

Population Health Services produce the fluTAS Report to provide information about the level of influenza (flu) in Tasmania. Several surveillance data sources are used to obtain measures of influenza activity in the community.

This surveillance report describes influenza activity in Tasmania during the period 1 January to 28 June 2020 (week 26).

Data considerations

It is important to note that due to the COVID-19 epidemic in Australia, data reported from the various influenza surveillance systems may not represent an accurate reflection of influenza activity. Results should be interpreted with caution, especially where comparisons are made to previous influenza seasons. Interpretation of 2020 influenza activity data should take into account, but are not limited to, the impact of social distancing measures, likely changes in health seeking behaviour of the community including access to alternative streams of acute respiratory infection specific health services, and focussed testing for COVID-19 response activities. Current COVID-19 related public health measures and the community's adherence to public health messages are also likely having an effect on transmission of acute respiratory infections, including influenza.

2020 summary to date: 1 January to 28 June

- There have been 158 laboratory-confirmed influenza notifications in Tasmania to date this year.
- There were relatively high notifications at the beginning of the year compared to previous years before decreasing in mid-March and remaining low.
- This decline in notifications coincided with the physical distancing policies, implemented by the Commonwealth and Tasmanian Governments during March 2020 in response to the COVID-19 pandemic.
- A similar decline in influenza notifications has been observed nationally.
- Influenza A has been the predominant circulating influenza virus with 138 notifications (87%).
- 6 622 polymerase chain reaction (PCR) tests for influenza have been conducted reflecting intensive testing in response to COVID-19.
- Only three per cent of these PCR tests have been positive for influenza.

Notifications of laboratory-confirmed influenza to Public Health Services

Influenza notifications are based on positive laboratory tests. Many people with influenza-like illness choose not to attend medical care or are not tested when they attend. Notifications therefore represent a small proportion of the total influenza cases in the community.

There were 158 laboratory confirmed notifications of influenza in Tasmania from 1 January to 28 June 2020 (week 26), similar to the 2016-2018 average of 162 notifications. In contrast, notifications were 87 per cent lower than the 1396 notifications received during the same period in 2019. Last year was characterised by an early start to the influenza season with notifications increasing dramatically from March.

Monthly influenza case numbers were relatively high during January and February compared to previous years before decreasing in mid-March and remaining low (Figure 1). This decline coincided with the social distancing policies, implemented by the Commonwealth and Tasmanian Governments during March 2020 in response to the COVID-19 pandemic. A similar decline in influenza notifications has been observed nationally.

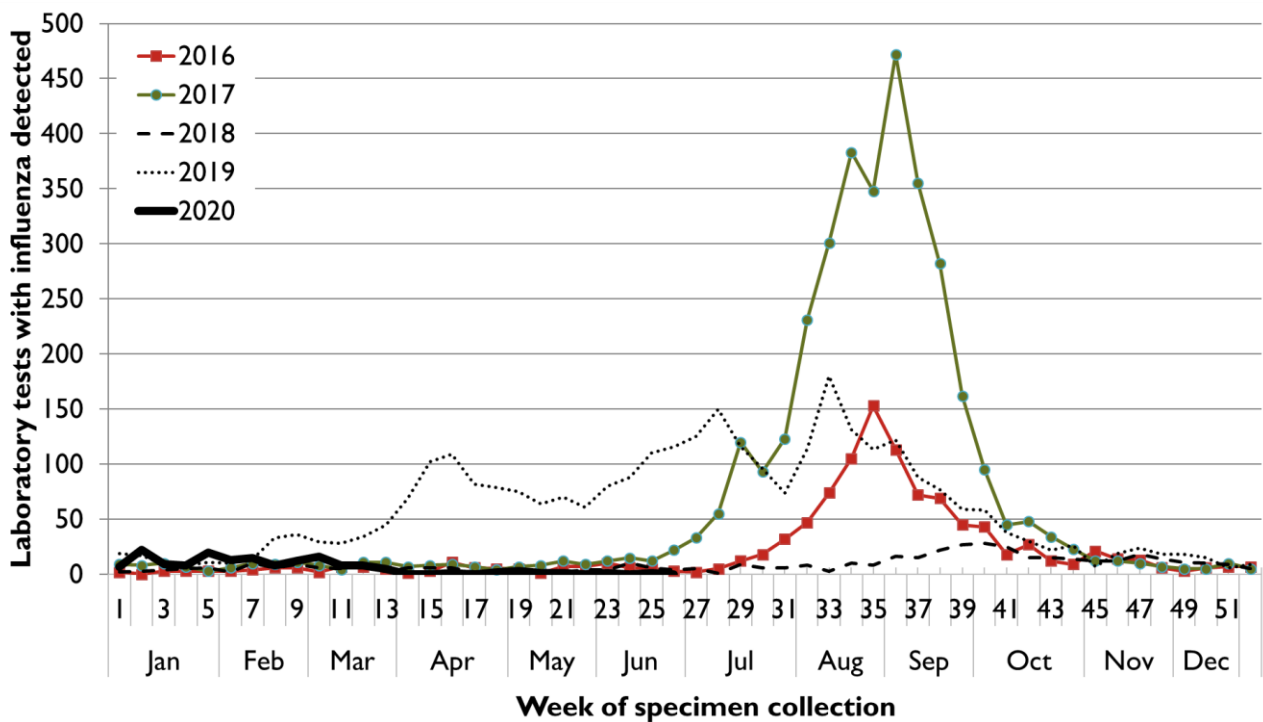


Figure 1: Notifications of influenza in Tasmania, by week, 1 January 2016 to Sunday 28 June 2020 (week 26).

Influenza testing

There has been an increased focus on laboratory testing this year in response to the COVID-19 pandemic. 6 622 polymerase chain reaction (PCR) tests for influenza were conducted between 1 January and Sunday 28 June 2020. Influenza testing increased dramatically in March and peaked in early May with 648 tests conducted in week 19 (Figure 2).

Proportion of tests positive for influenza

Despite this focus on testing, the average weekly proportion of tests positive for influenza so far this year is three per cent, ranging from 0 to 14 per cent. The percentage of positive tests peaked in week 2 at 14 per cent and week 5 at 13 per cent before gradually declining (Figure 2). There have been no positive PCR tests in since March 29 (week 13).

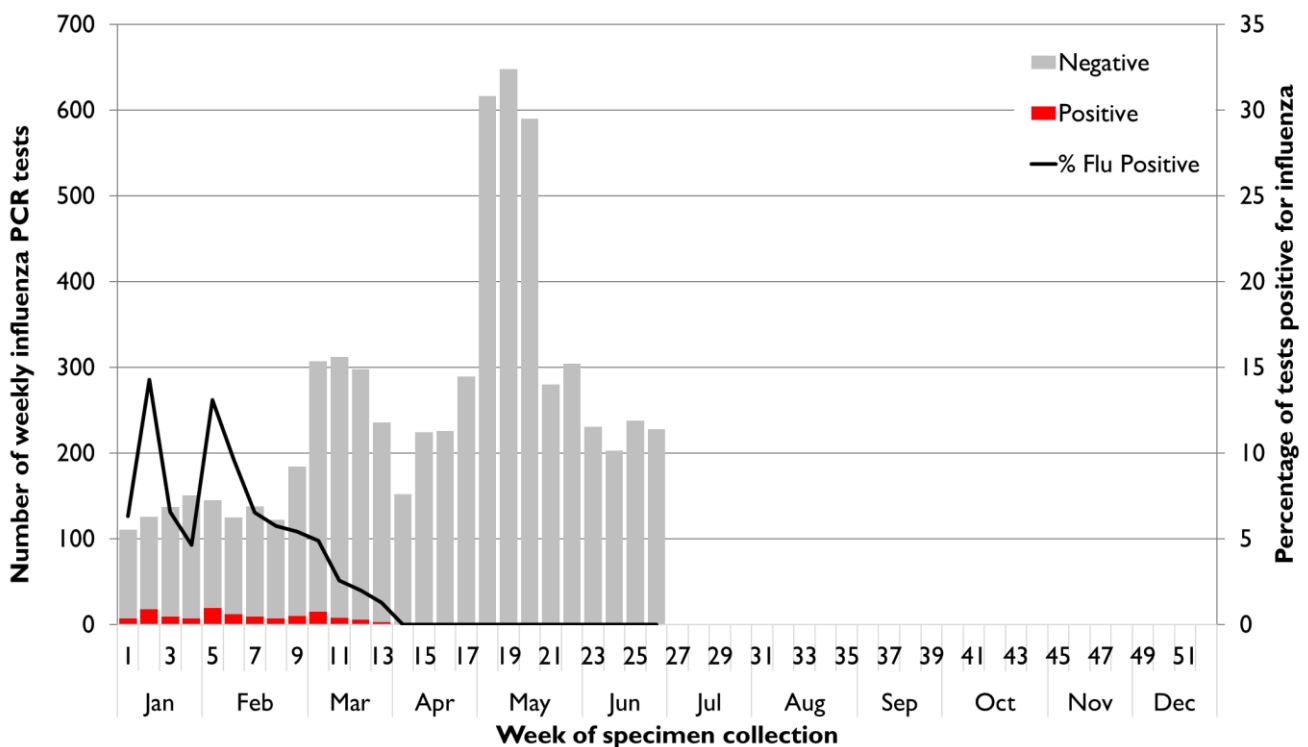


Figure 2: State-wide influenza PCR testing, 1 January 2020 to Sunday 28 June 2020 (week 26).

Other circulating respiratory illness

Many viruses cause the ‘common cold’ and ‘influenza-like illnesses’. The Royal Hobart Hospital (RHH) laboratory performs a PCR test that detects influenza A and influenza B viruses, as well as seven other respiratory pathogens commonly associated with respiratory illness.

Between 1 January and Sunday 28 June 2020, RHH performed 2 770 PCR tests. The most commonly detected respiratory viruses this year have been rhinovirus (63 per cent), parainfluenza (10 per cent), adenovirus (9 per cent) and influenza A (6 per cent). Since the last FluTAS Report (for the period ending 31 May 2020), rhinovirus has accounted for 87 per cent and adenovirus for 9 per cent of detected respiratory viruses.

Geographical distribution of activity

Of the 158 notified cases of influenza in Tasmania, 93 cases (59 per cent) were from the South, 34 cases (22 per cent) from the North and 26 cases (16 per cent) from the North-West. Three overseas visitors and one interstate resident were diagnosed with influenza in Tasmania during this period.

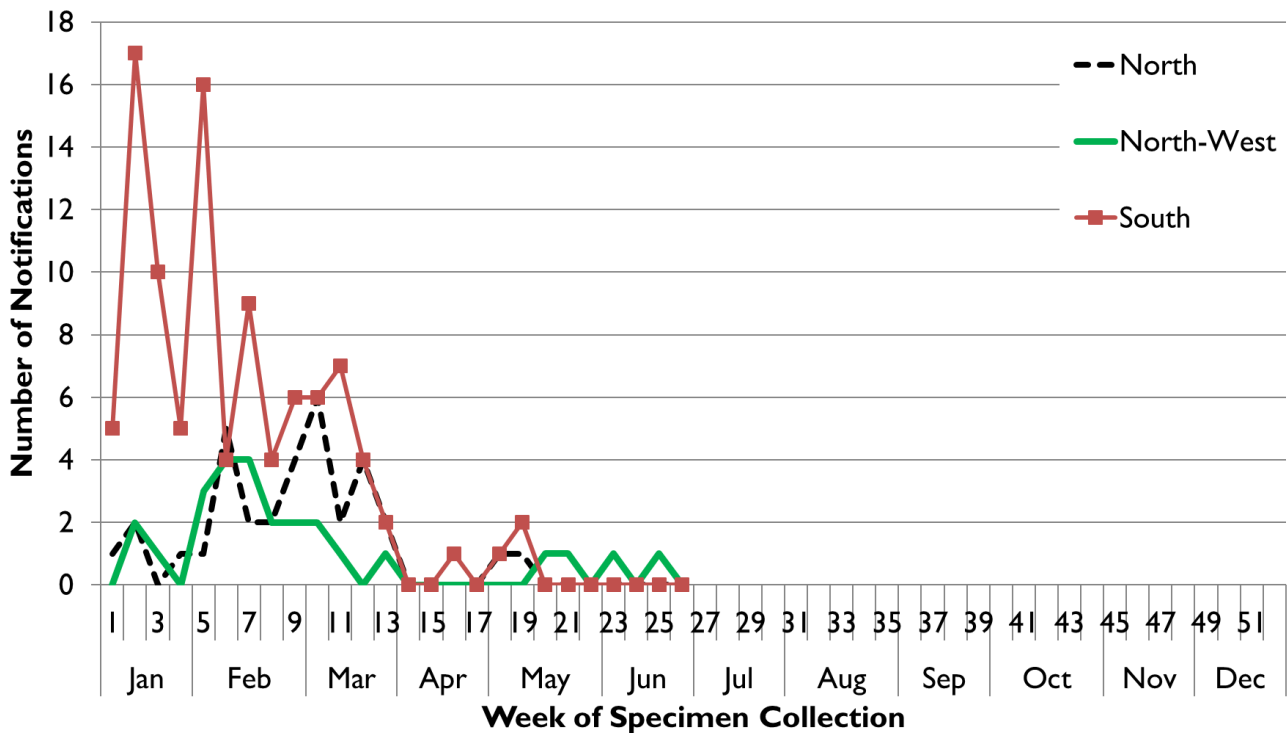


Figure 3. Weekly notifications in Tasmania by region from 1 January to Sunday 28 June 2020 (week 26).¹

Virology

Influenza A has been the predominant circulating influenza virus so far this year with 138 notifications (87%). A small proportion of influenza A viruses undergo further subtyping. Of the 44 cases that were subtyped, 42 (95 per cent) were influenza A (H1N1). The remaining 20 cases (13 per cent) are attributed to influenza B. Since the last FluTAS Report (for the period ending 31 May) there have been no notifications of influenza A and two notifications of influenza B.

At-risk populations

In the year to date, notification rates have been highest in adults aged 50-54 (68 notifications per 100 000 population) and adults aged 70-74 (48 notifications per 100 000 population). Influenza A accounts for the greatest number of notifications across all age groups with 26 notifications per 100 000 population. The highest rates of influenza A were detected in those aged 50-54 years (62 notifications per 100 000 population) and the highest rates of influenza B in those aged 20-24 years (12 notifications per 100 000 population).

Influenza-like illness

FluTracking (Community Syndromic Surveillance)

FluTracking is a national, weekly online survey that asks participants to report whether they have had fever and/or cough in the preceding week. It is a joint initiative of the University of Newcastle, Hunter New England Population Health and the Hunter Medical Research Institute. *FluTracking* information is available at <https://info.flutracking.net/> and on Facebook at www.facebook.com/Flutracking

Annual Influenza Vaccine

Composition of 2020 influenza vaccines

The annual influenza vaccine is reviewed late each year, aiming to produce vaccines for the following year that provide protection from influenza strains likely to be common during winter. Advice on the formulation of annual influenza vaccines is provided to the Therapeutic Goods Administration (TGA) by the Australian Influenza Vaccine Committee (AIVC): www.tga.gov.au/committee/australian-influenza-vaccine-committee-aivc

This AIVC recommendation for the composition of influenza vaccines for Australia in 2020 introduces a new A (H1N1) like virus strain, a new A (H3N2) like virus strain and a new strain for the B Victoria lineage when compared to the composition of the trivalent and quadrivalent vaccines for Australia in 2019.

Further information on the composition of influenza vaccines is available at www.tga.gov.au/aivc-recommendations-composition-influenza-vaccine-australia-2020

Is vaccination recommended?

Annual influenza vaccination is the most important measure to prevent influenza and its complications and is recommended for all people ≥ 6 months of age. Annual vaccination can help to reduce the spread of influenza and protect vulnerable members of the community.

Influenza vaccines in 2020 are free[#] in Tasmania for people at greater risk of contracting and developing severe complications from influenza. Free vaccine is available through General Practitioners for the following people:

- All children aged from six months to under five years
- All Aboriginal and Torres Strait Islander people aged 6 months and over
- Adults aged 65 and over
- Pregnant women at any stage in their pregnancy
- Adults and children aged from 6 months with chronic medical conditions such as heart, lung, liver or kidney diseases, asthma, diabetes, cancer, impaired immunity and neuromuscular conditions

For more information see flu.tas.gov.au or beta.health.gov.au/topics/immunisation

[#] Please note there may be a consultation fee for the healthcare provider to administer the vaccine.

Further Information

For the latest information on influenza in Tasmania visit flu.tas.gov.au

Past FluTAS reports are available at dhhs.tas.gov.au/publichealth/communicable_diseases_prevention_unit