

2018 Weekly Influenza Report

Health Protection Branch

Report: 03/2018 Issue date: 12 June 2018 (Week 24)

This report comprises data as at: Week 23 (week ending Sat 9 June)

Summary

- **Notified cases:**
 - Cases in **Week 23** are slightly **LOWER** when compared with cases for the week prior
 - Cases (since 1 January 2018) are tracking slightly **HIGHER THAN** cases for the same time in 2017, but are **WITHIN EXPECTED LEVELS** for this time of the season
 - The influenza season (since 1 April 2018) is currently: **at baseline levels**
 - The predominant influenza type across the state is currently: A/H1N1 (**limited typing available**)
 - Geographical spread¹ is currently: **SPORADIC**, with case numbers remaining low
- **Vaccine distribution figures*:**
 - Influenza vaccine doses distributed state-wide: **1,610,475** doses (as at **6 June 2018**)
**excludes vaccines purchased from the private market, workplace programs, etc.*

1. Definitions of geographic spread:

Sporadic – small numbers of laboratory-confirmed influenza cases reported, not above expected background level;

Localised – laboratory-confirmed influenza detections above background level in less than 50% of the state;

Regional – significant numbers of laboratory-confirmed influenza cases reported above background level in less than 50% of the state;

Widespread – significant numbers of laboratory confirmed influenza cases reported above background level in equal to or greater than 50% of the state.

Influenza Snapshot

Influenza notifications as at: 11/06/2018

SIZE

| Influenza types | Current epi week | Epi week -1 | Epi week -2 | Trend week-2 to week-1 | % change (week-2 to week-1) | 2018 YTD | 2017 YTD | 5 year avg YTD (2013-17) | Trend 5 yr avg to 2018 YTD | % change (5 year avg - 2018 YTD) |
|-----------------|------------------|-------------|-------------|------------------------|-----------------------------|----------|----------|--------------------------|----------------------------|----------------------------------|
| ▲ | | | | | | | | | | |
| Influenza A | 0 | 57 | 52 | ▲ | 9.6% | 1265 | 1726 | 1045.4 | ▲ | 21.0% |
| Influenza B | 0 | 15 | 22 | ▼ | -31.8% | 1093 | 407 | 317.2 | ▲ | 244.6% |
| Other/not typed | 0 | 4 | 5 | ▼ | -20.0% | 67 | 10 | 10.6 | ▲ | 532.1% |

| Age group (years) | Current epi week | Epi week -1 | Epi week -2 | Trend week-2 to week-1 | % change (week-2 to week-1) | 2018 YTD | 2017 YTD | 5 year avg YTD (2013-17) | Trend 5 yr avg to 2018 YTD | % change (5 year avg - 2018 YTD) |
|-------------------|------------------|-------------|-------------|------------------------|-----------------------------|-------------|-------------|--------------------------|----------------------------|----------------------------------|
| ▲ | | | | | | | | | | |
| 00 to 04 | 0 | 11 | 11 | -- | 0.0% | 187 | 115 | 96.2 | ▲ | 94.4% |
| 05 to 14 | 0 | 12 | 12 | -- | 0.0% | 214 | 182 | 111.2 | ▲ | 92.4% |
| 15 to 64 | 0 | 46 | 50 | ▼ | -8.0% | 1510 | 1260 | 845 | ▲ | 78.7% |
| 65+ | 0 | 7 | 6 | ▲ | 16.7% | 513 | 586 | 319.4 | ▲ | 60.6% |
| Unknown | 0 | 0 | 0 | -- | -- | 1 | 0 | 1.4 | ▼ | -28.6% |
| Total | 0 | 76 | 79 | ▼ | -3.8% | 2425 | 2143 | 1373.2 | ▲ | 76.6% |

SPREAD/ SEVERITY

VicSPIN sentinel GP consultations for influenza-like illness (ILI) as at: 02/06/2018

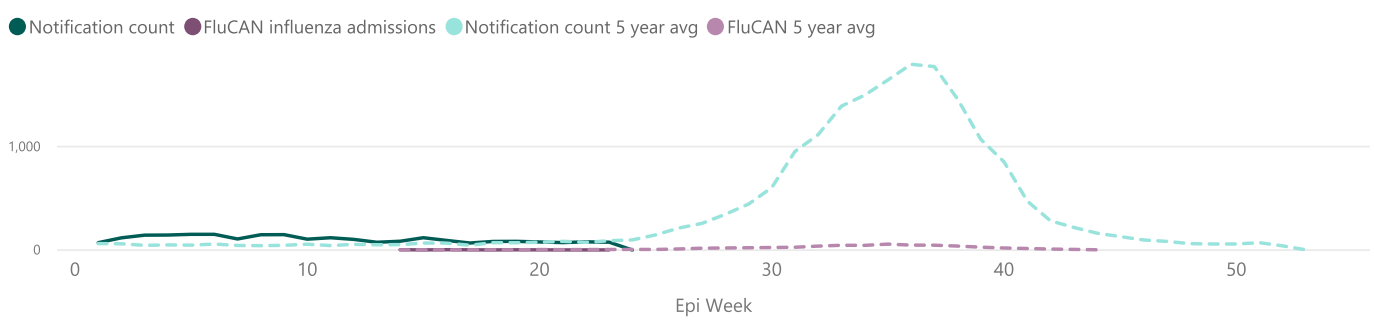
| ILI rate per 1000 consults (current week) | ILI rate per 1000 consults (previous week) | ILI presentations (current week) | ILI presentations (previous week) | ILI presentations (YTD) | % Positive specimens Influenza (current week) | % Positive specimens Influenza (previous week) |
|---|--|----------------------------------|-----------------------------------|-------------------------|---|--|
| 2.3 | 2.7 | 13 | 19 | 78 | 0.0% | 0.0% |

SEVERITY

FluCAN sentinel hospital admissions (at 4 sites) for laboratory-confirmed influenza as at: 12/06/2018

| | Rate of influenza admissions per 100 hospital beds (current week) | Rate of influenza admissions per 100 hospital beds (previous week) | ICU Proportion (current week) | ICU Proportion (previous week) | 2018 influenza admissions (YTD) | 2017 influenza admissions (YTD) | Influenza admissions YTD 5 year avg (2013-2017) | % change (YTD 5 year avg - 2018 YTD) |
|------------|---|--|-------------------------------|--------------------------------|---------------------------------|---------------------------------|---|--------------------------------------|
| ▼ Victoria | 0 | 0.054 | 0 | 0 | 14 | 40 | 29.2 | -52.1% |

Epidemiological curves for influenza surveillance sources YTD



SEVERITY

Respiratory outbreaks in aged care facilities due to influenza

| Year | Outbreaks | Resident Cases | Hospitalisations |
|------|-----------|----------------|------------------|
| 2018 | 7 | 65 | 6 |
| 2017 | 279 | 3888 | 464 |

2018 data are year to date, 2017 data are for full calendar year.

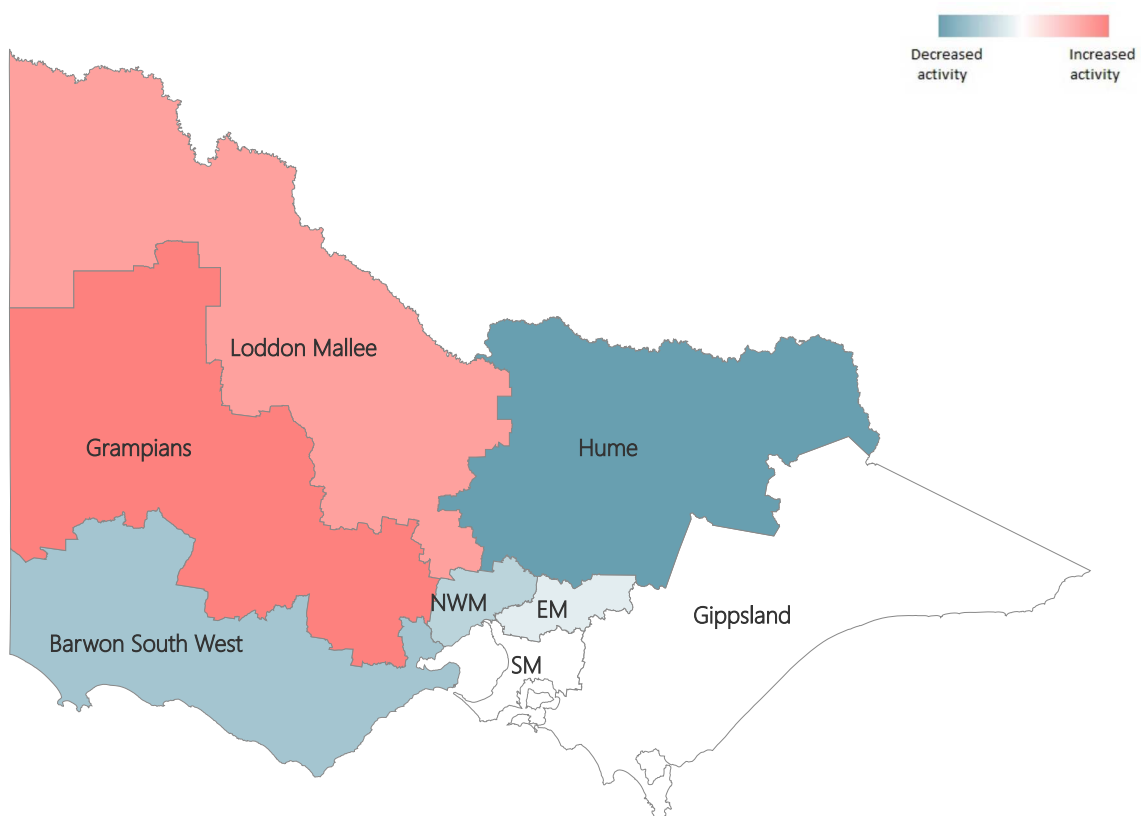
Data are subject to revision. Release dates vary by dataset.



Influenza Snapshot by region as at: **11/06/2018**

| Region | Current epi week | Week -1 | Week -2 | Trend week-2 to week-1 | % change (week-2 to week-1) | 2018 YTD | 2017 YTD | 5 year avg YTD (2013-17) | Trend 5 yr avg to 2018 YTD | % change (5year avg to 2018 YTD) |
|-----------------------------------|------------------------|------------|------------|------------------------------|--------------------------------|-------------|-------------|--------------------------------|----------------------------------|--|
| <i>Unknown / blank</i> | 0 | 1 | 0 | ▲ | -- | 24 | 21 | 14.6 | ▲ | 64.4% |
| BARWON SOUTH WEST | 0 | 4 | 5 | ▽ | -20.0% | 120 | 92 | 86.8 | ▲ | 38.2% |
| EASTERN METROPOLITAN | 0 | 15 | 16 | ▽ | -6.3% | 589 | 481 | 258.2 | ▲ | 128.1% |
| GIPPSLAND | 0 | 3 | 3 | -- | 0.0% | 71 | 80 | 52.6 | ▲ | 35.0% |
| GRAMPIANS | 0 | 4 | 3 | ▲ | 33.3% | 69 | 53 | 28.4 | ▲ | 143.0% |
| HUME | 0 | 2 | 3 | ▽ | -33.3% | 74 | 35 | 36.6 | ▲ | 102.2% |
| LODDON MALLEE | 0 | 5 | 4 | ▲ | 25.0% | 66 | 70 | 41.6 | ▲ | 58.7% |
| NORTHERN AND WESTERN METROPOLITAN | 0 | 17 | 20 | ▽ | -15.0% | 682 | 596 | 417.6 | ▲ | 63.3% |
| SOUTHERN METROPOLITAN | 0 | 25 | 25 | -- | 0.0% | 730 | 715 | 436.8 | ▲ | 67.1% |

% Week on week change (week 2-week1) by region



Data are subject to revision. Release dates vary by dataset.

Glossary of terms and data sources

| | |
|---|---|
| <p>Notified cases of laboratory-confirmed influenza</p> | <p>It is a Victorian statutory requirement that laboratories and medical practitioners notify the Department of Health and Human Services (the department) of a case of laboratory-confirmed influenza within five days of confirmation. These data are stored in the department's notifiable diseases database, the Public Health Event Surveillance System (PHESS). During influenza season, data on notified cases are reported weekly (a week is defined as Sunday to Saturday). Whilst laboratory reporting is increasing due to the widespread availability of influenza testing, notifications from medical practitioners are declining.</p> |
| <p>Respiratory outbreaks notified to the Health Protection Branch</p> | <p>A subset of the notifications dataset, respiratory outbreaks in residential aged care facilities are reported on a weekly basis. Only outbreaks due to influenza will be reported in 2018. Hospitalisations will also be reported.</p> |
| <p>VicSPIN</p> | <p>The Victorian Sentinel Practice Influenza Network (VicSPIN) is a sentinel general practitioner (GP) surveillance program funded by the department, and coordinated by the Epidemiology Unit of the Victorian Infectious Diseases Reference Laboratory (VIDRL) based at the Peter Doherty Institute for Infection and Immunity. VIDRL is one of the department's two public health reference laboratories. Approximately 90 GPs submit weekly reports from May to October detailing the proportion of their consultations that were for patients with influenza-like illness and the proportion that were swabbed for virological testing.</p> |
| <p>FluCAN</p> | <p>The Influenza Complications Alert Network (FluCAN) is a rapid alert system for severe respiratory illness. The sentinel surveillance system is a national system (across 21 major hospitals throughout Australia) providing both clinical and laboratory information for reported cases. The following four Victorian hospitals are participating: The Alfred Hospital, Royal Melbourne Hospital, Monash Medical Centre, and University Hospital Geelong.</p> |
| <p>Nurse-on call</p> | <p>The nurse-on-call service provides a weekly data extract of calls relating to influenza-like illness and gastrointestinal illness as a proportion of all calls to the service.</p> |