

Report No. 12: Week ending 28 July 2019

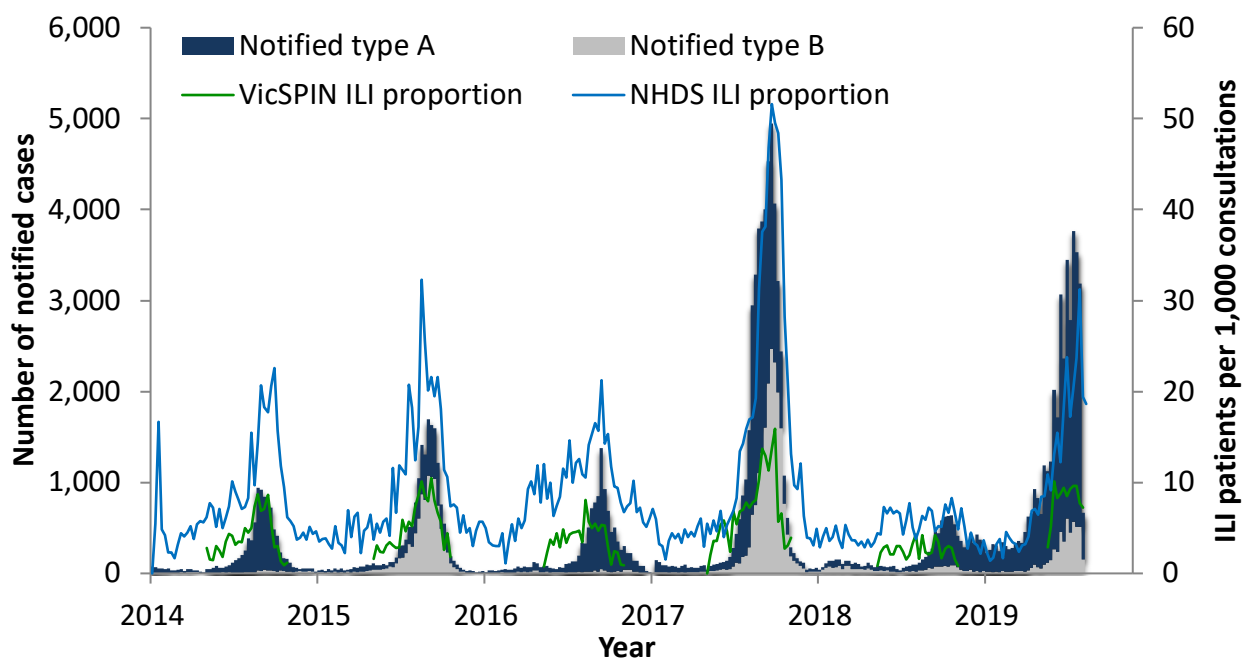
Overview: The 2019 influenza season so far

Influenza-like illness activity remains within the **average** threshold. The total influenza-like illness (ILI) proportion measured by VicSPIN is now similar to the same time in 2017, despite higher than usual activity early in the season.

The number of **notified cases of laboratory confirmed influenza is thirteen times higher than at the same time in 2018 and almost seven times higher than in 2017**. The majority of notified cases are type A (87%), and type A cases are older than type B cases; 33% of type B cases are aged less than 10 years compared to 21% of type A cases, and 17% of type A cases are aged 65 years and older compared to 4% of type B cases.

Twenty-seven swabs were received from VicSPIN this week, of which **48% were positive for influenza**. To date, influenza A(H3) was co-detected with A(H1N1)pdm09 in one case. In four additional cases, influenza was co-detected with another respiratory virus.

Figure 1. Routinely notified influenza cases and VicSPIN and National Home Doctor Service (NHDS) ILI consultation proportions, Victoria, 2014-2019



National Home Doctor Service (Victoria)

- The ILI proportion for the week decreased from 19.4 the previous week to 18.7 ILI cases per 1,000 patients seen (Figure 1).
- ILI activity remains within the average activity threshold range of 10-35 ILI cases per 1,000 patients seen.

Victorian Sentinel Practice Influenza Network

- The total influenza-like illness (ILI) proportion measured by VicSPIN is now similar to the same time in 2017, despite higher than usual activity early in the season. The proportion remains within the average activity level, with 7.2 ILI cases per 1,000 patients seen this week. (Figures 1 & 2).
- Twenty-seven swabs were received this week, of which 13 (48%) were positive for influenza (two of A(H3), two A(H1), six A(untyped) and three B). Other respiratory viruses were detected in seven swabs. (Figure 3).

Table 1. Summary of reporting from general practice sentinel sites, week ending 28 July 2019

	Week	Year-to-date
Number (%) of general practitioners reporting	84 (99%)	
Total patients seen	6,132	74,991
Total patients with ILI	44	587
Consultation rate for ILI (per 1,000 patients)	7.2	7.8
Number of specimens received	27	466
Number (%) positive for influenza	13 (48%)	159 (34%)

Figure 2. VicSPIN ILI consultation proportions, Victoria, 2017, 2018 and 2019

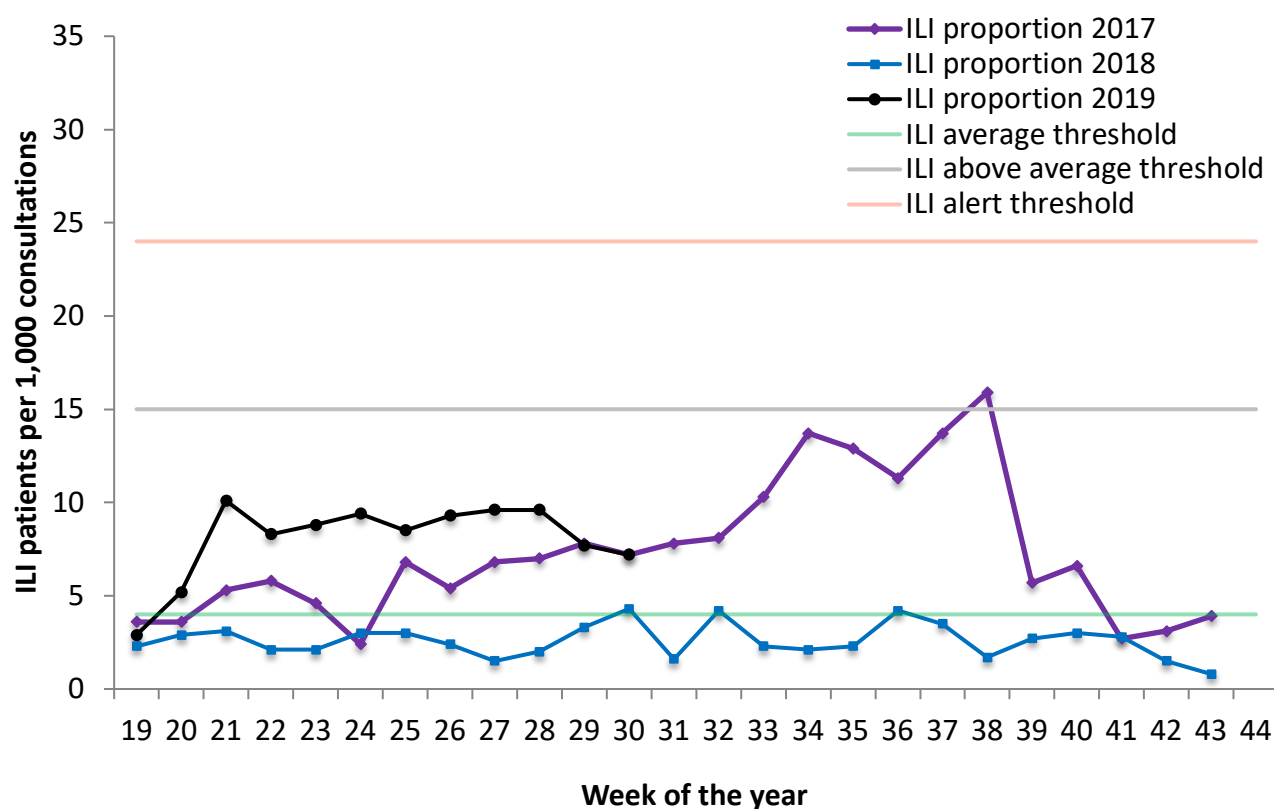
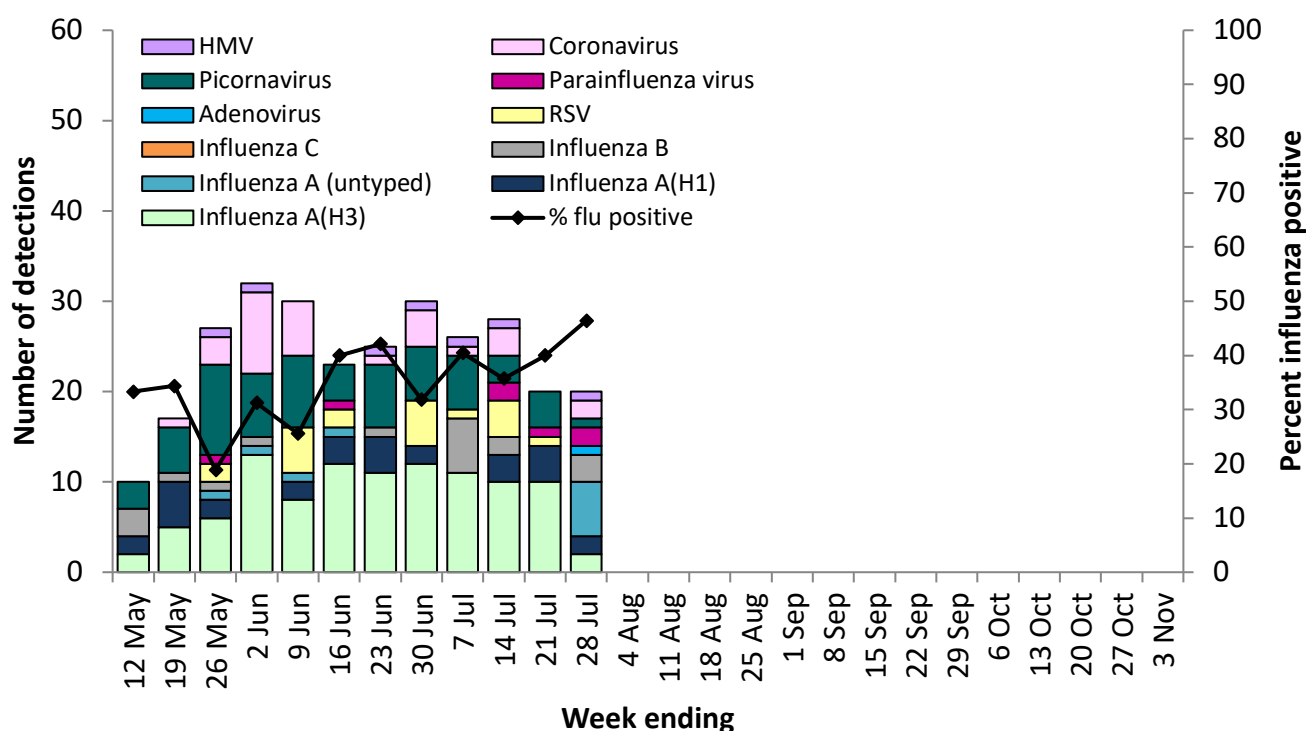


Figure 3. VicSPIN respiratory virus detections and percent influenza positive, Victoria, 2019



Observations from other influenza surveillance systems

Notified cases of laboratory confirmed influenza

- A total of 37,704 cases of laboratory confirmed influenza have been processed so far in 2019, thirteen times the number of cases notified at the same time in 2018 and almost seven times the number of cases notified at the same time in 2017 (Figure 1). This number is subject to change as notifications are processed and entered.
- Year to date, 87% of notified cases have been type A (21% aged less than 10 years and 17% aged 65 years and over) and 13% have been type B (33% aged less than 10 years and 4% aged 65 years and over).

World Health Organization Collaborating Centre for Reference and Research on Influenza

- The strains included in the 2019 quadrivalent influenza vaccine are: A/Michigan/45/2015-Like (H1N1)pdm09 virus; A/Switzerland/8060/2017-like (H3N2) virus; B/Colorado/06/2017-like virus with the quadrivalent vaccine including B/Phuket/3073/2013-like virus as well.
- A total of 224 Victorian isolates have been strain-typed by the WHO to date: 125 as A/Michigan/45/2015-Like; two as A/Michigan/45/2015-Low Reactor; 59 as A/Switzerland/8060/2017-Like; 15 as A/Switzerland/8060/2017-Low Reactor; 14 as B/Colorado/6/2017-Like; eight as B/Colorado/6/2017-Low Reactor; and one as B/Phuket/3073/2013-Like.
- No isolates have shown resistance to zanamivir, however one isolate has shown resistance to oseltamivir among the 1563 Australian isolates tested so far in 2019.