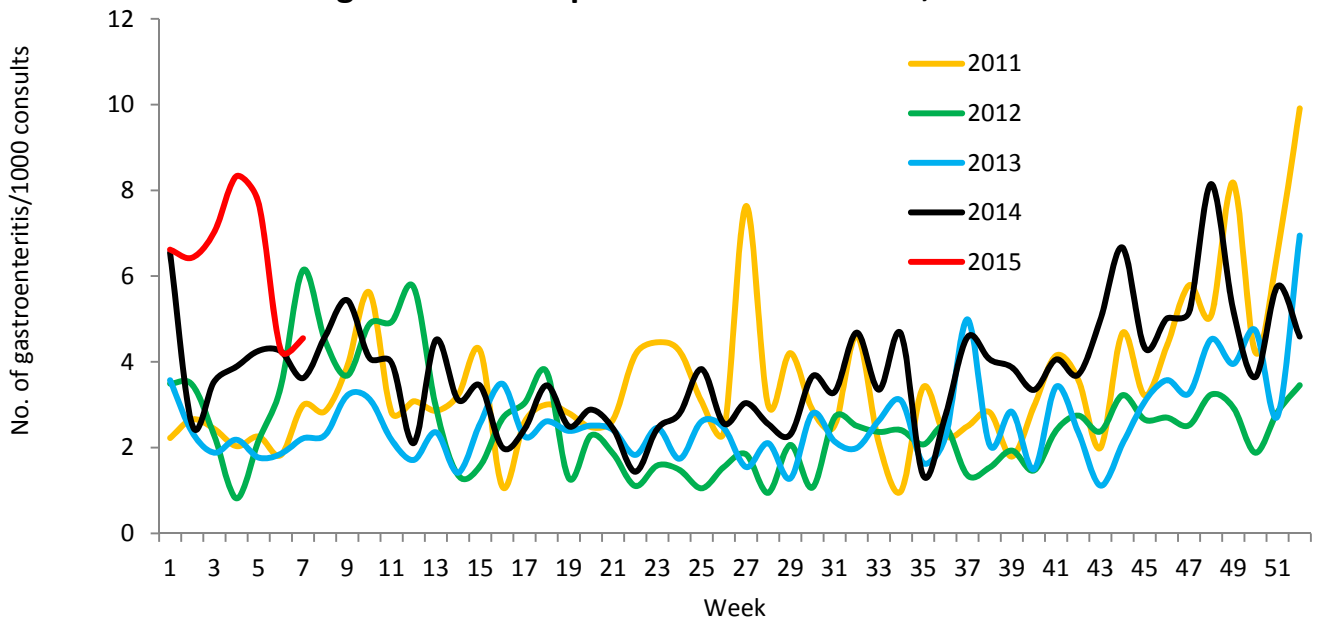
# Gastroenteritis

## Gastroenteritis GP Presentations



Gastroenteritis presentations to SPN(WA) GPs remain near 4 per 1,000 consultations this week. Norovirus and rotavirus detections both decreased this week.

## Sentinel Practitioner's Network of WA SPN(WA) - GP surveillance Rate of gastroenteritis per 1000 consultations, 2011 - 2015

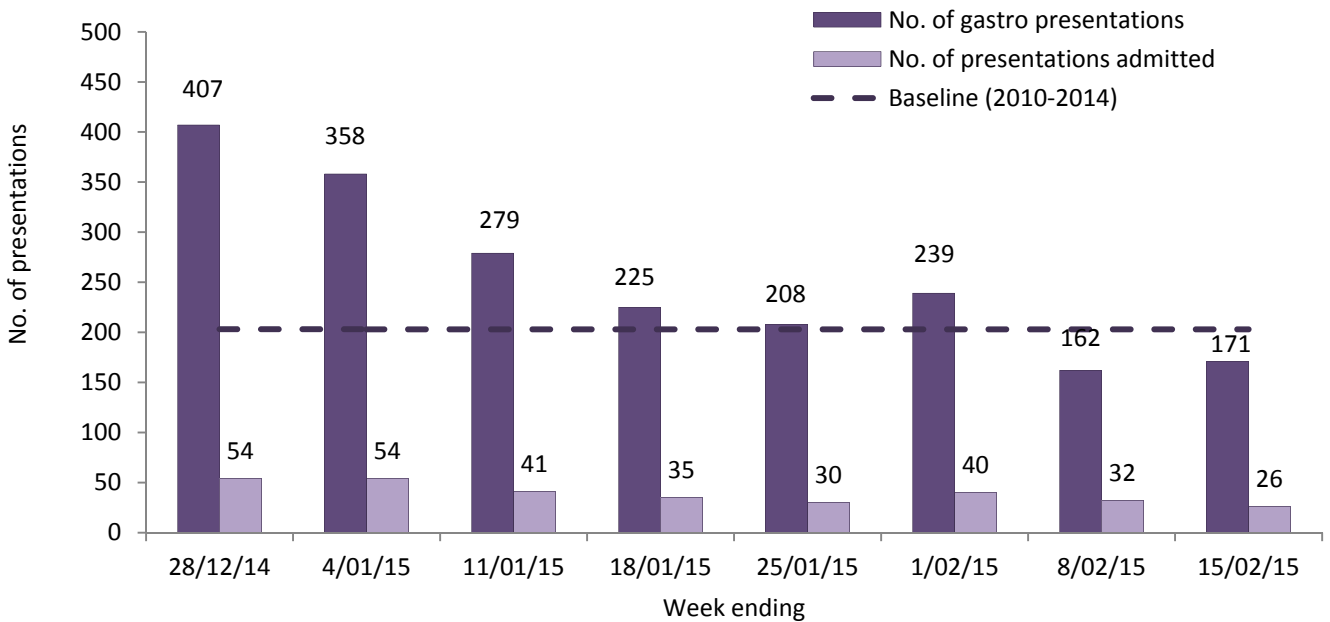


The rate of gastroenteritis presentations to sentinel GPs is within levels reported during the same time period in recent years.



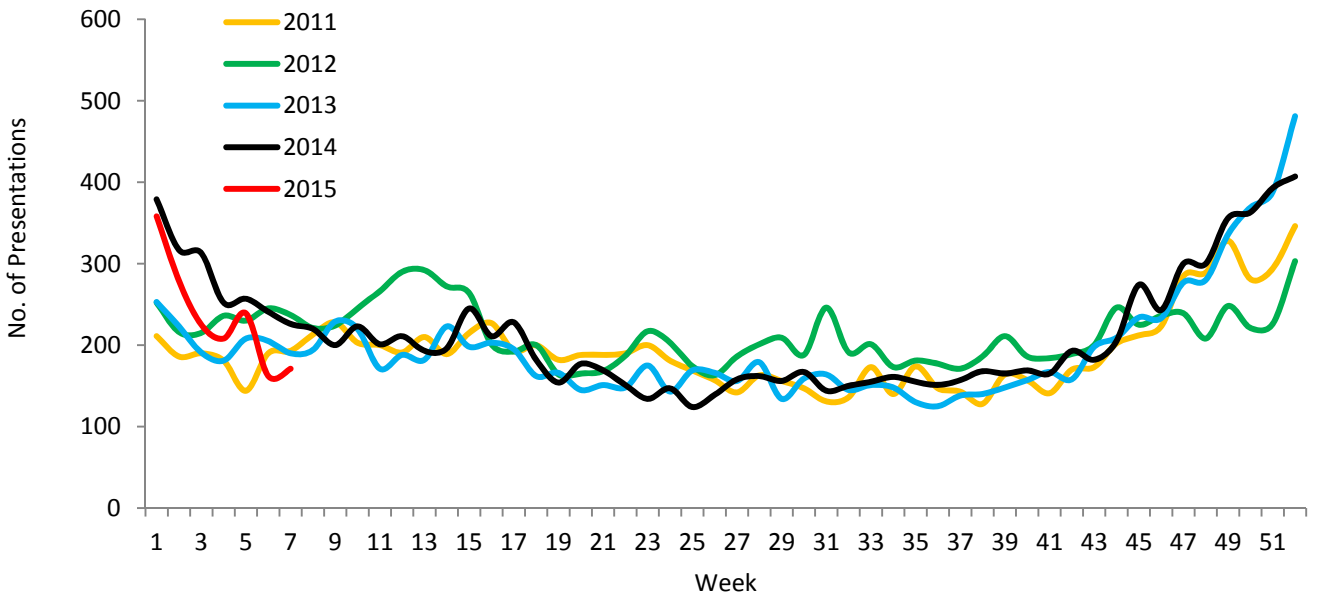
The following is a summary of current Emergency Department Sentinel Surveillance (EDSS) data for gastroenteritis presentations. Baseline levels for gastroenteritis presentations were calculated using the mean of weekly EDIS data from week 1, 2011 to week 52, 2014.

### Gastroenteritis ED Presentations



**Gastroenteritis presentations and admissions to sentinel EDs remain below baseline level this week.**

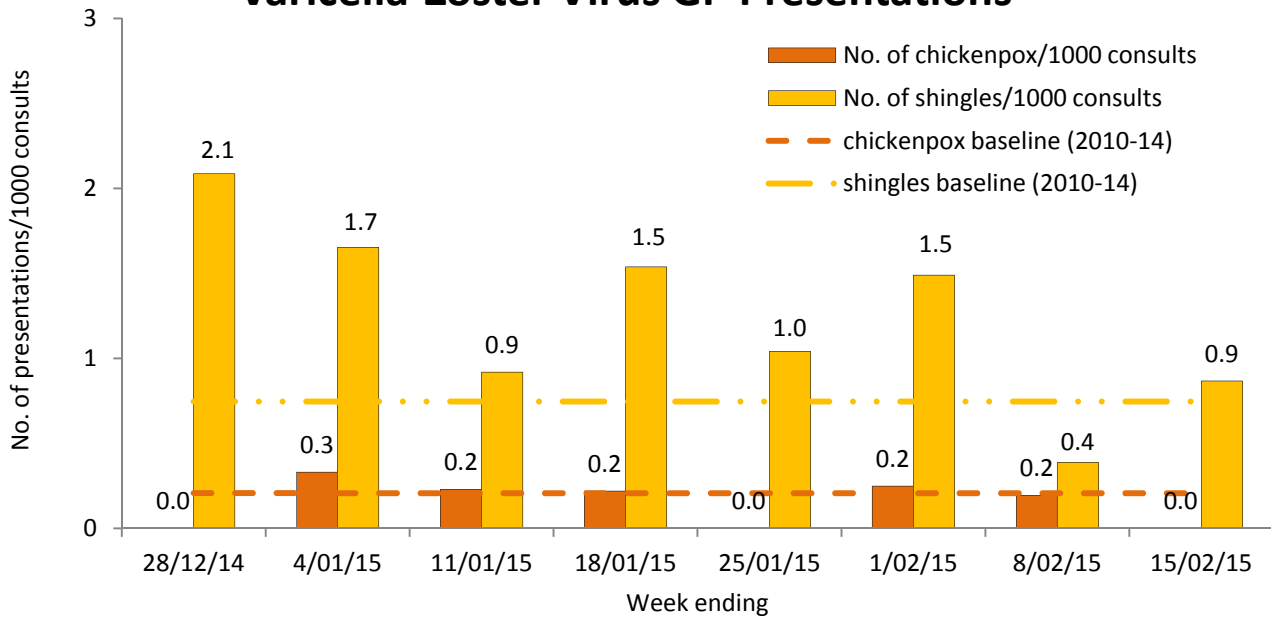
### ED Gastroenteritis Presentations 2011 - 2015



**The number of gastroenteritis presentations to sentinel EDs decreased this week and is now lower than the range of presentations experienced at the same time period in recent years.**

# Viral Rashes

## Varicella-Zoster Virus GP Presentations

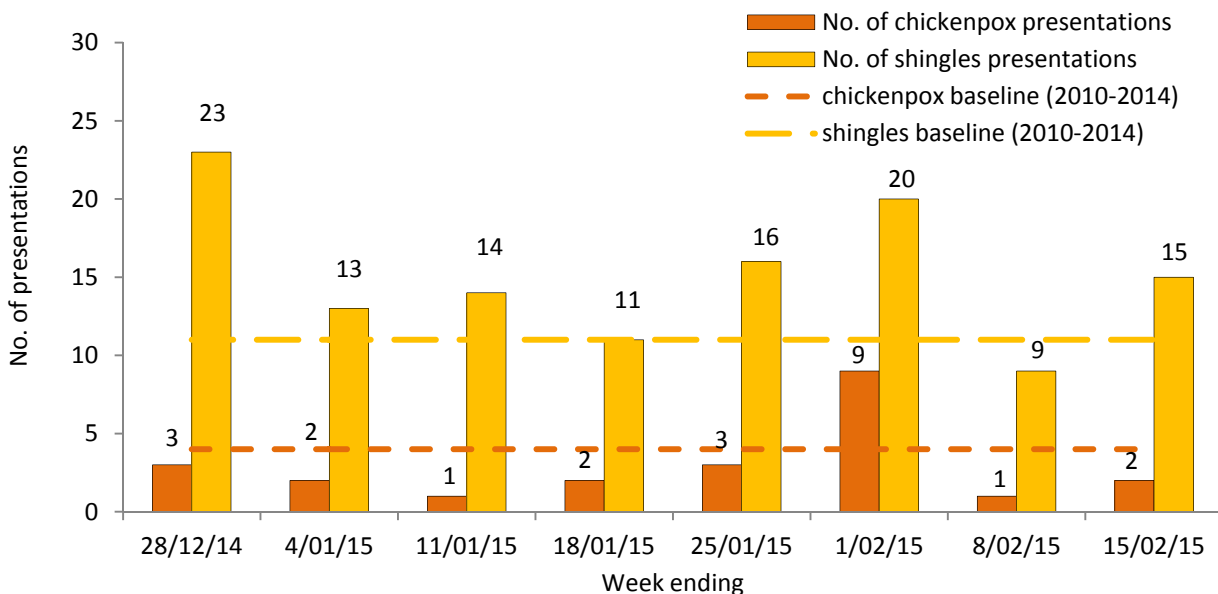


**Shingles presentations to sentinel GPs are at baseline level. There were no chickenpox presentations. No cases of measles, mumps or rubella were confirmed this week.**

Baseline levels for chickenpox and shingles presentations to SPN(WA) GPs per thousand consultations were calculated using the mean of weekly WA ASPREN data from week 1, 2010 to week 52, 2014.

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, 2010 to week 52, 2014.

## Varicella-Zoster virus ED Presentations



**Shingles presentations to sentinel EDs increased above baseline level this week; chickenpox presentations remain below baseline level.**